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Fred Dacimo
Vice President
License Renewal

NL-09-160

November 24, 2009

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

SUBJECT: Request for Additional Information Related to License Renewal
Indian Point Nuclear Application Environmental Report –
Impingement Data
Indian Point Nuclear Generating Unit Nos. 2 & 3
Docket Nos. 50-247 and 50-286
License Nos. DPR-26 and DPR-64

REFERENCES: 1. Meeting Minutes, Telephone Conference, October 28, 2009, between
Mr. Andrew Stuyvenberg NRC and Entergy Staff Regarding
Impingement Data
2. Entergy Nuclear Operations Inc. Letter NL-07-156, "Supplement to
License Renewal Application (LAR) – Environmental Report
References" dated December 20, 2007

Dear Sir or Madam:

Entergy Nuclear Operations, Inc (Entergy) is providing, in Enclosure 1, impingement data in accordance with a request provided during a telephone conference call (reference 1) regarding issues that required additional information for data provided in reference 2.

Enclosure 1 provides the additional information requested. The replacement data requested by the NRC staff is derived from the results provided in each annual Indian Point impingement data report. The replacement data contains impingement information by Unit (Unit 2 or Unit 3), strata (four seasons), year (1981-1990), and fish taxa.

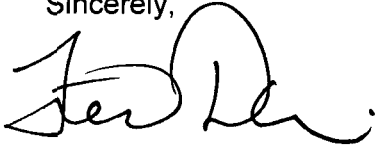
There are no new commitments identified in this submittal. If you have any questions, or require additional information, please contact Mr. Robert Walpole at 914-734-6710.

A128
NRB

I declare under penalty of perjury that the foregoing is true and correct. Executed on

11/24/09

Sincerely,

A handwritten signature in black ink, appearing to be "FRD/dmt", written in a cursive style.

FRD/dmt

Enclosure: 1. License Renewal Application Environmental Report – Impingement Data

cc: Mr. Samuel J. Collins, Regional Administrator, NRC Region I
Mr. Sherwin E. Turk, NRC Office of General Counsel, Special Counsel
Ms. Drew Stuyvenberg, NRC Environmental Project Manager
Mr. John Boska, NRR Senior Project Manager
IPEC NRC Resident Inspector's Office
Mr. Paul Eddy, New York State Department of Public Service
Mr. Francis J. Murray, President and CEO, NYSERDA

ENCLOSURE 1 TO NL-09-160

License Renewal Application Environmental Report – Impingement Data

ENTERGY NUCLEAR OPERATIONS, INC.
INDIAN POINT NUCLEAR GENERATING UNIT NOS. 2 & 3
DOCKET NOS. 50-247 AND 50-286
LICENSE NOS. DPR-26 AND DPR-64

Overview

Indian Point Unit 2 and Unit 3 Impingement Abundance Data Files, 1981-1990.

This Excel workbook provides impingement abundance data for Indian Point Unit 2 and Unit 3 for each year, 1981 through 1990.

Four separate data worksheets are provided along with a data dictionary and a list of source documents.

The contents of each worksheet in this workbook are described below.

All numeric values presented in this workbook were transcribed from annual Indian Point impingement monitoring reports, except for Atlantic and shortnose sturgeon as noted below

All numeric values presented in this workbook were subjected to, and passed, a quality control inspection process with an average outgoing quality level of 1% or better, meaning there are fewer than one transcription error among every 100 data records.

DataDictionary Worksheet

The worksheet **DataDictionary** provides a listing of all variables (column headings) used in each of the four data worksheets and their definitions, with notes providing further explanation if needed.

References Worksheet

The worksheet **References** provides the citation for each annual Indian Point impingement monitoring report that was used as the source document

for the impingement abundance data provided in the four data worksheets. The specific tables providing data for each of the four data worksheets are also listed in the reference citations.

IMP19811990 Worksheet

The worksheet **IMP19811990** provides the total number of fish impinged for each taxon and for all fish taxa combined (TAXON 999) at Indian Point Unit 2 and Unit 3 for each cell under the variable column **EstComb** for each seasonal stratum (winter, spring, summer, fall) in each year (1981-1990) transcribed from the tables in each impingement monitoring report as cited in the references.

This worksheet has the same structure and content as the file originally sent to NRC in December 2007 called IMP19811990.csv.

This worksheet should be used as a corrected replacement for the earlier file.

The total number of each taxon impinged was adjusted for collection efficiency, and the file is "zero filled" by assigning a zero value for each taxa not present in a stratum where sampling occurred.

If sampling did not occur during a particular stratum, the EstComb column is present but contains blanks.

Stratum and annual abundance for Atlantic and shortnose sturgeon were derived from ***Indian Point Sturgeon Impingement 1974-1990.pdf*** (provided to NRC on July 1, 2009) and not from the annual reports. Enumeration of blue crabs (TAXON 754) on both sample and non-sample days began in 1983 and continued through 1990 in the Indian Point Unit 2 and Unit 3 impingement samples.

IMP19811990strata Worksheet

The worksheet **IMP19811990strata** provides an abbreviated version of the same data found in **IMP19811990**.

Year, Unit, Strata, Taxon, Common Name and EstComb are the only variables presented in this worksheet.

IMP19811990annual Worksheet

The worksheet **IMP19811990annual** provides annual total impingement abundance for each fish taxon and for all fish taxa combined at Indian Point Unit 2 and Unit 3 for each year 1981-1990, and a quality control check comparing the seasonal stratum data and annual totals found in each report table.

Annual values transcribed from each table in the report reference list are found under the column labeled "Table Total" and are shown in comparison to those derived by summing the variable EstComb found in IMP19811990, among the winter, spring, summer and fall strata to provide an estimate of the annual total number of fish impinged for each taxon and for all fish taxa combined

Differences between the numeric value for EstComb and Table Total for each taxon, Unit and year represent unresolved discrepancies within each report table

SEComb, the standard error of the annual estimate, and CV, the coefficient of variation, are presented in this worksheet and represent the values transcribed from the annual report tables

IMP19811990sample Worksheet

The worksheet **IMP19811990sample** provides the sampling design for seasonal strata, the associated number of sample days and volume sampled

for Indian Point impingement at Unit 2 and Unit 3 for the years 1981-1990. In addition, the number of plant operating days and the plant operating volumes are presented

Data Dictionary

Indian Point Data Dictionary for Unit 2 and Unit 3 Impingement Abundance Data Files, 1981-1990.

Unless otherwise noted, data sources are annual report tables.

Workbook Tab: Imp19811990		
Field	Definition	Notes
Year	1981-1990	
Unit	Unit 2 or Unit 3	
Strata	Winter	January, February, March
	Spring	April, May, June
	Summer	July, August, September
	Fall	October, November, December
Taxon	Taxon codes as presented in the Consolidated Edison Data Dictionary	Note: Taxon 999 is All Fish Taxa
Common Name	Common Name of Taxon	Note: Names are standardized across years:
		Carp or Common carp (9)
		Seahorse – Lined seahorse (54)
		Clupeid or clupeid larvae (50)
		Moonfish – Atlantic Moonfish (68)
		Squirrel or red hake- Red hake (98)
		Tidewater silverside- Inland silverside (73)
		Wh Bass x Striped Bass Hybr- Morone sp.(60)
EstYOY	Estimated Number Impinged: Young of the Year	<i>Not provided</i>
EstYRLNG	Estimated Number Impinged: Yearling	<i>Not provided</i>
EstYROL	Estimated Number Impinged: Yearling and Older	<i>Not provided</i>
EstComb	Collection efficiency adjusted impingement abundance count- all life stages combined.	Strata counts as presented in respective annual reports, 1981-1990.
SEYOY	Standard error of the estimated number of young of the year impinged.	<i>Not provided</i>
SEYRLNG	Standard error of the estimated number of yearling impinged.	<i>Not provided</i>
SEYROL	Standard error of the estimated number of yearling and older impinged.	<i>Not provided</i>
SEComb	Standard error of the estimated total all lifestages impinged.	<i>Not provided</i>
Sample Days	Reported number of days of impingement sampling	1981 data are not available. For the period 1982-1990, actual sampling dates are reported in the annual report tables and these were tallied by strata to determine sample days.

Workbook Tab: Imp19811990		
Sample Volume	Volume of water sampled ($\times 10^6 \text{ m}^3$)	Report table data presents the average daily volume for the dates sampled. The number of days sampled in a month is multiplied by the average daily sampling volume for the month and the strata months summed to obtain a total sampling volume for the strata.
Operating Days	Reports number of days of plant operation.	Actual plant operation days are presented in the annual reports and these days were tallied to report the number of plant operating days.
Operating Volume	Volume of water pumped during plant operational days ($\times 10^6 \text{ m}^3$)	The average daily operating volume for each month is reported in the annual reports and this number is multiplied by the number of days of operation in the month, and the strata volume summed across months to obtain strata operating volume.
Start Date	Sampling period start date within the strata	Based on first sample date in the strata as reported in annual tables.
End Date	Sampling period end date within the strata	Based on last sample date in the strata as reported in annual tables.
Workbook Tab: Imp19811990Strata		
Field	Definition	Notes
Year	1981-1990	
Unit	Unit 2 or Unit 3	
Strata	Winter	January, February, March
	Spring	April, May, June
	Summer	July, August, September
	Fall	October, November, December
Taxon	Taxon codes as presented in the Consolidated Edison Data Dictionary	Note: Taxon 999 is All Fish Taxa
Common Name	Common name of Taxon	Note: These fish taxon names required standardization among years:
		Carp or Common carp (9)
		Seahorse –Lined seahorse (54)
		Clupeid or clupeid larvae (50)
		Moonfish – Atlantic Moonfish (68)
		Squirrel or red hake- Red hake (98)
		Tidewater silverside- Inland silverside (73)
EstComb	Collection efficiency adjusted impingement abundance count- all life stages combined.	Wh Bass x Striped Bass Hybr- Morone sp.(60)
		Counts as presented in respective annual reports, 1981-1990.

Workbook Tab: Imp19811990Annual		
Year	1981-1990	
Unit	Unit 2 or Unit 3	
Strata	Annual	Includes collection efficiency adjusted impingement abundance counts summed for all strata in each year.
Taxon	Taxon codes as presented in the Consolidated Edison Data Dictionary	Note: Taxon 999 is All Fish Taxa
Common Name	Common name of Taxon	See note above.
EstComb	Collection efficiency adjusted count- <i>calculated from the sum of stratum values for EstComb.</i>	Calculated annual total – the sum of EstComb for each taxon, unit and year among the Winter, Spring, Summer and Fall strata as reported in annual reports. This field is calculated in SAS program.
Tabled_total	Collection efficiency adjusted count as reported in report tables.	Annual totals as reported in the Total column of annual report tables. It should be noted that two significant differences were detected between the calculated totals and the reported totals. Both cases occurred in 1989 at Unit 2 and involved Spottail shiner (difference=300) and Alewife (difference=500). It is not possible to discern the correct total based on published numbers.
SEComb	Standard error of the annual total	Standard error as reported in the annual report tables.
CV	Coefficient of variation	CV as reported in the annual report tables.
Workbook Tab: Imp19811990Sample		
Field	Definition	Notes
Year	1981-1990	
Unit	Unit 2 or Unit 3	
Strata	Winter	January, February, March
	Spring	April, May, June
	Summer	July, August, September
	Fall	October, November, December
	Annual	Sum of all strata
Sample Days	Reported number of days of impingement sampling	1981 data are not available. For the period 1982-1990, actual sampling dates are reported in the annual report tables and these were tallied by strata to determine sample days.

Workbook Tab: Imp19811990Sample

Sample_Volume	Volume of water sampled ($\times 10^6 \text{ m}^3$)	Report table data presents the average daily volume for the dates sampled. The number of days sampled in a month is multiplied by the average daily sampling volume for the month and the strata months summed to obtain a total sampling volume for the strata.
Operating_Days	Reports number of days of plant operation.	Actual plant operation days are presented in the annual reports and these days were tallied to report the number of plant operating days.
Operating_Volume	Volume of water pumped during plant operational days ($\times 10^6 \text{ m}^3$)	The average daily operating volume for each month is reported in the annual reports and this number is multiplied by the number of days of operation in the month, and the strata volume summed across months to obtain strata operating volume.
Start_Date	Sampling period start date within the strata	Based on first sample date in the strata as reported in annual tables.
End_Date	Sampling period end date within the strata	Based on last sample date in the strata as reported in annual tables.

References

**Indian Point Annual Reports used as sources for collection efficiency adjusted
annual total impingement counts for each fish taxon.**

Sample Year

Report

- | | |
|------|---|
| 1981 | <p>Con Edison. 1982. Hudson River Ecological Study in the Area of Indian Point. 1981 Annual Report. Prepared by Consolidated Edison Company of New York, Inc. and Power Authority of the State of New York.</p> <p><i>Table 3-4. Numbers of Impingement Collection Days and Days of Plant Operation at Indian Point Units 2 and 3 during 1981.</i></p> <p><i>Table 3-5. Total Unit Discharge (10^6 m^3) at Indian Point Units 2 and 3 during 1981.</i></p> <p><i>Table 3-7. Estimated Number of Fish Impinged by Stratum for Each Species Collected at Indian Point Unit 2 During 1981 (Winter and Spring Estimates Based Upon Actual Counts from Daily Collections; Summer and Fall Values Calculated from Stratified Mean Estimates).</i></p> <p><i>Table 3-8. Estimated Number of Fish Impinged by Stratum for Each Species Collected at Indian Point Unit 3 During 1981 (Winter and Spring Estimates Based Upon Actual Counts from Daily Collections; Summer and Fall Values Calculated from Stratified Mean Estimates).</i></p> |
| 1982 | <p>Con Edison. 1983. Hudson River Ecological Study in the Area of Indian Point. 1982 Annual Report. Prepared by Consolidated Edison Company of New York, Inc. and New York Power Authority.</p> <p><i>Table 3-4. Comparison of Sampling Dates and Average Daily Sampling Volumes with Operating Dates and Average Daily Operating Volumes at Unit 2 by Month during 1982.</i></p> <p><i>Table 3-5. Comparison of Sampling Dates and Average Daily Sampling Volumes with Operating Dates and Average Daily Operating Volumes at Unit 2 by Month during 1982.</i></p> <p><i>Table 3-6. Estimated Number of Fish Impinged by Stratum for Each Species Collected at Indian Point Unit 2 During 1982 (Calculated from Stratified Mean Estimates and Adjusted for Collection Efficiency).</i></p> <p><i>Table 3-7. Estimated Number of Fish Impinged by Stratum for Each Species Collected at Indian Point Unit 3 During 1982 (Calculated from Stratified Mean Estimates and Adjusted for Collection Efficiency).</i></p> |
| 1987 | <p>EA Engineering, Science, and Technology. 1988. Hudson River Ecological Study in the Area of Indian Point. 1987 Annual Report. Prepared for Consolidated Edison Company of New York, Inc. and New York Power Authority.</p> <p><i>Table 3-4. Comparison of Sampling Dates , Average Daily Sampling Volumes, Operating Dates and Average Daily Operating Volumes at Unit 2 by Month during 1987.</i></p> <p><i>Table 3-5. Comparison of Sampling Dates, Average Daily Sampling Volumes, Operating Dates and Average Daily Operating Volumes at Unit 3 by Month during 1987.</i></p> <p><i>Table 4-1. Estimated Number of Fish Impinged at Indian Point Unit 2 During 1987 By Taxon and Seasonal Stratum (Adjusted for Collection Efficiency).</i></p> <p><i>Table 4-2. Estimated Number of Fish Impinged at Indian Point Unit 3 During 1987 By Taxon and Seasonal Stratum (Adjusted for Collection Efficiency).</i></p> <p><i>Table 4-10. Total Numbers and Weights of Blue Crab Impinged Each Month at Indian Point During January-December 1987.</i></p> |

**Indian Point Annual Reports used as sources for collection efficiency adjusted
annual total impingement counts for each fish taxon.**

Sample Year	Report
1988	EA Engineering, Science and Technology. 1989. Hudson River Ecological Study in the Area of Indian Point. 1988 Annual Report. Prepared for Consolidated Edison Company of New York, Inc. and New York Power Authority. <i>Table 3-4. Comparison of Sampling Dates , Average Daily Sampling Volumes, Operating Dates and Average Daily Operating Volumes at Unit 2 by Month during 1988.</i> <i>Table 3-5. Comparison of Sampling Dates, Average Daily Sampling Volumes, Operating Dates and Average Daily Operating Volumes at Unit 3 by Month during 1988.</i> <i>Table 4-1. Estimated Number of Fish Impinged at Indian Point Unit 2 During 1988 By Taxon and Seasonal Stratum (Adjusted for Collection Efficiency).</i> <i>Table 4-2. Estimated Number of Fish Impinged at Indian Point Unit 3 During 1988 By Taxon and Seasonal Stratum (Adjusted for Collection Efficiency).</i> <i>Table 4-10. Total Numbers and Weights of Blue Crab Impinged Each Month at Indian Point During January-December 1988.</i>
1990	EA Engineering, Science, and Technology. 1991. Hudson River Ecological Study in the Area of Indian Point. 1990 Annual Report. Prepared for Consolidated Edison Company of New York, Inc. and New York Power Authority. <i>Table 2-4. Comparison of Sampling Dates , Average Daily Sampling Volumes, Operating Dates and Average Daily Operating Volumes at Unit 2 by Month during 1990.</i> <i>Table 2-5. Comparison of Sampling Dates, Average Daily Sampling Volumes, Operating Dates and Average Daily Operating Volumes at Unit 3 by Month during 1990.</i> <i>Table 3-1. Estimated Number of Fish Impinged at Indian Point Unit 2 During 1990 By Taxon and Seasonal Stratum (Adjusted for Collection Efficiency).</i> <i>Table 3-2. Estimated Number of Fish Impinged at Indian Point Unit 3 During 1990 By Taxon and Seasonal Stratum (Adjusted for Collection Efficiency).</i> <i>Table 3-8. Total Count and Weight of Blue Crabs Impinged Monthly at Indian Point Units 2 and 3 in 1990.</i>
1989	Lawler, Matusky, and Skelly Engineers (LMS). 1990. Hudson River Ecological Study in the Area of Indian Point. 1989 Annual Report. Prepared for Consolidated Company of New York, Inc. and New York Power Authority. <i>Table 4. Comparison of Sampling Dates , Average Daily Sampling Volumes, Operating Dates and Average Daily Operating Volumes at Unit 2 by Month during 1989.</i> <i>Table 5. Comparison of Sampling Dates, Average Daily Sampling Volumes, Operating Dates and Average Daily Operating Volumes at Unit 3 by Month during 1989.</i> <i>Table 6. Estimated Number of Fish Impinged at Indian Point Unit 2 During 1989 By Taxon and Seasonal Stratum (Adjusted for Collection Efficiency).</i> <i>Table 7. Estimated Number of Fish Impinged at Indian Point Unit 3 During 1989 By Taxon and Seasonal Stratum (Adjusted for Collection Efficiency).</i> <i>Table 14 Total Numbers and Weights of Blue Crabs Impinged Each Month at Indian Point During January-December 1989.</i>

**Indian Point Annual Reports used as sources for collection efficiency adjusted
annual total impingement counts for each fish taxon.**

Sample Year	Report
1984	Martin Marrietta Environmental Systems (MMES). 1985. Hudson River Ecological Study in the Area of Indian Point. 1984 Annual Report. Prepared for Consolidated Edison Company of New York, Inc. and New York Power Authority. <i>Table II-2. Sampling dates and average daily sampling volumes compared with operating dates and operating volumes at Indian Point Unit 2 during 1984.</i> <i>Table II-3. Sampling dates and average daily sampling volumes compared with operating dates and operating volumes at Indian Point Unit 3 during 1984.</i> <i>Table III-2. Estimated number of fish impinged at Indian Point Unit 2 during 1984 and the variance of the estimate.</i> <i>Table III-3. Estimated number of fish impinged at Indian Point Unit 3 during 1984 and the variance of the estimate.</i> <i>Table IV-1. Total numbers and weights (in grams) of blue crabs collected from intake screens at Indian Point Units 2 and 3 during 1984.</i>
1983	Normandeau Associates, Inc. (NAI). 1984. Hudson River Ecological Study in the Area of Indian Point. 1983 Annual Report. Prepared for Consolidated Edison Company of New York, Inc. and New York Power Authority. <i>Table 3-2. Comparison of Sampling Dates and Average Daily Sampling Volumes with Operating Dates and Average Daily Operating Volumes at Unit 2 by Month during 1983.</i> <i>Table 3-3. Comparison of Sampling Dates and Average Daily Sampling Volumes with Operating Dates and Average Daily Operating Volumes at Unit 2 by Month during 1983.</i> <i>Table 3-4. Estimated Number of Fish Impinged at Indian Point Unit 2 During 1983 By Taxon and Seasonal Stratum (Adjusted for Collection Efficiency).</i> <i>Table 3-5. Estimated Number of Fish Impinged at Indian Point Unit 2 During 1983 By Taxon and Seasonal Stratum (Adjusted for Collection Efficiency).</i> <i>Table 3-11. Total numbers and weights of blue crabs impinged each month at Indian Point During April-December 1983.</i>
1985	NAI. 1986. Hudson River Ecological Study in the Area of Indian Point. 1985 Annual Report. Prepared for Consolidated Edison Company of New York, Inc. and New York Power Authority. <i>Table 3-4. Comparison of Sampling Dates and Average Daily Sampling Volumes with Operating Dates and Average Daily Operating Volumes at Unit 2 by Month during 1985.</i> <i>Table 3-5. Comparison of Sampling Dates and Average Daily Sampling Volumes with Operating Dates and Average Daily Operating Volumes at Unit 2 by Month during 1985.</i> <i>Table 4-1. Estimated Number of Fish Impinged at Indian Point Unit 2 During 1985 By Taxon and Seasonal Stratum (Adjusted for Collection Efficiency).</i> <i>Table 4-2. Estimated Number of Fish Impinged at Indian Point Unit 3 During 1985 By Taxon and Seasonal Stratum (Adjusted for Collection Efficiency).</i> <i>Table 4-10. Total Numbers and Weights of Blue Crab Impinged Each Month at Indian Point During April-December 1985.</i>

**Indian Point Annual Reports used as sources for collection efficiency adjusted
annual total impingement counts for each fish taxon.**

Sample Year

Report

1986

NAI. 1987. Hudson River Ecological Study in the Area of Indian Point. 1986 Annual Report. Prepared for Consolidated Edison Company of New York, Inc. and New York Power Authority.

Table 3-4. Comparison of Sampling Dates and Average Daily Sampling Volumes with Operating Dates and Average Daily Operating Volumes at Unit 2 by Month during 1986.

Table 3-5. Comparison of Sampling Dates and Average Daily Sampling Volumes with Operating Dates and Average Daily Operating Volumes at Unit 3 by Month during 1986.

Table 4-1. Estimated Number of Fish Impinged at Indian Point Unit 2 During 1986 By Taxon and Seasonal Stratum (Adjusted for Collection Efficiency).

Table 4-2. Estimated Number of Fish Impinged at Indian Point Unit 3 During 1986 By Taxon and Seasonal Stratum (Adjusted for Collection Efficiency).

Table 4-10. Total Numbers and Weights of Blue Crab Impinged Each Month at Indian Point During April-December 1986.

**1981-1990 Indian Point Impingement Estimates by
Year, Unit, and Stratum**

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	2	Winter	1	Alewife				4					51		51	28.1		
1981	2	Winter	2	Bay anchovy				2					51		51	28.1		
1981	2	Winter	3	American shad				0					51		51	28.1		
1981	2	Winter	4	Bluefish				0					51		51	28.1		
1981	2	Winter	5	Bluegill				37					51		51	28.1		
1981	2	Winter	6	Brown bullhead				33					51		51	28.1		
1981	2	Winter	7	Pumpkinseed				849					51		51	28.1		
1981	2	Winter	8	Black crappie				8					51		51	28.1		
1981	2	Winter	9	Common carp				2					51		51	28.1		
1981	2	Winter	10	American eel				68					51		51	28.1		
1981	2	Winter	11	Goldfish				248					51		51	28.1		
1981	2	Winter	12	Golden shiner				52					51		51	28.1		
1981	2	Winter	13	Hogchoker				37					51		51	28.1		
1981	2	Winter	14	Tessellated darter				10					51		51	28.1		
1981	2	Winter	15	Banded killifish				148					51		51	28.1		
1981	2	Winter	16	Emerald shiner				0					51		51	28.1		
1981	2	Winter	17	Largemouth bass				23					51		51	28.1		
1981	2	Winter	18	Mummichog				8					51		51	28.1		
1981	2	Winter	19	Atlantic menhaden				0					51		51	28.1		
1981	2	Winter	21	Chain pickerel				0					51		51	28.1		
1981	2	Winter	22	Blueback herring				2					51		51	28.1		
1981	2	Winter	23	White sucker				0					51		51	28.1		
1981	2	Winter	24	Atlantic silverside				2					51		51	28.1		
1981	2	Winter	25	Rainbow smelt				193					51		51	28.1		
1981	2	Winter	26	Smallmouth bass				0					51		51	28.1		
1981	2	Winter	27	Shortnose sturgeon				0.00					51		51	28.1		
1981	2	Winter	28	Spottail shiner				564					51		51	28.1		
1981	2	Winter	29	Atlantic sturgeon				0.00					51		51	28.1		
1981	2	Winter	30	Striped bass				9,235					51		51	28.1		
1981	2	Winter	31	Fourspine stickleback				14					51		51	28.1		
1981	2	Winter	32	Atlantic tomcod				294					51		51	28.1		
1981	2	Winter	34	White catfish				19					51		51	28.1		
1981	2	Winter	35	White perch				180,263					51		51	28.1		
1981	2	Winter	36	Yellow perch				299					51		51	28.1		
1981	2	Winter	37	Satinfin shiner				0					51		51	28.1		
1981	2	Winter	38	Rock bass				4					51		51	28.1		
1981	2	Winter	39	Northern pipefish				2					51		51	28.1		
1981	2	Winter	40	Redbreast sunfish				6					51		51	28.1		
1981	2	Winter	41	Atlantic needlefish				0					51		51	28.1		
1981	2	Winter	42	Crevalle jack				0					51		51	28.1		
1981	2	Winter	45	Weakfish				0					51		51	28.1		
1981	2	Winter	47	Common shiner				0					51		51	28.1		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	2	Winter	49	Lookdown				0					51		51	28.1		
1981	2	Winter	50	Herring family				0					51		51	28.1		
1981	2	Winter	54	Lined seahorse				0					51		51	28.1		
1981	2	Winter	55	Logperch				0					51		51	28.1		
1981	2	Winter	58	Fathead minnow				0					51		51	28.1		
1981	2	Winter	59	Carp and minnow family				0					51		51	28.1		
1981	2	Winter	60	Morone species				0					51		51	28.1		
1981	2	Winter	62	Tautog				0					51		51	28.1		
1981	2	Winter	63	Fourbeard rockling				0					51		51	28.1		
1981	2	Winter	64	Striped cusk-eel				0					51		51	28.1		
1981	2	Winter	67	Spot				0					51		51	28.1		
1981	2	Winter	68	Atlantic moonfish				0					51		51	28.1		
1981	2	Winter	71	Scup				0					51		51	28.1		
1981	2	Winter	72	Winter flounder				10					51		51	28.1		
1981	2	Winter	73	Inland silverside				0					51		51	28.1		
1981	2	Winter	74	Sea lamprey				6					51		51	28.1		
1981	2	Winter	75	Gizzard shad				0					51		51	28.1		
1981	2	Winter	76	Silver hake				0					51		51	28.1		
1981	2	Winter	77	Striped mullet				0					51		51	28.1		
1981	2	Winter	78	Threespine stickleback				48					51		51	28.1		
1981	2	Winter	79	Brown trout				0					51		51	28.1		
1981	2	Winter	80	Butterfish				0					51		51	28.1		
1981	2	Winter	81	White crappie				8					51		51	28.1		
1981	2	Winter	83	Northern pike				0					51		51	28.1		
1981	2	Winter	84	Green sunfish				0					51		51	28.1		
1981	2	Winter	85	Silver perch				0					51		51	28.1		
1981	2	Winter	86	Northern puffer				0					51		51	28.1		
1981	2	Winter	96	Sunfish family				70					51		51	28.1		
1981	2	Winter	98	Red hake				0					51		51	28.1		
1981	2	Winter	100	Central mudminnow				0					51		51	28.1		
1981	2	Winter	101	Grubby				0					51		51	28.1		
1981	2	Winter	102	Eastern mudminnow				0					51		51	28.1		
1981	2	Winter	103	White bass				0					51		51	28.1		
1981	2	Winter	104	Rough silverside				0					51		51	28.1		
1981	2	Winter	105	Longear sunfish				0					51		51	28.1		
1981	2	Winter	106	Summer flounder				2					51		51	28.1		
1981	2	Winter	108	Creek chub				0					51		51	28.1		
1981	2	Winter	109	Black bullhead				0					51		51	28.1		
1981	2	Winter	110	Striped searobin				0					51		51	28.1		
1981	2	Winter	111	Northern searobin				0					51		51	28.1		
1981	2	Winter	113	Atlantic croaker				0					51		51	28.1		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	2	Winter	114	Longhorn sculpin				0					51		51	28.1		
1981	2	Winter	116	Hickory shad				0					51		51	28.1		
1981	2	Winter	120	Conger eel				0					51		51	28.1		
1981	2	Winter	122	Warmouth				0					51		51	28.1		
1981	2	Winter	125	White mullet				0					51		51	28.1		
1981	2	Winter	126	Yellow bullhead				0					51		51	28.1		
1981	2	Winter	127	Channel catfish				0					51		51	28.1		
1981	2	Winter	130	Naked goby				0					51		51	28.1		
1981	2	Winter	132	Windowpane				0					51		51	28.1		
1981	2	Winter	133	Spotted hake				0					51		51	28.1		
1981	2	Winter	136	Northern stargazer				0					51		51	28.1		
1981	2	Winter	137	American sand lance				2					51		51	28.1		
1981	2	Winter	139	Fourspot flounder				0					51		51	28.1		
1981	2	Winter	140	Atlantic mackerel				0					51		51	28.1		
1981	2	Winter	141	Black sea bass				0					51		51	28.1		
1981	2	Winter	142	Smallmouth flounder				0					51		51	28.1		
1981	2	Winter	143	Rock gunnel				0					51		51	28.1		
1981	2	Winter	144	Inshore lizardfish				0					51		51	28.1		
1981	2	Winter	146	Silver lamprey				0					51		51	28.1		
1981	2	Winter	150	Goby family				0					51		51	28.1		
1981	2	Winter	157	New World silverside family				0					51		51	28.1		
1981	2	Winter	159	Sand flounder family				0					51		51	28.1		
1981	2	Winter	161	Pipefish family				0					51		51	28.1		
1981	2	Winter	162	Mackerel scad				0					51		51	28.1		
1981	2	Winter	164	Cunner				0					51		51	28.1		
1981	2	Winter	169	Gray snapper				0					51		51	28.1		
1981	2	Winter	172	Bigeye scad				0					51		51	28.1		
1981	2	Winter	173	Striped burrfish				0					51		51	28.1		
1981	2	Winter	177	Spotfin butterflyfish				0					51		51	28.1		
1981	2	Winter	179	Planehead filefish				0					51		51	28.1		
1981	2	Winter	180	Atlantic cutlassfish				0					51		51	28.1		
1981	2	Winter	181	Pigfish				0					51		51	28.1		
1981	2	Winter	184	Freckled blenny				0					51		51	28.1		
1981	2	Winter	187	Margined madtom				0					51		51	28.1		
1981	2	Winter	205	Freshwater drum				0					51		51	28.1		
1981	2	Winter	206	King mackerel				0					51		51	28.1		
1981	2	Winter	209	Highfin goby				0					51		51	28.1		
1981	2	Winter	213	Oyster toadfish				0					51		51	28.1		
1981	2	Winter	999	All fish taxa				192,568.00					51		51	28.1		
1981	2	Spring	1	Alewife				458					71		71	178.2		
1981	2	Spring	2	Bay anchovy				27,476					71		71	178.2		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstY0Y	EstYRLNG	EstYROL	EstComb	SEY0Y	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	2	Spring	3	American shad				4,317					71		71	178.2		
1981	2	Spring	4	Bluefish				1,133					71		71	178.2		
1981	2	Spring	5	Bluegill				35					71		71	178.2		
1981	2	Spring	6	Brown bullhead				39					71		71	178.2		
1981	2	Spring	7	Pumpkinseed				692					71		71	178.2		
1981	2	Spring	8	Black crappie				3					71		71	178.2		
1981	2	Spring	9	Common carp				2					71		71	178.2		
1981	2	Spring	10	American eel				717					71		71	178.2		
1981	2	Spring	11	Goldfish				26					71		71	178.2		
1981	2	Spring	12	Golden shiner				14					71		71	178.2		
1981	2	Spring	13	Hogchoker				5,578					71		71	178.2		
1981	2	Spring	14	Tessellated darter				49					71		71	178.2		
1981	2	Spring	15	Banded killifish				61					71		71	178.2		
1981	2	Spring	16	Emerald shiner				0					71		71	178.2		
1981	2	Spring	17	Largemouth bass				2					71		71	178.2		
1981	2	Spring	18	Mummichog				6					71		71	178.2		
1981	2	Spring	19	Atlantic menhaden				150					71		71	178.2		
1981	2	Spring	21	Chain pickerel				0					71		71	178.2		
1981	2	Spring	22	Blueback herring				688					71		71	178.2		
1981	2	Spring	23	White sucker				11					71		71	178.2		
1981	2	Spring	24	Atlantic silverside				0					71		71	178.2		
1981	2	Spring	25	Rainbow smelt				176					71		71	178.2		
1981	2	Spring	26	Smallmouth bass				0					71		71	178.2		
1981	2	Spring	27	Shortnose sturgeon				0.00					71		71	178.2		
1981	2	Spring	28	Spottail shiner				128					71		71	178.2		
1981	2	Spring	29	Atlantic sturgeon				0.00					71		71	178.2		
1981	2	Spring	30	Striped bass				1,990					71		71	178.2		
1981	2	Spring	31	Fourspine stickleback				14					71		71	178.2		
1981	2	Spring	32	Atlantic tomcod				216,340					71		71	178.2		
1981	2	Spring	34	White catfish				118					71		71	178.2		
1981	2	Spring	35	White perch				77,697					71		71	178.2		
1981	2	Spring	36	Yellow perch				144					71		71	178.2		
1981	2	Spring	37	Satinfin shiner				2					71		71	178.2		
1981	2	Spring	38	Rock bass				0					71		71	178.2		
1981	2	Spring	39	Northern pipefish				204					71		71	178.2		
1981	2	Spring	40	Redbreast sunfish				10					71		71	178.2		
1981	2	Spring	41	Atlantic needlefish				0					71		71	178.2		
1981	2	Spring	42	Creville jack				0					71		71	178.2		
1981	2	Spring	45	Weakfish				3					71		71	178.2		
1981	2	Spring	47	Common shiner				0					71		71	178.2		
1981	2	Spring	49	Lookdown				0					71		71	178.2		
1981	2	Spring	50	Herring family				1,072					71		71	178.2		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstY0Y	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	2	Spring	54	Lined seahorse				0					71		71	178.2		
1981	2	Spring	55	Logperch				0					71		71	178.2		
1981	2	Spring	58	Fathead minnow				2					71		71	178.2		
1981	2	Spring	59	Carp and minnow family				0					71		71	178.2		
1981	2	Spring	60	Morone species				0					71		71	178.2		
1981	2	Spring	62	Tautog				7					71		71	178.2		
1981	2	Spring	63	Fourbeard rockling				0					71		71	178.2		
1981	2	Spring	64	Striped cusk-eel				0					71		71	178.2		
1981	2	Spring	67	Spot				0					71		71	178.2		
1981	2	Spring	68	Atlantic moonfish				0					71		71	178.2		
1981	2	Spring	71	Scup				0					71		71	178.2		
1981	2	Spring	72	Winter flounder				0					71		71	178.2		
1981	2	Spring	73	Inland silverside				0					71		71	178.2		
1981	2	Spring	74	Sea lamprey				3					71		71	178.2		
1981	2	Spring	75	Gizzard shad				0					71		71	178.2		
1981	2	Spring	76	Silver hake				5					71		71	178.2		
1981	2	Spring	77	Striped mullet				0					71		71	178.2		
1981	2	Spring	78	Threespine stickleback				0					71		71	178.2		
1981	2	Spring	79	Brown trout				0					71		71	178.2		
1981	2	Spring	80	Butterfish				0					71		71	178.2		
1981	2	Spring	81	White crappie				0					71		71	178.2		
1981	2	Spring	83	Northern pike				0					71		71	178.2		
1981	2	Spring	84	Green sunfish				0					71		71	178.2		
1981	2	Spring	85	Silver perch				0					71		71	178.2		
1981	2	Spring	86	Northern puffer				0					71		71	178.2		
1981	2	Spring	96	Sunfish family				0					71		71	178.2		
1981	2	Spring	98	Red hake				2					71		71	178.2		
1981	2	Spring	100	Central mudminnow				0					71		71	178.2		
1981	2	Spring	101	Grubby				0					71		71	178.2		
1981	2	Spring	102	Eastern mudminnow				0					71		71	178.2		
1981	2	Spring	103	White bass				0					71		71	178.2		
1981	2	Spring	104	Rough silverside				0					71		71	178.2		
1981	2	Spring	105	Longear sunfish				0					71		71	178.2		
1981	2	Spring	106	Summer flounder				12					71		71	178.2		
1981	2	Spring	108	Creek chub				0					71		71	178.2		
1981	2	Spring	109	Black bullhead				0					71		71	178.2		
1981	2	Spring	110	Striped searobin				0					71		71	178.2		
1981	2	Spring	111	Northern searobin				0					71		71	178.2		
1981	2	Spring	113	Atlantic croaker				0					71		71	178.2		
1981	2	Spring	114	Longhorn sculpin				0					71		71	178.2		
1981	2	Spring	116	Hickory shad				0					71		71	178.2		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	2	Spring	120	Conger eel				0					71		71	178.2		
1981	2	Spring	122	Warmouth				0					71		71	178.2		
1981	2	Spring	125	White mullet				0					71		71	178.2		
1981	2	Spring	126	Yellow bullhead				0					71		71	178.2		
1981	2	Spring	127	Channel catfish				0					71		71	178.2		
1981	2	Spring	130	Naked goby				0					71		71	178.2		
1981	2	Spring	132	Windowpane				0					71		71	178.2		
1981	2	Spring	133	Spotted hake				3					71		71	178.2		
1981	2	Spring	136	Northern stargazer				0					71		71	178.2		
1981	2	Spring	137	American sand lance				0					71		71	178.2		
1981	2	Spring	139	Fourspot flounder				0					71		71	178.2		
1981	2	Spring	140	Atlantic mackerel				2					71		71	178.2		
1981	2	Spring	141	Black sea bass				0					71		71	178.2		
1981	2	Spring	142	Smallmouth flounder				5					71		71	178.2		
1981	2	Spring	143	Rock gunnel				0					71		71	178.2		
1981	2	Spring	144	Inshore lizardfish				0					71		71	178.2		
1981	2	Spring	146	Silver lamprey				0					71		71	178.2		
1981	2	Spring	150	Goby family				0					71		71	178.2		
1981	2	Spring	157	New World silverside family				0					71		71	178.2		
1981	2	Spring	159	Sand flounder family				0					71		71	178.2		
1981	2	Spring	161	Pipefish family				0					71		71	178.2		
1981	2	Spring	162	Mackerel scad				0					71		71	178.2		
1981	2	Spring	164	Cunner				0					71		71	178.2		
1981	2	Spring	169	Gray snapper				0					71		71	178.2		
1981	2	Spring	172	Bigeye scad				0					71		71	178.2		
1981	2	Spring	173	Striped burrfish				0					71		71	178.2		
1981	2	Spring	177	Spotfin butterflyfish				0					71		71	178.2		
1981	2	Spring	179	Planehead filefish				0					71		71	178.2		
1981	2	Spring	180	Atlantic cutlassfish				0					71		71	178.2		
1981	2	Spring	181	Pigfish				0					71		71	178.2		
1981	2	Spring	184	Freckled blenny				0					71		71	178.2		
1981	2	Spring	187	Margined madtom				0					71		71	178.2		
1981	2	Spring	205	Freshwater drum				0					71		71	178.2		
1981	2	Spring	206	King mackerel				0					71		71	178.2		
1981	2	Spring	209	Highfin goby				0					71		71	178.2		
1981	2	Spring	213	Oyster toadfish				0					71		71	178.2		
1981	2	Spring	999	All fish taxa				339,398.00					71		71	178.2		
1981	2	Summer	1	Alewife				51,098					10		70	308.3		
1981	2	Summer	2	Bay anchovy				1,174,284					10		70	308.3		
1981	2	Summer	3	American shad				195,311					10		70	308.3		
1981	2	Summer	4	Bluefish				8,781					10		70	308.3		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	2	Summer	5	Bluegill				0					10		70	308.3		
1981	2	Summer	6	Brown bullhead				518					10		70	308.3		
1981	2	Summer	7	Pumpkinseed				189					10		70	308.3		
1981	2	Summer	8	Black crappie				0					10		70	308.3		
1981	2	Summer	9	Common carp				0					10		70	308.3		
1981	2	Summer	10	American eel				551					10		70	308.3		
1981	2	Summer	11	Goldfish				0					10		70	308.3		
1981	2	Summer	12	Golden shiner				0					10		70	308.3		
1981	2	Summer	13	Hogchoker				6,555					10		70	308.3		
1981	2	Summer	14	Tessellated darter				0					10		70	308.3		
1981	2	Summer	15	Banded killifish				23					10		70	308.3		
1981	2	Summer	16	Emerald shiner				0					10		70	308.3		
1981	2	Summer	17	Largemouth bass				0					10		70	308.3		
1981	2	Summer	18	Mummichog				0					10		70	308.3		
1981	2	Summer	19	Atlantic menhaden				3,020					10		70	308.3		
1981	2	Summer	21	Chain pickerel				0					10		70	308.3		
1981	2	Summer	22	Blueback herring				26,023					10		70	308.3		
1981	2	Summer	23	White sucker				0					10		70	308.3		
1981	2	Summer	24	Atlantic silverside				0					10		70	308.3		
1981	2	Summer	25	Rainbow smelt				122					10		70	308.3		
1981	2	Summer	26	Smallmouth bass				0					10		70	308.3		
1981	2	Summer	27	Shortnose sturgeon				0.00					10		70	308.3		
1981	2	Summer	28	Spottail shiner				24					10		70	308.3		
1981	2	Summer	29	Atlantic sturgeon				0.00					10		70	308.3		
1981	2	Summer	30	Striped bass				20,120					10		70	308.3		
1981	2	Summer	31	Fourspine stickleback				0					10		70	308.3		
1981	2	Summer	32	Atlantic tomcod				130,330					10		70	308.3		
1981	2	Summer	34	White catfish				149					10		70	308.3		
1981	2	Summer	35	White perch				106,507					10		70	308.3		
1981	2	Summer	36	Yellow perch				0					10		70	308.3		
1981	2	Summer	37	Satinfin shiner				0					10		70	308.3		
1981	2	Summer	38	Rock bass				0					10		70	308.3		
1981	2	Summer	39	Northern pipefish				391					10		70	308.3		
1981	2	Summer	40	Redbreast sunfish				0					10		70	308.3		
1981	2	Summer	41	Atlantic needlefish				24					10		70	308.3		
1981	2	Summer	42	Crevalle jack				41					10		70	308.3		
1981	2	Summer	45	Weakfish				37,879					10		70	308.3		
1981	2	Summer	47	Common shiner				0					10		70	308.3		
1981	2	Summer	49	Lookdown				20					10		70	308.3		
1981	2	Summer	50	Herring family				14,238					10		70	308.3		
1981	2	Summer	54	Lined seahorse				0					10		70	308.3		
1981	2	Summer	55	Logperch				0					10		70	308.3		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	2	Summer	58	Fathead minnow				0					10		70	308.3		
1981	2	Summer	59	Carp and minnow family				0					10		70	308.3		
1981	2	Summer	60	Morone species				0					10		70	308.3		
1981	2	Summer	62	Tautog				0					10		70	308.3		
1981	2	Summer	63	Fourbeard rockling				0					10		70	308.3		
1981	2	Summer	64	Striped cusk-eel				0					10		70	308.3		
1981	2	Summer	67	Spot				0					10		70	308.3		
1981	2	Summer	68	Atlantic moonfish				0					10		70	308.3		
1981	2	Summer	71	Scup				0					10		70	308.3		
1981	2	Summer	72	Winter flounder				47					10		70	308.3		
1981	2	Summer	73	Inland silverside				0					10		70	308.3		
1981	2	Summer	74	Sea lamprey				0					10		70	308.3		
1981	2	Summer	75	Gizzard shad				0					10		70	308.3		
1981	2	Summer	76	Silver hake				0					10		70	308.3		
1981	2	Summer	77	Striped mullet				0					10		70	308.3		
1981	2	Summer	78	Threespine stickleback				0					10		70	308.3		
1981	2	Summer	79	Brown trout				0					10		70	308.3		
1981	2	Summer	80	Butterfish				0					10		70	308.3		
1981	2	Summer	81	White crappie				0					10		70	308.3		
1981	2	Summer	83	Northern pike				0					10		70	308.3		
1981	2	Summer	84	Green sunfish				0					10		70	308.3		
1981	2	Summer	85	Silver perch				0					10		70	308.3		
1981	2	Summer	86	Northern puffer				0					10		70	308.3		
1981	2	Summer	96	Sunfish family				0					10		70	308.3		
1981	2	Summer	98	Red hake				0					10		70	308.3		
1981	2	Summer	100	Central mudminnow				0					10		70	308.3		
1981	2	Summer	101	Grubby				0					10		70	308.3		
1981	2	Summer	102	Eastern mudminnow				0					10		70	308.3		
1981	2	Summer	103	White bass				0					10		70	308.3		
1981	2	Summer	104	Rough silverside				0					10		70	308.3		
1981	2	Summer	105	Longear sunfish				0					10		70	308.3		
1981	2	Summer	106	Summer flounder				20					10		70	308.3		
1981	2	Summer	108	Creek chub				0					10		70	308.3		
1981	2	Summer	109	Black bullhead				0					10		70	308.3		
1981	2	Summer	110	Striped searobin				0					10		70	308.3		
1981	2	Summer	111	Northern searobin				0					10		70	308.3		
1981	2	Summer	113	Atlantic croaker				0					10		70	308.3		
1981	2	Summer	114	Longhorn sculpin				0					10		70	308.3		
1981	2	Summer	116	Hickory shad				0					10		70	308.3		
1981	2	Summer	120	Conger eel				0					10		70	308.3		
1981	2	Summer	122	Wormouth				0					10		70	308.3		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	2	Summer	125	White mullet				0					10		70	308.3		
1981	2	Summer	126	Yellow bullhead				0					10		70	308.3		
1981	2	Summer	127	Channel catfish				0					10		70	308.3		
1981	2	Summer	130	Naked goby				0					10		70	308.3		
1981	2	Summer	132	Windowpane				0					10		70	308.3		
1981	2	Summer	133	Spotted hake				0					10		70	308.3		
1981	2	Summer	136	Northern stargazer				0					10		70	308.3		
1981	2	Summer	137	American sand lance				0					10		70	308.3		
1981	2	Summer	139	Fourspot flounder				0					10		70	308.3		
1981	2	Summer	140	Atlantic mackerel				0					10		70	308.3		
1981	2	Summer	141	Black sea bass				0					10		70	308.3		
1981	2	Summer	142	Smallmouth flounder				0					10		70	308.3		
1981	2	Summer	143	Rock gunnel				0					10		70	308.3		
1981	2	Summer	144	Inshore lizardfish				0					10		70	308.3		
1981	2	Summer	146	Silver lamprey				0					10		70	308.3		
1981	2	Summer	150	Goby family				0					10		70	308.3		
1981	2	Summer	157	New World silverside family				0					10		70	308.3		
1981	2	Summer	159	Sand flounder family				0					10		70	308.3		
1981	2	Summer	161	Pipefish family				0					10		70	308.3		
1981	2	Summer	162	Mackerel scad				0					10		70	308.3		
1981	2	Summer	164	Cunner				0					10		70	308.3		
1981	2	Summer	169	Gray snapper				0					10		70	308.3		
1981	2	Summer	172	Bigeye scad				0					10		70	308.3		
1981	2	Summer	173	Striped burrfish				0					10		70	308.3		
1981	2	Summer	177	Spotfin butterflyfish				0					10		70	308.3		
1981	2	Summer	179	Planehead filefish				0					10		70	308.3		
1981	2	Summer	180	Atlantic cutlassfish				0					10		70	308.3		
1981	2	Summer	181	Pigfish				0					10		70	308.3		
1981	2	Summer	184	Freckled blenny				0					10		70	308.3		
1981	2	Summer	187	Margined madtom				0					10		70	308.3		
1981	2	Summer	205	Freshwater drum				0					10		70	308.3		
1981	2	Summer	206	King mackerel				0					10		70	308.3		
1981	2	Summer	209	Highfin goby				0					10		70	308.3		
1981	2	Summer	213	Oyster toadfish				0					10		70	308.3		
1981	2	Summer	999	All fish taxa				1,776,267.00					10		70	308.3		
1981	2	Fall	1	Alewife				1,804					59		84	245.4		
1981	2	Fall	2	Bay anchovy				16,982					59		84	245.4		
1981	2	Fall	3	American shad				7,971					59		84	245.4		
1981	2	Fall	4	Bluefish				0					59		84	245.4		
1981	2	Fall	5	Bluegill				75					59		84	245.4		
1981	2	Fall	6	Brown bullhead				19					59		84	245.4		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	2	Fall	7	Pumpkinseed				8,729					59		84	245.4		
1981	2	Fall	8	Black crappie				0					59		84	245.4		
1981	2	Fall	9	Common carp				0					59		84	245.4		
1981	2	Fall	10	American eel				621					59		84	245.4		
1981	2	Fall	11	Goldfish				18					59		84	245.4		
1981	2	Fall	12	Golden shiner				6					59		84	245.4		
1981	2	Fall	13	Hogchoker				11,152					59		84	245.4		
1981	2	Fall	14	Tessellated darter				133					59		84	245.4		
1981	2	Fall	15	Banded killifish				525					59		84	245.4		
1981	2	Fall	16	Emerald shiner				0					59		84	245.4		
1981	2	Fall	17	Largemouth bass				15					59		84	245.4		
1981	2	Fall	18	Mummichog				9					59		84	245.4		
1981	2	Fall	19	Atlantic menhaden				15					59		84	245.4		
1981	2	Fall	21	Chain pickerel				0					59		84	245.4		
1981	2	Fall	22	Blueback herring				206,519					59		84	245.4		
1981	2	Fall	23	White sucker				0					59		84	245.4		
1981	2	Fall	24	Atlantic silverside				19					59		84	245.4		
1981	2	Fall	25	Rainbow smelt				177					59		84	245.4		
1981	2	Fall	26	Smallmouth bass				3					59		84	245.4		
1981	2	Fall	27	Shortnose sturgeon				0.00					59		84	245.4		
1981	2	Fall	28	Spottail shiner				331					59		84	245.4		
1981	2	Fall	29	Atlantic sturgeon				8.01					59		84	245.4		
1981	2	Fall	30	Striped bass				23,909					59		84	245.4		
1981	2	Fall	31	Fourspine stickleback				6					59		84	245.4		
1981	2	Fall	32	Atlantic tomcod				3,643					59		84	245.4		
1981	2	Fall	34	White catfish				648					59		84	245.4		
1981	2	Fall	35	White perch				962,869					59		84	245.4		
1981	2	Fall	36	Yellow perch				154					59		84	245.4		
1981	2	Fall	37	Satinfin shiner				17					59		84	245.4		
1981	2	Fall	38	Rock bass				0					59		84	245.4		
1981	2	Fall	39	Northern pipefish				793					59		84	245.4		
1981	2	Fall	40	Redbreast sunfish				11					59		84	245.4		
1981	2	Fall	41	Atlantic needlefish				0					59		84	245.4		
1981	2	Fall	42	Creville jack				328					59		84	245.4		
1981	2	Fall	45	Weakfish				12,156					59		84	245.4		
1981	2	Fall	47	Common shiner				0					59		84	245.4		
1981	2	Fall	49	Lookdown				0					59		84	245.4		
1981	2	Fall	50	Herring family				4					59		84	245.4		
1981	2	Fall	54	Lined seahorse				4					59		84	245.4		
1981	2	Fall	55	Logperch				0					59		84	245.4		
1981	2	Fall	58	Fathead minnow				0					59		84	245.4		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	2	Fall	59	Carp and minnow family				0					59		84	245.4		
1981	2	Fall	60	Morone species				0					59		84	245.4		
1981	2	Fall	62	Tautog				3					59		84	245.4		
1981	2	Fall	63	Fourbeard rockling				0					59		84	245.4		
1981	2	Fall	64	Striped cusk-eel				0					59		84	245.4		
1981	2	Fall	67	Spot				3					59		84	245.4		
1981	2	Fall	68	Atlantic moonfish				0					59		84	245.4		
1981	2	Fall	71	Scup				0					59		84	245.4		
1981	2	Fall	72	Winter flounder				13					59		84	245.4		
1981	2	Fall	73	Inland silverside				10					59		84	245.4		
1981	2	Fall	74	Sea lamprey				0					59		84	245.4		
1981	2	Fall	75	Gizzard shad				650					59		84	245.4		
1981	2	Fall	76	Silver hake				0					59		84	245.4		
1981	2	Fall	77	Striped mullet				0					59		84	245.4		
1981	2	Fall	78	Threespine stickleback				6					59		84	245.4		
1981	2	Fall	79	Brown trout				0					59		84	245.4		
1981	2	Fall	80	Butterfish				0					59		84	245.4		
1981	2	Fall	81	White crappie				0					59		84	245.4		
1981	2	Fall	83	Northern pike				0					59		84	245.4		
1981	2	Fall	84	Green sunfish				0					59		84	245.4		
1981	2	Fall	85	Silver perch				0					59		84	245.4		
1981	2	Fall	86	Northern puffer				4					59		84	245.4		
1981	2	Fall	96	Sunfish family				22					59		84	245.4		
1981	2	Fall	98	Red hake				9					59		84	245.4		
1981	2	Fall	100	Central mudminnow				0					59		84	245.4		
1981	2	Fall	101	Grubby				0					59		84	245.4		
1981	2	Fall	102	Eastern mudminnow				0					59		84	245.4		
1981	2	Fall	103	White bass				0					59		84	245.4		
1981	2	Fall	104	Rough silverside				0					59		84	245.4		
1981	2	Fall	105	Longear sunfish				0					59		84	245.4		
1981	2	Fall	106	Summer flounder				4					59		84	245.4		
1981	2	Fall	108	Creek chub				0					59		84	245.4		
1981	2	Fall	109	Black bullhead				18					59		84	245.4		
1981	2	Fall	110	Striped searobin				4,449					59		84	245.4		
1981	2	Fall	111	Northern searobin				0					59		84	245.4		
1981	2	Fall	113	Atlantic croaker				0					59		84	245.4		
1981	2	Fall	114	Longhorn sculpin				0					59		84	245.4		
1981	2	Fall	116	Hickory shad				0					59		84	245.4		
1981	2	Fall	120	Conger eel				0					59		84	245.4		
1981	2	Fall	122	Warmouth				0					59		84	245.4		
1981	2	Fall	125	White mullet				0					59		84	245.4		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	2	Fall	126	Yellow bullhead				0					59		84	245.4		
1981	2	Fall	127	Channel catfish				0					59		84	245.4		
1981	2	Fall	130	Naked goby				0					59		84	245.4		
1981	2	Fall	132	Windowpane				0					59		84	245.4		
1981	2	Fall	133	Spotted hake				0					59		84	245.4		
1981	2	Fall	136	Northern stargazer				0					59		84	245.4		
1981	2	Fall	137	American sand lance				0					59		84	245.4		
1981	2	Fall	139	Fourspot flounder				0					59		84	245.4		
1981	2	Fall	140	Atlantic mackerel				0					59		84	245.4		
1981	2	Fall	141	Black sea bass				4					59		84	245.4		
1981	2	Fall	142	Smallmouth flounder				0					59		84	245.4		
1981	2	Fall	143	Rock gunnel				0					59		84	245.4		
1981	2	Fall	144	Inshore lizardfish				0					59		84	245.4		
1981	2	Fall	146	Silver lamprey				0					59		84	245.4		
1981	2	Fall	150	Goby family				0					59		84	245.4		
1981	2	Fall	157	New World silverside family				0					59		84	245.4		
1981	2	Fall	159	Sand flounder family				0					59		84	245.4		
1981	2	Fall	161	Pipefish family				0					59		84	245.4		
1981	2	Fall	162	Mackerel scad				0					59		84	245.4		
1981	2	Fall	164	Cunner				3					59		84	245.4		
1981	2	Fall	169	Gray snapper				0					59		84	245.4		
1981	2	Fall	172	Bigeye scad				0					59		84	245.4		
1981	2	Fall	173	Striped burrfish				0					59		84	245.4		
1981	2	Fall	177	Spotfin butterflyfish				0					59		84	245.4		
1981	2	Fall	179	Planehead filefish				0					59		84	245.4		
1981	2	Fall	180	Atlantic cutlassfish				0					59		84	245.4		
1981	2	Fall	181	Pigfish				0					59		84	245.4		
1981	2	Fall	184	Freckled blenny				0					59		84	245.4		
1981	2	Fall	187	Margined madtom				0					59		84	245.4		
1981	2	Fall	205	Freshwater drum				0					59		84	245.4		
1981	2	Fall	206	King mackerel				0					59		84	245.4		
1981	2	Fall	209	Highfin goby				0					59		84	245.4		
1981	2	Fall	213	Oyster toadfish				0					59		84	245.4		
1981	2	Fall	999	All fish taxa				1,264,867.01					59		84	245.4		
1981	3	Winter	1	Alewife				20					77		77	143.5		
1981	3	Winter	2	Bay anchovy				7					77		77	143.5		
1981	3	Winter	3	American shad				4					77		77	143.5		
1981	3	Winter	4	Bluefish				0					77		77	143.5		
1981	3	Winter	5	Bluegill				53					77		77	143.5		
1981	3	Winter	6	Brown bullhead				81					77		77	143.5		
1981	3	Winter	7	Pumpkinseed				953					77		77	143.5		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	3	Winter	8	Black crappie				7					77		77	143.5		
1981	3	Winter	9	Common carp				25					77		77	143.5		
1981	3	Winter	10	American eel				170					77		77	143.5		
1981	3	Winter	11	Goldfish				205					77		77	143.5		
1981	3	Winter	12	Golden shiner				19					77		77	143.5		
1981	3	Winter	13	Hogchoker				7					77		77	143.5		
1981	3	Winter	14	Tessellated darter				1					77		77	143.5		
1981	3	Winter	15	Banded killifish				165					77		77	143.5		
1981	3	Winter	16	Emerald shiner				0					77		77	143.5		
1981	3	Winter	17	Largemouth bass				46					77		77	143.5		
1981	3	Winter	18	Mummichog				6					77		77	143.5		
1981	3	Winter	19	Atlantic menhaden				0					77		77	143.5		
1981	3	Winter	21	Chain pickerel				1					77		77	143.5		
1981	3	Winter	22	Blueback herring				63					77		77	143.5		
1981	3	Winter	23	White sucker				0					77		77	143.5		
1981	3	Winter	24	Atlantic silverside				7					77		77	143.5		
1981	3	Winter	25	Rainbow smelt				577					77		77	143.5		
1981	3	Winter	26	Smallmouth bass				1					77		77	143.5		
1981	3	Winter	27	Shortnose sturgeon				0.00					77		77	143.5		
1981	3	Winter	28	Spottail shiner				239					77		77	143.5		
1981	3	Winter	29	Atlantic sturgeon				4.38					77		77	143.5		
1981	3	Winter	30	Striped bass				5,198					77		77	143.5		
1981	3	Winter	31	Fourspine stickleback				4					77		77	143.5		
1981	3	Winter	32	Atlantic tomcod				136					77		77	143.5		
1981	3	Winter	34	White catfish				214					77		77	143.5		
1981	3	Winter	35	White perch				110,065					77		77	143.5		
1981	3	Winter	36	Yellow perch				36					77		77	143.5		
1981	3	Winter	37	Satinfin shiner				0					77		77	143.5		
1981	3	Winter	38	Rock bass				1					77		77	143.5		
1981	3	Winter	39	Northern pipefish				3					77		77	143.5		
1981	3	Winter	40	Redbreast sunfish				6					77		77	143.5		
1981	3	Winter	41	Atlantic needlefish				0					77		77	143.5		
1981	3	Winter	42	Creville jack				0					77		77	143.5		
1981	3	Winter	45	Weakfish				0					77		77	143.5		
1981	3	Winter	47	Common shiner				0					77		77	143.5		
1981	3	Winter	49	Lookdown				0					77		77	143.5		
1981	3	Winter	50	Herring family				0					77		77	143.5		
1981	3	Winter	54	Lined seahorse				0					77		77	143.5		
1981	3	Winter	55	Logperch				0					77		77	143.5		
1981	3	Winter	58	Fathead minnow				0					77		77	143.5		
1981	3	Winter	59	Carp and minnow family				0					77		77	143.5		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	3	Winter	60	Morone species				0					77		77	143.5		
1981	3	Winter	62	Tautog				0					77		77	143.5		
1981	3	Winter	63	Fourbeard rockling				3					77		77	143.5		
1981	3	Winter	64	Striped cusk-eel				0					77		77	143.5		
1981	3	Winter	67	Spot				0					77		77	143.5		
1981	3	Winter	68	Atlantic moonfish				0					77		77	143.5		
1981	3	Winter	71	Scup				0					77		77	143.5		
1981	3	Winter	72	Winter flounder				3					77		77	143.5		
1981	3	Winter	73	Inland silverside				1					77		77	143.5		
1981	3	Winter	74	Sea lamprey				0					77		77	143.5		
1981	3	Winter	75	Gizzard shad				1,738					77		77	143.5		
1981	3	Winter	76	Silver hake				0					77		77	143.5		
1981	3	Winter	77	Striped mullet				0					77		77	143.5		
1981	3	Winter	78	Threespine stickleback				54					77		77	143.5		
1981	3	Winter	79	Brown trout				0					77		77	143.5		
1981	3	Winter	80	Butterfish				0					77		77	143.5		
1981	3	Winter	81	White crappie				9					77		77	143.5		
1981	3	Winter	83	Northern pike				0					77		77	143.5		
1981	3	Winter	84	Green sunfish				0					77		77	143.5		
1981	3	Winter	85	Silver perch				0					77		77	143.5		
1981	3	Winter	86	Northern puffer				0					77		77	143.5		
1981	3	Winter	96	Sunfish family				57					77		77	143.5		
1981	3	Winter	98	Red hake				23					77		77	143.5		
1981	3	Winter	100	Central mudminnow				0					77		77	143.5		
1981	3	Winter	101	Grubby				14					77		77	143.5		
1981	3	Winter	102	Eastern mudminnow				0					77		77	143.5		
1981	3	Winter	103	White bass				0					77		77	143.5		
1981	3	Winter	104	Rough silverside				0					77		77	143.5		
1981	3	Winter	105	Longear sunfish				0					77		77	143.5		
1981	3	Winter	106	Summer flounder				1					77		77	143.5		
1981	3	Winter	108	Creek chub				0					77		77	143.5		
1981	3	Winter	109	Black bullhead				0					77		77	143.5		
1981	3	Winter	110	Striped searobin				0					77		77	143.5		
1981	3	Winter	111	Northern searobin				0					77		77	143.5		
1981	3	Winter	113	Atlantic croaker				0					77		77	143.5		
1981	3	Winter	114	Longhorn sculpin				0					77		77	143.5		
1981	3	Winter	116	Hickory shad				0					77		77	143.5		
1981	3	Winter	120	Conger eel				0					77		77	143.5		
1981	3	Winter	122	Warmouth				0					77		77	143.5		
1981	3	Winter	125	White mullet				0					77		77	143.5		
1981	3	Winter	126	Yellow bullhead				0					77		77	143.5		
1981	3	Winter	127	Channel catfish				0					77		77	143.5		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	3	Winter	130	Naked goby				0					77		77	143.5		
1981	3	Winter	132	Windowpane				0					77		77	143.5		
1981	3	Winter	133	Spotted hake				0					77		77	143.5		
1981	3	Winter	136	Northern stargazer				0					77		77	143.5		
1981	3	Winter	137	American sand lance				0					77		77	143.5		
1981	3	Winter	139	Fourspot flounder				0					77		77	143.5		
1981	3	Winter	140	Atlantic mackerel				0					77		77	143.5		
1981	3	Winter	141	Black sea bass				0					77		77	143.5		
1981	3	Winter	142	Smallmouth flounder				0					77		77	143.5		
1981	3	Winter	143	Rock gunnel				0					77		77	143.5		
1981	3	Winter	144	Inshore lizardfish				0					77		77	143.5		
1981	3	Winter	146	Silver lamprey				0					77		77	143.5		
1981	3	Winter	150	Goby family				0					77		77	143.5		
1981	3	Winter	157	New World silverside family				0					77		77	143.5		
1981	3	Winter	159	Sand flounder family				0					77		77	143.5		
1981	3	Winter	161	Pipefish family				0					77		77	143.5		
1981	3	Winter	162	Mackerel scad				0					77		77	143.5		
1981	3	Winter	164	Cunner				0					77		77	143.5		
1981	3	Winter	169	Gray snapper				0					77		77	143.5		
1981	3	Winter	172	Bigeye scad				0					77		77	143.5		
1981	3	Winter	173	Striped burrfish				0					77		77	143.5		
1981	3	Winter	177	Spotfin butterflyfish				0					77		77	143.5		
1981	3	Winter	179	Planehead filefish				0					77		77	143.5		
1981	3	Winter	180	Atlantic cutlassfish				0					77		77	143.5		
1981	3	Winter	181	Pigfish				0					77		77	143.5		
1981	3	Winter	184	Freckled blenny				0					77		77	143.5		
1981	3	Winter	187	Margined madtom				0					77		77	143.5		
1981	3	Winter	205	Freshwater drum				0					77		77	143.5		
1981	3	Winter	206	King mackerel				0					77		77	143.5		
1981	3	Winter	209	Highfin goby				0					77		77	143.5		
1981	3	Winter	213	Oyster toadfish				0					77		77	143.5		
1981	3	Winter	999	All fish taxa				120,231.38					77		77	143.5		
1981	3	Spring	1	Alewife				1,057					91		91	299.3		
1981	3	Spring	2	Bay anchovy				38,765					91		91	299.3		
1981	3	Spring	3	American shad				562					91		91	299.3		
1981	3	Spring	4	Bluefish				1,729					91		91	299.3		
1981	3	Spring	5	Bluegill				154					91		91	299.3		
1981	3	Spring	6	Brown bullhead				35					91		91	299.3		
1981	3	Spring	7	Pumpkinseed				1,223					91		91	299.3		
1981	3	Spring	8	Black crappie				35					91		91	299.3		
1981	3	Spring	9	Common carp				3					91		91	299.3		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	3	Spring	10	American eel				834					91		91	299.3		
1981	3	Spring	11	Goldfish				60					91		91	299.3		
1981	3	Spring	12	Golden shiner				15					91		91	299.3		
1981	3	Spring	13	Hogchoker				13,170					91		91	299.3		
1981	3	Spring	14	Tessellated darter				48					91		91	299.3		
1981	3	Spring	15	Banded killifish				100					91		91	299.3		
1981	3	Spring	16	Emerald shiner				2					91		91	299.3		
1981	3	Spring	17	Largemouth bass				9					91		91	299.3		
1981	3	Spring	18	Mummichog				8					91		91	299.3		
1981	3	Spring	19	Atlantic menhaden				487					91		91	299.3		
1981	3	Spring	21	Chain pickerel				0					91		91	299.3		
1981	3	Spring	22	Blueback herring				1,368					91		91	299.3		
1981	3	Spring	23	White sucker				18					91		91	299.3		
1981	3	Spring	24	Atlantic silverside				3					91		91	299.3		
1981	3	Spring	25	Rainbow smelt				281					91		91	299.3		
1981	3	Spring	26	Smallmouth bass				0					91		91	299.3		
1981	3	Spring	27	Shortnose sturgeon				0.00					91		91	299.3		
1981	3	Spring	28	Spottail shiner				99					91		91	299.3		
1981	3	Spring	29	Atlantic sturgeon				0.00					91		91	299.3		
1981	3	Spring	30	Striped bass				3,312					91		91	299.3		
1981	3	Spring	31	Fourspine stickleback				14					91		91	299.3		
1981	3	Spring	32	Atlantic tomcod				31,355					91		91	299.3		
1981	3	Spring	34	White catfish				153					91		91	299.3		
1981	3	Spring	35	White perch				76,697					91		91	299.3		
1981	3	Spring	36	Yellow perch				95					91		91	299.3		
1981	3	Spring	37	Satinfin shiner				0					91		91	299.3		
1981	3	Spring	38	Rock bass				0					91		91	299.3		
1981	3	Spring	39	Northern pipefish				235					91		91	299.3		
1981	3	Spring	40	Redbreast sunfish				33					91		91	299.3		
1981	3	Spring	41	Atlantic needlefish				2					91		91	299.3		
1981	3	Spring	42	Crevalle jack				0					91		91	299.3		
1981	3	Spring	45	Weakfish				0					91		91	299.3		
1981	3	Spring	47	Common shiner				0					91		91	299.3		
1981	3	Spring	49	Lookdown				0					91		91	299.3		
1981	3	Spring	50	Herring family				308					91		91	299.3		
1981	3	Spring	54	Lined seahorse				5					91		91	299.3		
1981	3	Spring	55	Logperch				0					91		91	299.3		
1981	3	Spring	58	Fathead minnow				2					91		91	299.3		
1981	3	Spring	59	Carp and minnow family				0					91		91	299.3		
1981	3	Spring	60	Morone species				0					91		91	299.3		
1981	3	Spring	62	Tautog				3					91		91	299.3		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	3	Spring	63	Fourbeard rockling				0					91		91	299.3		
1981	3	Spring	64	Striped cusk-eel				0					91		91	299.3		
1981	3	Spring	67	Spot				0					91		91	299.3		
1981	3	Spring	68	Atlantic moonfish				0					91		91	299.3		
1981	3	Spring	71	Scup				0					91		91	299.3		
1981	3	Spring	72	Winter flounder				3					91		91	299.3		
1981	3	Spring	73	Inland silverside				0					91		91	299.3		
1981	3	Spring	74	Sea lamprey				0					91		91	299.3		
1981	3	Spring	75	Gizzard shad				0					91		91	299.3		
1981	3	Spring	76	Silver hake				7					91		91	299.3		
1981	3	Spring	77	Striped mullet				0					91		91	299.3		
1981	3	Spring	78	Threespine stickleback				3					91		91	299.3		
1981	3	Spring	79	Brown trout				0					91		91	299.3		
1981	3	Spring	80	Butterfish				0					91		91	299.3		
1981	3	Spring	81	White crappie				0					91		91	299.3		
1981	3	Spring	83	Northern pike				0					91		91	299.3		
1981	3	Spring	84	Green sunfish				0					91		91	299.3		
1981	3	Spring	85	Silver perch				0					91		91	299.3		
1981	3	Spring	86	Northern puffer				0					91		91	299.3		
1981	3	Spring	96	Sunfish family				0					91		91	299.3		
1981	3	Spring	98	Red hake				2					91		91	299.3		
1981	3	Spring	100	Central mudminnow				0					91		91	299.3		
1981	3	Spring	101	Grubby				0					91		91	299.3		
1981	3	Spring	102	Eastern mudminnow				0					91		91	299.3		
1981	3	Spring	103	White bass				0					91		91	299.3		
1981	3	Spring	104	Rough silverside				0					91		91	299.3		
1981	3	Spring	105	Longear sunfish				0					91		91	299.3		
1981	3	Spring	106	Summer flounder				4					91		91	299.3		
1981	3	Spring	108	Creek chub				0					91		91	299.3		
1981	3	Spring	109	Black bullhead				0					91		91	299.3		
1981	3	Spring	110	Striped searobin				2					91		91	299.3		
1981	3	Spring	111	Northern searobin				0					91		91	299.3		
1981	3	Spring	113	Atlantic croaker				0					91		91	299.3		
1981	3	Spring	114	Longhorn sculpin				0					91		91	299.3		
1981	3	Spring	116	Hickory shad				0					91		91	299.3		
1981	3	Spring	120	Conger eel				0					91		91	299.3		
1981	3	Spring	122	Warmouth				0					91		91	299.3		
1981	3	Spring	125	White mullet				0					91		91	299.3		
1981	3	Spring	126	Yellow bullhead				0					91		91	299.3		
1981	3	Spring	127	Channel catfish				0					91		91	299.3		
1981	3	Spring	130	Naked goby				0					91		91	299.3		
1981	3	Spring	132	Windowpane				8					91		91	299.3		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	3	Spring	133	Spotted hake				0					91		91	299.3		
1981	3	Spring	136	Northern stargazer				0					91		91	299.3		
1981	3	Spring	137	American sand lance				0					91		91	299.3		
1981	3	Spring	139	Fourspot flounder				0					91		91	299.3		
1981	3	Spring	140	Atlantic mackerel				0					91		91	299.3		
1981	3	Spring	141	Black sea bass				0					91		91	299.3		
1981	3	Spring	142	Smallmouth flounder				7					91		91	299.3		
1981	3	Spring	143	Rock gunnel				0					91		91	299.3		
1981	3	Spring	144	Inshore lizardfish				0					91		91	299.3		
1981	3	Spring	146	Silver lamprey				0					91		91	299.3		
1981	3	Spring	150	Goby family				0					91		91	299.3		
1981	3	Spring	157	New World silverside family				0					91		91	299.3		
1981	3	Spring	159	Sand flounder family				0					91		91	299.3		
1981	3	Spring	161	Pipefish family				0					91		91	299.3		
1981	3	Spring	162	Mackerel scad				0					91		91	299.3		
1981	3	Spring	164	Cunner				0					91		91	299.3		
1981	3	Spring	169	Gray snapper				0					91		91	299.3		
1981	3	Spring	172	Bigeye scad				0					91		91	299.3		
1981	3	Spring	173	Striped burrfish				0					91		91	299.3		
1981	3	Spring	177	Spotfin butterflyfish				0					91		91	299.3		
1981	3	Spring	179	Planehead filefish				0					91		91	299.3		
1981	3	Spring	180	Atlantic cutlassfish				0					91		91	299.3		
1981	3	Spring	181	Pigfish				0					91		91	299.3		
1981	3	Spring	184	Freckled blenny				0					91		91	299.3		
1981	3	Spring	187	Margined madtom				0					91		91	299.3		
1981	3	Spring	205	Freshwater drum				0					91		91	299.3		
1981	3	Spring	206	King mackerel				0					91		91	299.3		
1981	3	Spring	209	Highfin goby				0					91		91	299.3		
1981	3	Spring	213	Oyster toadfish				0					91		91	299.3		
1981	3	Spring	999	All fish taxa				172,313.00					91		91	299.3		
1981	3	Summer	1	Alewife				7,718					25		84	310		
1981	3	Summer	2	Bay anchovy				75,062					25		84	310		
1981	3	Summer	3	American shad				20,972					25		84	310		
1981	3	Summer	4	Bluefish				6,313					25		84	310		
1981	3	Summer	5	Bluegill				41					25		84	310		
1981	3	Summer	6	Brown bullhead				114					25		84	310		
1981	3	Summer	7	Pumpkinseed				428					25		84	310		
1981	3	Summer	8	Black crappie				0					25		84	310		
1981	3	Summer	9	Common carp				0					25		84	310		
1981	3	Summer	10	American eel				402					25		84	310		
1981	3	Summer	11	Goldfish				0					25		84	310		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	3	Summer	12	Golden shiner				0					25		84	310		
1981	3	Summer	13	Hogchoker				8,397					25		84	310		
1981	3	Summer	14	Tessellated darter				13					25		84	310		
1981	3	Summer	15	Banded killifish				7					25		84	310		
1981	3	Summer	16	Emerald shiner				0					25		84	310		
1981	3	Summer	17	Largemouth bass				0					25		84	310		
1981	3	Summer	18	Mummichog				0					25		84	310		
1981	3	Summer	19	Atlantic menhaden				1,423					25		84	310		
1981	3	Summer	21	Chain pickerel				0					25		84	310		
1981	3	Summer	22	Blueback herring				11,117					25		84	310		
1981	3	Summer	23	White sucker				0					25		84	310		
1981	3	Summer	24	Atlantic silverside				0					25		84	310		
1981	3	Summer	25	Rainbow smelt				7					25		84	310		
1981	3	Summer	26	Smallmouth bass				0					25		84	310		
1981	3	Summer	27	Shortnose sturgeon				0.00					25		84	310		
1981	3	Summer	28	Spottail shiner				14					25		84	310		
1981	3	Summer	29	Atlantic sturgeon				0.00					25		84	310		
1981	3	Summer	30	Striped bass				3,623					25		84	310		
1981	3	Summer	31	Fourspine stickleback				0					25		84	310		
1981	3	Summer	32	Atlantic tomcod				43,615					25		84	310		
1981	3	Summer	34	White catfish				148					25		84	310		
1981	3	Summer	35	White perch				25,571					25		84	310		
1981	3	Summer	36	Yellow perch				7					25		84	310		
1981	3	Summer	37	Satinfin shiner				0					25		84	310		
1981	3	Summer	38	Rock bass				0					25		84	310		
1981	3	Summer	39	Northern pipefish				80					25		84	310		
1981	3	Summer	40	Redbreast sunfish				34					25		84	310		
1981	3	Summer	41	Atlantic needlefish				0					25		84	310		
1981	3	Summer	42	Crevalle jack				28					25		84	310		
1981	3	Summer	45	Weakfish				11,647					25		84	310		
1981	3	Summer	47	Common shiner				0					25		84	310		
1981	3	Summer	49	Lookdown				0					25		84	310		
1981	3	Summer	50	Herring family				1,086					25		84	310		
1981	3	Summer	54	Lined seahorse				0					25		84	310		
1981	3	Summer	55	Logperch				0					25		84	310		
1981	3	Summer	58	Fathead minnow				0					25		84	310		
1981	3	Summer	59	Carp and minnow family				0					25		84	310		
1981	3	Summer	60	Morone species				0					25		84	310		
1981	3	Summer	62	Tautog				0					25		84	310		
1981	3	Summer	63	Fourbeard rockling				0					25		84	310		
1981	3	Summer	64	Striped cusk-eel				0					25		84	310		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	3	Summer	67	Spot				0					25		84	310		
1981	3	Summer	68	Atlantic moonfish				0					25		84	310		
1981	3	Summer	71	Scup				0					25		84	310		
1981	3	Summer	72	Winter flounder				0					25		84	310		
1981	3	Summer	73	Inland silverside				0					25		84	310		
1981	3	Summer	74	Sea lamprey				0					25		84	310		
1981	3	Summer	75	Gizzard shad				0					25		84	310		
1981	3	Summer	76	Silver hake				0					25		84	310		
1981	3	Summer	77	Striped mullet				0					25		84	310		
1981	3	Summer	78	Threespine stickleback				0					25		84	310		
1981	3	Summer	79	Brown trout				0					25		84	310		
1981	3	Summer	80	Butterfish				80					25		84	310		
1981	3	Summer	81	White crappie				0					25		84	310		
1981	3	Summer	83	Northern pike				0					25		84	310		
1981	3	Summer	84	Green sunfish				0					25		84	310		
1981	3	Summer	85	Silver perch				0					25		84	310		
1981	3	Summer	86	Northern puffer				7					25		84	310		
1981	3	Summer	96	Sunfish family				0					25		84	310		
1981	3	Summer	98	Red hake				0					25		84	310		
1981	3	Summer	100	Central mudminnow				0					25		84	310		
1981	3	Summer	101	Grubby				0					25		84	310		
1981	3	Summer	102	Eastern mudminnow				0					25		84	310		
1981	3	Summer	103	White bass				0					25		84	310		
1981	3	Summer	104	Rough silverside				20					25		84	310		
1981	3	Summer	105	Longear sunfish				0					25		84	310		
1981	3	Summer	106	Summer flounder				67					25		84	310		
1981	3	Summer	108	Creek chub				0					25		84	310		
1981	3	Summer	109	Black bullhead				7					25		84	310		
1981	3	Summer	110	Striped searobin				0					25		84	310		
1981	3	Summer	111	Northern searobin				13					25		84	310		
1981	3	Summer	113	Atlantic croaker				0					25		84	310		
1981	3	Summer	114	Longhorn sculpin				0					25		84	310		
1981	3	Summer	116	Hickory shad				0					25		84	310		
1981	3	Summer	120	Conger eel				0					25		84	310		
1981	3	Summer	122	Warmouth				0					25		84	310		
1981	3	Summer	125	White mullet				0					25		84	310		
1981	3	Summer	126	Yellow bullhead				0					25		84	310		
1981	3	Summer	127	Channel catfish				0					25		84	310		
1981	3	Summer	130	Naked goby				0					25		84	310		
1981	3	Summer	132	Windowpane				7					25		84	310		
1981	3	Summer	133	Spotted hake				0					25		84	310		
1981	3	Summer	136	Northern stargazer				0					25		84	310		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	3	Summer	137	American sand lance				0					25		84	310		
1981	3	Summer	139	Fourspot flounder				0					25		84	310		
1981	3	Summer	140	Atlantic mackerel				0					25		84	310		
1981	3	Summer	141	Black sea bass				0					25		84	310		
1981	3	Summer	142	Smallmouth flounder				0					25		84	310		
1981	3	Summer	143	Rock gunnel				0					25		84	310		
1981	3	Summer	144	Inshore lizardfish				0					25		84	310		
1981	3	Summer	146	Silver lamprey				0					25		84	310		
1981	3	Summer	150	Goby family				0					25		84	310		
1981	3	Summer	157	New World silverside family				0					25		84	310		
1981	3	Summer	159	Sand flounder family				0					25		84	310		
1981	3	Summer	161	Pipefish family				0					25		84	310		
1981	3	Summer	162	Mackerel scad				0					25		84	310		
1981	3	Summer	164	Cunner				0					25		84	310		
1981	3	Summer	169	Gray snapper				0					25		84	310		
1981	3	Summer	172	Bigeye scad				7					25		84	310		
1981	3	Summer	173	Striped burrfish				7					25		84	310		
1981	3	Summer	177	Spotfin butterflyfish				0					25		84	310		
1981	3	Summer	179	Planehead filefish				0					25		84	310		
1981	3	Summer	180	Atlantic cutlassfish				0					25		84	310		
1981	3	Summer	181	Pigfish				0					25		84	310		
1981	3	Summer	184	Freckled blenny				0					25		84	310		
1981	3	Summer	187	Margined madtom				0					25		84	310		
1981	3	Summer	205	Freshwater drum				0					25		84	310		
1981	3	Summer	206	King mackerel				0					25		84	310		
1981	3	Summer	209	Highfin goby				0					25		84	310		
1981	3	Summer	213	Oyster toadfish				0					25		84	310		
1981	3	Summer	999	All fish taxa				218,079.00					25		84	310		
1981	3	Fall	1	Alewife				19					26		45	103.9		
1981	3	Fall	2	Bay anchovy				44					26		45	103.9		
1981	3	Fall	3	American shad				171					26		45	103.9		
1981	3	Fall	4	Bluefish				0					26		45	103.9		
1981	3	Fall	5	Bluegill				47					26		45	103.9		
1981	3	Fall	6	Brown bullhead				13					26		45	103.9		
1981	3	Fall	7	Pumpkinseed				2,836					26		45	103.9		
1981	3	Fall	8	Black crappie				3					26		45	103.9		
1981	3	Fall	9	Common carp				5					26		45	103.9		
1981	3	Fall	10	American eel				239					26		45	103.9		
1981	3	Fall	11	Goldfish				5					26		45	103.9		
1981	3	Fall	12	Golden shiner				5					26		45	103.9		
1981	3	Fall	13	Hogchoker				1,051					26		45	103.9		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	3	Fall	14	Tessellated darter				24					26		45	103.9		
1981	3	Fall	15	Banded killifish				223					26		45	103.9		
1981	3	Fall	16	Emerald shiner				0					26		45	103.9		
1981	3	Fall	17	Largemouth bass				8					26		45	103.9		
1981	3	Fall	18	Mummichog				8					26		45	103.9		
1981	3	Fall	19	Atlantic menhaden				0					26		45	103.9		
1981	3	Fall	21	Chain pickerel				0					26		45	103.9		
1981	3	Fall	22	Blueback herring				2,728					26		45	103.9		
1981	3	Fall	23	White sucker				0					26		45	103.9		
1981	3	Fall	24	Atlantic silverside				8					26		45	103.9		
1981	3	Fall	25	Rainbow smelt				62					26		45	103.9		
1981	3	Fall	26	Smallmouth bass				0					26		45	103.9		
1981	3	Fall	27	Shortnose sturgeon				0.00					26		45	103.9		
1981	3	Fall	28	Spottail shiner				145					26		45	103.9		
1981	3	Fall	29	Atlantic sturgeon				3.08					26		45	103.9		
1981	3	Fall	30	Striped bass				13,807					26		45	103.9		
1981	3	Fall	31	Fourspine stickleback				3					26		45	103.9		
1981	3	Fall	32	Atlantic tomcod				787					26		45	103.9		
1981	3	Fall	34	White catfish				419					26		45	103.9		
1981	3	Fall	35	White perch				460,892					26		45	103.9		
1981	3	Fall	36	Yellow perch				166					26		45	103.9		
1981	3	Fall	37	Satinfin shiner				0					26		45	103.9		
1981	3	Fall	38	Rock bass				0					26		45	103.9		
1981	3	Fall	39	Northern pipefish				8					26		45	103.9		
1981	3	Fall	40	Redbreast sunfish				3					26		45	103.9		
1981	3	Fall	41	Atlantic needlefish				0					26		45	103.9		
1981	3	Fall	42	Crevalle jack				0					26		45	103.9		
1981	3	Fall	45	Weakfish				43					26		45	103.9		
1981	3	Fall	47	Common shiner				0					26		45	103.9		
1981	3	Fall	49	Lookdown				0					26		45	103.9		
1981	3	Fall	50	Herring family				0					26		45	103.9		
1981	3	Fall	54	Lined seahorse				0					26		45	103.9		
1981	3	Fall	55	Logperch				0					26		45	103.9		
1981	3	Fall	58	Fathead minnow				0					26		45	103.9		
1981	3	Fall	59	Carp and minnow family				13					26		45	103.9		
1981	3	Fall	60	Morone species				0					26		45	103.9		
1981	3	Fall	62	Tautog				0					26		45	103.9		
1981	3	Fall	63	Fourbeard rockling				0					26		45	103.9		
1981	3	Fall	64	Striped cusk-eel				0					26		45	103.9		
1981	3	Fall	67	Spot				0					26		45	103.9		
1981	3	Fall	68	Atlantic moonfish				0					26		45	103.9		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstY0Y	EstYRLNG	EstYROL	EstComb	SEY0Y	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	3	Fall	71	Scup				0					26		45	103.9		
1981	3	Fall	72	Winter flounder				3					26		45	103.9		
1981	3	Fall	73	Inland silverside				0					26		45	103.9		
1981	3	Fall	74	Sea lamprey				0					26		45	103.9		
1981	3	Fall	75	Gizzard shad				725					26		45	103.9		
1981	3	Fall	76	Silver hake				0					26		45	103.9		
1981	3	Fall	77	Striped mullet				0					26		45	103.9		
1981	3	Fall	78	Threespine stickleback				3					26		45	103.9		
1981	3	Fall	79	Brown trout				0					26		45	103.9		
1981	3	Fall	80	Butterfish				0					26		45	103.9		
1981	3	Fall	81	White crappie				0					26		45	103.9		
1981	3	Fall	83	Northern pike				0					26		45	103.9		
1981	3	Fall	84	Green sunfish				0					26		45	103.9		
1981	3	Fall	85	Silver perch				0					26		45	103.9		
1981	3	Fall	86	Northern puffer				0					26		45	103.9		
1981	3	Fall	96	Sunfish family				0					26		45	103.9		
1981	3	Fall	98	Red hake				10					26		45	103.9		
1981	3	Fall	100	Central mudminnow				0					26		45	103.9		
1981	3	Fall	101	Grubby				0					26		45	103.9		
1981	3	Fall	102	Eastern mudminnow				0					26		45	103.9		
1981	3	Fall	103	White bass				0					26		45	103.9		
1981	3	Fall	104	Rough silverside				0					26		45	103.9		
1981	3	Fall	105	Longear sunfish				0					26		45	103.9		
1981	3	Fall	106	Summer flounder				0					26		45	103.9		
1981	3	Fall	108	Creek chub				0					26		45	103.9		
1981	3	Fall	109	Black bullhead				8					26		45	103.9		
1981	3	Fall	110	Striped searobin				3					26		45	103.9		
1981	3	Fall	111	Northern searobin				0					26		45	103.9		
1981	3	Fall	113	Atlantic croaker				0					26		45	103.9		
1981	3	Fall	114	Longhorn sculpin				3					26		45	103.9		
1981	3	Fall	116	Hickory shad				0					26		45	103.9		
1981	3	Fall	120	Conger eel				0					26		45	103.9		
1981	3	Fall	122	Warmouth				0					26		45	103.9		
1981	3	Fall	125	White mullet				0					26		45	103.9		
1981	3	Fall	126	Yellow bullhead				0					26		45	103.9		
1981	3	Fall	127	Channel catfish				0					26		45	103.9		
1981	3	Fall	130	Naked goby				0					26		45	103.9		
1981	3	Fall	132	Windowpane				0					26		45	103.9		
1981	3	Fall	133	Spotted hake				0					26		45	103.9		
1981	3	Fall	136	Northern stargazer				0					26		45	103.9		
1981	3	Fall	137	American sand lance				0					26		45	103.9		
1981	3	Fall	139	Fourspot flounder				0					26		45	103.9		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1981	3	Fall	140	Atlantic mackerel				0					26		45	103.9		
1981	3	Fall	141	Black sea bass				0					26		45	103.9		
1981	3	Fall	142	Smallmouth flounder				0					26		45	103.9		
1981	3	Fall	143	Rock gunnel				0					26		45	103.9		
1981	3	Fall	144	Inshore lizardfish				0					26		45	103.9		
1981	3	Fall	146	Silver lamprey				0					26		45	103.9		
1981	3	Fall	150	Goby family				0					26		45	103.9		
1981	3	Fall	157	New World silverside family				0					26		45	103.9		
1981	3	Fall	159	Sand flounder family				0					26		45	103.9		
1981	3	Fall	161	Pipefish family				0					26		45	103.9		
1981	3	Fall	162	Mackerel scad				0					26		45	103.9		
1981	3	Fall	164	Cunner				0					26		45	103.9		
1981	3	Fall	169	Gray snapper				0					26		45	103.9		
1981	3	Fall	172	Bigeye scad				0					26		45	103.9		
1981	3	Fall	173	Striped burrfish				0					26		45	103.9		
1981	3	Fall	177	Spotfin butterflyfish				0					26		45	103.9		
1981	3	Fall	179	Planehead filefish				0					26		45	103.9		
1981	3	Fall	180	Atlantic cutlassfish				0					26		45	103.9		
1981	3	Fall	181	Pigfish				0					26		45	103.9		
1981	3	Fall	184	Freckled blenny				0					26		45	103.9		
1981	3	Fall	187	Margined madtom				0					26		45	103.9		
1981	3	Fall	205	Freshwater drum				0					26		45	103.9		
1981	3	Fall	206	King mackerel				0					26		45	103.9		
1981	3	Fall	209	Highfin goby				0					26		45	103.9		
1981	3	Fall	213	Oyster toadfish				0					26		45	103.9		
1981	3	Fall	999	All fish taxa				484,538.08					26		45	103.9		
1982	2	Winter	1	Alewife				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	2	Bay anchovy				24					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	3	American shad				6					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	4	Bluefish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	5	Bluegill				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	6	Brown bullhead				30					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	7	Pumpkinseed				1,053					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	8	Black crappie				6					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	9	Common carp				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	10	American eel				325					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	11	Goldfish				12					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	12	Golden shiner				12					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	13	Hogchoker				278					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	14	Tessellated darter				61					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	15	Banded killifish				391					30	79.1	90	251.17	3-Jan-82	29-Mar-82

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1982	2	Winter	16	Emerald shiner				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	17	Largemouth bass				6					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	18	Mummichog				24					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	19	Atlantic menhaden				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	21	Chain pickerel				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	22	Blueback herring				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	23	White sucker				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	24	Atlantic silverside				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	25	Rainbow smelt				55					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	26	Smallmouth bass				24					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	27	Shortnose sturgeon				0.00					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	28	Spottail shiner				697					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	29	Atlantic sturgeon				0.00					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	30	Striped bass				7,894					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	31	Fourspine stickleback				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	32	Atlantic tomcod				1,236					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	34	White catfish				109					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	35	White perch				488,182					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	36	Yellow perch				249					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	37	Satinfin shiner				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	38	Rock bass				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	39	Northern pipefish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	40	Redbreast sunfish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	41	Atlantic needlefish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	42	Creville jack				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	45	Weakfish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	47	Common shiner				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	49	Lookdown				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	50	Herring family				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	50	Herring family				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	54	Lined seahorse				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	55	Logperch				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	58	Fathead minnow				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	59	Carp and minnow family				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	60	Morone species				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	62	Tautog				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	63	Fourbeard rockling				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	64	Striped cusk-eel				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	67	Spot				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	68	Atlantic moonfish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	71	Scup				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82

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1982	2	Winter	72	Winter flounder				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	73	Inland silverside				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	74	Sea lamprey				12					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	75	Gizzard shad				335					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	76	Silver hake				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	77	Striped mullet				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	78	Threespine stickleback				79					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	79	Brown trout				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	80	Butterfish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	81	White crappie				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	83	Northern pike				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	84	Green sunfish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	85	Silver perch				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	86	Northern puffer				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	96	Sunfish family				519					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	98	Red hake				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	100	Central mudminnow				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	101	Grubby				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	102	Eastern mudminnow				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	103	White bass				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	104	Rough silverside				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	105	Longear sunfish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	106	Summer flounder				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	108	Creek chub				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	109	Black bullhead				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	110	Striped searobin				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	111	Northern searobin				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	113	Atlantic croaker				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	114	Longhorn sculpin				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	116	Hickory shad				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	120	Conger eel				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	122	Warmouth				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	125	White mullet				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	126	Yellow bullhead				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	127	Channel catfish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	130	Naked goby				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	132	Windowpane				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	133	Spotted hake				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	136	Northern stargazer				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	137	American sand lance				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	139	Fourspot flounder				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	140	Atlantic mackerel				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1982	2	Winter	141	Black sea bass				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	142	Smallmouth flounder				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	143	Rock gunnel				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	144	Inshore lizardfish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	146	Silver lamprey				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	150	Goby family				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	157	New World silverside family				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	159	Sand flounder family				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	161	Pipefish family				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	162	Mackerel scad				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	164	Cunner				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	169	Gray snapper				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	172	Bigeye scad				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	173	Striped burrfish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	177	Spotfin butterflyfish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	179	Planehead filefish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	180	Atlantic cutlassfish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	181	Pigfish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	184	Freckled blenny				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	187	Margined madtom				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	205	Freshwater drum				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	206	King mackerel				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	209	Highfin goby				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	213	Oyster toadfish				0					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Winter	999	All fish taxa				501,620.00					30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Spring	1	Alewife				1,970					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	2	Bay anchovy				1,651					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	3	American shad				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	4	Bluefish				522					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	5	Bluegill				131					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	6	Brown bullhead				26					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	7	Pumpkinseed				317					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	8	Black crappie				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	9	Common carp				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	10	American eel				605					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	11	Goldfish				22					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	12	Golden shiner				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	13	Hogchoker				48,685					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	14	Tessellated darter				139					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	15	Banded killifish				132					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	16	Emerald shiner				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1982	2	Spring	17	Largemouth bass				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	18	Mummichog				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	19	Atlantic menhaden				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	21	Chain pickerel				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	22	Blueback herring				103					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	23	White sucker				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	24	Atlantic silverside				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	25	Rainbow smelt				268					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	26	Smallmouth bass				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	27	Shortnose sturgeon				0.00					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	28	Spottail shiner				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	29	Atlantic sturgeon				2.39					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	30	Striped bass				115					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	31	Fourspine stickleback				70					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	32	Atlantic tomcod				84,356					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	34	White catfish				300					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	35	White perch				61,899					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	36	Yellow perch				66					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	37	Satinfin shiner				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	38	Rock bass				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	39	Northern pipefish				283					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	40	Redbreast sunfish				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	41	Atlantic needlefish				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	42	Crevalle jack				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	45	Weakfish				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	47	Common shiner				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	49	Lookdown				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	50	Herring family				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	50	Herring family				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	54	Lined seahorse				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	55	Logperch				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	58	Fathead minnow				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	59	Carp and minnow family				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	60	Morone species				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	62	Tautog				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	63	Fourbeard rockling				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	64	Striped cusk-eel				24					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	67	Spot				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	68	Atlantic moonfish				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	71	Scup				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	72	Winter flounder				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82

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1982	2	Spring	73	Inland silverside				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	74	Sea lamprey				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	75	Gizzard shad				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	76	Silver hake				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	77	Striped mullet				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	78	Threespine stickleback				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	79	Brown trout				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	80	Butterfish				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	81	White crappie				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	83	Northern pike				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	84	Green sunfish				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	85	Silver perch				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	86	Northern puffer				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	96	Sunfish family				265					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	98	Red hake				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	100	Central mudminnow				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	101	Grubby				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	102	Eastern mudminnow				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	103	White bass				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	104	Rough silverside				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	105	Longear sunfish				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	106	Summer flounder				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	108	Creek chub				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	109	Black bullhead				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	110	Striped searobin				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	111	Northern searobin				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	113	Atlantic croaker				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	114	Longhorn sculpin				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	116	Hickory shad				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	120	Conger eel				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	122	Warmouth				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	125	White mullet				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	126	Yellow bullhead				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	127	Channel catfish				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	130	Naked goby				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	132	Windowpane				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	133	Spotted hake				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	136	Northern stargazer				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	137	American sand lance				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	139	Fourspot flounder				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	140	Atlantic mackerel				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	141	Black sea bass				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82

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1982	2	Spring	142	Smallmouth flounder				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	143	Rock gunnel				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	144	Inshore lizardfish				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	146	Silver lamprey				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	150	Goby family				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	157	New World silverside family				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	159	Sand flounder family				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	161	Pipefish family				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	162	Mackerel scad				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	164	Cunner				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	169	Gray snapper				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	172	Bigeye scad				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	173	Striped burrfish				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	177	Spotfin butterflyfish				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	179	Planehead filefish				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	180	Atlantic cutlassfish				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	181	Pigfish				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	184	Freckled blenny				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	187	Margined madtom				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	205	Freshwater drum				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	206	King mackerel				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	209	Highfin goby				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	213	Oyster toadfish				0					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Spring	999	All fish taxa				201,951.39					10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Summer	1	Alewife				253					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	2	Bay anchovy				111,691					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	3	American shad				1,486					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	4	Bluefish				931					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	5	Bluegill				26					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	6	Brown bullhead				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	7	Pumpkinseed				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	8	Black crappie				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	9	Common carp				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	10	American eel				212					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	11	Goldfish				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	12	Golden shiner				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	13	Hogchoker				7,277					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	14	Tessellated darter				29					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	15	Banded killifish				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	16	Emerald shiner				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	17	Largemouth bass				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82

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1982	2	Summer	18	Mummichog				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	19	Atlantic menhaden				81					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	21	Chain pickerel				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	22	Blueback herring				979					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	23	White sucker				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	24	Atlantic silverside				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	25	Rainbow smelt				889					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	26	Smallmouth bass				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	27	Shortnose sturgeon				0.00					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	28	Spottail shiner				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	29	Atlantic sturgeon				0.00					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	30	Striped bass				249					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	31	Fourspine stickleback				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	32	Atlantic tomcod				32,342					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	34	White catfish				140					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	35	White perch				27,671					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	36	Yellow perch				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	37	Satfin shiner				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	38	Rock bass				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	39	Northern pipefish				78					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	40	Redbreast sunfish				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	41	Atlantic needlefish				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	42	Crevalle jack				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	45	Weakfish				17,375					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	47	Common shiner				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	49	Lookdown				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	50	Herring family				189					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	50	Herring family				52					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	54	Lined seahorse				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	55	Logperch				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	58	Fathead minnow				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	59	Carp and minnow family				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	60	Morone species				600					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	62	Tautog				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	63	Fourbeard rockling				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	64	Striped cusk-eel				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	67	Spot				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	68	Atlantic moonfish				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	71	Scup				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	72	Winter flounder				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	73	Inland silverside				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1982	2	Summer	74	Sea lamprey				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	75	Gizzard shad				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	76	Silver hake				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	77	Striped mullet				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	78	Threespine stickleback				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	79	Brown trout				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	80	Butterfish				56					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	81	White crappie				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	83	Northern pike				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	84	Green sunfish				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	85	Silver perch				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	86	Northern puffer				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	96	Sunfish family				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	98	Red hake				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	100	Central mudminnow				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	101	Grubby				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	102	Eastern mudminnow				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	103	White bass				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	104	Rough silverside				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	105	Longear sunfish				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	106	Summer flounder				82					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	108	Creek chub				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	109	Black bullhead				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	110	Striped searobin				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	111	Northern searobin				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	113	Atlantic croaker				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	114	Longhorn sculpin				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	116	Hickory shad				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	120	Conger eel				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	122	Warmouth				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	125	White mullet				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	126	Yellow bullhead				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	127	Channel catfish				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	130	Naked goby				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	132	Windowpane				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	133	Spotted hake				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	136	Northern stargazer				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	137	American sand lance				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	139	Fourspot flounder				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	140	Atlantic mackerel				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	141	Black sea bass				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1982	2	Summer	142	Smallmouth flounder				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	143	Rock gunnel				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	144	Inshore lizardfish				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	146	Silver lamprey				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	150	Goby family				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	157	New World silverside family				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	159	Sand flounder family				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	161	Pipefish family				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	162	Mackerel scad				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	164	Cunner				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	169	Gray snapper				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	172	Bigeye scad				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	173	Striped burrfish				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	177	Spotfin butterflyfish				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	179	Planehead filefish				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	180	Atlantic cutlassfish				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	181	Pigfish				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	184	Freckled blenny				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	187	Margined madtom				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	205	Freshwater drum				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	206	King mackerel				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	209	Highfin goby				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	213	Oyster toadfish				0					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Summer	999	All fish taxa				202,686.00					11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Fall	1	Alewife				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	2	Bay anchovy				184					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	3	American shad				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	4	Bluefish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	5	Bluegill				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	6	Brown bullhead				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	7	Pumpkinseed				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	8	Black crappie				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	9	Common carp				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	10	American eel				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	11	Goldfish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	12	Golden shiner				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	13	Hogchoker				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	14	Tessellated darter				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	15	Banded killifish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	16	Emerald shiner				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	17	Largemouth bass				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82

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Year	Unit	Strata	Taxon	Common_Name	EstY0Y	EstYRLNG	EstYROL	EstComb	SEY0Y	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1982	2	Fall	18	Mummichog				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	19	Atlantic menhaden				7					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	21	Chain pickerel				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	22	Blueback herring				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	23	White sucker				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	24	Atlantic silverside				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	25	Rainbow smelt				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	26	Smallmouth bass				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	27	Shortnose sturgeon				0.00					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	28	Spottail shiner				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	29	Atlantic sturgeon				0.00					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	30	Striped bass				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	31	Fourspine stickleback				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	32	Atlantic tomcod				81					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	34	White catfish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	35	White perch				119					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	36	Yellow perch				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	37	Satinfin shiner				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	38	Rock bass				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	39	Northern pipefish				7					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	40	Redbreast sunfish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	41	Atlantic needlefish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	42	Crevalle jack				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	45	Weakfish				38					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	47	Common shiner				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	49	Lookdown				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	50	Herring family				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	50	Herring family				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	54	Lined seahorse				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	55	Logperch				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	58	Fathead minnow				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	59	Carp and minnow family				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	60	Morone species				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	62	Tautog				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	63	Fourbeard rockling				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	64	Striped cusk-eel				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	67	Spot				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	68	Atlantic moonfish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	71	Scup				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	72	Winter flounder				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	73	Inland silverside				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1982	2	Fall	74	Sea lamprey				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	75	Gizzard shad				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	76	Silver hake				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	77	Striped mullet				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	78	Threespine stickleback				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	79	Brown trout				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	80	Butterfish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	81	White crappie				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	83	Northern pike				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	84	Green sunfish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	85	Silver perch				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	86	Northern puffer				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	96	Sunfish family				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	98	Red hake				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	100	Central mudminnow				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	101	Grubby				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	102	Eastern mudminnow				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	103	White bass				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	104	Rough silverside				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	105	Longear sunfish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	106	Summer flounder				8					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	108	Creek chub				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	109	Black bullhead				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	110	Striped searobin				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	111	Northern searobin				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	113	Atlantic croaker				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	114	Longhorn sculpin				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	116	Hickory shad				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	120	Conger eel				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	122	Warmouth				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	125	White mullet				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	126	Yellow bullhead				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	127	Channel catfish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	130	Naked goby				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	132	Windowpane				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	133	Spotted hake				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	136	Northern stargazer				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	137	American sand lance				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	139	Fourspot flounder				8					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	140	Atlantic mackerel				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	141	Black sea bass				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1982	2	Fall	142	Smallmouth flounder				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	143	Rock gunnel				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	144	Inshore lizardfish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	146	Silver lamprey				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	150	Goby family				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	157	New World silverside family				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	159	Sand flounder family				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	161	Pipefish family				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	162	Mackerel scad				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	164	Cunner				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	169	Gray snapper				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	172	Bigeye scad				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	173	Striped burrfish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	177	Spotfin butterflyfish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	179	Planehead filefish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	180	Atlantic cutlassfish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	181	Pigfish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	184	Freckled blenny				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	187	Margined madtom				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	205	Freshwater drum				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	206	King mackerel				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	209	Highfin goby				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	213	Oyster toadfish				0					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Fall	999	All fish taxa				451.00					12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	3	Winter	1	Alewife				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	2	Bay anchovy				72					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	3	American shad				5					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	4	Bluefish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	5	Bluegill				85					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	6	Brown bullhead				48					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	7	Pumpkinseed				1,551					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	8	Black crappie				9					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	9	Common carp				5					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	10	American eel				220					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	11	Goldfish				29					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	12	Golden shiner				34					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	13	Hogchoker				449					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	14	Tessellated darter				15					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	15	Banded killifish				187					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	16	Emerald shiner				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	17	Largemouth bass				29					27	68.05	90	234.23	3-Jan-82	29-Mar-82

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Year	Unit	Strata	Taxon	Common_Name	EstY0Y	EstYRLNG	EstYROL	EstComb	SEY0Y	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1982	3	Winter	18	Mummichog				5					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	19	Atlantic menhaden				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	21	Chain pickerel				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	22	Blueback herring				5					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	23	White sucker				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	24	Atlantic silverside				5					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	25	Rainbow smelt				68					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	26	Smallmouth bass				33					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	27	Shortnose sturgeon				0.00					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	28	Spottail shiner				346					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	29	Atlantic sturgeon				1.41					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	30	Striped bass				49,350					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	31	Fourspine stickleback				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	32	Atlantic tomcod				964					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	34	White catfish				292					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	35	White perch				639,192					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	36	Yellow perch				230					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	37	Satinfish shiner				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	38	Rock bass				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	39	Northern pipefish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	40	Redbreast sunfish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	41	Atlantic needlefish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	42	Crevalle jack				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	45	Weakfish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	47	Common shiner				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	49	Lookdown				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	50	Herring family				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	54	Lined seahorse				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	55	Logperch				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	58	Fathead minnow				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	59	Carp and minnow family				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	60	Morone species				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	62	Tautog				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	63	Fourbeard rockling				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	64	Striped cusk-eel				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	67	Spot				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	68	Atlantic moonfish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	71	Scup				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	72	Winter flounder				29					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	73	Inland silverside				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	74	Sea lamprey				5					27	68.05	90	234.23	3-Jan-82	29-Mar-82

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Year	Unit	Strata	Taxon	Common_Name	EstY0Y	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1982	3	Winter	75	Gizzard shad				1,961					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	76	Silver hake				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	77	Striped mullet				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	78	Threespine stickleback				150					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	79	Brown trout				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	80	Butterfish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	81	White crappie				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	83	Northern pike				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	84	Green sunfish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	85	Silver perch				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	86	Northern puffer				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	96	Sunfish family				310					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	98	Red hake				10					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	100	Central mudminnow				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	101	Grubby				5					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	102	Eastern mudminnow				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	103	White bass				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	104	Rough silverside				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	105	Longear sunfish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	106	Summer flounder				5					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	108	Creek chub				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	109	Black bullhead				10					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	110	Striped searobin				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	111	Northern searobin				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	113	Atlantic croaker				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	114	Longhorn sculpin				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	116	Hickory shad				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	120	Conger eel				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	122	Warmouth				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	125	White mullet				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	126	Yellow bullhead				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	127	Channel catfish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	130	Naked goby				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	132	Windowpane				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	133	Spotted hake				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	136	Northern stargazer				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	137	American sand lance				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	139	Fourspot flounder				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	140	Atlantic mackerel				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	141	Black sea bass				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	142	Smallmouth flounder				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82

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1982	3	Winter	143	Rock gunnel				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	144	Inshore lizardfish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	146	Silver lamprey				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	150	Goby family				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	157	New World silverside family				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	159	Sand flounder family				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	161	Pipefish family				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	162	Mackerel scad				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	164	Cunner				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	169	Gray snapper				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	172	Bigeye scad				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	173	Striped burrfish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	177	Spotfin butterflyfish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	179	Planehead filefish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	180	Atlantic cutlassfish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	181	Pigfish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	184	Freckled blenny				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	187	Margined madtom				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	205	Freshwater drum				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	206	King mackerel				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	209	Highfin goby				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	213	Oyster toadfish				0					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Winter	999	All fish taxa				695,710.41					27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Spring	1	Alewife				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	2	Bay anchovy				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	3	American shad				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	4	Bluefish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	5	Bluegill				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	6	Brown bullhead				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	7	Pumpkinseed				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	8	Black crappie				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	9	Common carp				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	10	American eel				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	11	Goldfish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	12	Golden shiner				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	13	Hogchoker				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	14	Tessellated darter				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	15	Banded killifish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	16	Emerald shiner				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	17	Largemouth bass				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	18	Mummichog				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	19	Atlantic menhaden				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82

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1982	3	Spring	21	Chain pickerel				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	22	Blueback herring				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	23	White sucker				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	24	Atlantic silverside				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	25	Rainbow smelt				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	26	Smallmouth bass				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	27	Shortnose sturgeon				0.00					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	28	Spottail shiner				15					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	29	Atlantic sturgeon				0.00					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	30	Striped bass				15					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	31	Fourspine stickleback				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	32	Atlantic tomcod				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	34	White catfish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	35	White perch				267					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	36	Yellow perch				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	37	Satinfin shiner				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	38	Rock bass				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	39	Northern pipefish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	40	Redbreast sunfish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	41	Atlantic needlefish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	42	Crevalle jack				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	45	Weakfish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	47	Common shiner				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	49	Lookdown				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	50	Herring family				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	54	Lined seahorse				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	55	Logperch				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	58	Fathead minnow				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	59	Carp and minnow family				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	60	Morone species				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	62	Tautog				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	63	Fourbeard rockling				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	64	Striped cusk-eel				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	67	Spot				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	68	Atlantic moonfish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	71	Scup				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	72	Winter flounder				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	73	Inland silverside				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	74	Sea lamprey				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	75	Gizzard shad				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	76	Silver hake				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1982	3	Spring	77	Striped mullet				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	78	Threespine stickleback				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	79	Brown trout				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	80	Butterfish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	81	White crappie				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	83	Northern pike				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	84	Green sunfish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	85	Silver perch				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	86	Northern puffer				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	96	Sunfish family				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	98	Red hake				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	100	Central mudminnow				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	101	Grubby				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	102	Eastern mudminnow				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	103	White bass				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	104	Rough silverside				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	105	Longear sunfish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	106	Summer flounder				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	108	Creek chub				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	109	Black bullhead				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	110	Striped searobin				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	111	Northern searobin				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	113	Atlantic croaker				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	114	Longhorn sculpin				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	116	Hickory shad				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	120	Conger eel				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	122	Warmouth				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	125	White mullet				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	126	Yellow bullhead				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	127	Channel catfish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	130	Naked goby				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	132	Windowpane				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	133	Spotted hake				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	136	Northern stargazer				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	137	American sand lance				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	139	Fourspot flounder				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	140	Atlantic mackerel				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	141	Black sea bass				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	142	Smallmouth flounder				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	143	Rock gunnel				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	144	Inshore lizardfish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82

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1982	3	Spring	146	Silver lamprey				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	150	Goby family				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	157	New World silverside family				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	159	Sand flounder family				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	161	Pipefish family				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	162	Mackerel scad				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	164	Cunner				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	169	Gray snapper				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	172	Bigeye scad				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	173	Striped burrfish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	177	Spotfin butterflyfish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	179	Planehead filefish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	180	Atlantic cutlassfish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	181	Pigfish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	184	Freckled blenny				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	187	Margined madtom				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	205	Freshwater drum				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	206	King mackerel				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	209	Highfin goby				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	213	Oyster toadfish				0					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Spring	999	All fish taxa				297.00					1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Summer	1	Alewife									0	0	5	0.85		
1982	3	Summer	2	Bay anchovy									0	0	5	0.85		
1982	3	Summer	3	American shad									0	0	5	0.85		
1982	3	Summer	4	Bluefish									0	0	5	0.85		
1982	3	Summer	5	Bluegill									0	0	5	0.85		
1982	3	Summer	6	Brown bullhead									0	0	5	0.85		
1982	3	Summer	7	Pumpkinseed									0	0	5	0.85		
1982	3	Summer	8	Black crappie									0	0	5	0.85		
1982	3	Summer	9	Common carp									0	0	5	0.85		
1982	3	Summer	10	American eel									0	0	5	0.85		
1982	3	Summer	11	Goldfish									0	0	5	0.85		
1982	3	Summer	12	Golden shiner									0	0	5	0.85		
1982	3	Summer	13	Hogchoker									0	0	5	0.85		
1982	3	Summer	14	Tessellated darter									0	0	5	0.85		
1982	3	Summer	15	Banded killifish									0	0	5	0.85		
1982	3	Summer	16	Emerald shiner									0	0	5	0.85		
1982	3	Summer	17	Largemouth bass									0	0	5	0.85		
1982	3	Summer	18	Mummichog									0	0	5	0.85		
1982	3	Summer	19	Atlantic menhaden									0	0	5	0.85		
1982	3	Summer	21	Chain pickerel									0	0	5	0.85		
1982	3	Summer	22	Blueback herring									0	0	5	0.85		

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1982	3	Summer	23	White sucker									0	0	5	0.85		
1982	3	Summer	24	Atlantic silverside									0	0	5	0.85		
1982	3	Summer	25	Rainbow smelt									0	0	5	0.85		
1982	3	Summer	26	Smallmouth bass									0	0	5	0.85		
1982	3	Summer	27	Shortnose sturgeon									0	0	5	0.85		
1982	3	Summer	28	Spottail shiner									0	0	5	0.85		
1982	3	Summer	29	Atlantic sturgeon									0	0	5	0.85		
1982	3	Summer	30	Striped bass									0	0	5	0.85		
1982	3	Summer	31	Fourspine stickleback									0	0	5	0.85		
1982	3	Summer	32	Atlantic tomcod									0	0	5	0.85		
1982	3	Summer	34	White catfish									0	0	5	0.85		
1982	3	Summer	35	White perch									0	0	5	0.85		
1982	3	Summer	36	Yellow perch									0	0	5	0.85		
1982	3	Summer	37	Satinfin shiner									0	0	5	0.85		
1982	3	Summer	38	Rock bass									0	0	5	0.85		
1982	3	Summer	39	Northern pipefish									0	0	5	0.85		
1982	3	Summer	40	Redbreast sunfish									0	0	5	0.85		
1982	3	Summer	41	Atlantic needlefish									0	0	5	0.85		
1982	3	Summer	42	Creville jack									0	0	5	0.85		
1982	3	Summer	45	Weakfish									0	0	5	0.85		
1982	3	Summer	47	Common shiner									0	0	5	0.85		
1982	3	Summer	49	Lookdown									0	0	5	0.85		
1982	3	Summer	50	Herring family									0	0	5	0.85		
1982	3	Summer	54	Lined seahorse									0	0	5	0.85		
1982	3	Summer	55	Logperch									0	0	5	0.85		
1982	3	Summer	58	Fathead minnow									0	0	5	0.85		
1982	3	Summer	59	Carp and minnow family									0	0	5	0.85		
1982	3	Summer	60	Morone species									0	0	5	0.85		
1982	3	Summer	62	Tautog									0	0	5	0.85		
1982	3	Summer	63	Fourbeard rockling									0	0	5	0.85		
1982	3	Summer	64	Striped cusk-eel									0	0	5	0.85		
1982	3	Summer	67	Spot									0	0	5	0.85		
1982	3	Summer	68	Atlantic moonfish									0	0	5	0.85		
1982	3	Summer	71	Scup									0	0	5	0.85		
1982	3	Summer	72	Winter flounder									0	0	5	0.85		
1982	3	Summer	73	Inland silverside									0	0	5	0.85		
1982	3	Summer	74	Sea lamprey									0	0	5	0.85		
1982	3	Summer	75	Gizzard shad									0	0	5	0.85		
1982	3	Summer	76	Silver hake									0	0	5	0.85		
1982	3	Summer	77	Striped mullet									0	0	5	0.85		

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1982	3	Summer	78	Threespine stickleback									0	0	5	0.85		
1982	3	Summer	79	Brown trout									0	0	5	0.85		
1982	3	Summer	80	Butterfish									0	0	5	0.85		
1982	3	Summer	81	White crappie									0	0	5	0.85		
1982	3	Summer	83	Northern pike									0	0	5	0.85		
1982	3	Summer	84	Green sunfish									0	0	5	0.85		
1982	3	Summer	85	Silver perch									0	0	5	0.85		
1982	3	Summer	86	Northern puffer									0	0	5	0.85		
1982	3	Summer	96	Sunfish family									0	0	5	0.85		
1982	3	Summer	98	Red hake									0	0	5	0.85		
1982	3	Summer	100	Central mudminnow									0	0	5	0.85		
1982	3	Summer	101	Grubby									0	0	5	0.85		
1982	3	Summer	102	Eastern mudminnow									0	0	5	0.85		
1982	3	Summer	103	White bass									0	0	5	0.85		
1982	3	Summer	104	Rough silverside									0	0	5	0.85		
1982	3	Summer	105	Longear sunfish									0	0	5	0.85		
1982	3	Summer	106	Summer flounder									0	0	5	0.85		
1982	3	Summer	108	Creek chub									0	0	5	0.85		
1982	3	Summer	109	Black bullhead									0	0	5	0.85		
1982	3	Summer	110	Striped searobin									0	0	5	0.85		
1982	3	Summer	111	Northern searobin									0	0	5	0.85		
1982	3	Summer	113	Atlantic croaker									0	0	5	0.85		
1982	3	Summer	114	Longhorn sculpin									0	0	5	0.85		
1982	3	Summer	116	Hickory shad									0	0	5	0.85		
1982	3	Summer	120	Conger eel									0	0	5	0.85		
1982	3	Summer	122	Warmouth									0	0	5	0.85		
1982	3	Summer	125	White mullet									0	0	5	0.85		
1982	3	Summer	126	Yellow bullhead									0	0	5	0.85		
1982	3	Summer	127	Channel catfish									0	0	5	0.85		
1982	3	Summer	130	Naked goby									0	0	5	0.85		
1982	3	Summer	132	Windowpane									0	0	5	0.85		
1982	3	Summer	133	Spotted hake									0	0	5	0.85		
1982	3	Summer	136	Northern stargazer									0	0	5	0.85		
1982	3	Summer	137	American sand lance									0	0	5	0.85		
1982	3	Summer	139	Fourspot flounder									0	0	5	0.85		
1982	3	Summer	140	Atlantic mackerel									0	0	5	0.85		
1982	3	Summer	141	Black sea bass									0	0	5	0.85		
1982	3	Summer	142	Smallmouth flounder									0	0	5	0.85		
1982	3	Summer	143	Rock gunnel									0	0	5	0.85		
1982	3	Summer	144	Inshore lizardfish									0	0	5	0.85		
1982	3	Summer	146	Silver lamprey									0	0	5	0.85		

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1982	3	Summer	150	Goby family									0	0	5	0.85		
1982	3	Summer	157	New World silverside family									0	0	5	0.85		
1982	3	Summer	159	Sand flounder family									0	0	5	0.85		
1982	3	Summer	161	Pipefish family									0	0	5	0.85		
1982	3	Summer	162	Mackerel scad									0	0	5	0.85		
1982	3	Summer	164	Cunner									0	0	5	0.85		
1982	3	Summer	169	Gray snapper									0	0	5	0.85		
1982	3	Summer	172	Bigeye scad									0	0	5	0.85		
1982	3	Summer	173	Striped burrfish									0	0	5	0.85		
1982	3	Summer	177	Spotfin butterflyfish									0	0	5	0.85		
1982	3	Summer	179	Planehead filefish									0	0	5	0.85		
1982	3	Summer	180	Atlantic cutlassfish									0	0	5	0.85		
1982	3	Summer	181	Pigfish									0	0	5	0.85		
1982	3	Summer	184	Freckled blenny									0	0	5	0.85		
1982	3	Summer	187	Margined madtom									0	0	5	0.85		
1982	3	Summer	205	Freshwater drum									0	0	5	0.85		
1982	3	Summer	206	King mackerel									0	0	5	0.85		
1982	3	Summer	209	Highfin goby									0	0	5	0.85		
1982	3	Summer	213	Oyster toadfish									0	0	5	0.85		
1982	3	Summer	999	All fish taxa									0	0	5	0.85		
1982	3	Fall	1	Alewife				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	2	Bay anchovy				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	3	American shad				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	4	Bluefish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	5	Bluegill				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	6	Brown bullhead				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	7	Pumpkinseed				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	8	Black crappie				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	9	Common carp				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	10	American eel				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	11	Goldfish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	12	Golden shiner				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	13	Hogchoker				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	14	Tessellated darter				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	15	Banded killifish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	16	Emerald shiner				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	17	Largemouth bass				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	18	Mummichog				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	19	Atlantic menhaden				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	21	Chain pickerel				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	22	Blueback herring				106					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	23	White sucker				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1982	3	Fall	24	Atlantic silverside				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	25	Rainbow smelt				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	26	Smallmouth bass				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	27	Shortnose sturgeon				0.00					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	28	Spottail shiner				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	29	Atlantic sturgeon				0.00					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	30	Striped bass				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	31	Fourspine stickleback				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	32	Atlantic tomcod				13					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	34	White catfish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	35	White perch				31					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	36	Yellow perch				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	37	Satinfin shiner				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	38	Rock bass				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	39	Northern pipefish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	40	Redbreast sunfish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	41	Atlantic needlefish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	42	Crevalle jack				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	45	Weakfish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	47	Common shiner				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	49	Lookdown				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	50	Herring family				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	54	Lined seahorse				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	55	Logperch				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	58	Fathead minnow				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	59	Carp and minnow family				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	60	Morone species				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	62	Tautog				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	63	Fourbeard rockling				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	64	Striped cusk-eel				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	67	Spot				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	68	Atlantic moonfish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	71	Scup				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	72	Winter flounder				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	73	Inland silverside				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	74	Sea lamprey				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	75	Gizzard shad				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	76	Silver hake				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	77	Striped mullet				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	78	Threespine stickleback				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82

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1982	3	Fall	79	Brown trout				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	80	Butterfish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	81	White crappie				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	83	Northern pike				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	84	Green sunfish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	85	Silver perch				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	86	Northern puffer				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	96	Sunfish family				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	98	Red hake				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	100	Central mudminnow				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	101	Grubby				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	102	Eastern mudminnow				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	103	White bass				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	104	Rough silverside				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	105	Longear sunfish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	106	Summer flounder				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	108	Creek chub				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	109	Black bullhead				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	110	Striped searobin				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	111	Northern searobin				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	113	Atlantic croaker				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	114	Longhorn sculpin				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	116	Hickory shad				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	120	Conger eel				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	122	Warmouth				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	125	White mullet				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	126	Yellow bullhead				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	127	Channel catfish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	130	Naked goby				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	132	Windowpane				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	133	Spotted hake				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	136	Northern stargazer				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	137	American sand lance				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	139	Fourspot flounder				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	140	Atlantic mackerel				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	141	Black sea bass				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	142	Smallmouth flounder				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	143	Rock gunnel				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	144	Inshore lizardfish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	146	Silver lamprey				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	150	Goby family				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82

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1982	3	Fall	157	New World silverside family				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	159	Sand flounder family				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	161	Pipefish family				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	162	Mackerel scad				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	164	Cunner				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	169	Gray snapper				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	172	Bigeeye scad				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	173	Striped burrfish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	177	Spotfin butterflyfish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	179	Planehead filefish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	180	Atlantic cutlassfish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	181	Pigfish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	184	Freckled blenny				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	187	Margined madtom				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	205	Freshwater drum				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	206	King mackerel				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	209	Highfin goby				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	213	Oyster toadfish				0					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Fall	999	All fish taxa				150.00					8	6.08	30	11.76	26-Oct-82	7-Nov-82
1983	2	Winter	1	Alewife				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	2	Bay anchovy				135					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	3	American shad				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	4	Bluefish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	5	Bluegill				41					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	6	Brown bullhead				29					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	7	Pumpkinseed				86					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	8	Black crappie				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	9	Common carp				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	10	American eel				140					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	11	Goldfish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	12	Golden shiner				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	13	Hogchoker				58					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	14	Tessellated darter				41					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	15	Banded killifish				46					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	16	Emerald shiner				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	17	Largemouth bass				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	18	Mummichog				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	19	Atlantic menhaden				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	21	Chain pickerel				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	22	Blueback herring				24					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	23	White sucker				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	24	Atlantic silverside				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83

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1983	2	Winter	25	Rainbow smelt				714					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	26	Smallmouth bass				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	27	Shortnose sturgeon				0.00					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	28	Spottail shiner				249					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	29	Atlantic sturgeon				0.00					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	30	Striped bass				10,983					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	31	Fourspine stickleback				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	32	Atlantic tomcod				3,347					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	34	White catfish				70					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	35	White perch				152,368					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	36	Yellow perch				23					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	37	Satinfin shiner				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	38	Rock bass				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	39	Northern pipefish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	40	Redbreast sunfish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	41	Atlantic needlefish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	42	Crevalle jack				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	45	Weakfish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	47	Common shiner				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	49	Lookdown				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	50	Herring family				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	54	Lined seahorse				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	55	Logperch				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	58	Fathead minnow				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	59	Carp and minnow family				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	60	Morone species				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	62	Tautog				6					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	63	Fourbeard rockling				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	64	Striped cusk-eel				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	67	Spot				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	68	Atlantic moonfish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	71	Scup				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	72	Winter flounder				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	73	Inland silverside				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	74	Sea lamprey				12					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	75	Gizzard shad				524					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	76	Silver hake				35					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	77	Striped mullet				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	78	Threespine stickleback				17					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	79	Brown trout				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83

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1983	2	Winter	80	Butterfish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	81	White crappie				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	83	Northern pike				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	84	Green sunfish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	85	Silver perch				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	86	Northern puffer				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	96	Sunfish family				90					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	98	Red hake				90					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	100	Central mudminnow				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	101	Grubby				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	102	Eastern mudminnow				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	103	White bass				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	104	Rough silverside				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	105	Longear sunfish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	106	Summer flounder				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	108	Creek chub				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	109	Black bullhead				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	110	Striped searobin				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	111	Northern searobin				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	113	Atlantic croaker				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	114	Longhorn sculpin				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	116	Hickory shad				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	120	Conger eel				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	122	Warmouth				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	125	White mullet				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	126	Yellow bullhead				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	127	Channel catfish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	130	Naked goby				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	132	Windowpane				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	133	Spotted hake				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	136	Northern stargazer				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	137	American sand lance				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	139	Fourspot flounder				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	140	Atlantic mackerel				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	141	Black sea bass				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	142	Smallmouth flounder				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	143	Rock gunnel				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	144	Inshore lizardfish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	146	Silver lamprey				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	150	Goby family				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	157	New World silverside family				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1983	2	Winter	159	Sand flounder family				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	161	Pipefish family				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	162	Mackerel scad				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	164	Cunner				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	169	Gray snapper				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	172	Bigeye scad				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	173	Striped burrfish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	177	Spotfin butterflyfish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	179	Planehead filefish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	180	Atlantic cutlassfish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	181	Pigfish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	184	Freckled blenny				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	187	Marginated madtom				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	205	Freshwater drum				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	206	King mackerel				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	209	Highfin goby				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	213	Oyster toadfish				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	754	Blue crab				0					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Winter	999	All fish taxa				169,128.00					30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Spring	1	Alewife				204					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	2	Bay anchovy				1,271					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	3	American shad				24					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	4	Bluefish				4,628					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	5	Bluegill				26					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	6	Brown bullhead				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	7	Pumpkinseed				143					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	8	Black crappie				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	9	Common carp				23					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	10	American eel				572					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	11	Goldfish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	12	Golden shiner				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	13	Hogchoker				16,932					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	14	Tessellated darter				219					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	15	Banded killifish				96					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	16	Emerald shiner				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	17	Largemouth bass				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	18	Mummichog				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	19	Atlantic menhaden				91					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	21	Chain pickerel				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	22	Blueback herring				719					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	23	White sucker				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	24	Atlantic silverside				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	25	Rainbow smelt				1,209					10	39.75	91	361.17	3-Apr-83	28-Jun-83

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1983	2	Spring	26	Smallmouth bass				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	27	Shortnose sturgeon				0.00					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	28	Spottail shiner				96					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	29	Atlantic sturgeon				0.00					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	30	Striped bass				100					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	31	Fourspine stickleback				24					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	32	Atlantic tomcod				48,945					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	34	White catfish				274					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	35	White perch				41,945					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	36	Yellow perch				20					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	37	Satinfin shiner				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	38	Rock bass				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	39	Northern pipefish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	40	Redbreast sunfish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	41	Atlantic needlefish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	42	Crevalle jack				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	45	Weakfish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	47	Common shiner				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	49	Lookdown				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	50	Herring family				30					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	54	Lined seahorse				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	55	Logperch				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	58	Fathead minnow				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	59	Carp and minnow family				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	60	Morone species				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	62	Tautog				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	63	Fourbeard rockling				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	64	Striped cusk-eel				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	67	Spot				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	68	Atlantic moonfish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	71	Scup				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	72	Winter flounder				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	73	Inland silverside				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	74	Sea lamprey				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	75	Gizzard shad				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	76	Silver hake				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	77	Striped mullet				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	78	Threespine stickleback				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	79	Brown trout				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	80	Butterfish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1983	2	Spring	81	White crappie				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	83	Northern pike				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	84	Green sunfish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	85	Silver perch				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	86	Northern puffer				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	96	Sunfish family				46					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	98	Red hake				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	100	Central mudminnow				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	101	Grubby				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	102	Eastern mudminnow				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	103	White bass				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	104	Rough silverside				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	105	Longear sunfish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	106	Summer flounder				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	108	Creek chub				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	109	Black bullhead				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	110	Striped searobin				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	111	Northern searobin				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	113	Atlantic croaker				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	114	Longhorn sculpin				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	116	Hickory shad				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	120	Conger eel				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	122	Wormouth				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	125	White mullet				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	126	Yellow bullhead				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	127	Channel catfish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	130	Naked goby				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	132	Windowpane				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	133	Spotted hake				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	136	Northern stargazer				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	137	American sand lance				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	139	Fourspot flounder				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	140	Atlantic mackerel				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	141	Black sea bass				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	142	Smallmouth flounder				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	143	Rock gunnel				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	144	Inshore lizardfish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	146	Silver lamprey				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	150	Goby family				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	157	New World silverside family				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	159	Sand flounder family				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1983	2	Spring	161	Pipefish family				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	162	Mackerel scad				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	164	Cunner				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	169	Gray snapper				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	172	Bigeye scad				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	173	Striped burrfish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	177	Spotfin butterflyfish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	179	Planehead filefish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	180	Atlantic cutlassfish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	181	Pigfish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	184	Freckled blenny				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	187	Margined madtom				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	205	Freshwater drum				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	206	King mackerel				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	209	Highfin goby				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	213	Oyster toadfish				0					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	754	Blue crab				41					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Spring	999	All fish taxa				117,638.00					10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Summer	1	Alewife				4,229					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	2	Bay anchovy				120,494					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	3	American shad				8,292					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	4	Bluefish				2,615					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	5	Bluegill				29					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	6	Brown bullhead				463					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	7	Pumpkinseed				82					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	8	Black crappie				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	9	Common carp				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	10	American eel				343					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	11	Goldfish				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	12	Golden shiner				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	13	Hogchoker				2,932					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	14	Tessellated darter				54					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	15	Banded killifish				29					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	16	Emerald shiner				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	17	Largemouth bass				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	18	Mummichog				25					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	19	Atlantic menhaden				30					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	21	Chain pickerel				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	22	Blueback herring				36,286					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	23	White sucker				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	24	Atlantic silverside				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	25	Rainbow smelt				217					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	26	Smallmouth bass				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83

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1983	2	Summer	27	Shortnose sturgeon				0.00					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	28	Spottail shiner				29					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	29	Atlantic sturgeon				0.00					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	30	Striped bass				4,669					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	31	Fourspine stickleback				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	32	Atlantic tomcod				64,218					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	34	White catfish				200					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	35	White perch				22,469					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	36	Yellow perch				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	37	Satinfin shiner				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	38	Rock bass				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	39	Northern pipefish				1,647					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	40	Redbreast sunfish				29					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	41	Atlantic needlefish				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	42	Crevalle jack				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	45	Weakfish				174,016					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	47	Common shiner				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	49	Lookdown				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	50	Herring family				977					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	54	Lined seahorse				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	55	Logperch				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	58	Fathead minnow				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	59	Carp and minnow family				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	60	Morone species				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	62	Tautog				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	63	Fourbeard rockling				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	64	Striped cusk-eel				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	67	Spot				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	68	Atlantic moonfish				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	71	Scup				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	72	Winter flounder				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	73	Inland silverside				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	74	Sea lamprey				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	75	Gizzard shad				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	76	Silver hake				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	77	Striped mullet				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	78	Threespine stickleback				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	79	Brown trout				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	80	Butterfish				1,638					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	81	White crappie				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83

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1983	2	Summer	83	Northern pike				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	84	Green sunfish				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	85	Silver perch				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	86	Northern puffer				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	96	Sunfish family				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	98	Red hake				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	100	Central mudminnow				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	101	Grubby				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	102	Eastern mudminnow				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	103	White bass				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	104	Rough silverside				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	105	Longear sunfish				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	106	Summer flounder				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	108	Creek chub				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	109	Black bullhead				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	110	Striped searobin				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	111	Northern searobin				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	113	Atlantic croaker				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	114	Longhorn sculpin				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	116	Hickory shad				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	120	Conger eel				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	122	Warmouth				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	125	White mullet				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	126	Yellow bullhead				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	127	Channel catfish				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	130	Naked goby				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	132	Windowpane				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	133	Spotted hake				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	136	Northern stargazer				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	137	American sand lance				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	139	Fourspot flounder				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	140	Atlantic mackerel				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	141	Black sea bass				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	142	Smallmouth flounder				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	143	Rock gunnel				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	144	Inshore lizardfish				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	146	Silver lamprey				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	150	Goby family				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	157	New World silverside family				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	159	Sand flounder family				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	161	Pipefish family				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83

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1983	2	Summer	162	Mackerel scad				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	164	Cunner				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	169	Gray snapper				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	172	Bigeye scad				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	173	Striped burrfish				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	177	Spotfin butterflyfish				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	179	Planehead filefish				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	180	Atlantic cutlassfish				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	181	Pigfish				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	184	Freckled blenny				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	187	Margined madtom				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	205	Freshwater drum				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	206	King mackerel				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	209	Highfin goby				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	213	Oyster toadfish				0					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	754	Blue crab				708					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Summer	999	All fish taxa				446,012.00					11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Fall	1	Alewife				116					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	2	Bay anchovy				6,727					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	3	American shad				188					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	4	Bluefish				26					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	5	Bluegill				189					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	6	Brown bullhead				36					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	7	Pumpkinseed				279					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	8	Black crappie				10					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	9	Common carp				2					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	10	American eel				124					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	11	Goldfish				3					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	12	Golden shiner				17					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	13	Hogchoker				2,254					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	14	Tessellated darter				32					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	15	Banded killifish				88					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	16	Emerald shiner				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	17	Largemouth bass				34					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	18	Mummichog				2					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	19	Atlantic menhaden				15					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	21	Chain pickerel				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	22	Blueback herring				9,825					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	23	White sucker				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	24	Atlantic silverside				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	25	Rainbow smelt				55					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	26	Smallmouth bass				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	27	Shortnose sturgeon				0.00					60	165.42	73	214.21	3-Oct-83	31-Dec-83

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1983	2	Fall	28	Spottail shiner				722					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	29	Atlantic sturgeon				6.11					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	30	Striped bass				3,271					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	31	Fourspine stickleback				12					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	32	Atlantic tomcod				724					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	34	White catfish				1,149					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	35	White perch				58,116					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	36	Yellow perch				61					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	37	Satinfin shiner				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	38	Rock bass				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	39	Northern pipefish				1,165					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	40	Redbreast sunfish				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	41	Atlantic needlefish				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	42	Crevalle jack				35					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	45	Weakfish				975					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	47	Common shiner				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	49	Lookdown				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	50	Herring family				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	54	Lined seahorse				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	55	Logperch				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	58	Fathead minnow				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	59	Carp and minnow family				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	60	Morone species				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	62	Tautog				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	63	Fourbeard rockling				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	64	Striped cusk-eel				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	67	Spot				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	68	Atlantic moonfish				3					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	71	Scup				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	72	Winter flounder				6					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	73	Inland silverside				85					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	74	Sea lamprey				5					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	75	Gizzard shad				1,292					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	76	Silver hake				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	77	Striped mullet				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	78	Threespine stickleback				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	79	Brown trout				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	80	Butterfish				115					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	81	White crappie				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	83	Northern pike				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83

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1983	2	Fall	84	Green sunfish				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	85	Silver perch				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	86	Northern puffer				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	96	Sunfish family				30					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	98	Red hake				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	100	Central mudminnow				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	101	Grubby				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	102	Eastern mudminnow				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	103	White bass				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	104	Rough silverside				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	105	Longear sunfish				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	106	Summer flounder				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	108	Creek chub				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	109	Black bullhead				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	110	Striped searobin				15					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	111	Northern searobin				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	113	Atlantic croaker				13					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	114	Longhorn sculpin				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	116	Hickory shad				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	120	Conger eel				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	122	Warmouth				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	125	White mullet				3					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	126	Yellow bullhead				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	127	Channel catfish				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	130	Naked goby				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	132	Windowpane				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	133	Spotted hake				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	136	Northern stargazer				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	137	American sand lance				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	139	Fourspot flounder				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	140	Atlantic mackerel				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	141	Black sea bass				19					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	142	Smallmouth flounder				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	143	Rock gunnel				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	144	Inshore lizardfish				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	146	Silver lamprey				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	150	Goby family				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	157	New World silverside family				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	159	Sand flounder family				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	161	Pipefish family				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	162	Mackerel scad				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1983	2	Fall	164	Cunner				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	169	Gray snapper				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	172	Bigeye scad				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	173	Striped burrfish				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	177	Spotfin butterflyfish				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	179	Planehead filefish				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	180	Atlantic cutlassfish				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	181	Pigfish				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	184	Freckled blenny				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	187	Margined madtom				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	205	Freshwater drum				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	206	King mackerel				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	209	Highfin goby				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	213	Oyster toadfish				0					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	754	Blue crab				41					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Fall	999	All fish taxa				87,844.11					60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	3	Winter	1	Alewife									0	0	0	0		
1983	3	Winter	2	Bay anchovy									0	0	0	0		
1983	3	Winter	3	American shad									0	0	0	0		
1983	3	Winter	4	Bluefish									0	0	0	0		
1983	3	Winter	5	Bluegill									0	0	0	0		
1983	3	Winter	6	Brown bullhead									0	0	0	0		
1983	3	Winter	7	Pumpkinseed									0	0	0	0		
1983	3	Winter	8	Black crappie									0	0	0	0		
1983	3	Winter	9	Common carp									0	0	0	0		
1983	3	Winter	10	American eel									0	0	0	0		
1983	3	Winter	11	Goldfish									0	0	0	0		
1983	3	Winter	12	Golden shiner									0	0	0	0		
1983	3	Winter	13	Hogchoker									0	0	0	0		
1983	3	Winter	14	Tessellated darter									0	0	0	0		
1983	3	Winter	15	Banded killifish									0	0	0	0		
1983	3	Winter	16	Emerald shiner									0	0	0	0		
1983	3	Winter	17	Largemouth bass									0	0	0	0		
1983	3	Winter	18	Mummichog									0	0	0	0		
1983	3	Winter	19	Atlantic menhaden									0	0	0	0		
1983	3	Winter	21	Chain pickerel									0	0	0	0		
1983	3	Winter	22	Blueback herring									0	0	0	0		
1983	3	Winter	23	White sucker									0	0	0	0		
1983	3	Winter	24	Atlantic silverside									0	0	0	0		
1983	3	Winter	25	Rainbow smelt									0	0	0	0		
1983	3	Winter	26	Smallmouth bass									0	0	0	0		
1983	3	Winter	27	Shortnose sturgeon									0	0	0	0		
1983	3	Winter	28	Spottail shiner									0	0	0	0		

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1983	3	Winter	29	Atlantic sturgeon									0	0	0	0		
1983	3	Winter	30	Striped bass									0	0	0	0		
1983	3	Winter	31	Fourspine stickleback									0	0	0	0		
1983	3	Winter	32	Atlantic tomcod									0	0	0	0		
1983	3	Winter	34	White catfish									0	0	0	0		
1983	3	Winter	35	White perch									0	0	0	0		
1983	3	Winter	36	Yellow perch									0	0	0	0		
1983	3	Winter	37	Satinfin shiner									0	0	0	0		
1983	3	Winter	38	Rock bass									0	0	0	0		
1983	3	Winter	39	Northern pipefish									0	0	0	0		
1983	3	Winter	40	Redbreast sunfish									0	0	0	0		
1983	3	Winter	41	Atlantic needlefish									0	0	0	0		
1983	3	Winter	42	Crevale jack									0	0	0	0		
1983	3	Winter	45	Weakfish									0	0	0	0		
1983	3	Winter	47	Common shiner									0	0	0	0		
1983	3	Winter	49	Lookdown									0	0	0	0		
1983	3	Winter	50	Herring family									0	0	0	0		
1983	3	Winter	54	Lined seahorse									0	0	0	0		
1983	3	Winter	55	Logperch									0	0	0	0		
1983	3	Winter	58	Fathead minnow									0	0	0	0		
1983	3	Winter	59	Carp and minnow family									0	0	0	0		
1983	3	Winter	60	Morone species									0	0	0	0		
1983	3	Winter	62	Tautog									0	0	0	0		
1983	3	Winter	63	Fourbeard rockling									0	0	0	0		
1983	3	Winter	64	Striped cusk-eel									0	0	0	0		
1983	3	Winter	67	Spot									0	0	0	0		
1983	3	Winter	68	Atlantic moonfish									0	0	0	0		
1983	3	Winter	71	Scup									0	0	0	0		
1983	3	Winter	72	Winter flounder									0	0	0	0		
1983	3	Winter	73	Inland silverside									0	0	0	0		
1983	3	Winter	74	Sea lamprey									0	0	0	0		
1983	3	Winter	75	Gizzard shad									0	0	0	0		
1983	3	Winter	76	Silver hake									0	0	0	0		
1983	3	Winter	77	Striped mullet									0	0	0	0		
1983	3	Winter	78	Threespine stickleback									0	0	0	0		
1983	3	Winter	79	Brown trout									0	0	0	0		
1983	3	Winter	80	Butterfish									0	0	0	0		
1983	3	Winter	81	White crappie									0	0	0	0		
1983	3	Winter	83	Northern pike									0	0	0	0		
1983	3	Winter	84	Green sunfish									0	0	0	0		

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1983	3	Winter	85	Silver perch									0	0	0	0		
1983	3	Winter	86	Northern puffer									0	0	0	0		
1983	3	Winter	96	Sunfish family									0	0	0	0		
1983	3	Winter	98	Red hake									0	0	0	0		
1983	3	Winter	100	Central mudminnow									0	0	0	0		
1983	3	Winter	101	Grubby									0	0	0	0		
1983	3	Winter	102	Eastern mudminnow									0	0	0	0		
1983	3	Winter	103	White bass									0	0	0	0		
1983	3	Winter	104	Rough silverside									0	0	0	0		
1983	3	Winter	105	Longear sunfish									0	0	0	0		
1983	3	Winter	106	Summer flounder									0	0	0	0		
1983	3	Winter	108	Creek chub									0	0	0	0		
1983	3	Winter	109	Black bullhead									0	0	0	0		
1983	3	Winter	110	Striped searobin									0	0	0	0		
1983	3	Winter	111	Northern searobin									0	0	0	0		
1983	3	Winter	113	Atlantic croaker									0	0	0	0		
1983	3	Winter	114	Longhorn sculpin									0	0	0	0		
1983	3	Winter	116	Hickory shad									0	0	0	0		
1983	3	Winter	120	Conger eel									0	0	0	0		
1983	3	Winter	122	Warmouth									0	0	0	0		
1983	3	Winter	125	White mullet									0	0	0	0		
1983	3	Winter	126	Yellow bullhead									0	0	0	0		
1983	3	Winter	127	Channel catfish									0	0	0	0		
1983	3	Winter	130	Naked goby									0	0	0	0		
1983	3	Winter	132	Windowpane									0	0	0	0		
1983	3	Winter	133	Spotted hake									0	0	0	0		
1983	3	Winter	136	Northern stargazer									0	0	0	0		
1983	3	Winter	137	American sand lance									0	0	0	0		
1983	3	Winter	139	Fourspot flounder									0	0	0	0		
1983	3	Winter	140	Atlantic mackerel									0	0	0	0		
1983	3	Winter	141	Black sea bass									0	0	0	0		
1983	3	Winter	142	Smallmouth flounder									0	0	0	0		
1983	3	Winter	143	Rock gunnel									0	0	0	0		
1983	3	Winter	144	Inshore lizardfish									0	0	0	0		
1983	3	Winter	146	Silver lamprey									0	0	0	0		
1983	3	Winter	150	Goby family									0	0	0	0		
1983	3	Winter	157	New World silverside family									0	0	0	0		
1983	3	Winter	159	Sand flounder family									0	0	0	0		
1983	3	Winter	161	Pipefish family									0	0	0	0		
1983	3	Winter	162	Mackerel scad									0	0	0	0		
1983	3	Winter	164	Cunner									0	0	0	0		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1983	3	Winter	169	Gray snapper									0	0	0	0		
1983	3	Winter	172	Bigeye scad									0	0	0	0		
1983	3	Winter	173	Striped burrfish									0	0	0	0		
1983	3	Winter	177	Spotfin butterflyfish									0	0	0	0		
1983	3	Winter	179	Planehead filefish									0	0	0	0		
1983	3	Winter	180	Atlantic cutlassfish									0	0	0	0		
1983	3	Winter	181	Pigfish									0	0	0	0		
1983	3	Winter	184	Freckled blenny									0	0	0	0		
1983	3	Winter	187	Margined madtom									0	0	0	0		
1983	3	Winter	205	Freshwater drum									0	0	0	0		
1983	3	Winter	206	King mackerel									0	0	0	0		
1983	3	Winter	209	Highfin goby									0	0	0	0		
1983	3	Winter	213	Oyster toadfish									0	0	0	0		
1983	3	Winter	754	Blue crab									0	0	0	0		
1983	3	Winter	999	All fish taxa									0	0	0	0		
1983	3	Spring	1	Alewife				204					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	2	Bay anchovy				186					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	3	American shad				10					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	4	Bluefish				143					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	5	Bluegill				3					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	6	Brown bullhead				3					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	7	Pumpkinseed				50					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	8	Black crappie				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	9	Common carp				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	10	American eel				157					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	11	Goldfish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	12	Golden shiner				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	13	Hogchoker				795					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	14	Tessellated darter				7					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	15	Banded killifish				7					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	16	Emerald shiner				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	17	Largemouth bass				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	18	Mummichog				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	19	Atlantic menhaden				4					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	21	Chain pickerel				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	22	Blueback herring				2,878					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	23	White sucker				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	24	Atlantic silverside				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	25	Rainbow smelt				125					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	26	Smallmouth bass				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	27	Shortnose sturgeon				0.00					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	28	Spottail shiner				16					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	29	Atlantic sturgeon				0.00					18	38.52	33	71.55	5-Jun-83	28-Jun-83

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Year	Unit	Strata	Taxon	Common_Name	EstY0Y	EstYRLNG	EstYROL	EstComb	SEY0Y	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1983	3	Spring	30	Striped bass				60					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	31	Fourspine stickleback				7					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	32	Atlantic tomcod				11,688					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	34	White catfish				40					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	35	White perch				11,444					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	36	Yellow perch				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	37	Satinfin shiner				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	38	Rock bass				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	39	Northern pipefish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	40	Redbreast sunfish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	41	Atlantic needlefish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	42	Crevalle jack				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	45	Weakfish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	47	Common shiner				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	49	Lookdown				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	50	Herring family				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	54	Lined seahorse				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	55	Logperch				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	58	Fathead minnow				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	59	Carp and minnow family				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	60	Morone species				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	62	Tautog				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	63	Fourbeard rockling				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	64	Striped cusk-eel				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	67	Spot				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	68	Atlantic moonfish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	71	Scup				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	72	Winter flounder				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	73	Inland silverside				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	74	Sea lamprey				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	75	Gizzard shad				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	76	Silver hake				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	77	Striped mullet				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	78	Threespine stickleback				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	79	Brown trout				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	80	Butterfish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	81	White crappie				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	83	Northern pike				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	84	Green sunfish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	85	Silver perch				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1983	3	Spring	86	Northern puffer				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	96	Sunfish family				10					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	98	Red hake				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	100	Central mudminnow				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	101	Grubby				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	102	Eastern mudminnow				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	103	White bass				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	104	Rough silverside				3					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	105	Longear sunfish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	106	Summer flounder				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	108	Creek chub				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	109	Black bullhead				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	110	Striped searobin				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	111	Northern searobin				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	113	Atlantic croaker				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	114	Longhorn sculpin				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	116	Hickory shad				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	120	Conger eel				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	122	Warmouth				3					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	125	White mullet				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	126	Yellow bullhead				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	127	Channel catfish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	130	Naked goby				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	132	Windowpane				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	133	Spotted hake				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	136	Northern stargazer				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	137	American sand lance				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	139	Fourspot flounder				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	140	Atlantic mackerel				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	141	Black sea bass				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	142	Smallmouth flounder				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	143	Rock gunnel				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	144	Inshore lizardfish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	146	Silver lamprey				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	150	Goby family				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	157	New World silverside family				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	159	Sand flounder family				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	161	Pipefish family				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	162	Mackerel scad				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	164	Cunner				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	169	Gray snapper				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1983	3	Spring	172	Bigeye scad				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	173	Striped burrfish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	177	Spotfin butterflyfish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	179	Planehead filefish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	180	Atlantic cutlassfish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	181	Pigfish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	184	Freckled blenny				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	187	Margined madtom				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	205	Freshwater drum				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	206	King mackerel				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	209	Highfin goby				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	213	Oyster toadfish				0					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	754	Blue crab				27					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Spring	999	All fish taxa				27,844.00					18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Summer	1	Alewife				7					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	2	Bay anchovy				218					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	3	American shad				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	4	Bluefish				407					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	5	Bluegill				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	6	Brown bullhead				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	7	Pumpkinseed				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	8	Black crappie				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	9	Common carp				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	10	American eel				65					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	11	Goldfish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	12	Golden shiner				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	13	Hogchoker				22					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	14	Tessellated darter				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	15	Banded killifish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	16	Emerald shiner				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	17	Largemouth bass				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	18	Mummichog				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	19	Atlantic menhaden				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	21	Chain pickerel				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	22	Blueback herring				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	23	White sucker				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	24	Atlantic silverside				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	25	Rainbow smelt				7					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	26	Smallmouth bass				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	27	Shortnose sturgeon				0.00					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	28	Spottail shiner				14					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	29	Atlantic sturgeon				0.00					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	30	Striped bass				7					4	3.04	15	11.85	3-Jul-83	9-Jul-83

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1983	3	Summer	31	Fourspine stickleback				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	32	Atlantic tomcod				673					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	34	White catfish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	35	White perch				189					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	36	Yellow perch				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	37	Satinfin shiner				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	38	Rock bass				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	39	Northern pipefish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	40	Redbreast sunfish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	41	Atlantic needlefish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	42	Crevalle jack				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	45	Weakfish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	47	Common shiner				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	49	Lookdown				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	50	Herring family				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	54	Lined seahorse				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	55	Logperch				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	58	Fathead minnow				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	59	Carp and minnow family				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	60	Morone species				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	62	Tautog				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	63	Fourbeard rockling				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	64	Striped cusk-eel				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	67	Spot				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	68	Atlantic moonfish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	71	Scup				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	72	Winter flounder				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	73	Inland silverside				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	74	Sea lamprey				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	75	Gizzard shad				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	76	Silver hake				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	77	Striped mullet				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	78	Threespine stickleback				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	79	Brown trout				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	80	Butterfish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	81	White crappie				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	83	Northern pike				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	84	Green sunfish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	85	Silver perch				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	86	Northern puffer				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83

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1983	3	Summer	96	Sunfish family				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	98	Red hake				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	100	Central mudminnow				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	101	Grubby				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	102	Eastern mudminnow				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	103	White bass				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	104	Rough silverside				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	105	Longear sunfish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	106	Summer flounder				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	108	Creek chub				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	109	Black bullhead				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	110	Striped searobin				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	111	Northern searobin				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	113	Atlantic croaker				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	114	Longhorn sculpin				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	116	Hickory shad				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	120	Conger eel				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	122	Warmouth				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	125	White mullet				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	126	Yellow bullhead				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	127	Channel catfish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	130	Naked goby				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	132	Windowpane				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	133	Spotted hake				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	136	Northern stargazer				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	137	American sand lance				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	139	Fourspot flounder				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	140	Atlantic mackerel				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	141	Black sea bass				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	142	Smallmouth flounder				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	143	Rock gunnel				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	144	Inshore lizardfish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	146	Silver lamprey				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	150	Goby family				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	157	New World silverside family				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	159	Sand flounder family				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	161	Pipefish family				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	162	Mackerel scad				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	164	Cunner				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	169	Gray snapper				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	172	Bigeye scad				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83

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1983	3	Summer	173	Striped burrfish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	177	Spotfin butterflyfish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	179	Planehead filefish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	180	Atlantic cutlassfish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	181	Pigfish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	184	Freckled blenny				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	187	Margined madtom				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	205	Freshwater drum				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	206	King mackerel				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	209	Highfin goby				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	213	Oyster toadfish				0					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	754	Blue crab				4					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Summer	999	All fish taxa				1,609.00					4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Fall	1	Alewife									0	0	0	0		
1983	3	Fall	2	Bay anchovy									0	0	0	0		
1983	3	Fall	3	American shad									0	0	0	0		
1983	3	Fall	4	Bluefish									0	0	0	0		
1983	3	Fall	5	Bluegill									0	0	0	0		
1983	3	Fall	6	Brown bullhead									0	0	0	0		
1983	3	Fall	7	Pumpkinseed									0	0	0	0		
1983	3	Fall	8	Black crappie									0	0	0	0		
1983	3	Fall	9	Common carp									0	0	0	0		
1983	3	Fall	10	American eel									0	0	0	0		
1983	3	Fall	11	Goldfish									0	0	0	0		
1983	3	Fall	12	Golden shiner									0	0	0	0		
1983	3	Fall	13	Hogchoker									0	0	0	0		
1983	3	Fall	14	Tessellated darter									0	0	0	0		
1983	3	Fall	15	Banded killifish									0	0	0	0		
1983	3	Fall	16	Emerald shiner									0	0	0	0		
1983	3	Fall	17	Largemouth bass									0	0	0	0		
1983	3	Fall	18	Mummichog									0	0	0	0		
1983	3	Fall	19	Atlantic menhaden									0	0	0	0		
1983	3	Fall	21	Chain pickerel									0	0	0	0		
1983	3	Fall	22	Blueback herring									0	0	0	0		
1983	3	Fall	23	White sucker									0	0	0	0		
1983	3	Fall	24	Atlantic silverside									0	0	0	0		
1983	3	Fall	25	Rainbow smelt									0	0	0	0		
1983	3	Fall	26	Smallmouth bass									0	0	0	0		
1983	3	Fall	27	Shortnose sturgeon									0	0	0	0		
1983	3	Fall	28	Spottail shiner									0	0	0	0		
1983	3	Fall	29	Atlantic sturgeon									0	0	0	0		
1983	3	Fall	30	Striped bass									0	0	0	0		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1983	3	Fall	31	Fourspine stickleback									0	0	0	0		
1983	3	Fall	32	Atlantic tomcod									0	0	0	0		
1983	3	Fall	34	White catfish									0	0	0	0		
1983	3	Fall	35	White perch									0	0	0	0		
1983	3	Fall	36	Yellow perch									0	0	0	0		
1983	3	Fall	37	Satinfin shiner									0	0	0	0		
1983	3	Fall	38	Rock bass									0	0	0	0		
1983	3	Fall	39	Northern pipefish									0	0	0	0		
1983	3	Fall	40	Redbreast sunfish									0	0	0	0		
1983	3	Fall	41	Atlantic needlefish									0	0	0	0		
1983	3	Fall	42	Crevalle jack									0	0	0	0		
1983	3	Fall	45	Weakfish									0	0	0	0		
1983	3	Fall	47	Common shiner									0	0	0	0		
1983	3	Fall	49	Lookdown									0	0	0	0		
1983	3	Fall	50	Herring family									0	0	0	0		
1983	3	Fall	54	Lined seahorse									0	0	0	0		
1983	3	Fall	55	Logperch									0	0	0	0		
1983	3	Fall	58	Fathead minnow									0	0	0	0		
1983	3	Fall	59	Carp and minnow family									0	0	0	0		
1983	3	Fall	60	Morone species									0	0	0	0		
1983	3	Fall	62	Tautog									0	0	0	0		
1983	3	Fall	63	Fourbeard rockling									0	0	0	0		
1983	3	Fall	64	Striped cusk-eel									0	0	0	0		
1983	3	Fall	67	Spot									0	0	0	0		
1983	3	Fall	68	Atlantic moonfish									0	0	0	0		
1983	3	Fall	71	Scup									0	0	0	0		
1983	3	Fall	72	Winter flounder									0	0	0	0		
1983	3	Fall	73	Inland silverside									0	0	0	0		
1983	3	Fall	74	Sea lamprey									0	0	0	0		
1983	3	Fall	75	Gizzard shad									0	0	0	0		
1983	3	Fall	76	Silver hake									0	0	0	0		
1983	3	Fall	77	Striped mullet									0	0	0	0		
1983	3	Fall	78	Threespine stickleback									0	0	0	0		
1983	3	Fall	79	Brown trout									0	0	0	0		
1983	3	Fall	80	Butterfish									0	0	0	0		
1983	3	Fall	81	White crappie									0	0	0	0		
1983	3	Fall	83	Northern pike									0	0	0	0		
1983	3	Fall	84	Green sunfish									0	0	0	0		
1983	3	Fall	85	Silver perch									0	0	0	0		
1983	3	Fall	86	Northern puffer									0	0	0	0		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1983	3	Fall	96	Sunfish family									0	0	0	0		
1983	3	Fall	98	Red hake									0	0	0	0		
1983	3	Fall	100	Central mudminnow									0	0	0	0		
1983	3	Fall	101	Grubby									0	0	0	0		
1983	3	Fall	102	Eastern mudminnow									0	0	0	0		
1983	3	Fall	103	White bass									0	0	0	0		
1983	3	Fall	104	Rough silverside									0	0	0	0		
1983	3	Fall	105	Longear sunfish									0	0	0	0		
1983	3	Fall	106	Summer flounder									0	0	0	0		
1983	3	Fall	108	Creek chub									0	0	0	0		
1983	3	Fall	109	Black bullhead									0	0	0	0		
1983	3	Fall	110	Striped searobin									0	0	0	0		
1983	3	Fall	111	Northern searobin									0	0	0	0		
1983	3	Fall	113	Atlantic croaker									0	0	0	0		
1983	3	Fall	114	Longhorn sculpin									0	0	0	0		
1983	3	Fall	116	Hickory shad									0	0	0	0		
1983	3	Fall	120	Conger eel									0	0	0	0		
1983	3	Fall	122	Wormouth									0	0	0	0		
1983	3	Fall	125	White mullet									0	0	0	0		
1983	3	Fall	126	Yellow bullhead									0	0	0	0		
1983	3	Fall	127	Channel catfish									0	0	0	0		
1983	3	Fall	130	Naked goby									0	0	0	0		
1983	3	Fall	132	Windowpane									0	0	0	0		
1983	3	Fall	133	Spotted hake									0	0	0	0		
1983	3	Fall	136	Northern stargazer									0	0	0	0		
1983	3	Fall	137	American sand lance									0	0	0	0		
1983	3	Fall	139	Fourspot flounder									0	0	0	0		
1983	3	Fall	140	Atlantic mackerel									0	0	0	0		
1983	3	Fall	141	Black sea bass									0	0	0	0		
1983	3	Fall	142	Smallmouth flounder									0	0	0	0		
1983	3	Fall	143	Rock gunnel									0	0	0	0		
1983	3	Fall	144	Inshore lizardfish									0	0	0	0		
1983	3	Fall	146	Silver lamprey									0	0	0	0		
1983	3	Fall	150	Goby family									0	0	0	0		
1983	3	Fall	157	New World silverside family									0	0	0	0		
1983	3	Fall	159	Sand flounder family									0	0	0	0		
1983	3	Fall	161	Pipefish family									0	0	0	0		
1983	3	Fall	162	Mackerel scad									0	0	0	0		
1983	3	Fall	164	Cunner									0	0	0	0		
1983	3	Fall	169	Gray snapper									0	0	0	0		
1983	3	Fall	172	Bigeye scad									0	0	0	0		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

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1983	3	Fall	173	Striped burrfish									0	0	0	0		
1983	3	Fall	177	Spotfin butterflyfish									0	0	0	0		
1983	3	Fall	179	Planehead filefish									0	0	0	0		
1983	3	Fall	180	Atlantic cutlassfish									0	0	0	0		
1983	3	Fall	181	Pigfish									0	0	0	0		
1983	3	Fall	184	Freckled blenny									0	0	0	0		
1983	3	Fall	187	Margined madtom									0	0	0	0		
1983	3	Fall	205	Freshwater drum									0	0	0	0		
1983	3	Fall	206	King mackerel									0	0	0	0		
1983	3	Fall	209	Highfin goby									0	0	0	0		
1983	3	Fall	213	Oyster toadfish									0	0	0	0		
1983	3	Fall	754	Blue crab									0	0	0	0		
1983	3	Fall	999	All fish taxa									0	0	0	0		
1984	2	Winter	1	Alewife				54					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	2	Bay anchovy				16					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	3	American shad				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	4	Bluefish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	5	Bluegill				6					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	6	Brown bullhead				6					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	7	Pumpkinseed				687					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	8	Black crappie				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	9	Common carp				6					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	10	American eel				22					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	11	Goldfish				81					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	12	Golden shiner				33					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	13	Hogchoker				34					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	14	Tessellated darter				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	15	Banded killifish				93					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	16	Emerald shiner				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	17	Largemouth bass				5					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	18	Mummichog				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	19	Atlantic menhaden				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	21	Chain pickerel				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	22	Blueback herring				87					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	23	White sucker				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	24	Atlantic silverside				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	25	Rainbow smelt				139					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	26	Smallmouth bass				6					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	27	Shortnose sturgeon				0.00					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	28	Spottail shiner				830					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	29	Atlantic sturgeon				4.07					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	30	Striped bass				2,885					30	73.5	81	215.4	3-Jan-84	25-Mar-84

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1984	2	Winter	31	Fourspine stickleback				21					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	32	Atlantic tomcod				307					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	34	White catfish				1,143					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	35	White perch				246,762					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	36	Yellow perch				111					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	37	Satinfin shiner				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	38	Rock bass				6					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	39	Northern pipefish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	40	Redbreast sunfish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	41	Atlantic needlefish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	42	Crevalle jack				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	45	Weakfish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	47	Common shiner				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	49	Lookdown				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	50	Herring family				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	54	Lined seahorse				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	55	Logperch				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	58	Fathead minnow				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	59	Carp and minnow family				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	60	Morone species				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	62	Tautog				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	63	Fourbeard rockling				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	64	Striped cusk-eel				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	67	Spot				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	68	Atlantic moonfish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	71	Scup				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	72	Winter flounder				6					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	73	Inland silverside				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	74	Sea lamprey				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	75	Gizzard shad				1,467					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	76	Silver hake				54					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	77	Striped mullet				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	78	Threespine stickleback				72					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	79	Brown trout				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	80	Butterfish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	81	White crappie				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	83	Northern pike				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	84	Green sunfish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	85	Silver perch				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	86	Northern puffer				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84

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1984	2	Winter	96	Sunfish family				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	98	Red hake				253					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	100	Central mudminnow				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	101	Grubby				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	102	Eastern mudminnow				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	103	White bass				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	104	Rough silverside				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	105	Longear sunfish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	106	Summer flounder				6					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	108	Creek chub				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	109	Black bullhead				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	110	Striped searobin				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	111	Northern searobin				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	113	Atlantic croaker				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	114	Longhorn sculpin				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	116	Hickory shad				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	120	Conger eel				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	122	Warmouth				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	125	White mullet				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	126	Yellow bullhead				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	127	Channel catfish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	130	Naked goby				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	132	Windowpane				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	133	Spotted hake				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	136	Northern stargazer				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	137	American sand lance				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	139	Fourspot flounder				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	140	Atlantic mackerel				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	141	Black sea bass				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	142	Smallmouth flounder				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	143	Rock gunnel				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	144	Inshore lizardfish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	146	Silver lamprey				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	150	Goby family				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	157	New World silverside family				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	159	Sand flounder family				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	161	Pipefish family				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	162	Mackerel scad				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	164	Cunner				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	169	Gray snapper				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	172	Bigeye scad				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1984	2	Winter	173	Striped burrfish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	177	Spotfin butterflyfish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	179	Planehead filefish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	180	Atlantic cutlassfish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	181	Pigfish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	184	Freckled blenny				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	187	Marginated madtom				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	205	Freshwater drum				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	206	King mackerel				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	209	Highfin goby				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	213	Oyster toadfish				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	754	Blue crab				0					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Winter	999	All fish taxa				255,200.07					30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Spring	1	Alewife				379					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	2	Bay anchovy				640					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	3	American shad				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	4	Bluefish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	5	Bluegill				14					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	6	Brown bullhead				18					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	7	Pumpkinseed				185					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	8	Black crappie				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	9	Common carp				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	10	American eel				135					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	11	Goldfish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	12	Golden shiner				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	13	Hogchoker				1,607					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	14	Tessellated darter				31					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	15	Banded killifish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	16	Emerald shiner				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	17	Largemouth bass				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	18	Mummichog				17					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	19	Atlantic menhaden				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	21	Chain pickerel				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	22	Blueback herring				150					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	23	White sucker				17					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	24	Atlantic silverside				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	25	Rainbow smelt				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	26	Smallmouth bass				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	27	Shortnose sturgeon				2.75					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	28	Spottail shiner				170					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	29	Atlantic sturgeon				0.00					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	30	Striped bass				521					10	34.5	64	212.9	5-Apr-84	2-Jun-84

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1984	2	Spring	31	Fourspine stickleback				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	32	Atlantic tomcod				2,079					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	34	White catfish				562					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	35	White perch				52,015					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	36	Yellow perch				71					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	37	Satinfin shiner				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	38	Rock bass				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	39	Northern pipefish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	40	Redbreast sunfish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	41	Atlantic needlefish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	42	Crevalle jack				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	45	Weakfish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	47	Common shiner				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	49	Lookdown				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	50	Herring family				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	54	Lined seahorse				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	55	Logperch				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	58	Fathead minnow				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	59	Carp and minnow family				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	60	Morone species				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	62	Tautog				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	63	Fourbeard rockling				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	64	Striped cusk-eel				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	67	Spot				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	68	Atlantic moonfish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	71	Scup				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	72	Winter flounder				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	73	Inland silverside				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	74	Sea lamprey				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	75	Gizzard shad				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	76	Silver hake				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	77	Striped mullet				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	78	Threespine stickleback				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	79	Brown trout				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	80	Butterfish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	81	White crappie				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	83	Northern pike				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	84	Green sunfish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	85	Silver perch				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	86	Northern puffer				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84

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Year	Unit	Strata	Taxon	Common Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1984	2	Spring	96	Sunfish family				50					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	98	Red hake				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	100	Central mudminnow				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	101	Grubby				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	102	Eastern mudminnow				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	103	White bass				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	104	Rough silverside				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	105	Longear sunfish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	106	Summer flounder				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	108	Creek chub				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	109	Black bullhead				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	110	Striped searobin				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	111	Northern searobin				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	113	Atlantic croaker				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	114	Longhorn sculpin				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	116	Hickory shad				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	120	Conger eel				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	122	Warmouth				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	125	White mullet				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	126	Yellow bullhead				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	127	Channel catfish				18					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	130	Naked goby				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	132	Windowpane				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	133	Spotted hake				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	136	Northern stargazer				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	137	American sand lance				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	139	Fourspot flounder				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	140	Atlantic mackerel				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	141	Black sea bass				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	142	Smallmouth flounder				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	143	Rock gunnel				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	144	Inshore lizardfish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	146	Silver lamprey				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	150	Goby family				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	157	New World silverside family				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	159	Sand flounder family				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	161	Pipefish family				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	162	Mackerel scad				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	164	Cunner				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	169	Gray snapper				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	172	Bigeye scad				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1984	2	Spring	173	Striped burrfish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	177	Spotfin butterflyfish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	179	Planehead filefish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	180	Atlantic cutlassfish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	181	Pigfish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	184	Freckled blenny				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	187	Margined madtom				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	205	Freshwater drum				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	206	King mackerel				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	209	Highfin goby				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	213	Oyster toadfish				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	754	Blue crab				0					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Spring	999	All fish taxa				58,679.75					10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Summer	1	Alewife									0	0	9	3.2		
1984	2	Summer	2	Bay anchovy									0	0	9	3.2		
1984	2	Summer	3	American shad									0	0	9	3.2		
1984	2	Summer	4	Bluefish									0	0	9	3.2		
1984	2	Summer	5	Bluegill									0	0	9	3.2		
1984	2	Summer	6	Brown bullhead									0	0	9	3.2		
1984	2	Summer	7	Pumpkinseed									0	0	9	3.2		
1984	2	Summer	8	Black crappie									0	0	9	3.2		
1984	2	Summer	9	Common carp									0	0	9	3.2		
1984	2	Summer	10	American eel									0	0	9	3.2		
1984	2	Summer	11	Goldfish									0	0	9	3.2		
1984	2	Summer	12	Golden shiner									0	0	9	3.2		
1984	2	Summer	13	Hogchoker									0	0	9	3.2		
1984	2	Summer	14	Tessellated darter									0	0	9	3.2		
1984	2	Summer	15	Banded killifish									0	0	9	3.2		
1984	2	Summer	16	Emerald shiner									0	0	9	3.2		
1984	2	Summer	17	Largemouth bass									0	0	9	3.2		
1984	2	Summer	18	Mummichog									0	0	9	3.2		
1984	2	Summer	19	Atlantic menhaden									0	0	9	3.2		
1984	2	Summer	21	Chain pickerel									0	0	9	3.2		
1984	2	Summer	22	Blueback herring									0	0	9	3.2		
1984	2	Summer	23	White sucker									0	0	9	3.2		
1984	2	Summer	24	Atlantic silverside									0	0	9	3.2		
1984	2	Summer	25	Rainbow smelt									0	0	9	3.2		
1984	2	Summer	26	Smallmouth bass									0	0	9	3.2		
1984	2	Summer	27	Shortnose sturgeon									0	0	9	3.2		
1984	2	Summer	28	Spottail shiner									0	0	9	3.2		
1984	2	Summer	29	Atlantic sturgeon									0	0	9	3.2		
1984	2	Summer	30	Striped bass									0	0	9	3.2		

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1984	2	Summer	31	Fourspine stickleback									0	0	9	3.2		
1984	2	Summer	32	Atlantic tomcod									0	0	9	3.2		
1984	2	Summer	34	White catfish									0	0	9	3.2		
1984	2	Summer	35	White perch									0	0	9	3.2		
1984	2	Summer	36	Yellow perch									0	0	9	3.2		
1984	2	Summer	37	Satinfin shiner									0	0	9	3.2		
1984	2	Summer	38	Rock bass									0	0	9	3.2		
1984	2	Summer	39	Northern pipefish									0	0	9	3.2		
1984	2	Summer	40	Redbreast sunfish									0	0	9	3.2		
1984	2	Summer	41	Atlantic needlefish									0	0	9	3.2		
1984	2	Summer	42	Crevalle jack									0	0	9	3.2		
1984	2	Summer	45	Weakfish									0	0	9	3.2		
1984	2	Summer	47	Common shiner									0	0	9	3.2		
1984	2	Summer	49	Lookdown									0	0	9	3.2		
1984	2	Summer	50	Herring family									0	0	9	3.2		
1984	2	Summer	54	Lined seahorse									0	0	9	3.2		
1984	2	Summer	55	Logperch									0	0	9	3.2		
1984	2	Summer	58	Fathead minnow									0	0	9	3.2		
1984	2	Summer	59	Carp and minnow family									0	0	9	3.2		
1984	2	Summer	60	Morone species									0	0	9	3.2		
1984	2	Summer	62	Tautog									0	0	9	3.2		
1984	2	Summer	63	Fourbeard rockling									0	0	9	3.2		
1984	2	Summer	64	Striped cusk-eel									0	0	9	3.2		
1984	2	Summer	67	Spot									0	0	9	3.2		
1984	2	Summer	68	Atlantic moonfish									0	0	9	3.2		
1984	2	Summer	71	Scup									0	0	9	3.2		
1984	2	Summer	72	Winter flounder									0	0	9	3.2		
1984	2	Summer	73	Inland silverside									0	0	9	3.2		
1984	2	Summer	74	Sea lamprey									0	0	9	3.2		
1984	2	Summer	75	Gizzard shad									0	0	9	3.2		
1984	2	Summer	76	Silver hake									0	0	9	3.2		
1984	2	Summer	77	Striped mullet									0	0	9	3.2		
1984	2	Summer	78	Threespine stickleback									0	0	9	3.2		
1984	2	Summer	79	Brown trout									0	0	9	3.2		
1984	2	Summer	80	Butterfish									0	0	9	3.2		
1984	2	Summer	81	White crappie									0	0	9	3.2		
1984	2	Summer	83	Northern pike									0	0	9	3.2		
1984	2	Summer	84	Green sunfish									0	0	9	3.2		
1984	2	Summer	85	Silver perch									0	0	9	3.2		
1984	2	Summer	86	Northern puffer									0	0	9	3.2		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume. (10 ⁶ m ³)	Start_Date	End_Date
1984	2	Summer	96	Sunfish family									0	0	9	3.2		
1984	2	Summer	98	Red hake									0	0	9	3.2		
1984	2	Summer	100	Central mudminnow									0	0	9	3.2		
1984	2	Summer	101	Grubby									0	0	9	3.2		
1984	2	Summer	102	Eastern mudminnow									0	0	9	3.2		
1984	2	Summer	103	White bass									0	0	9	3.2		
1984	2	Summer	104	Rough silverside									0	0	9	3.2		
1984	2	Summer	105	Longear sunfish									0	0	9	3.2		
1984	2	Summer	106	Summer flounder									0	0	9	3.2		
1984	2	Summer	108	Creek chub									0	0	9	3.2		
1984	2	Summer	109	Black bullhead									0	0	9	3.2		
1984	2	Summer	110	Striped searobin									0	0	9	3.2		
1984	2	Summer	111	Northern searobin									0	0	9	3.2		
1984	2	Summer	113	Atlantic croaker									0	0	9	3.2		
1984	2	Summer	114	Longhorn sculpin									0	0	9	3.2		
1984	2	Summer	116	Hickory shad									0	0	9	3.2		
1984	2	Summer	120	Conger eel									0	0	9	3.2		
1984	2	Summer	122	Warmouth									0	0	9	3.2		
1984	2	Summer	125	White mullet									0	0	9	3.2		
1984	2	Summer	126	Yellow bullhead									0	0	9	3.2		
1984	2	Summer	127	Channel catfish									0	0	9	3.2		
1984	2	Summer	130	Naked goby									0	0	9	3.2		
1984	2	Summer	132	Windowpane									0	0	9	3.2		
1984	2	Summer	133	Spotted hake									0	0	9	3.2		
1984	2	Summer	136	Northern stargazer									0	0	9	3.2		
1984	2	Summer	137	American sand lance									0	0	9	3.2		
1984	2	Summer	139	Fourspot flounder									0	0	9	3.2		
1984	2	Summer	140	Atlantic mackerel									0	0	9	3.2		
1984	2	Summer	141	Black sea bass									0	0	9	3.2		
1984	2	Summer	142	Smallmouth flounder									0	0	9	3.2		
1984	2	Summer	143	Rock gunnel									0	0	9	3.2		
1984	2	Summer	144	Inshore lizardfish									0	0	9	3.2		
1984	2	Summer	146	Silver lamprey									0	0	9	3.2		
1984	2	Summer	150	Goby family									0	0	9	3.2		
1984	2	Summer	157	New World silverside family									0	0	9	3.2		
1984	2	Summer	159	Sand flounder family									0	0	9	3.2		
1984	2	Summer	161	Pipefish family									0	0	9	3.2		
1984	2	Summer	162	Mackerel scad									0	0	9	3.2		
1984	2	Summer	164	Cunner									0	0	9	3.2		
1984	2	Summer	169	Gray snapper									0	0	9	3.2		
1984	2	Summer	172	Bigeye scad									0	0	9	3.2		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1984	2	Summer	173	Striped burrfish									0	0	9	3.2		
1984	2	Summer	177	Spotfin butterflyfish									0	0	9	3.2		
1984	2	Summer	179	Planehead filefish									0	0	9	3.2		
1984	2	Summer	180	Atlantic cutlassfish									0	0	9	3.2		
1984	2	Summer	181	Pigfish									0	0	9	3.2		
1984	2	Summer	184	Freckled blenny									0	0	9	3.2		
1984	2	Summer	187	Margined madtom									0	0	9	3.2		
1984	2	Summer	205	Freshwater drum									0	0	9	3.2		
1984	2	Summer	206	King mackerel									0	0	9	3.2		
1984	2	Summer	209	Highfin goby									0	0	9	3.2		
1984	2	Summer	213	Oyster toadfish									0	0	9	3.2		
1984	2	Summer	754	Blue crab									0	0	9	3.2		
1984	2	Summer	999	All fish taxa									0	0	9	3.2		
1984	2	Fall	1	Alewife				2,877					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	2	Bay anchovy				3,028					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	3	American shad				242					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	4	Bluefish				30					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	5	Bluegill				202					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	6	Brown bullhead				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	7	Pumpkinseed				27					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	8	Black crappie				4					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	9	Common carp				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	10	American eel				233					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	11	Goldfish				4					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	12	Golden shiner				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	13	Hogchoker				344					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	14	Tessellated darter				4					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	15	Banded killifish				8					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	16	Emerald shiner				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	17	Largemouth bass				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	18	Mummichog				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	19	Atlantic menhaden				8					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	21	Chain pickerel				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	22	Blueback herring				3,014					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	23	White sucker				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	24	Atlantic silverside				4					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	25	Rainbow smelt				704					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	26	Smallmouth bass				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	27	Shortnose sturgeon				0.00					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	28	Spottail shiner				15					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	29	Atlantic sturgeon				2.37					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	30	Striped bass				1,144					51	100.7	84	194.7	14-Oct-84	30-Dec-84

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1984	2	Fall	31	Fourspine stickleback				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	32	Atlantic tomcod				323					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	34	White catfish				512					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	35	White perch				11,558					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	36	Yellow perch				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	37	Satinfin shiner				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	38	Rock bass				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	39	Northern pipefish				112					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	40	Redbreast sunfish				3					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	41	Atlantic needlefish				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	42	Crevalle jack				36					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	45	Weakfish				1,358					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	47	Common shiner				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	49	Lookdown				21					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	50	Herring family				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	54	Lined seahorse				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	55	Logperch				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	58	Fathead minnow				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	59	Carp and minnow family				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	60	Morone species				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	62	Tautog				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	63	Fourbeard rockling				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	64	Striped cusk-eel				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	67	Spot				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	68	Atlantic moonfish				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	71	Scup				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	72	Winter flounder				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	73	Inland silverside				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	74	Sea lamprey				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	75	Gizzard shad				7					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	76	Silver hake				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	77	Striped mullet				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	78	Threespine stickleback				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	79	Brown trout				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	80	Butterfish				127					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	81	White crappie				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	83	Northern pike				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	84	Green sunfish				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	85	Silver perch				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	86	Northern puffer				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84

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1984	2	Fall	96	Sunfish family				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	98	Red hake				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	100	Central mudminnow				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	101	Grubby				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	102	Eastern mudminnow				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	103	White bass				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	104	Rough silverside				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	105	Longear sunfish				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	106	Summer flounder				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	108	Creek chub				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	109	Black bullhead				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	110	Striped searobin				4					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	111	Northern searobin				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	113	Atlantic croaker				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	114	Longhorn sculpin				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	116	Hickory shad				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	120	Conger eel				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	122	Warmouth				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	125	White mullet				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	126	Yellow bullhead				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	127	Channel catfish				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	130	Naked goby				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	132	Windowpane				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	133	Spotted hake				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	136	Northern stargazer				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	137	American sand lance				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	139	Fourspot flounder				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	140	Atlantic mackerel				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	141	Black sea bass				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	142	Smallmouth flounder				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	143	Rock gunnel				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	144	Inshore lizardfish				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	146	Silver lamprey				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	150	Goby family				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	157	New World silverside family				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	159	Sand flounder family				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	161	Pipefish family				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	162	Mackerel scad				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	164	Cunner				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	169	Gray snapper				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	172	Bigeye scad				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84

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1984	2	Fall	173	Striped burrfish				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	177	Spotfin butterflyfish				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	179	Planehead filefish				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	180	Atlantic cutlassfish				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	181	Pigfish				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	184	Freckled blenny				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	187	Marginated madtom				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	205	Freshwater drum				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	206	King mackerel				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	209	Highfin goby				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	213	Oyster toadfish				0					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	754	Blue crab				20					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Fall	999	All fish taxa				25,955.37					51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	3	Winter	1	Alewife				21					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	2	Bay anchovy				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	3	American shad				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	4	Bluefish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	5	Bluegill				50					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	6	Brown bullhead				78					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	7	Pumpkinseed				1,531					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	8	Black crappie				3					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	9	Common carp				3					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	10	American eel				64					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	11	Goldfish				138					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	12	Golden shiner				106					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	13	Hogchoker				11					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	14	Tessellated darter				4					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	15	Banded killifish				74					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	16	Emerald shiner				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	17	Largemouth bass				3					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	18	Mummichog				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	19	Atlantic menhaden				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	21	Chain pickerel				4					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	22	Blueback herring				14					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	23	White sucker				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	24	Atlantic silverside				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	25	Rainbow smelt				158					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	26	Smallmouth bass				4					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	27	Shortnose sturgeon				0.00					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	28	Spottail shiner				973					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	29	Atlantic sturgeon				0.00					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	30	Striped bass				1,300					27	70.5	66	156.6	28-Jan-84	30-Mar-84

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1984	3	Winter	31	Fourspine stickleback				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	32	Atlantic tomcod				57					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	34	White catfish				1,208					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	35	White perch				84,211					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	36	Yellow perch				152					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	37	Satinfin shiner				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	38	Rock bass				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	39	Northern pipefish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	40	Redbreast sunfish				4					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	41	Atlantic needlefish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	42	Crevalle jack				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	45	Weakfish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	47	Common shiner				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	49	Lookdown				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	50	Herring family				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	54	Lined seahorse				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	55	Logperch				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	58	Fathead minnow				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	59	Carp and minnow family				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	60	Morone species				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	62	Tautog				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	63	Fourbeard rockling				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	64	Striped cusk-eel				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	67	Spot				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	68	Atlantic moonfish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	71	Scup				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	72	Winter flounder				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	73	Inland silverside				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	74	Sea lamprey				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	75	Gizzard shad				43					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	76	Silver hake				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	77	Striped mullet				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	78	Threespine stickleback				135					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	79	Brown trout				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	80	Butterfish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	81	White crappie				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	83	Northern pike				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	84	Green sunfish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	85	Silver perch				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	86	Northern puffer				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1984	3	Winter	96	Sunfish family				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	98	Red hake				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	100	Central mudminnow				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	101	Grubby				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	102	Eastern mudminnow				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	103	White bass				4					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	104	Rough silverside				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	105	Longear sunfish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	106	Summer flounder				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	108	Creek chub				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	109	Black bullhead				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	110	Striped searobin				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	111	Northern searobin				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	113	Atlantic croaker				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	114	Longhorn sculpin				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	116	Hickory shad				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	120	Conger eel				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	122	Warmouth				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	125	White mullet				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	126	Yellow bullhead				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	127	Channel catfish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	130	Naked goby				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	132	Windowpane				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	133	Spotted hake				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	136	Northern stargazer				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	137	American sand lance				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	139	Fourspot flounder				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	140	Atlantic mackerel				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	141	Black sea bass				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	142	Smallmouth flounder				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	143	Rock gunnel				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	144	Inshore lizardfish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	146	Silver lamprey				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	150	Goby family				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	157	New World silverside family				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	159	Sand flounder family				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	161	Pipefish family				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	162	Mackerel scad				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	164	Cunner				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	169	Gray snapper				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	172	Bigeye scad				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84

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1984	3	Winter	173	Striped burrfish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	177	Spotfin butterflyfish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	179	Planehead filefish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	180	Atlantic cutlassfish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	181	Pigfish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	184	Freckled blenny				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	187	Marginated madtom				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	205	Freshwater drum				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	206	King mackerel				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	209	Highfin goby				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	213	Oyster toadfish				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	754	Blue crab				0					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Winter	999	All fish taxa				90,354.00					27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Spring	1	Alewife				1,425					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	2	Bay anchovy				8,878					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	3	American shad				98					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	4	Bluefish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	5	Bluegill				103					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	6	Brown bullhead				78					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	7	Pumpkinseed				448					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	8	Black crappie				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	9	Common carp				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	10	American eel				784					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	11	Goldfish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	12	Golden shiner				8					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	13	Hogchoker				6,838					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	14	Tessellated darter				9					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	15	Banded killifish				44					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	16	Emerald shiner				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	17	Largemouth bass				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	18	Mummichog				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	19	Atlantic menhaden				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	21	Chain pickerel				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	22	Blueback herring				6,912					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	23	White sucker				18					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	24	Atlantic silverside				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	25	Rainbow smelt				26					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	26	Smallmouth bass				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	27	Shortnose sturgeon				1.69					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	28	Spottail shiner				239					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	29	Atlantic sturgeon				0.00					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	30	Striped bass				1,441					18	69.2	91	355.3	5-Apr-84	21-Jun-84

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1984	3	Spring	31	Fourspine stickleback				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	32	Atlantic tomcod				15,423					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	34	White catfish				8,925					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	35	White perch				99,956					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	36	Yellow perch				41					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	37	Satinfin shiner				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	38	Rock bass				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	39	Northern pipefish				18					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	40	Redbreast sunfish				8					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	41	Atlantic needlefish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	42	Crevalle jack				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	45	Weakfish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	47	Common shiner				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	49	Lookdown				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	50	Herring family				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	54	Lined seahorse				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	55	Logperch				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	58	Fathead minnow				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	59	Carp and minnow family				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	60	Morone species				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	62	Tautog				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	63	Fourbeard rockling				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	64	Striped cusk-eel				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	67	Spot				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	68	Atlantic moonfish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	71	Scup				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	72	Winter flounder				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	73	Inland silverside				426					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	74	Sea lamprey				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	75	Gizzard shad				8					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	76	Silver hake				9					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	77	Striped mullet				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	78	Threespine stickleback				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	79	Brown trout				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	80	Butterfish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	81	White crappie				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	83	Northern pike				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	84	Green sunfish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	85	Silver perch				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	86	Northern puffer				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84

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1984	3	Spring	96	Sunfish family				35					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	98	Red hake				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	100	Central mudminnow				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	101	Grubby				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	102	Eastern mudminnow				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	103	White bass				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	104	Rough silverside				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	105	Longear sunfish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	106	Summer flounder				9					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	108	Creek chub				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	109	Black bullhead				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	110	Striped searobin				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	111	Northern searobin				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	113	Atlantic croaker				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	114	Longhorn sculpin				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	116	Hickory shad				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	120	Conger eel				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	122	Warmouth				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	125	White mullet				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	126	Yellow bullhead				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	127	Channel catfish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	130	Naked goby				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	132	Windowpane				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	133	Spotted hake				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	136	Northern stargazer				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	137	American sand lance				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	139	Fourspot flounder				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	140	Atlantic mackerel				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	141	Black sea bass				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	142	Smallmouth flounder				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	143	Rock gunnel				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	144	Inshore lizardfish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	146	Silver lamprey				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	150	Goby family				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	157	New World silverside family				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	159	Sand flounder family				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	161	Pipefish family				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	162	Mackerel scad				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	164	Cunner				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	169	Gray snapper				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	172	Bigeye scad				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1984	3	Spring	173	Striped burrfish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	177	Spotfin butterflyfish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	179	Planehead filefish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	180	Atlantic cutlassfish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	181	Pigfish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	184	Freckled blenny				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	187	Marginated madtom				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	205	Freshwater drum				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	206	King mackerel				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	209	Highfin goby				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	213	Oyster toadfish				0					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	754	Blue crab				3					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Spring	999	All fish taxa				152,204.69					18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Summer	1	Alewife				2,448					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	2	Bay anchovy				97,633					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	3	American shad				100					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	4	Bluefish				6,342					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	5	Bluegill				243					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	6	Brown bullhead				12					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	7	Pumpkinseed				197					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	8	Black crappie				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	9	Common carp				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	10	American eel				433					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	11	Goldfish				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	12	Golden shiner				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	13	Hogchoker				2,086					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	14	Tessellated darter				12					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	15	Banded killifish				65					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	16	Emerald shiner				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	17	Largemouth bass				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	18	Mummichog				6					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	19	Atlantic menhaden				23					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	21	Chain pickerel				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	22	Blueback herring				2,567					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	23	White sucker				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	24	Atlantic silverside				6					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	25	Rainbow smelt				370					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	26	Smallmouth bass				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	27	Shortnose sturgeon				0.00					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	28	Spottail shiner				41					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	29	Atlantic sturgeon				9.75					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	30	Striped bass				2,515					31	128.3	92	413.8	2-Jul-84	21-Sep-84

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1984	3	Summer	31	Fourspine stickleback				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	32	Atlantic tomcod				80,001					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	34	White catfish				760					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	35	White perch				26,799					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	36	Yellow perch				29					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	37	Satinfin shiner				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	38	Rock bass				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	39	Northern pipefish				12					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	40	Redbreast sunfish				35					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	41	Atlantic needlefish				6					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	42	Crevalle jack				11					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	45	Weakfish				9,712					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	47	Common shiner				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	49	Lookdown				6					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	50	Herring family				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	54	Lined seahorse				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	55	Logperch				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	58	Fathead minnow				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	59	Carp and minnow family				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	60	Morone species				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	62	Tautog				6					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	63	Fourbeard rockling				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	64	Striped cusk-eel				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	67	Spot				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	68	Atlantic moonfish				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	71	Scup				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	72	Winter flounder				6					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	73	Inland silverside				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	74	Sea lamprey				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	75	Gizzard shad				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	76	Silver hake				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	77	Striped mullet				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	78	Threespine stickleback				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	79	Brown trout				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	80	Butterfish				1,590					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	81	White crappie				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	83	Northern pike				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	84	Green sunfish				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	85	Silver perch				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	86	Northern puffer				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1984	3	Summer	96	Sunfish family				221					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	98	Red hake				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	100	Central mudminnow				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	101	Grubby				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	102	Eastern mudminnow				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	103	White bass				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	104	Rough silverside				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	105	Longear sunfish				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	106	Summer flounder				6					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	108	Creek chub				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	109	Black bullhead				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	110	Striped searobin				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	111	Northern searobin				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	113	Atlantic croaker				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	114	Longhorn sculpin				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	116	Hickory shad				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	120	Conger eel				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	122	Warmouth				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	125	White mullet				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	126	Yellow bullhead				34					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	127	Channel catfish				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	130	Naked goby				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	132	Windowpane				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	133	Spotted hake				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	136	Northern stargazer				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	137	American sand lance				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	139	Fourspot flounder				6					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	140	Atlantic mackerel				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	141	Black sea bass				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	142	Smallmouth flounder				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	143	Rock gunnel				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	144	Inshore lizardfish				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	146	Silver lamprey				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	150	Goby family				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	157	New World silverside family				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	159	Sand flounder family				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	161	Pipefish family				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	162	Mackerel scad				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	164	Cunner				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	169	Gray snapper				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	172	Bigeye scad				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1984	3	Summer	173	Striped burrfish				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	177	Spotfin butterflyfish				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	179	Planehead filefish				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	180	Atlantic cutlassfish				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	181	Pigfish				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	184	Freckled blenny				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	187	Margined madtom				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	205	Freshwater drum				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	206	King mackerel				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	209	Highfin goby				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	213	Oyster toadfish				0					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	754	Blue crab				199					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Summer	999	All fish taxa				234,345.75					31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Fall	1	Alewife				810					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	2	Bay anchovy				2,575					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	3	American shad				261					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	4	Bluefish				121					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	5	Bluegill				31					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	6	Brown bullhead				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	7	Pumpkinseed				34					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	8	Black crappie				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	9	Common carp				3					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	10	American eel				418					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	11	Goldfish				5					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	12	Golden shiner				3					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	13	Hogchoker				513					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	14	Tessellated darter				5					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	15	Banded killifish				3					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	16	Emerald shiner				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	17	Largemouth bass				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	18	Mummichog				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	19	Atlantic menhaden				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	21	Chain pickerel				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	22	Blueback herring				722					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	23	White sucker				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	24	Atlantic silverside				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	25	Rainbow smelt				179					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	26	Smallmouth bass				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	27	Shortnose sturgeon				0.00					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	28	Spottail shiner				10					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	29	Atlantic sturgeon				0.00					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	30	Striped bass				1,159					34	77.2	57	147.5	6-Oct-84	31-Dec-84

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1984	3	Fall	31	Fourspine stickleback				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	32	Atlantic tomcod				373					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	34	White catfish				466					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	35	White perch				23,333					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	36	Yellow perch				5					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	37	Satinfin shiner				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	38	Rock bass				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	39	Northern pipefish				8					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	40	Redbreast sunfish				5					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	41	Atlantic needlefish				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	42	Crevalle jack				46					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	45	Weakfish				481					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	47	Common shiner				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	49	Lookdown				15					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	50	Herring family				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	54	Lined seahorse				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	55	Logperch				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	58	Fathead minnow				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	59	Carp and minnow family				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	60	Morone species				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	62	Tautog				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	63	Fourbeard rockling				3					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	64	Striped cusk-eel				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	67	Spot				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	68	Atlantic moonfish				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	71	Scup				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	72	Winter flounder				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	73	Inland silverside				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	74	Sea lamprey				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	75	Gizzard shad				31					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	76	Silver hake				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	77	Striped mullet				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	78	Threespine stickleback				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	79	Brown trout				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	80	Butterfish				204					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	81	White crappie				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	83	Northern pike				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	84	Green sunfish				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	85	Silver perch				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	86	Northern puffer				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84

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1984	3	Fall	96	Sunfish family				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	98	Red hake				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	100	Central mudminnow				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	101	Grubby				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	102	Eastern mudminnow				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	103	White bass				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	104	Rough silverside				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	105	Longear sunfish				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	106	Summer flounder				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	108	Creek chub				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	109	Black bullhead				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	110	Striped searobin				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	111	Northern searobin				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	113	Atlantic croaker				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	114	Longhorn sculpin				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	116	Hickory shad				3					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	120	Conger eel				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	122	Wormmouth				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	125	White mullet				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	126	Yellow bullhead				3					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	127	Channel catfish				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	130	Naked goby				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	132	Windowpane				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	133	Spotted hake				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	136	Northern stargazer				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	137	American sand lance				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	139	Fourspot flounder				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	140	Atlantic mackerel				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	141	Black sea bass				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	142	Smallmouth flounder				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	143	Rock gunnel				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	144	Inshore lizardfish				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	146	Silver lamprey				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	150	Goby family				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	157	New World silverside family				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	159	Sand flounder family				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	161	Pipefish family				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	162	Mackerel scad				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	164	Cunner				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	169	Gray snapper				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	172	Bigeye scad				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84

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1984	3	Fall	173	Striped burrfish				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	177	Spotfin butterflyfish				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	179	Planehead filefish				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	180	Atlantic cutlassfish				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	181	Pigfish				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	184	Freckled blenny				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	187	Margined madtom				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	205	Freshwater drum				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	206	King mackerel				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	209	Highfin goby				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	213	Oyster toadfish				0					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	754	Blue crab				126					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1984	3	Fall	999	All fish taxa				31,827.00					34	77.2	57	147.5	6-Oct-84	31-Dec-84
1985	2	Winter	1	Alewife				487					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	2	Bay anchovy				7					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	3	American shad				9					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	4	Bluefish				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	5	Bluegill				83					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	6	Brown bullhead				107					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	7	Pumpkinseed				815					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	8	Black crappie				7					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	9	Common carp				2					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	10	American eel				544					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	11	Goldfish				9					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	12	Golden shiner				71					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	13	Hogchoker				586					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	14	Tessellated darter				99					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	15	Banded killifish				74					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	16	Emerald shiner				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	17	Largemouth bass				20					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	18	Mummichog				16					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	19	Atlantic menhaden				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	21	Chain pickerel				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	22	Blueback herring				121					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	23	White sucker				2					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	24	Atlantic silverside				5					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	25	Rainbow smelt				2,117					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	26	Smallmouth bass				4					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	27	Shortnose sturgeon				0.00					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	28	Spottail shiner				1,611					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	29	Atlantic sturgeon				14.28					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	30	Striped bass				46,803					82	219.36	90	252.9	3-Jan-85	31-Mar-85

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1985	2	Winter	31	Fourspine stickleback				9					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	32	Atlantic tomcod				7,758					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	34	White catfish				2,788					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	35	White perch				278,525					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	36	Yellow perch				70					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	37	Satinfin shiner				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	38	Rock bass				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	39	Northern pipefish				5					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	40	Redbreast sunfish				4					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	41	Atlantic needlefish				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	42	Crevalle jack				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	45	Weakfish				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	47	Common shiner				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	49	Lookdown				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	50	Herring family				5					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	54	Lined seahorse				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	55	Logperch				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	58	Fathead minnow				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	59	Carp and minnow family				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	60	Morone species				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	62	Tautog				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	63	Fourbeard rockling				11					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	64	Striped cusk-eel				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	67	Spot				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	68	Atlantic moonfish				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	71	Scup				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	72	Winter flounder				32					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	73	Inland silverside				13					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	74	Sea lamprey				29					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	75	Gizzard shad				816					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	76	Silver hake				40					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	77	Striped mullet				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	78	Threespine stickleback				621					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	79	Brown trout				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	80	Butterfish				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	81	White crappie				3					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	83	Northern pike				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	84	Green sunfish				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	85	Silver perch				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	86	Northern puffer				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1985	2	Winter	96	Sunfish family				9					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	98	Red hake				425					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	100	Central mudminnow				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	101	Grubby				13					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	102	Eastern mudminnow				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	103	White bass				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	104	Rough silverside				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	105	Longear sunfish				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	106	Summer flounder				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	108	Creek chub				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	109	Black bullhead				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	110	Striped searobin				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	111	Northern searobin				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	113	Atlantic croaker				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	114	Longhorn sculpin				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	116	Hickory shad				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	120	Conger eel				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	122	Warmouth				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	125	White mullet				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	126	Yellow bullhead				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	127	Channel catfish				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	130	Naked goby				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	132	Windowpane				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	133	Spotted hake				2					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	136	Northern stargazer				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	137	American sand lance				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	139	Fourspot flounder				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	140	Atlantic mackerel				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	141	Black sea bass				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	142	Smallmouth flounder				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	143	Rock gunnel				7					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	144	Inshore lizardfish				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	146	Silver lamprey				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	150	Goby family				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	157	New World silverside family				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	159	Sand flounder family				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	161	Pipefish family				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	162	Mackerel scad				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	164	Cunner				2					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	169	Gray snapper				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	172	Bigeye scad				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1985	2	Winter	173	Striped burrfish				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	177	Spotfin butterflyfish				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	179	Planehead filefish				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	180	Atlantic cutlassfish				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	181	Pigfish				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	184	Freckled blenny				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	187	Margined madtom				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	205	Freshwater drum				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	206	King mackerel				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	209	Highfin goby				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	213	Oyster toadfish				0					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	754	Blue crab									82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Winter	999	All fish taxa				345,143.28					82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Spring	1	Alewife				381					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	2	Bay anchovy				1,596					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	3	American shad				16					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	4	Bluefish				82					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	5	Bluegill				27					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	6	Brown bullhead				54					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	7	Pumpkinseed				132					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	8	Black crappie				8					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	9	Common carp				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	10	American eel				1,044					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	11	Goldfish				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	12	Golden shiner				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	13	Hogchoker				2,814					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	14	Tessellated darter				582					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	15	Banded killifish				16					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	16	Emerald shiner				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	17	Largemouth bass				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	18	Mummichog				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	19	Atlantic menhaden				21					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	21	Chain pickerel				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	22	Blueback herring				224					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	23	White sucker				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	24	Atlantic silverside				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	25	Rainbow smelt				693					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	26	Smallmouth bass				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	27	Shortnose sturgeon				0.00					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	28	Spottail shiner				226					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	29	Atlantic sturgeon				2.31					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	30	Striped bass				3,136					61	196.53	91	316.07	1-Apr-85	30-Jun-85

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1985	2	Spring	31	Fourspine stickleback				16					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	32	Atlantic tomcod				11,993					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	34	White catfish				1,017					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	35	White perch				67,469					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	36	Yellow perch				109					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	37	Satinfin shiner				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	38	Rock bass				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	39	Northern pipefish				217					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	40	Redbreast sunfish				8					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	41	Atlantic needlefish				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	42	Crevalle jack				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	45	Weakfish				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	47	Common shiner				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	49	Lookdown				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	50	Herring family				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	54	Lined seahorse				8					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	55	Logperch				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	58	Fathead minnow				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	59	Carp and minnow family				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	60	Morone species				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	62	Tautog				8					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	63	Fourbeard rockling				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	64	Striped cusk-eel				31					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	67	Spot				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	68	Atlantic moonfish				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	71	Scup				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	72	Winter flounder				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	73	Inland silverside				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	74	Sea lamprey				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	75	Gizzard shad				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	76	Silver hake				16					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	77	Striped mullet				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	78	Threespine stickleback				111					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	79	Brown trout				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	80	Butterfish				141					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	81	White crappie				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	83	Northern pike				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	84	Green sunfish				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	85	Silver perch				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	86	Northern puffer				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1985	2	Spring	96	Sunfish family				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	98	Red hake				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	100	Central mudminnow				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	101	Grubby				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	102	Eastern mudminnow				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	103	White bass				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	104	Rough silverside				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	105	Longear sunfish				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	106	Summer flounder				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	108	Creek chub				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	109	Black bullhead				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	110	Striped searobin				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	111	Northern searobin				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	113	Atlantic croaker				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	114	Longhorn sculpin				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	116	Hickory shad				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	120	Conger eel				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	122	Warmouth				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	125	White mullet				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	126	Yellow bullhead				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	127	Channel catfish				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	130	Naked goby				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	132	Windowpane				65					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	133	Spotted hake				209					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	136	Northern stargazer				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	137	American sand lance				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	139	Fourspot flounder				50					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	140	Atlantic mackerel				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	141	Black sea bass				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	142	Smallmouth flounder				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	143	Rock gunnel				8					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	144	Inshore lizardfish				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	146	Silver lamprey				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	150	Goby family				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	157	New World silverside family				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	159	Sand flounder family				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	161	Pipefish family				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	162	Mackerel scad				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	164	Cunner				8					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	169	Gray snapper				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	172	Bigeye scad				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85

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1985	2	Spring	173	Striped burrfish				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	177	Spotfin butterflyfish				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	179	Planehead filefish				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	180	Atlantic cutlassfish				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	181	Pigfish				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	184	Freckled blenny				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	187	Margined madtom				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	205	Freshwater drum				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	206	King mackerel				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	209	Highfin goby				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	213	Oyster toadfish				0					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	754	Blue crab				168					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Spring	999	All fish taxa				91,491.31					61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Summer	1	Alewife				646					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	2	Bay anchovy				5,323					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	3	American shad				58					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	4	Bluefish				420					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	5	Bluegill				387					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	6	Brown bullhead				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	7	Pumpkinseed				76					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	8	Black crappie				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	9	Common carp				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	10	American eel				137					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	11	Goldfish				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	12	Golden shiner				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	13	Hogchoker				16,853					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	14	Tessellated darter				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	15	Banded killifish				4					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	16	Emerald shiner				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	17	Largemouth bass				20					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	18	Mummichog				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	19	Atlantic menhaden				167					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	21	Chain pickerel				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	22	Blueback herring				576					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	23	White sucker				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	24	Atlantic silverside				16					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	25	Rainbow smelt				4					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	26	Smallmouth bass				17					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	27	Shortnose sturgeon				0.00					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	28	Spottail shiner				8					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	29	Atlantic sturgeon				0.00					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	30	Striped bass				912					84	351.44	91	397.31	1-Jul-85	30-Sep-85

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1985	2	Summer	31	Fourspine stickleback				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	32	Atlantic tomcod				19,264					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	34	White catfish				103					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	35	White perch				6,649					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	36	Yellow perch				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	37	Satinfin shiner				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	38	Rock bass				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	39	Northern pipefish				527					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	40	Redbreast sunfish				4					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	41	Atlantic needlefish				8					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	42	Crevalle jack				17					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	45	Weakfish				6,958					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	47	Common shiner				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	49	Lookdown				93					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	50	Herring family				8					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	54	Lined seahorse				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	55	Logperch				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	58	Fathead minnow				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	59	Carp and minnow family				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	60	Morone species				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	62	Tautog				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	63	Fourbeard rockling				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	64	Striped cusk-eel				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	67	Spot				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	68	Atlantic moonfish				8					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	71	Scup				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	72	Winter flounder				37					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	73	Inland silverside				4					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	74	Sea lamprey				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	75	Gizzard shad				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	76	Silver hake				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	77	Striped mullet				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	78	Threespine stickleback				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	79	Brown trout				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	80	Butterfish				1,749					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	81	White crappie				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	83	Northern pike				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	84	Green sunfish				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	85	Silver perch				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	86	Northern puffer				29					84	351.44	91	397.31	1-Jul-85	30-Sep-85

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1985	2	Summer	96	Sunfish family				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	98	Red hake				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	100	Central mudminnow				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	101	Grubby				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	102	Eastern mudminnow				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	103	White bass				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	104	Rough silverside				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	105	Longear sunfish				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	106	Summer flounder				77					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	108	Creek chub				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	109	Black bullhead				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	110	Striped searobin				83					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	111	Northern searobin				30					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	113	Atlantic croaker				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	114	Longhorn sculpin				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	116	Hickory shad				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	120	Conger eel				4					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	122	Warmouth				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	125	White mullet				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	126	Yellow bullhead				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	127	Channel catfish				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	130	Naked goby				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	132	Windowpane				34					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	133	Spotted hake				8					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	136	Northern stargazer				8					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	137	American sand lance				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	139	Fourspot flounder				130					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	140	Atlantic mackerel				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	141	Black sea bass				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	142	Smallmouth flounder				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	143	Rock gunnel				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	144	Inshore lizardfish				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	146	Silver lamprey				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	150	Goby family				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	157	New World silverside family				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	159	Sand flounder family				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	161	Pipefish family				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	162	Mackerel scad				4					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	164	Cunner				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	169	Gray snapper				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	172	Bigeye scad				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85

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1985	2	Summer	173	Striped burrfish				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	177	Spotfin butterflyfish				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	179	Planehead filefish				8					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	180	Atlantic cutlassfish				4					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	181	Pigfish				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	184	Freckled blenny				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	187	Margined madtom				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	205	Freshwater drum				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	206	King mackerel				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	209	Highfin goby				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	213	Oyster toadfish				0					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	754	Blue crab				10,171					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Summer	999	All fish taxa				61,472.00					84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Fall	1	Alewife				828					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	2	Bay anchovy				1,760					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	3	American shad				1,258					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	4	Bluefish				80					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	5	Bluegill				798					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	6	Brown bullhead				7					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	7	Pumpkinseed				196					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	8	Black crappie				46					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	9	Common carp				18					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	10	American eel				548					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	11	Goldfish				4					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	12	Golden shiner				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	13	Hogchoker				6,062					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	14	Tessellated darter				13					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	15	Banded killifish				432					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	16	Emerald shiner				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	17	Largemouth bass				11					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	18	Mummichog				5					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	19	Atlantic menhaden				178					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	21	Chain pickerel				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	22	Blueback herring				7,416					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	23	White sucker				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	24	Atlantic silverside				7					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	25	Rainbow smelt				737					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	26	Smallmouth bass				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	27	Shortnose sturgeon				0.00					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	28	Spottail shiner				128					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	29	Atlantic sturgeon				2.64					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	30	Striped bass				2,600					92	281.92	92	293.3	1-Oct-85	31-Dec-85

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1985	2	Fall	31	Fourspine stickleback				7					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	32	Atlantic tomcod				543					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	34	White catfish				1,072					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	35	White perch				190,631					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	36	Yellow perch				15					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	37	Satinfin shiner				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	38	Rock bass				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	39	Northern pipefish				238					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	40	Redbreast sunfish				8					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	41	Atlantic needlefish				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	42	Crevalle jack				105					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	45	Weakfish				1,441					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	47	Common shiner				5					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	49	Lookdown				48					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	50	Herring family				52					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	54	Lined seahorse				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	55	Logperch				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	58	Fathead minnow				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	59	Carp and minnow family				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	60	Morone species				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	62	Tautog				2					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	63	Fourbeard rockling				3					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	64	Striped cusk-eel				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	67	Spot				3					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	68	Atlantic moonfish				72					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	71	Scup				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	72	Winter flounder				47					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	73	Inland silverside				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	74	Sea lamprey				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	75	Gizzard shad				830					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	76	Silver hake				21					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	77	Striped mullet				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	78	Threespine stickleback				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	79	Brown trout				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	80	Butterfish				11					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	81	White crappie				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	83	Northern pike				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	84	Green sunfish				2					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	85	Silver perch				40					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	86	Northern puffer				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1985	2	Fall	96	Sunfish family				3					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	98	Red hake				6					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	100	Central mudminnow				3					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	101	Grubby				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	102	Eastern mudminnow				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	103	White bass				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	104	Rough silverside				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	105	Longear sunfish				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	106	Summer flounder				60					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	108	Creek chub				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	109	Black bullhead				5					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	110	Striped searobin				21					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	111	Northern searobin				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	113	Atlantic croaker				2					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	114	Longhorn sculpin				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	116	Hickory shad				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	120	Conger eel				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	122	Warmouth				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	125	White mullet				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	126	Yellow bullhead				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	127	Channel catfish				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	130	Naked goby				136					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	132	Windowpane				3					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	133	Spotted hake				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	136	Northern stargazer				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	137	American sand lance				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	139	Fourspot flounder				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	140	Atlantic mackerel				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	141	Black sea bass				18					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	142	Smallmouth flounder				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	143	Rock gunnel				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	144	Inshore lizardfish				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	146	Silver lamprey				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	150	Goby family				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	157	New World silverside family				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	159	Sand flounder family				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	161	Pipefish family				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	162	Mackerel scad				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	164	Cunner				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	169	Gray snapper				107					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	172	Bigeye scad				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1985	2	Fall	173	Striped burrfish				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	177	Spotfin butterflyfish				3					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	179	Planehead filefish				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	180	Atlantic cutlassfish				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	181	Pigfish				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	184	Freckled blenny				2					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	187	Margined madtom				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	205	Freshwater drum				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	206	King mackerel				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	209	Highfin goby				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	213	Oyster toadfish				0					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	754	Blue crab				1,466					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Fall	999	All fish taxa				218,701.64					92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	3	Winter	1	Alewife				468					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	2	Bay anchovy				23					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	3	American shad				8					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	4	Bluefish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	5	Bluegill				49					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	6	Brown bullhead				51					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	7	Pumpkinseed				402					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	8	Black crappie				11					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	9	Common carp				12					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	10	American eel				317					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	11	Goldfish				8					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	12	Golden shiner				19					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	13	Hogchoker				551					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	14	Tessellated darter				52					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	15	Banded killifish				18					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	16	Emerald shiner				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	17	Largemouth bass				8					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	18	Mummichog				4					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	19	Atlantic menhaden				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	21	Chain pickerel				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	22	Blueback herring				127					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	23	White sucker				5					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	24	Atlantic silverside				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	25	Rainbow smelt				1,448					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	26	Smallmouth bass				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	27	Shortnose sturgeon				0.00					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	28	Spottail shiner				338					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	29	Atlantic sturgeon				21.79					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	30	Striped bass				24,690					35	89.7	90	248.88	4-Jan-85	31-Mar-85

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1985	3	Winter	31	Fourspine stickleback				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	32	Atlantic tomcod				1,294					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	34	White catfish				1,230					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	35	White perch				152,405					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	36	Yellow perch				40					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	37	Satinfin shiner				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	38	Rock bass				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	39	Northern pipefish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	40	Redbreast sunfish				4					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	41	Atlantic needlefish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	42	Crevalle jack				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	45	Weakfish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	47	Common shiner				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	49	Lookdown				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	50	Herring family				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	54	Lined seahorse				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	55	Logperch				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	58	Fathead minnow				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	59	Carp and minnow family				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	60	Morone species				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	62	Tautog				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	63	Fourbeard rockling				11					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	64	Striped cusk-eel				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	67	Spot				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	68	Atlantic moonfish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	71	Scup				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	72	Winter flounder				22					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	73	Inland silverside				11					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	74	Sea lamprey				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	75	Gizzard shad				1,307					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	76	Silver hake				11					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	77	Striped mullet				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	78	Threespine stickleback				551					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	79	Brown trout				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	80	Butterfish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	81	White crappie				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	83	Northern pike				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	84	Green sunfish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	85	Silver perch				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	86	Northern puffer				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85

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1985	3	Winter	96	Sunfish family				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	98	Red hake				460					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	100	Central mudminnow				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	101	Grubby				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	102	Eastern mudminnow				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	103	White bass				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	104	Rough silverside				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	105	Longear sunfish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	106	Summer flounder				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	108	Creek chub				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	109	Black bullhead				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	110	Striped searobin				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	111	Northern searobin				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	113	Atlantic croaker				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	114	Longhorn sculpin				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	116	Hickory shad				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	120	Conger eel				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	122	Warmouth				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	125	White mullet				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	126	Yellow bullhead				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	127	Channel catfish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	130	Naked goby				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	132	Windowpane				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	133	Spotted hake				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	136	Northern stargazer				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	137	American sand lance				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	139	Fourspot flounder				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	140	Atlantic mackerel				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	141	Black sea bass				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	142	Smallmouth flounder				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	143	Rock gunnel				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	144	Inshore lizardfish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	146	Silver lamprey				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	150	Goby family				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	157	New World silverside family				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	159	Sand flounder family				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	161	Pipefish family				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	162	Mackerel scad				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	164	Cunner				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	169	Gray snapper				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	172	Bigeye scad				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85

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1985	3	Winter	173	Striped burrfish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	177	Spotfin butterflyfish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	179	Planehead filefish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	180	Atlantic cutlassfish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	181	Pigfish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	184	Freckled blenny				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	187	Margined madtom				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	205	Freshwater drum				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	206	King mackerel				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	209	Highfin goby				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	213	Oyster toadfish				0					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	754	Blue crab									35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Winter	999	All fish taxa				185,974.79					35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Spring	1	Alewife				1,769					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	2	Bay anchovy				3,082					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	3	American shad				25					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	4	Bluefish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	5	Bluegill				189					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	6	Brown bullhead				26					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	7	Pumpkinseed				73					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	8	Black crappie				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	9	Common carp				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	10	American eel				850					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	11	Goldfish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	12	Golden shiner				8					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	13	Hogchoker				11,180					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	14	Tessellated darter				50					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	15	Banded killifish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	16	Emerald shiner				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	17	Largemouth bass				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	18	Mummichog				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	19	Atlantic menhaden				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	21	Chain pickerel				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	22	Blueback herring				2,834					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	23	White sucker				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	24	Atlantic silverside				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	25	Rainbow smelt				224					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	26	Smallmouth bass				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	27	Shortnose sturgeon				0.00					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	28	Spottail shiner				88					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	29	Atlantic sturgeon				3.21					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	30	Striped bass				1,543					39	128.54	70	213.47	1-Apr-85	7-Jun-85

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1985	3	Spring	31	Fourspine stickleback				9					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	32	Atlantic tomcod				8,146					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	34	White catfish				133					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	35	White perch				18,962					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	36	Yellow perch				48					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	37	Satinfin shiner				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	38	Rock bass				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	39	Northern pipefish				157					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	40	Redbreast sunfish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	41	Atlantic needlefish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	42	Crevalle jack				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	45	Weakfish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	47	Common shiner				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	49	Lookdown				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	50	Herring family				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	54	Lined seahorse				17					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	55	Logperch				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	58	Fathead minnow				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	59	Carp and minnow family				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	60	Morone species				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	62	Tautog				9					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	63	Fourbeard rockling				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	64	Striped cusk-eel				361					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	67	Spot				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	68	Atlantic moonfish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	71	Scup				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	72	Winter flounder				8					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	73	Inland silverside				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	74	Sea lamprey				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	75	Gizzard shad				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	76	Silver hake				86					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	77	Striped mullet				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	78	Threespine stickleback				49					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	79	Brown trout				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	80	Butterfish				107					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	81	White crappie				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	83	Northern pike				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	84	Green sunfish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	85	Silver perch				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	86	Northern puffer				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1985	3	Spring	96	Sunfish family				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	98	Red hake				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	100	Central mudminnow				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	101	Grubby				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	102	Eastern mudminnow				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	103	White bass				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	104	Rough silverside				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	105	Longear sunfish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	106	Summer flounder				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	108	Creek chub				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	109	Black bullhead				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	110	Striped searobin				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	111	Northern searobin				8					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	113	Atlantic croaker				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	114	Longhorn sculpin				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	116	Hickory shad				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	120	Conger eel				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	122	Warmouth				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	125	White mullet				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	126	Yellow bullhead				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	127	Channel catfish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	130	Naked goby				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	132	Windowpane				639					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	133	Spotted hake				92					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	136	Northern stargazer				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	137	American sand lance				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	139	Fourspot flounder				18					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	140	Atlantic mackerel				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	141	Black sea bass				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	142	Smallmouth flounder				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	143	Rock gunnel				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	144	Inshore lizardfish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	146	Silver lamprey				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	150	Goby family				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	157	New World silverside family				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	159	Sand flounder family				27					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	161	Pipefish family				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	162	Mackerel scad				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	164	Cunner				9					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	169	Gray snapper				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	172	Bigeye scad				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85

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1985	3	Spring	173	Striped burrfish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	177	Spotfin butterflyfish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	179	Planehead filefish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	180	Atlantic cutlassfish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	181	Pigfish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	184	Freckled blenny				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	187	Margined madtom				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	205	Freshwater drum				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	206	King mackerel				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	209	Highfin goby				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	213	Oyster toadfish				0					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	754	Blue crab				416					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Spring	999	All fish taxa				50,828.21					39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Summer	1	Alewife				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	2	Bay anchovy				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	3	American shad				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	4	Bluefish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	5	Bluegill				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	6	Brown bullhead				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	7	Pumpkinseed				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	8	Black crappie				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	9	Common carp				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	10	American eel				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	11	Goldfish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	12	Golden shiner				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	13	Hogchoker				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	14	Tessellated darter				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	15	Banded killifish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	16	Emerald shiner				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	17	Largemouth bass				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	18	Mummichog				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	19	Atlantic menhaden				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	21	Chain pickerel				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	22	Blueback herring				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	23	White sucker				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	24	Atlantic silverside				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	25	Rainbow smelt				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	26	Smallmouth bass				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	27	Shortnose sturgeon				0.00					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	28	Spottail shiner				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	29	Atlantic sturgeon				0.00					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	30	Striped bass				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85

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1985	3	Summer	31	Fourspine stickleback				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	32	Atlantic tomcod				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	34	White catfish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	35	White perch				7					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	36	Yellow perch				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	37	Satinfin shiner				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	38	Rock bass				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	39	Northern pipefish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	40	Redbreast sunfish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	41	Atlantic needlefish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	42	Crevalle jack				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	45	Weakfish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	47	Common shiner				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	49	Lookdown				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	50	Herring family				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	54	Lined seahorse				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	55	Logperch				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	58	Fathead minnow				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	59	Carp and minnow family				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	60	Morone species				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	62	Tautog				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	63	Fourbeard rockling				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	64	Striped cusk-eel				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	67	Spot				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	68	Atlantic moonfish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	71	Scup				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	72	Winter flounder				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	73	Inland silverside				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	74	Sea lamprey				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	75	Gizzard shad				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	76	Silver hake				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	77	Striped mullet				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	78	Threespine stickleback				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	79	Brown trout				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	80	Butterfish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	81	White crappie				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	83	Northern pike				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	84	Green sunfish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	85	Silver perch				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	86	Northern puffer				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1985	3	Summer	96	Sunfish family				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	98	Red hake				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	100	Central mudminnow				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	101	Grubby				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	102	Eastern mudminnow				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	103	White bass				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	104	Rough silverside				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	105	Longear sunfish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	106	Summer flounder				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	108	Creek chub				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	109	Black bullhead				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	110	Striped searobin				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	111	Northern searobin				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	113	Atlantic croaker				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	114	Longhorn sculpin				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	116	Hickory shad				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	120	Conger eel				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	122	Warmouth				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	125	White mullet				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	126	Yellow bullhead				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	127	Channel catfish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	130	Naked goby				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	132	Windowpane				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	133	Spotted hake				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	136	Northern stargazer				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	137	American sand lance				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	139	Fourspot flounder				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	140	Atlantic mackerel				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	141	Black sea bass				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	142	Smallmouth flounder				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	143	Rock gunnel				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	144	Inshore lizardfish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	146	Silver lamprey				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	150	Goby family				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	157	New World silverside family				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	159	Sand flounder family				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	161	Pipefish family				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	162	Mackerel scad				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	164	Cunner				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	169	Gray snapper				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	172	Bigeye scad				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1985	3	Summer	173	Striped burrfish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	177	Spotfin butterflyfish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	179	Planehead filefish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	180	Atlantic cutlassfish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	181	Pigfish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	184	Freckled blenny				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	187	Margined madtom				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	205	Freshwater drum				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	206	King mackerel				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	209	Highfin goby				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	213	Oyster toadfish				0					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	754	Blue crab				4					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Summer	999	All fish taxa				7.00					4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Fall	1	Alewife				587					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	2	Bay anchovy				1,638					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	3	American shad				1,624					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	4	Bluefish				27					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	5	Bluegill				147					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	6	Brown bullhead				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	7	Pumpkinseed				109					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	8	Black crappie				46					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	9	Common carp				34					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	10	American eel				190					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	11	Goldfish				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	12	Golden shiner				12					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	13	Hogchoker				1,414					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	14	Tessellated darter				12					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	15	Banded killifish				97					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	16	Emerald shiner				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	17	Largemouth bass				12					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	18	Mummichog				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	19	Atlantic menhaden				47					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	21	Chain pickerel				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	22	Blueback herring				44,589					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	23	White sucker				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	24	Atlantic silverside				6					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	25	Rainbow smelt				134					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	26	Smallmouth bass				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	27	Shortnose sturgeon				0.00					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	28	Spottail shiner				133					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	29	Atlantic sturgeon				0.00					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	30	Striped bass				779					31	66.96	92	218.63	1-Oct-85	31-Dec-85

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1985	3	Fall	31	Fourspine stickleback				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	32	Atlantic tomcod				282					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	34	White catfish				243					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	35	White perch				68,538					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	36	Yellow perch				6					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	37	Satinfin shiner				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	38	Rock bass				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	39	Northern pipefish				257					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	40	Redbreast sunfish				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	41	Atlantic needlefish				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	42	Crevalle jack				92					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	45	Weakfish				510					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	47	Common shiner				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	49	Lookdown				26					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	50	Herring family				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	54	Lined seahorse				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	55	Logperch				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	58	Fathead minnow				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	59	Carp and minnow family				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	60	Morone species				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	62	Tautog				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	63	Fourbeard rockling				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	64	Striped cusk-eel				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	67	Spot				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	68	Atlantic moonfish				91					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	71	Scup				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	72	Winter flounder				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	73	Inland silverside				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	74	Sea lamprey				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	75	Gizzard shad				2,686					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	76	Silver hake				33					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	77	Striped mullet				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	78	Threespine stickleback				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	79	Brown trout				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	80	Butterfish				27					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	81	White crappie				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	83	Northern pike				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	84	Green sunfish				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	85	Silver perch				13					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	86	Northern puffer				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85

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1985	3	Fall	96	Sunfish family				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	98	Red hake				6					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	100	Central mudminnow				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	101	Grubby				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	102	Eastern mudminnow				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	103	White bass				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	104	Rough silverside				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	105	Longear sunfish				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	106	Summer flounder				13					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	108	Creek chub				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	109	Black bullhead				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	110	Striped searobin				26					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	111	Northern searobin				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	113	Atlantic croaker				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	114	Longhorn sculpin				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	116	Hickory shad				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	120	Conger eel				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	122	Warmouth				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	125	White mullet				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	126	Yellow bullhead				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	127	Channel catfish				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	130	Naked goby				7					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	132	Windowpane				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	133	Spotted hake				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	136	Northern stargazer				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	137	American sand lance				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	139	Fourspot flounder				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	140	Atlantic mackerel				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	141	Black sea bass				26					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	142	Smallmouth flounder				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	143	Rock gunnel				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	144	Inshore lizardfish				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	146	Silver lamprey				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	150	Goby family				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	157	New World silverside family				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	159	Sand flounder family				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	161	Pipefish family				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	162	Mackerel scad				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	164	Cunner				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	169	Gray snapper				38					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	172	Bigeye scad				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1985	3	Fall	173	Striped burrfish				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	177	Spotfin butterflyfish				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	179	Planehead filefish				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	180	Atlantic cutlassfish				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	181	Pigfish				7					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	184	Freckled blenny				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	187	Margined madtom				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	205	Freshwater drum				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	206	King mackerel				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	209	Highfin goby				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	213	Oyster toadfish				0					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	754	Blue crab				91					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Fall	999	All fish taxa				124,560.00					31	66.96	92	218.63	1-Oct-85	31-Dec-85
1986	2	Winter	1	Alewife				6					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	2	Bay anchovy				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	3	American shad				6					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	4	Bluefish				9					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	5	Bluegill				27					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	6	Brown bullhead				27					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	7	Pumpkinseed				271					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	8	Black crappie				6					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	9	Common carp				18					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	10	American eel				157					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	11	Goldfish				15					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	12	Golden shiner				38					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	13	Hogchoker				1,196					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	14	Tessellated darter				3					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	15	Banded killifish				180					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	16	Emerald shiner				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	17	Largemouth bass				3					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	18	Mummichog				6					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	19	Atlantic menhaden				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	21	Chain pickerel				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	22	Blueback herring				12					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	23	White sucker				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	24	Atlantic silverside				6					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	25	Rainbow smelt				466					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	26	Smallmouth bass				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	27	Shortnose sturgeon				0.00					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	28	Spottail shiner				126					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	29	Atlantic sturgeon				0.00					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	30	Striped bass				2,259					19	28.84	28	50.96	2-Jan-86	31-Mar-86

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1986	2	Winter	31	Fourspine stickleback				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	32	Atlantic tomcod				93					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	34	White catfish				446					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	35	White perch				143,528					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	36	Yellow perch				59					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	37	Satinfin shiner				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	38	Rock bass				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	39	Northern pipefish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	40	Redbreast sunfish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	41	Atlantic needlefish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	42	Crevalle jack				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	45	Weakfish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	47	Common shiner				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	49	Lookdown				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	50	Herring family				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	54	Lined seahorse				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	55	Logperch				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	58	Fathead minnow				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	59	Carp and minnow family				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	60	Morone species				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	62	Tautog				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	63	Fourbeard rockling				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	64	Striped cusk-eel				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	67	Spot				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	68	Atlantic moonfish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	71	Scup				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	72	Winter flounder				3					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	73	Inland silverside				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	74	Sea lamprey				6					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	75	Gizzard shad				1,548					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	76	Silver hake				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	77	Striped mullet				6					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	78	Threespine stickleback				25					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	79	Brown trout				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	80	Butterfish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	81	White crappie				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	83	Northern pike				3					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	84	Green sunfish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	85	Silver perch				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	86	Northern puffer				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1986	2	Winter	96	Sunfish family				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	98	Red hake				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	100	Central mudminnow				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	101	Grubby				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	102	Eastern mudminnow				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	103	White bass				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	104	Rough silverside				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	105	Longear sunfish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	106	Summer flounder				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	108	Creek chub				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	109	Black bullhead				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	110	Striped searobin				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	111	Northern searobin				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	113	Atlantic croaker				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	114	Longhorn sculpin				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	116	Hickory shad				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	120	Conger eel				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	122	Warmouth				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	125	White mullet				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	126	Yellow bullhead				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	127	Channel catfish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	130	Naked goby				6					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	132	Windowpane				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	133	Spotted hake				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	136	Northern stargazer				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	137	American sand lance				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	139	Fourspot flounder				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	140	Atlantic mackerel				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	141	Black sea bass				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	142	Smallmouth flounder				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	143	Rock gunnel				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	144	Inshore lizardfish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	146	Silver lamprey				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	150	Goby family				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	157	New World silverside family				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	159	Sand flounder family				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	161	Pipefish family				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	162	Mackerel scad				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	164	Cunner				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	169	Gray snapper				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	172	Bigeye scad				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1986	2	Winter	173	Striped burrfish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	177	Spotfin butterflyfish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	179	Planehead filefish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	180	Atlantic cutlassfish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	181	Pigfish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	184	Freckled blenny				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	187	Margined madtom				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	205	Freshwater drum				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	206	King mackerel				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	209	Highfin goby				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	213	Oyster toadfish				0					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	754	Blue crab				2					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Winter	999	All fish taxa				150,561.00					19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Spring	1	Alewife				560					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	2	Bay anchovy				27,814					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	3	American shad				942					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	4	Bluefish				513					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	5	Bluegill				219					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	6	Brown bullhead				51					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	7	Pumpkinseed				51					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	8	Black crappie				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	9	Common carp				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	10	American eel				711					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	11	Goldfish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	12	Golden shiner				25					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	13	Hogchoker				9,139					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	14	Tessellated darter				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	15	Banded killifish				103					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	16	Emerald shiner				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	17	Largemouth bass				27					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	18	Mummichog				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	19	Atlantic menhaden				5,149					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	21	Chain pickerel				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	22	Blueback herring				1,289					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	23	White sucker				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	24	Atlantic silverside				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	25	Rainbow smelt				5,626					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	26	Smallmouth bass				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	27	Shortnose sturgeon				0.00					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	28	Spottail shiner				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	29	Atlantic sturgeon				0.00					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	30	Striped bass				458					9	31.25	73	185.17	3-May-86	30-Jun-86

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1986	2	Spring	31	Fourspine stickleback				80					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	32	Atlantic tomcod				21,129					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	34	White catfish				102					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	35	White perch				9,357					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	36	Yellow perch				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	37	Satinfin shiner				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	38	Rock bass				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	39	Northern pipefish				19					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	40	Redbreast sunfish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	41	Atlantic needlefish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	42	Crevalle jack				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	45	Weakfish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	47	Common shiner				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	49	Lookdown				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	50	Herring family				322					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	54	Lined seahorse				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	55	Logperch				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	58	Fathead minnow				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	59	Carp and minnow family				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	60	Morone species				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	62	Tautog				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	63	Fourbeard rockling				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	64	Striped cusk-eel				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	67	Spot				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	68	Atlantic moonfish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	71	Scup				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	72	Winter flounder				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	73	Inland silverside				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	74	Sea lamprey				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	75	Gizzard shad				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	76	Silver hake				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	77	Striped mullet				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	78	Threespine stickleback				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	79	Brown trout				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	80	Butterfish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	81	White crappie				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	83	Northern pike				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	84	Green sunfish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	85	Silver perch				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	86	Northern puffer				0					9	31.25	73	185.17	3-May-86	30-Jun-86

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1986	2	Spring	96	Sunfish family				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	98	Red hake				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	100	Central mudminnow				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	101	Grubby				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	102	Eastern mudminnow				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	103	White bass				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	104	Rough silverside				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	105	Longear sunfish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	106	Summer flounder				3,109					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	108	Creek chub				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	109	Black bullhead				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	110	Striped searobin				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	111	Northern searobin				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	113	Atlantic croaker				26					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	114	Longhorn sculpin				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	116	Hickory shad				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	120	Conger eel				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	122	Warmouth				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	125	White mullet				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	126	Yellow bullhead				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	127	Channel catfish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	130	Naked goby				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	132	Windowpane				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	133	Spotted hake				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	136	Northern stargazer				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	137	American sand lance				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	139	Fourspot flounder				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	140	Atlantic mackerel				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	141	Black sea bass				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	142	Smallmouth flounder				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	143	Rock gunnel				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	144	Inshore lizardfish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	146	Silver lamprey				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	150	Goby family				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	157	New World silverside family				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	159	Sand flounder family				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	161	Pipefish family				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	162	Mackerel scad				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	164	Cunner				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	169	Gray snapper				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	172	Bigeye scad				0					9	31.25	73	185.17	3-May-86	30-Jun-86

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1986	2	Spring	173	Striped burrfish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	177	Spotfin butterflyfish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	179	Planehead filefish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	180	Atlantic cutlassfish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	181	Pigfish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	184	Freckled blenny				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	187	Margined madtom				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	205	Freshwater drum				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	206	King mackerel				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	209	Highfin goby				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	213	Oyster toadfish				0					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	754	Blue crab				158					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Spring	999	All fish taxa				86,820.00					9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Summer	1	Alewife				1,286					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	2	Bay anchovy				52,688					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	3	American shad				4,259					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	4	Bluefish				3,507					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	5	Bluegill				399					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	6	Brown bullhead				82					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	7	Pumpkinseed				109					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	8	Black crappie				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	9	Common carp				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	10	American eel				836					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	11	Goldfish				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	12	Golden shiner				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	13	Hogchoker				32,021					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	14	Tessellated darter				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	15	Banded killifish				138					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	16	Emerald shiner				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	17	Largemouth bass				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	18	Mummichog				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	19	Atlantic menhaden				1,169					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	21	Chain pickerel				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	22	Blueback herring				733					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	23	White sucker				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	24	Atlantic silverside				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	25	Rainbow smelt				3,708					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	26	Smallmouth bass				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	27	Shortnose sturgeon				0.00					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	28	Spottail shiner				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	29	Atlantic sturgeon				3.32					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	30	Striped bass				4,288					11	51.84	92	421.61	14-Jul-86	23-Sep-86

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1986	2	Summer	31	Fourspine stickleback				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	32	Atlantic tomcod				92,126					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	34	White catfish				321					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	35	White perch				35,293					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	36	Yellow perch				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	37	Satinfin shiner				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	38	Rock bass				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	39	Northern pipefish				30					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	40	Redbreast sunfish				102					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	41	Atlantic needlefish				30					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	42	Crevalle jack				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	45	Weakfish				6,230					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	47	Common shiner				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	49	Lookdown				26					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	50	Herring family				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	54	Lined seahorse				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	55	Logperch				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	58	Fathead minnow				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	59	Carp and minnow family				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	60	Morone species				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	62	Tautog				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	63	Fourbeard rockling				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	64	Striped cusk-eel				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	67	Spot				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	68	Atlantic moonfish				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	71	Scup				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	72	Winter flounder				26					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	73	Inland silverside				27					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	74	Sea lamprey				27					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	75	Gizzard shad				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	76	Silver hake				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	77	Striped mullet				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	78	Threespine stickleback				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	79	Brown trout				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	80	Butterfish				136					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	81	White crappie				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	83	Northern pike				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	84	Green sunfish				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	85	Silver perch				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	86	Northern puffer				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86

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1986	2	Summer	96	Sunfish family				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	98	Red hake				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	100	Central mudminnow				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	101	Grubby				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	102	Eastern mudminnow				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	103	White bass				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	104	Rough silverside				26					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	105	Longear sunfish				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	106	Summer flounder				1,174					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	108	Creek chub				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	109	Black bullhead				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	110	Striped searobin				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	111	Northern searobin				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	113	Atlantic croaker				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	114	Longhorn sculpin				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	116	Hickory shad				26					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	120	Conger eel				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	122	Warmouth				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	125	White mullet				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	126	Yellow bullhead				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	127	Channel catfish				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	130	Naked goby				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	132	Windowpane				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	133	Spotted hake				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	136	Northern stargazer				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	137	American sand lance				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	139	Fourspot flounder				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	140	Atlantic mackerel				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	141	Black sea bass				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	142	Smallmouth flounder				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	143	Rock gunnel				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	144	Inshore lizardfish				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	146	Silver lamprey				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	150	Goby family				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	157	New World silverside family				26					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	159	Sand flounder family				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	161	Pipefish family				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	162	Mackerel scad				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	164	Cunner				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	169	Gray snapper				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	172	Bigeye scad				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1986	2	Summer	173	Striped burrfish				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	177	Spotfin butterflyfish				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	179	Planehead filefish				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	180	Atlantic cutlassfish				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	181	Pigfish				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	184	Freckled blenny				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	187	Margined madtom				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	205	Freshwater drum				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	206	King mackerel				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	209	Highfin goby				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	213	Oyster toadfish				0					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	754	Blue crab				4,138					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Summer	999	All fish taxa				240,855.32					11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Fall	1	Alewife				173					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	2	Bay anchovy				4,992					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	3	American shad				1,216					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	4	Bluefish				15					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	5	Bluegill				683					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	6	Brown bullhead				55					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	7	Pumpkinseed				2,557					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	8	Black crappie				9					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	9	Common carp				44					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	10	American eel				497					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	11	Goldfish				12					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	12	Golden shiner				5					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	13	Hogchoker				8,096					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	14	Tessellated darter				153					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	15	Banded killifish				3,107					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	16	Emerald shiner				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	17	Largemouth bass				40					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	18	Mummichog				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	19	Atlantic menhaden				53					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	21	Chain pickerel				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	22	Blueback herring				5,185					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	23	White sucker				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	24	Atlantic silverside				29					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	25	Rainbow smelt				1,080					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	26	Smallmouth bass				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	27	Shortnose sturgeon				0.00					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	28	Spottail shiner				465					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	29	Atlantic sturgeon				2.22					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	30	Striped bass				1,412					69	201.52	92	286.21	2-Oct-86	30-Dec-86

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1986	2	Fall	31	Fourspine stickleback				119					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	32	Atlantic tomcod				4,030					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	34	White catfish				1,530					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	35	White perch				221,426					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	36	Yellow perch				310					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	37	Satinfin shiner				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	38	Rock bass				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	39	Northern pipefish				22					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	40	Redbreast sunfish				215					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	41	Atlantic needlefish				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	42	Crevalle jack				77					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	45	Weakfish				361					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	47	Common shiner				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	49	Lookdown				18					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	50	Herring family				22					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	54	Lined seahorse				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	55	Logperch				70					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	58	Fathead minnow				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	59	Carp and minnow family				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	60	Morone species				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	62	Tautog				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	63	Fourbeard rockling				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	64	Striped cusk-eel				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	67	Spot				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	68	Atlantic moonfish				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	71	Scup				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	72	Winter flounder				3					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	73	Inland silverside				15					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	74	Sea lamprey				5					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	75	Gizzard shad				225					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	76	Silver hake				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	77	Striped mullet				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	78	Threespine stickleback				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	79	Brown trout				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	80	Butterfish				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	81	White crappie				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	83	Northern pike				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	84	Green sunfish				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	85	Silver perch				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	86	Northern puffer				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86

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1986	2	Fall	96	Sunfish family				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	98	Red hake				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	100	Central mudminnow				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	101	Grubby				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	102	Eastern mudminnow				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	103	White bass				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	104	Rough silverside				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	105	Longear sunfish				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	106	Summer flounder				121					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	108	Creek chub				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	109	Black bullhead				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	110	Striped searobin				3					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	111	Northern searobin				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	113	Atlantic croaker				4					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	114	Longhorn sculpin				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	116	Hickory shad				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	120	Conger eel				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	122	Warmouth				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	125	White mullet				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	126	Yellow bullhead				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	127	Channel catfish				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	130	Naked goby				81					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	132	Windowpane				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	133	Spotted hake				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	136	Northern stargazer				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	137	American sand lance				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	139	Fourspot flounder				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	140	Atlantic mackerel				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	141	Black sea bass				10					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	142	Smallmouth flounder				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	143	Rock gunnel				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	144	Inshore lizardfish				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	146	Silver lamprey				3					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	150	Goby family				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	157	New World silverside family				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	159	Sand flounder family				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	161	Pipefish family				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	162	Mackerel scad				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	164	Cunner				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	169	Gray snapper				4					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	172	Bigeye scad				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86

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1986	2	Fall	173	Striped burrfish				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	177	Spotfin butterflyfish				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	179	Planehead filefish				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	180	Atlantic cutlassfish				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	181	Pigfish				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	184	Freckled blenny				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	187	Margined madtom				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	205	Freshwater drum				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	206	King mackerel				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	209	Highfin goby				0					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	213	Oyster toadfish				3					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	754	Blue crab				132					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Fall	999	All fish taxa				258,560.22					69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	3	Winter	1	Alewife				158					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	2	Bay anchovy				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	3	American shad				15					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	4	Bluefish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	5	Bluegill				71					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	6	Brown bullhead				37					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	7	Pumpkinseed				839					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	8	Black crappie				41					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	9	Common carp				48					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	10	American eel				284					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	11	Goldfish				48					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	12	Golden shiner				96					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	13	Hogchoker				1,006					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	14	Tessellated darter				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	15	Banded killifish				101					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	16	Emerald shiner				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	17	Largemouth bass				15					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	18	Mummichog				4					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	19	Atlantic menhaden				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	21	Chain pickerel				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	22	Blueback herring				22					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	23	White sucker				4					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	24	Atlantic silverside				4					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	25	Rainbow smelt				445					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	26	Smallmouth bass				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	27	Shortnose sturgeon				0.00					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	28	Spottail shiner				496					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	29	Atlantic sturgeon				4.28					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	30	Striped bass				1,590					35	82.97	90	224.09	2-Jan-86	30-Mar-86

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1986	3	Winter	31	Fourspine stickleback				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	32	Atlantic tomcod				528					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	34	White catfish				626					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	35	White perch				185,528					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	36	Yellow perch				93					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	37	Satinfin shiner				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	38	Rock bass				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	39	Northern pipefish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	40	Redbreast sunfish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	41	Atlantic needlefish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	42	Crevalle jack				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	45	Weakfish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	47	Common shiner				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	49	Lookdown				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	50	Herring family				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	54	Lined seahorse				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	55	Logperch				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	58	Fathead minnow				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	59	Carp and minnow family				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	60	Morone species				4					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	62	Tautog				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	63	Fourbeard rockling				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	64	Striped cusk-eel				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	67	Spot				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	68	Atlantic moonfish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	71	Scup				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	72	Winter flounder				11					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	73	Inland silverside				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	74	Sea lamprey				4					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	75	Gizzard shad				7,413					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	76	Silver hake				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	77	Striped mullet				4					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	78	Threespine stickleback				111					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	79	Brown trout				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	80	Butterfish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	81	White crappie				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	83	Northern pike				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	84	Green sunfish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	85	Silver perch				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	86	Northern puffer				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1986	3	Winter	96	Sunfish family				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	98	Red hake				41					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	100	Central mudminnow				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	101	Grubby				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	102	Eastern mudminnow				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	103	White bass				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	104	Rough silverside				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	105	Longear sunfish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	106	Summer flounder				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	108	Creek chub				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	109	Black bullhead				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	110	Striped searobin				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	111	Northern searobin				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	113	Atlantic croaker				4					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	114	Longhorn sculpin				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	116	Hickory shad				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	120	Conger eel				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	122	Warmouth				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	125	White mullet				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	126	Yellow bullhead				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	127	Channel catfish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	130	Naked goby				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	132	Windowpane				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	133	Spotted hake				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	136	Northern stargazer				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	137	American sand lance				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	139	Fourspot flounder				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	140	Atlantic mackerel				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	141	Black sea bass				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	142	Smallmouth flounder				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	143	Rock gunnel				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	144	Inshore lizardfish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	146	Silver lamprey				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	150	Goby family				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	157	New World silverside family				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	159	Sand flounder family				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	161	Pipefish family				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	162	Mackerel scad				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	164	Cunner				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	169	Gray snapper				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	172	Bigeye scad				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86

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1986	3	Winter	173	Striped burrfish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	177	Spotfin butterflyfish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	179	Planehead filefish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	180	Atlantic cutlassfish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	181	Pigfish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	184	Freckled blenny				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	187	Margined madtom				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	205	Freshwater drum				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	206	King mackerel				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	209	Highfin goby				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	213	Oyster toadfish				0					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	754	Blue crab				2					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Winter	999	All fish taxa				199,689.28					35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Spring	1	Alewife				653					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	2	Bay anchovy				9,307					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	3	American shad				222					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	4	Bluefish				1,001					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	5	Bluegill				22					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	6	Brown bullhead				30					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	7	Pumpkinseed				100					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	8	Black crappie				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	9	Common carp				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	10	American eel				173					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	11	Goldfish				8					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	12	Golden shiner				34					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	13	Hogchoker				3,834					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	14	Tessellated darter				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	15	Banded killifish				31					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	16	Emerald shiner				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	17	Largemouth bass				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	18	Mummichog				8					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	19	Atlantic menhaden				1,729					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	21	Chain pickerel				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	22	Blueback herring				1,777					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	23	White sucker				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	24	Atlantic silverside				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	25	Rainbow smelt				2,067					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	26	Smallmouth bass				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	27	Shortnose sturgeon				0.00					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	28	Spottail shiner				20					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	29	Atlantic sturgeon				0.00					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	30	Striped bass				132					19	48.24	83	224.79	2-Apr-86	30-Jun-86

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1986	3	Spring	31	Fourspine stickleback				7					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	32	Atlantic tomcod				8,039					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	34	White catfish				77					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	35	White perch				32,653					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	36	Yellow perch				84					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	37	Satinfin shiner				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	38	Rock bass				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	39	Northern pipefish				34					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	40	Redbreast sunfish				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	41	Atlantic needlefish				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	42	Crevalle jack				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	45	Weakfish				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	47	Common shiner				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	49	Lookdown				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	50	Herring family				24					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	54	Lined seahorse				7					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	55	Logperch				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	58	Fathead minnow				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	59	Carp and minnow family				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	60	Morone species				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	62	Tautog				8					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	63	Fourbeard rockling				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	64	Striped cusk-eel				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	67	Spot				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	68	Atlantic moonfish				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	71	Scup				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	72	Winter flounder				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	73	Inland silverside				16					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	74	Sea lamprey				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	75	Gizzard shad				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	76	Silver hake				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	77	Striped mullet				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	78	Threespine stickleback				7					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	79	Brown trout				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	80	Butterfish				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	81	White crappie				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	83	Northern pike				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	84	Green sunfish				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	85	Silver perch				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	86	Northern puffer				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86

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1986	3	Spring	96	Sunfish family				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	98	Red hake				69					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	100	Central mudminnow				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	101	Grubby				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	102	Eastern mudminnow				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	103	White bass				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	104	Rough silverside				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	105	Longear sunfish				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	106	Summer flounder				106					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	108	Creek chub				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	109	Black bullhead				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	110	Striped searobin				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	111	Northern searobin				7					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	113	Atlantic croaker				17					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	114	Longhorn sculpin				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	116	Hickory shad				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	120	Conger eel				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	122	Warmouth				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	125	White mullet				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	126	Yellow bullhead				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	127	Channel catfish				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	130	Naked goby				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	132	Windowpane				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	133	Spotted hake				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	136	Northern stargazer				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	137	American sand lance				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	139	Fourspot flounder				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	140	Atlantic mackerel				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	141	Black sea bass				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	142	Smallmouth flounder				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	143	Rock gunnel				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	144	Inshore lizardfish				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	146	Silver lamprey				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	150	Goby family				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	157	New World silverside family				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	159	Sand flounder family				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	161	Pipefish family				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	162	Mackerel scad				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	164	Cunner				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	169	Gray snapper				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	172	Bigeye scad				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1986	3	Spring	173	Striped burrfish				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	177	Spotfin butterflyfish				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	179	Planehead filefish				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	180	Atlantic cutlassfish				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	181	Pigfish				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	184	Freckled blenny				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	187	Margined madtom				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	205	Freshwater drum				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	206	King mackerel				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	209	Highfin goby				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	213	Oyster toadfish				0					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	754	Blue crab				63					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Spring	999	All fish taxa				62,303.00					19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Summer	1	Alewife				303					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	2	Bay anchovy				3,727					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	3	American shad				950					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	4	Bluefish				508					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	5	Bluegill				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	6	Brown bullhead				11					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	7	Pumpkinseed				22					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	8	Black crappie				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	9	Common carp				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	10	American eel				39					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	11	Goldfish				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	12	Golden shiner				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	13	Hogchoker				15,075					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	14	Tessellated darter				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	15	Banded killifish				5					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	16	Emerald shiner				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	17	Largemouth bass				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	18	Mummichog				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	19	Atlantic menhaden				1,445					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	21	Chain pickerel				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	22	Blueback herring				314					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	23	White sucker				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	24	Atlantic silverside				5					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	25	Rainbow smelt				69					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	26	Smallmouth bass				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	27	Shortnose sturgeon				0.00					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	28	Spottail shiner				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	29	Atlantic sturgeon				0.00					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	30	Striped bass				174					31	66.69	92	193.41	4-Jul-86	30-Sep-86

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1986	3	Summer	31	Fourspine stickleback				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	32	Atlantic tomcod				2,373					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	34	White catfish				40					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	35	White perch				1,611					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	36	Yellow perch				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	37	Satinfin shiner				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	38	Rock bass				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	39	Northern pipefish				6					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	40	Redbreast sunfish				5					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	41	Atlantic needlefish				6					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	42	Crevalle jack				17					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	45	Weakfish				1,575					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	47	Common shiner				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	49	Lookdown				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	50	Herring family				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	54	Lined seahorse				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	55	Logperch				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	58	Fathead minnow				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	59	Carp and minnow family				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	60	Morone species				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	62	Tautog				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	63	Fourbeard rockling				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	64	Striped cusk-eel				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	67	Spot				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	68	Atlantic moonfish				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	71	Scup				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	72	Winter flounder				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	73	Inland silverside				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	74	Sea lamprey				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	75	Gizzard shad				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	76	Silver hake				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	77	Striped mullet				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	78	Threespine stickleback				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	79	Brown trout				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	80	Butterfish				55					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	81	White crappie				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	83	Northern pike				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	84	Green sunfish				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	85	Silver perch				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	86	Northern puffer				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86

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1986	3	Summer	96	Sunfish family				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	98	Red hake				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	100	Central mudminnow				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	101	Grubby				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	102	Eastern mudminnow				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	103	White bass				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	104	Rough silverside				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	105	Longear sunfish				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	106	Summer flounder				153					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	108	Creek chub				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	109	Black bullhead				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	110	Striped searobin				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	111	Northern searobin				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	113	Atlantic croaker				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	114	Longhorn sculpin				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	116	Hickory shad				6					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	120	Conger eel				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	122	Warmouth				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	125	White mullet				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	126	Yellow bullhead				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	127	Channel catfish				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	130	Naked goby				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	132	Windowpane				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	133	Spotted hake				12					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	136	Northern stargazer				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	137	American sand lance				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	139	Fourspot flounder				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	140	Atlantic mackerel				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	141	Black sea bass				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	142	Smallmouth flounder				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	143	Rock gunnel				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	144	Inshore lizardfish				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	146	Silver lamprey				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	150	Goby family				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	157	New World silverside family				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	159	Sand flounder family				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	161	Pipefish family				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	162	Mackerel scad				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	164	Cunner				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	169	Gray snapper				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	172	Bigeye scad				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86

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1986	3	Summer	173	Striped burrfish				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	177	Spotfin butterflyfish				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	179	Planehead filefish				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	180	Atlantic cutlassfish				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	181	Pigfish				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	184	Freckled blenny				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	187	Margined madtom				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	205	Freshwater drum				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	206	King mackerel				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	209	Highfin goby				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	213	Oyster toadfish				0					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	754	Blue crab				621					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Summer	999	All fish taxa				28,506.00					31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Fall	1	Alewife				302					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	2	Bay anchovy				3,631					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	3	American shad				3,716					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	4	Bluefish				6					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	5	Bluegill				139					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	6	Brown bullhead				21					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	7	Pumpkinseed				221					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	8	Black crappie				5					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	9	Common carp				16					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	10	American eel				78					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	11	Goldfish				5					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	12	Golden shiner				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	13	Hogchoker				2,961					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	14	Tessellated darter				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	15	Banded killifish				132					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	16	Emerald shiner				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	17	Largemouth bass				5					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	18	Mummichog				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	19	Atlantic menhaden				123					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	21	Chain pickerel				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	22	Blueback herring				8,527					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	23	White sucker				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	24	Atlantic silverside				18					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	25	Rainbow smelt				195					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	26	Smallmouth bass				17					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	27	Shortnose sturgeon				0.00					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	28	Spottail shiner				147					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	29	Atlantic sturgeon				1.51					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	30	Striped bass				410					26	80.97	92	296.61	2-Oct-86	30-Dec-86

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1986	3	Fall	31	Fourspine stickleback				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	32	Atlantic tomcod				2,662					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	34	White catfish				336					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	35	White perch				40,194					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	36	Yellow perch				10					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	37	Satinfin shiner				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	38	Rock bass				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	39	Northern pipefish				6					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	40	Redbreast sunfish				6					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	41	Atlantic needlefish				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	42	Crevalle jack				83					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	45	Weakfish				227					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	47	Common shiner				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	49	Lookdown				12					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	50	Herring family				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	54	Lined seahorse				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	55	Logperch				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	58	Fathead minnow				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	59	Carp and minnow family				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	60	Morone species				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	62	Tautog				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	63	Fourbeard rockling				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	64	Striped cusk-eel				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	67	Spot				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	68	Atlantic moonfish				6					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	71	Scup				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	72	Winter flounder				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	73	Inland silverside				12					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	74	Sea lamprey				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	75	Gizzard shad				322					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	76	Silver hake				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	77	Striped mullet				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	78	Threespine stickleback				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	79	Brown trout				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	80	Butterfish				32					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	81	White crappie				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	83	Northern pike				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	84	Green sunfish				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	85	Silver perch				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	86	Northern puffer				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86

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1986	3	Fall	96	Sunfish family				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	98	Red hake				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	100	Central mudminnow				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	101	Grubby				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	102	Eastern mudminnow				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	103	White bass				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	104	Rough silverside				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	105	Longear sunfish				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	106	Summer flounder				57					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	108	Creek chub				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	109	Black bullhead				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	110	Striped searobin				6					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	111	Northern searobin				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	113	Atlantic croaker				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	114	Longhorn sculpin				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	116	Hickory shad				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	120	Conger eel				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	122	Warmouth				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	125	White mullet				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	126	Yellow bullhead				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	127	Channel catfish				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	130	Naked goby				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	132	Windowpane				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	133	Spotted hake				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	136	Northern stargazer				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	137	American sand lance				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	139	Fourspot flounder				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	140	Atlantic mackerel				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	141	Black sea bass				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	142	Smallmouth flounder				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	143	Rock gunnel				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	144	Inshore lizardfish				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	146	Silver lamprey				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	150	Goby family				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	157	New World silverside family				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	159	Sand flounder family				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	161	Pipefish family				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	162	Mackerel scad				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	164	Cunner				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	169	Gray snapper				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	172	Bigeye scad				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86

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1986	3	Fall	173	Striped burrfish				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	177	Spotfin butterflyfish				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	179	Planehead filefish				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	180	Atlantic cutlassfish				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	181	Pigfish				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	184	Freckled blenny				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	187	Margined madtom				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	205	Freshwater drum				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	206	King mackerel				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	209	Highfin goby				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	213	Oyster toadfish				0					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	754	Blue crab				89					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Fall	999	All fish taxa				64,648.51					26	80.97	92	296.61	2-Oct-86	30-Dec-86
1987	2	Winter	1	Alewife				11					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	2	Bay anchovy				49					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	3	American shad				7					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	4	Bluefish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	5	Bluegill				30					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	6	Brown bullhead				52					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	7	Pumpkinseed				729					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	8	Black crappie				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	9	Common carp				11					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	10	American eel				232					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	11	Goldfish				79					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	12	Golden shiner				123					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	13	Hogchoker				366					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	14	Tessellated darter				127					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	15	Banded killifish				1,885					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	16	Emerald shiner				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	17	Largemouth bass				7					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	18	Mummichog				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	19	Atlantic menhaden				7					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	21	Chain pickerel				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	22	Blueback herring				7					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	23	White sucker				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	24	Atlantic silverside				11					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	25	Rainbow smelt				1,948					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	26	Smallmouth bass				7					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	27	Shortnose sturgeon				4.11					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	28	Spottail shiner				2,109					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	29	Atlantic sturgeon				0.00					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	30	Striped bass				2,561					23	59.74	86	231.3	2-Jan-87	26-Mar-87

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1987	2	Winter	31	Fourspine stickleback				52					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	32	Atlantic tomcod				1,406					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	34	White catfish				318					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	35	White perch				257,663					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	36	Yellow perch				288					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	37	Satinfin shiner				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	38	Rock bass				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	39	Northern pipefish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	40	Redbreast sunfish				4					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	41	Atlantic needlefish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	42	Crevalle jack				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	45	Weakfish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	47	Common shiner				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	49	Lookdown				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	50	Herring family				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	54	Lined seahorse				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	55	Logperch				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	58	Fathead minnow				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	59	Carp and minnow family				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	60	Morone species				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	62	Tautog				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	63	Fourbeard rockling				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	64	Striped cusk-eel				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	67	Spot				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	68	Atlantic moonfish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	71	Scup				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	72	Winter flounder				56					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	73	Inland silverside				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	74	Sea lamprey				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	75	Gizzard shad				153					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	76	Silver hake				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	77	Striped mullet				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	78	Threespine stickleback				583					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	79	Brown trout				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	80	Butterfish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	81	White crappie				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	83	Northern pike				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	84	Green sunfish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	85	Silver perch				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	86	Northern puffer				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87

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1987	2	Winter	96	Sunfish family				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	98	Red hake				11					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	100	Central mudminnow				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	101	Grubby				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	102	Eastern mudminnow				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	103	White bass				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	104	Rough silverside				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	105	Longear sunfish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	106	Summer flounder				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	108	Creek chub				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	109	Black bullhead				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	110	Striped searobin				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	111	Northern searobin				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	113	Atlantic croaker				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	114	Longhorn sculpin				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	116	Hickory shad				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	120	Conger eel				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	122	Warmouth				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	125	White mullet				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	126	Yellow bullhead				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	127	Channel catfish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	130	Naked goby				30					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	132	Windowpane				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	133	Spotted hake				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	136	Northern stargazer				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	137	American sand lance				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	139	Fourspot flounder				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	140	Atlantic mackerel				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	141	Black sea bass				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	142	Smallmouth flounder				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	143	Rock gunnel				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	144	Inshore lizardfish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	146	Silver lamprey				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	150	Goby family				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	157	New World silverside family				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	159	Sand flounder family				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	161	Pipefish family				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	162	Mackerel scad				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	164	Cunner				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	169	Gray snapper				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	172	Bigeye scad				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1987	2	Winter	173	Striped burrfish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	177	Spotfin butterflyfish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	179	Planehead filefish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	180	Atlantic cutlassfish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	181	Pigfish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	184	Freckled blenny				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	187	Margined madtom				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	205	Freshwater drum				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	206	King mackerel				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	209	Highfin goby				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	213	Oyster toadfish				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	754	Blue crab				0					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Winter	999	All fish taxa				270,926.11					23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Spring	1	Alewife				319					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	2	Bay anchovy				193					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	3	American shad				57					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	4	Bluefish				1,399					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	5	Bluegill				102					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	6	Brown bullhead				57					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	7	Pumpkinseed				46					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	8	Black crappie				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	9	Common carp				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	10	American eel				1,911					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	11	Goldfish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	12	Golden shiner				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	13	Hogchoker				17,495					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	14	Tessellated darter				159					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	15	Banded killifish				114					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	16	Emerald shiner				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	17	Largemouth bass				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	18	Mummichog				68					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	19	Atlantic menhaden				216					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	21	Chain pickerel				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	22	Blueback herring				1,103					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	23	White sucker				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	24	Atlantic silverside				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	25	Rainbow smelt				4,641					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	26	Smallmouth bass				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	27	Shortnose sturgeon				0.00					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	28	Spottail shiner				80					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	29	Atlantic sturgeon				2.55					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	30	Striped bass				557					8	23.04	91	312.76	2-Apr-87	20-Jun-87

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1987	2	Spring	31	Fourspine stickleback				546					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	32	Atlantic tomcod				364,387					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	34	White catfish				341					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	35	White perch				111,145					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	36	Yellow perch				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	37	Satinfin shiner				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	38	Rock bass				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	39	Northern pipefish				91					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	40	Redbreast sunfish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	41	Atlantic needlefish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	42	Crevalle jack				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	45	Weakfish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	47	Common shiner				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	49	Lookdown				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	50	Herring family				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	54	Lined seahorse				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	55	Logperch				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	58	Fathead minnow				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	59	Carp and minnow family				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	60	Morone species				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	62	Tautog				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	63	Fourbeard rockling				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	64	Striped cusk-eel				34					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	67	Spot				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	68	Atlantic moonfish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	71	Scup				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	72	Winter flounder				171					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	73	Inland silverside				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	74	Sea lamprey				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	75	Gizzard shad				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	76	Silver hake				68					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	77	Striped mullet				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	78	Threespine stickleback				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	79	Brown trout				34					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	80	Butterfish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	81	White crappie				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	83	Northern pike				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	84	Green sunfish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	85	Silver perch				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	86	Northern puffer				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87

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1987	2	Spring	96	Sunfish family				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	98	Red hake				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	100	Central mudminnow				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	101	Grubby				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	102	Eastern mudminnow				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	103	White bass				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	104	Rough silverside				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	105	Longear sunfish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	106	Summer flounder				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	108	Creek chub				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	109	Black bullhead				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	110	Striped searobin				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	111	Northern searobin				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	113	Atlantic croaker				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	114	Longhorn sculpin				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	116	Hickory shad				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	120	Conger eel				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	122	Warmouth				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	125	White mullet				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	126	Yellow bullhead				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	127	Channel catfish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	130	Naked goby				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	132	Windowpane				34					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	133	Spotted hake				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	136	Northern stargazer				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	137	American sand lance				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	139	Fourspot flounder				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	140	Atlantic mackerel				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	141	Black sea bass				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	142	Smallmouth flounder				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	143	Rock gunnel				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	144	Inshore lizardfish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	146	Silver lamprey				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	150	Goby family				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	157	New World silverside family				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	159	Sand flounder family				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	161	Pipefish family				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	162	Mackerel scad				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	164	Cunner				34					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	169	Gray snapper				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	172	Bigeye scad				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87

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1987	2	Spring	173	Striped burrfish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	177	Spotfin butterflyfish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	179	Planehead filefish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	180	Atlantic cutlassfish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	181	Pigfish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	184	Freckled blenny				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	187	Margined madtom				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	205	Freshwater drum				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	206	King mackerel				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	209	Highfin goby				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	213	Oyster toadfish				0					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	754	Blue crab				27					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Spring	999	All fish taxa				505,404.55					8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Summer	1	Alewife				3,019					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	2	Bay anchovy				20,641					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	3	American shad				2,308					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	4	Bluefish				4,558					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	5	Bluegill				560					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	6	Brown bullhead				134					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	7	Pumpkinseed				209					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	8	Black crappie				209					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	9	Common carp				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	10	American eel				1,999					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	11	Goldfish				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	12	Golden shiner				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	13	Hogchoker				12,771					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	14	Tessellated darter				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	15	Banded killifish				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	16	Emerald shiner				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	17	Largemouth bass				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	18	Mummichog				84					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	19	Atlantic menhaden				552					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	21	Chain pickerel				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	22	Blueback herring				21,210					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	23	White sucker				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	24	Atlantic silverside				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	25	Rainbow smelt				611					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	26	Smallmouth bass				59					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	27	Shortnose sturgeon				0.00					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	28	Spottail shiner				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	29	Atlantic sturgeon				3.46					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	30	Striped bass				14,369					11	47.73	92	424.14	19-Jul-87	30-Sep-87

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1987	2	Summer	31	Fourspine stickleback				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	32	Atlantic tomcod				318,303					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	34	White catfish				435					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	35	White perch				45,289					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	36	Yellow perch				50					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	37	Satinfin shiner				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	38	Rock bass				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	39	Northern pipefish				176					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	40	Redbreast sunfish				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	41	Atlantic needlefish				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	42	Crevalle jack				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	45	Weakfish				2,593					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	47	Common shiner				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	49	Lookdown				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	50	Herring family				50					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	54	Lined seahorse				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	55	Logperch				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	58	Fathead minnow				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	59	Carp and minnow family				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	60	Morone species				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	62	Tautog				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	63	Fourbeard rockling				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	64	Striped cusk-eel				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	67	Spot				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	68	Atlantic moonfish				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	71	Scup				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	72	Winter flounder				251					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	73	Inland silverside				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	74	Sea lamprey				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	75	Gizzard shad				100					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	76	Silver hake				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	77	Striped mullet				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	78	Threespine stickleback				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	79	Brown trout				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	80	Butterfish				611					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	81	White crappie				75					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	83	Northern pike				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	84	Green sunfish				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	85	Silver perch				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	86	Northern puffer				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1987	2	Summer	96	Sunfish family				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	98	Red hake				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	100	Central mudminnow				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	101	Grubby				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	102	Eastern mudminnow				50					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	103	White bass				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	104	Rough silverside				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	105	Longear sunfish				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	106	Summer flounder				25					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	108	Creek chub				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	109	Black bullhead				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	110	Striped searobin				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	111	Northern searobin				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	113	Atlantic croaker				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	114	Longhorn sculpin				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	116	Hickory shad				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	120	Conger eel				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	122	Warmouth				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	125	White mullet				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	126	Yellow bullhead				25					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	127	Channel catfish				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	130	Naked goby				59					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	132	Windowpane				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	133	Spotted hake				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	136	Northern stargazer				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	137	American sand lance				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	139	Fourspot flounder				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	140	Atlantic mackerel				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	141	Black sea bass				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	142	Smallmouth flounder				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	143	Rock gunnel				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	144	Inshore lizardfish				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	146	Silver lamprey				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	150	Goby family				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	157	New World silverside family				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	159	Sand flounder family				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	161	Pipefish family				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	162	Mackerel scad				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	164	Cunner				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	169	Gray snapper				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	172	Bigeye scad				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87

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1987	2	Summer	173	Striped burrfish				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	177	Spotfin butterflyfish				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	179	Planehead filefish				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	180	Atlantic cutlassfish				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	181	Pigfish				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	184	Freckled blenny				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	187	Margined madtom				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	205	Freshwater drum				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	206	King mackerel				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	209	Highfin goby				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	213	Oyster toadfish				0					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	754	Blue crab				626					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Summer	999	All fish taxa				451,388.46					11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Fall	1	Alewife				213					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	2	Bay anchovy				3,903					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	3	American shad				267					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	4	Bluefish				71					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	5	Bluegill				121					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	6	Brown bullhead				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	7	Pumpkinseed				133					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	8	Black crappie				9					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	9	Common carp				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	10	American eel				99					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	11	Goldfish				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	12	Golden shiner				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	13	Hogchoker				4,186					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	14	Tessellated darter				3					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	15	Banded killifish				68					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	16	Emerald shiner				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	17	Largemouth bass				3					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	18	Mummichog				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	19	Atlantic menhaden				25					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	21	Chain pickerel				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	22	Blueback herring				12,939					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	23	White sucker				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	24	Atlantic silverside				13					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	25	Rainbow smelt				80					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	26	Smallmouth bass				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	27	Shortnose sturgeon				0.00					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	28	Spottail shiner				9					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	29	Atlantic sturgeon				0.00					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	30	Striped bass				7,392					52	54.38	77	74.51	1-Oct-87	18-Dec-87

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1987	2	Fall	31	Fourspine stickleback				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	32	Atlantic tomcod				472					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	34	White catfish				386					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	35	White perch				18,325					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	36	Yellow perch				12					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	37	Satinfin shiner				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	38	Rock bass				167					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	39	Northern pipefish				9					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	40	Redbreast sunfish				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	41	Atlantic needlefish				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	42	Crevalle jack				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	45	Weakfish				95					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	47	Common shiner				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	49	Lookdown				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	50	Herring family				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	54	Lined seahorse				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	55	Logperch				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	58	Fathead minnow				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	59	Carp and minnow family				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	60	Morone species				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	62	Tautog				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	63	Fourbeard rockling				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	64	Striped cusk-eel				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	67	Spot				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	68	Atlantic moonfish				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	71	Scup				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	72	Winter flounder				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	73	Inland silverside				4					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	74	Sea lamprey				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	75	Gizzard shad				27					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	76	Silver hake				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	77	Striped mullet				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	78	Threespine stickleback				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	79	Brown trout				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	80	Butterfish				13					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	81	White crappie				9					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	83	Northern pike				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	84	Green sunfish				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	85	Silver perch				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	86	Northern puffer				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87

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1987	2	Fall	96	Sunfish family				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	98	Red hake				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	100	Central mudminnow				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	101	Grubby				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	102	Eastern mudminnow				4					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	103	White bass				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	104	Rough silverside				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	105	Longear sunfish				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	106	Summer flounder				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	108	Creek chub				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	109	Black bullhead				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	110	Striped searobin				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	111	Northern searobin				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	113	Atlantic croaker				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	114	Longhorn sculpin				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	116	Hickory shad				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	120	Conger eel				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	122	Warmouth				61					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	125	White mullet				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	126	Yellow bullhead				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	127	Channel catfish				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	130	Naked goby				25					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	132	Windowpane				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	133	Spotted hake				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	136	Northern stargazer				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	137	American sand lance				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	139	Fourspot flounder				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	140	Atlantic mackerel				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	141	Black sea bass				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	142	Smallmouth flounder				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	143	Rock gunnel				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	144	Inshore lizardfish				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	146	Silver lamprey				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	150	Goby family				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	157	New World silverside family				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	159	Sand flounder family				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	161	Pipefish family				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	162	Mackerel scad				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	164	Cunner				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	169	Gray snapper				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	172	Bigeye scad				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1987	2	Fall	173	Striped burrfish				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	177	Spotfin butterflyfish				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	179	Planehead filefish				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	180	Atlantic cutlassfish				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	181	Pigfish				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	184	Freckled blenny				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	187	Margined madtom				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	205	Freshwater drum				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	206	King mackerel				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	209	Highfin goby				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	213	Oyster toadfish				0					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	754	Blue crab				318					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Fall	999	All fish taxa				49,143.00					52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	3	Winter	1	Alewife				26					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	2	Bay anchovy				82					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	3	American shad				5					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	4	Bluefish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	5	Bluegill				10					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	6	Brown bullhead				33					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	7	Pumpkinseed				532					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	8	Black crappie				3					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	9	Common carp				31					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	10	American eel				95					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	11	Goldfish				51					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	12	Golden shiner				23					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	13	Hogchoker				255					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	14	Tessellated darter				3					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	15	Banded killifish				339					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	16	Emerald shiner				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	17	Largemouth bass				10					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	18	Mummichog				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	19	Atlantic menhaden				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	21	Chain pickerel				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	22	Blueback herring				13					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	23	White sucker				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	24	Atlantic silverside				5					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	25	Rainbow smelt				512					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	26	Smallmouth bass				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	27	Shortnose sturgeon				0.00					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	28	Spottail shiner				329					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	29	Atlantic sturgeon				0.00					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	30	Striped bass				1,322					35	88.46	90	249.2	1-Jan-87	30-Mar-87

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1987	3	Winter	31	Fourspine stickleback				13					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	32	Atlantic tomcod				517					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	34	White catfish				275					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	35	White perch				126,172					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	36	Yellow perch				54					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	37	Satinfin shiner				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	38	Rock bass				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	39	Northern pipefish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	40	Redbreast sunfish				10					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	41	Atlantic needlefish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	42	Crevalle jack				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	45	Weakfish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	47	Common shiner				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	49	Lookdown				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	50	Herring family				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	54	Lined seahorse				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	55	Logperch				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	58	Fathead minnow				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	59	Carp and minnow family				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	60	Morone species				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	62	Tautog				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	63	Fourbeard rockling				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	64	Striped cusk-eel				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	67	Spot				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	68	Atlantic moonfish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	71	Scup				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	72	Winter flounder				3					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	73	Inland silverside				3					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	74	Sea lamprey				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	75	Gizzard shad				489					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	76	Silver hake				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	77	Striped mullet				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	78	Threespine stickleback				239					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	79	Brown trout				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	80	Butterfish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	81	White crappie				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	83	Northern pike				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	84	Green sunfish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	85	Silver perch				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	86	Northern puffer				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87

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1987	3	Winter	96	Sunfish family				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	98	Red hake				3					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	100	Central mudminnow				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	101	Grubby				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	102	Eastern mudminnow				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	103	White bass				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	104	Rough silverside				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	105	Longear sunfish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	106	Summer flounder				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	108	Creek chub				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	109	Black bullhead				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	110	Striped searobin				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	111	Northern searobin				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	113	Atlantic croaker				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	114	Longhorn sculpin				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	116	Hickory shad				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	120	Conger eel				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	122	Warmouth				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	125	White mullet				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	126	Yellow bullhead				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	127	Channel catfish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	130	Naked goby				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	132	Windowpane				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	133	Spotted hake				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	136	Northern stargazer				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	137	American sand lance				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	139	Fourspot flounder				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	140	Atlantic mackerel				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	141	Black sea bass				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	142	Smallmouth flounder				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	143	Rock gunnel				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	144	Inshore lizardfish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	146	Silver lamprey				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	150	Goby family				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	157	New World silverside family				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	159	Sand flounder family				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	161	Pipefish family				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	162	Mackerel scad				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	164	Cunner				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	169	Gray snapper				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	172	Bigeye scad				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87

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1987	3	Winter	173	Striped burrfish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	177	Spotfin butterflyfish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	179	Planehead filefish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	180	Atlantic cutlassfish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	181	Pigfish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	184	Freckled blenny				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	187	Margined madtom				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	205	Freshwater drum				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	206	King mackerel				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	209	Highfin goby				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	213	Oyster toadfish				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	754	Blue crab				0					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Winter	999	All fish taxa				131,457.00					35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Spring	1	Alewife				43					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	2	Bay anchovy				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	3	American shad				27					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	4	Bluefish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	5	Bluegill				29					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	6	Brown bullhead				7					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	7	Pumpkinseed				85					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	8	Black crappie				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	9	Common carp				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	10	American eel				15					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	11	Goldfish				3					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	12	Golden shiner				7					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	13	Hogchoker				2,154					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	14	Tessellated darter				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	15	Banded killifish				14					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	16	Emerald shiner				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	17	Largemouth bass				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	18	Mummichog				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	19	Atlantic menhaden				41					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	21	Chain pickerel				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	22	Blueback herring				177					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	23	White sucker				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	24	Atlantic silverside				9					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	25	Rainbow smelt				360					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	26	Smallmouth bass				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	27	Shortnose sturgeon				1.63					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	28	Spottail shiner				65					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	29	Atlantic sturgeon				0.00					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	30	Striped bass				87					20	50.5	34	87.9	2-Apr-87	2-May-87

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1987	3	Spring	31	Fourspine stickleback				36					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	32	Atlantic tomcod				99					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	34	White catfish				56					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	35	White perch				19,572					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	36	Yellow perch				29					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	37	Satinfin shiner				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	38	Rock bass				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	39	Northern pipefish				5					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	40	Redbreast sunfish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	41	Atlantic needlefish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	42	Crevalle jack				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	45	Weakfish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	47	Common shiner				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	49	Lookdown				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	50	Herring family				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	54	Lined seahorse				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	55	Logperch				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	58	Fathead minnow				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	59	Carp and minnow family				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	60	Morone species				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	62	Tautog				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	63	Fourbeard rockling				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	64	Striped cusk-eel				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	67	Spot				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	68	Atlantic moonfish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	71	Scup				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	72	Winter flounder				3					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	73	Inland silverside				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	74	Sea lamprey				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	75	Gizzard shad				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	76	Silver hake				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	77	Striped mullet				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	78	Threespine stickleback				3					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	79	Brown trout				3					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	80	Butterfish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	81	White crappie				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	83	Northern pike				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	84	Green sunfish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	85	Silver perch				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	86	Northern puffer				0					20	50.5	34	87.9	2-Apr-87	2-May-87

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1987	3	Spring	96	Sunfish family				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	98	Red hake				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	100	Central mudminnow				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	101	Grubby				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	102	Eastern mudminnow				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	103	White bass				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	104	Rough silverside				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	105	Longear sunfish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	106	Summer flounder				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	108	Creek chub				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	109	Black bullhead				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	110	Striped searobin				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	111	Northern searobin				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	113	Atlantic croaker				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	114	Longhorn sculpin				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	116	Hickory shad				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	120	Conger eel				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	122	Warmouth				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	125	White mullet				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	126	Yellow bullhead				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	127	Channel catfish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	130	Naked goby				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	132	Windowpane				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	133	Spotted hake				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	136	Northern stargazer				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	137	American sand lance				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	139	Fourspot flounder				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	140	Atlantic mackerel				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	141	Black sea bass				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	142	Smallmouth flounder				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	143	Rock gunnel				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	144	Inshore lizardfish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	146	Silver lamprey				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	150	Goby family				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	157	New World silverside family				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	159	Sand flounder family				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	161	Pipefish family				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	162	Mackerel scad				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	164	Cunner				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	169	Gray snapper				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	172	Bigeye scad				0					20	50.5	34	87.9	2-Apr-87	2-May-87

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1987	3	Spring	173	Striped burrfish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	177	Spotfin butterflyfish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	179	Planehead filefish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	180	Atlantic cutlassfish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	181	Pigfish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	184	Freckled blenny				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	187	Margined madtom				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	205	Freshwater drum				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	206	King mackerel				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	209	Highfin goby				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	213	Oyster toadfish				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	754	Blue crab				0					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Spring	999	All fish taxa				22,930.63					20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Summer	1	Alewife				392					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	2	Bay anchovy				4,467					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	3	American shad				329					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	4	Bluefish				615					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	5	Bluegill				35					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	6	Brown bullhead				3					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	7	Pumpkinseed				9					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	8	Black crappie				6					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	9	Common carp				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	10	American eel				84					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	11	Goldfish				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	12	Golden shiner				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	13	Hogchoker				3,642					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	14	Tessellated darter				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	15	Banded killifish				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	16	Emerald shiner				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	17	Largemouth bass				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	18	Mummichog				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	19	Atlantic menhaden				82					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	21	Chain pickerel				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	22	Blueback herring				955					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	23	White sucker				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	24	Atlantic silverside				3					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	25	Rainbow smelt				120					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	26	Smallmouth bass				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	27	Shortnose sturgeon				0.00					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	28	Spottail shiner				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	29	Atlantic sturgeon				1.79					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	30	Striped bass				553					31	90.63	49	136.15	20-Aug-87	27-Sep-87

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1987	3	Summer	31	Fourspine stickleback				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	32	Atlantic tomcod				285					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	34	White catfish				27					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	35	White perch				1,981					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	36	Yellow perch				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	37	Satinfin shiner				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	38	Rock bass				3					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	39	Northern pipefish				40					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	40	Redbreast sunfish				6					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	41	Atlantic needlefish				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	42	Crevalle jack				3					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	45	Weakfish				30					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	47	Common shiner				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	49	Lookdown				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	50	Herring family				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	54	Lined seahorse				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	55	Logperch				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	58	Fathead minnow				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	59	Carp and minnow family				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	60	Morone species				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	62	Tautog				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	63	Fourbeard rockling				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	64	Striped cusk-eel				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	67	Spot				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	68	Atlantic moonfish				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	71	Scup				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	72	Winter flounder				6					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	73	Inland silverside				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	74	Sea lamprey				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	75	Gizzard shad				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	76	Silver hake				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	77	Striped mullet				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	78	Threespine stickleback				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	79	Brown trout				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	80	Butterfish				36					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	81	White crappie				52					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	83	Northern pike				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	84	Green sunfish				70					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	85	Silver perch				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	86	Northern puffer				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87

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1987	3	Summer	96	Sunfish family				3					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	98	Red hake				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	100	Central mudminnow				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	101	Grubby				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	102	Eastern mudminnow				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	103	White bass				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	104	Rough silverside				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	105	Longear sunfish				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	106	Summer flounder				6					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	108	Creek chub				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	109	Black bullhead				3					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	110	Striped searobin				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	111	Northern searobin				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	113	Atlantic croaker				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	114	Longhorn sculpin				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	116	Hickory shad				3					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	120	Conger eel				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	122	Warmouth				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	125	White mullet				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	126	Yellow bullhead				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	127	Channel catfish				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	130	Naked goby				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	132	Windowpane				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	133	Spotted hake				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	136	Northern stargazer				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	137	American sand lance				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	139	Fourspot flounder				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	140	Atlantic mackerel				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	141	Black sea bass				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	142	Smallmouth flounder				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	143	Rock gunnel				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	144	Inshore lizardfish				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	146	Silver lamprey				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	150	Goby family				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	157	New World silverside family				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	159	Sand flounder family				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	161	Pipefish family				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	162	Mackerel scad				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	164	Cunner				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	169	Gray snapper				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	172	Bigeye scad				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1987	3	Summer	173	Striped burrfish				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	177	Spotfin butterflyfish				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	179	Planehead filefish				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	180	Atlantic cutlassfish				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	181	Pigfish				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	184	Freckled blenny				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	187	Margined madtom				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	205	Freshwater drum				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	206	King mackerel				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	209	Highfin goby				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	213	Oyster toadfish				0					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	754	Blue crab				287					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Summer	999	All fish taxa				13,850.79					31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Fall	1	Alewife				705					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	2	Bay anchovy				1,533					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	3	American shad				1,369					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	4	Bluefish				130					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	5	Bluegill				242					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	6	Brown bullhead				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	7	Pumpkinseed				161					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	8	Black crappie				8					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	9	Common carp				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	10	American eel				65					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	11	Goldfish				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	12	Golden shiner				8					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	13	Hogchoker				3,534					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	14	Tessellated darter				4					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	15	Banded killifish				96					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	16	Emerald shiner				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	17	Largemouth bass				19					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	18	Mummichog				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	19	Atlantic menhaden				23					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	21	Chain pickerel				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	22	Blueback herring				61,322					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	23	White sucker				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	24	Atlantic silverside				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	25	Rainbow smelt				790					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	26	Smallmouth bass				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	27	Shortnose sturgeon				0.00					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	28	Spottail shiner				27					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	29	Atlantic sturgeon				0.00					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	30	Striped bass				1,832					24	82.06	92	298.17	1-Oct-87	23-Dec-87

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1987	3	Fall	31	Fourspine stickleback				8					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	32	Atlantic tomcod				196					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	34	White catfish				529					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	35	White perch				20,290					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	36	Yellow perch				15					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	37	Satinfin shiner				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	38	Rock bass				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	39	Northern pipefish				8					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	40	Redbreast sunfish				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	41	Atlantic needlefish				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	42	Crevalle jack				130					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	45	Weakfish				280					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	47	Common shiner				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	49	Lookdown				8					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	50	Herring family				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	54	Lined seahorse				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	55	Logperch				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	58	Fathead minnow				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	59	Carp and minnow family				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	60	Morone species				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	62	Tautog				8					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	63	Fourbeard rockling				4					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	64	Striped cusk-eel				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	67	Spot				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	68	Atlantic moonfish				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	71	Scup				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	72	Winter flounder				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	73	Inland silverside				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	74	Sea lamprey				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	75	Gizzard shad				567					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	76	Silver hake				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	77	Striped mullet				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	78	Threespine stickleback				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	79	Brown trout				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	80	Butterfish				50					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	81	White crappie				42					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	83	Northern pike				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	84	Green sunfish				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	85	Silver perch				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	86	Northern puffer				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87

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1987	3	Fall	96	Sunfish family				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	98	Red hake				12					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	100	Central mudminnow				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	101	Grubby				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	102	Eastern mudminnow				8					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	103	White bass				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	104	Rough silverside				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	105	Longear sunfish				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	106	Summer flounder				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	108	Creek chub				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	109	Black bullhead				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	110	Striped searobin				19					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	111	Northern searobin				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	113	Atlantic croaker				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	114	Longhorn sculpin				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	116	Hickory shad				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	120	Conger eel				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	122	Warmouth				23					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	125	White mullet				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	126	Yellow bullhead				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	127	Channel catfish				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	130	Naked goby				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	132	Windowpane				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	133	Spotted hake				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	136	Northern stargazer				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	137	American sand lance				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	139	Fourspot flounder				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	140	Atlantic mackerel				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	141	Black sea bass				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	142	Smallmouth flounder				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	143	Rock gunnel				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	144	Inshore lizardfish				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	146	Silver lamprey				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	150	Goby family				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	157	New World silverside family				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	159	Sand flounder family				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	161	Pipefish family				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	162	Mackerel scad				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	164	Cunner				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	169	Gray snapper				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	172	Bigeye scad				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87

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1987	3	Fall	173	Striped burrfish				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	177	Spotfin butterflyfish				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	179	Planehead filefish				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	180	Atlantic cutlassfish				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	181	Pigfish				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	184	Freckled blenny				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	187	Margined madtom				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	205	Freshwater drum				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	206	King mackerel				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	209	Highfin goby				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	213	Oyster toadfish				0					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	754	Blue crab				700					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Fall	999	All fish taxa				94,065.00					24	82.06	92	298.17	1-Oct-87	23-Dec-87
1988	2	Winter	1	Alewife				78					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	2	Bay anchovy				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	3	American shad				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	4	Bluefish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	5	Bluegill				11					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	6	Brown bullhead				32					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	7	Pumpkinseed				449					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	8	Black crappie				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	9	Common carp				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	10	American eel				164					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	11	Goldfish				39					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	12	Golden shiner				93					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	13	Hogchoker				282					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	14	Tessellated darter				18					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	15	Banded killifish				271					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	16	Emerald shiner				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	17	Largemouth bass				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	18	Mummichog				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	19	Atlantic menhaden				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	21	Chain pickerel				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	22	Blueback herring				96					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	23	White sucker				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	24	Atlantic silverside				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	25	Rainbow smelt				1,341					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	26	Smallmouth bass				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	27	Shortnose sturgeon				1.98					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	28	Spottail shiner				941					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	29	Atlantic sturgeon				2.11					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	30	Striped bass				41,813					23	56.05	82	208.66	12-Jan-88	23-Mar-88

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1988	2	Winter	31	Fourspine stickleback				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	32	Atlantic tomcod				645					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	34	White catfish				1,219					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	35	White perch				337,116					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	36	Yellow perch				135					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	37	Satinfin shiner				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	38	Rock bass				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	39	Northern pipefish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	40	Redbreast sunfish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	41	Atlantic needlefish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	42	Crevalle jack				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	45	Weakfish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	47	Common shiner				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	49	Lookdown				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	50	Herring family				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	54	Lined seahorse				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	55	Logperch				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	58	Fathead minnow				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	59	Carp and minnow family				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	60	Morone species				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	62	Tautog				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	63	Fourbeard rockling				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	64	Striped cusk-eel				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	67	Spot				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	68	Atlantic moonfish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	71	Scup				4					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	72	Winter flounder				29					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	73	Inland silverside				4					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	74	Sea lamprey				4					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	75	Gizzard shad				3,590					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	76	Silver hake				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	77	Striped mullet				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	78	Threespine stickleback				1,437					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	79	Brown trout				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	80	Butterfish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	81	White crappie				14					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	83	Northern pike				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	84	Green sunfish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	85	Silver perch				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	86	Northern puffer				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88

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1988	2	Winter	96	Sunfish family				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	98	Red hake				11					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	100	Central mudminnow				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	101	Grubby				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	102	Eastern mudminnow				4					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	103	White bass				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	104	Rough silverside				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	105	Longear sunfish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	106	Summer flounder				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	108	Creek chub				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	109	Black bullhead				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	110	Striped searobin				4					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	111	Northern searobin				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	113	Atlantic croaker				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	114	Longhorn sculpin				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	116	Hickory shad				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	120	Conger eel				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	122	Warmouth				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	125	White mullet				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	126	Yellow bullhead				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	127	Channel catfish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	130	Naked goby				4					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	132	Windowpane				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	133	Spotted hake				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	136	Northern stargazer				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	137	American sand lance				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	139	Fourspot flounder				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	140	Atlantic mackerel				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	141	Black sea bass				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	142	Smallmouth flounder				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	143	Rock gunnel				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	144	Inshore lizardfish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	146	Silver lamprey				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	150	Goby family				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	157	New World silverside family				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	159	Sand flounder family				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	161	Pipefish family				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	162	Mackerel scad				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	164	Cunner				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	169	Gray snapper				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	172	Bigeye scad				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88

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1988	2	Winter	173	Striped burrfish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	177	Spotfin butterflyfish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	179	Planehead filefish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	180	Atlantic cutlassfish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	181	Pigfish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	184	Freckled blenny				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	187	Margined madtom				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	205	Freshwater drum				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	206	King mackerel				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	209	Highfin goby				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	213	Oyster toadfish				0					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	754	Blue crab				1					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Winter	999	All fish taxa				389,852.09					23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Spring	1	Alewife				415					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	2	Bay anchovy				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	3	American shad				30					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	4	Bluefish				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	5	Bluegill				91					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	6	Brown bullhead				30					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	7	Pumpkinseed				101					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	8	Black crappie				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	9	Common carp				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	10	American eel				536					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	11	Goldfish				30					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	12	Golden shiner				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	13	Hogchoker				19,221					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	14	Tessellated darter				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	15	Banded killifish				30					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	16	Emerald shiner				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	17	Largemouth bass				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	18	Mummichog				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	19	Atlantic menhaden				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	21	Chain pickerel				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	22	Blueback herring				738					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	23	White sucker				30					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	24	Atlantic silverside				30					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	25	Rainbow smelt				647					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	26	Smallmouth bass				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	27	Shortnose sturgeon				2.52					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	28	Spottail shiner				30					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	29	Atlantic sturgeon				0.00					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	30	Striped bass				1,213					9	25.77	91	291.49	28-Apr-88	6-Jun-88

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1988	2	Spring	31	Fourspine stickleback				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	32	Atlantic tomcod				6,714					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	34	White catfish				2,194					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	35	White perch				76,855					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	36	Yellow perch				51					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	37	Satinfin shiner				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	38	Rock bass				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	39	Northern pipefish				162					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	40	Redbreast sunfish				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	41	Atlantic needlefish				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	42	Crevalle jack				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	45	Weakfish				30					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	47	Common shiner				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	49	Lookdown				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	50	Herring family				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	54	Lined seahorse				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	55	Logperch				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	58	Fathead minnow				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	59	Carp and minnow family				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	60	Morone species				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	62	Tautog				51					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	63	Fourbeard rockling				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	64	Striped cusk-eel				30					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	67	Spot				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	68	Atlantic moonfish				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	71	Scup				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	72	Winter flounder				30					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	73	Inland silverside				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	74	Sea lamprey				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	75	Gizzard shad				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	76	Silver hake				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	77	Striped mullet				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	78	Threespine stickleback				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	79	Brown trout				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	80	Butterfish				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	81	White crappie				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	83	Northern pike				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	84	Green sunfish				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	85	Silver perch				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	86	Northern puffer				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88

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1988	2	Spring	96	Sunfish family				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	98	Red hake				81					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	100	Central mudminnow				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	101	Grubby				30					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	102	Eastern mudminnow				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	103	White bass				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	104	Rough silverside				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	105	Longear sunfish				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	106	Summer flounder				91					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	108	Creek chub				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	109	Black bullhead				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	110	Striped searobin				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	111	Northern searobin				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	113	Atlantic croaker				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	114	Longhorn sculpin				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	116	Hickory shad				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	120	Conger eel				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	122	Warmouth				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	125	White mullet				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	126	Yellow bullhead				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	127	Channel catfish				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	130	Naked goby				61					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	132	Windowpane				30					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	133	Spotted hake				1,183					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	136	Northern stargazer				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	137	American sand lance				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	139	Fourspot flounder				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	140	Atlantic mackerel				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	141	Black sea bass				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	142	Smallmouth flounder				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	143	Rock gunnel				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	144	Inshore lizardfish				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	146	Silver lamprey				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	150	Goby family				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	157	New World silverside family				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	159	Sand flounder family				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	161	Pipefish family				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	162	Mackerel scad				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	164	Cunner				30					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	169	Gray snapper				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	172	Bigeye scad				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1988	2	Spring	173	Striped burrfish				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	177	Spotfin butterflyfish				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	179	Planehead filefish				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	180	Atlantic cutlassfish				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	181	Pigfish				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	184	Freckled blenny				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	187	Margined madtom				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	205	Freshwater drum				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	206	King mackerel				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	209	Highfin goby				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	213	Oyster toadfish				0					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	754	Blue crab				1,304					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Spring	999	All fish taxa				110,797.52					9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Summer	1	Alewife				460					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	2	Bay anchovy				18,091					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	3	American shad				84					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	4	Bluefish				2,952					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	5	Bluegill				59					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	6	Brown bullhead				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	7	Pumpkinseed				42					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	8	Black crappie				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	9	Common carp				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	10	American eel				2,024					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	11	Goldfish				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	12	Golden shiner				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	13	Hogchoker				49,429					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	14	Tessellated darter				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	15	Banded killifish				25					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	16	Emerald shiner				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	17	Largemouth bass				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	18	Mummichog				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	19	Atlantic menhaden				142					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	21	Chain pickerel				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	22	Blueback herring				1,556					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	23	White sucker				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	24	Atlantic silverside				25					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	25	Rainbow smelt				3,529					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	26	Smallmouth bass				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	27	Shortnose sturgeon				0.00					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	28	Spottail shiner				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	29	Atlantic sturgeon				0.00					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	30	Striped bass				10,003					11	44.54	92	387	6-Jul-88	27-Sep-88

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1988	2	Summer	31	Fourspine stickleback				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	32	Atlantic tomcod				2,066					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	34	White catfish				109					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	35	White perch				84,239					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	36	Yellow perch				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	37	Satinfin shiner				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	38	Rock bass				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	39	Northern pipefish				33					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	40	Redbreast sunfish				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	41	Atlantic needlefish				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	42	Crevalle jack				192					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	45	Weakfish				18,024					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	47	Common shiner				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	49	Lookdown				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	50	Herring family				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	54	Lined seahorse				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	55	Logperch				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	58	Fathead minnow				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	59	Carp and minnow family				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	60	Morone species				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	62	Tautog				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	63	Fourbeard rockling				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	64	Striped cusk-eel				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	67	Spot				284					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	68	Atlantic moonfish				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	71	Scup				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	72	Winter flounder				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	73	Inland silverside				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	74	Sea lamprey				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	75	Gizzard shad				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	76	Silver hake				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	77	Striped mullet				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	78	Threespine stickleback				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	79	Brown trout				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	80	Butterfish				151					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	81	White crappie				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	83	Northern pike				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	84	Green sunfish				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	85	Silver perch				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	86	Northern puffer				0					11	44.54	92	387	6-Jul-88	27-Sep-88

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1988	2	Summer	96	Sunfish family				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	98	Red hake				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	100	Central mudminnow				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	101	Grubby				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	102	Eastern mudminnow				25					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	103	White bass				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	104	Rough silverside				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	105	Longear sunfish				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	106	Summer flounder				84					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	108	Creek chub				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	109	Black bullhead				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	110	Striped searobin				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	111	Northern searobin				50					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	113	Atlantic croaker				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	114	Longhorn sculpin				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	116	Hickory shad				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	120	Conger eel				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	122	Warmouth				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	125	White mullet				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	126	Yellow bullhead				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	127	Channel catfish				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	130	Naked goby				25					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	132	Windowpane				50					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	133	Spotted hake				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	136	Northern stargazer				84					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	137	American sand lance				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	139	Fourspot flounder				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	140	Atlantic mackerel				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	141	Black sea bass				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	142	Smallmouth flounder				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	143	Rock gunnel				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	144	Inshore lizardfish				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	146	Silver lamprey				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	150	Goby family				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	157	New World silverside family				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	159	Sand flounder family				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	161	Pipefish family				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	162	Mackerel scad				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	164	Cunner				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	169	Gray snapper				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	172	Bigeye scad				0					11	44.54	92	387	6-Jul-88	27-Sep-88

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1988	2	Summer	173	Striped burrfish				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	177	Spotfin butterflyfish				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	179	Planehead filefish				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	180	Atlantic cutlassfish				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	181	Pigfish				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	184	Freckled blenny				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	187	Margined madtom				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	205	Freshwater drum				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	206	King mackerel				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	209	Highfin goby				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	213	Oyster toadfish				0					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	754	Blue crab				16,220					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Summer	999	All fish taxa				193,837.00					11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Fall	1	Alewife				392					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	2	Bay anchovy				13,133					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	3	American shad				242					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	4	Bluefish				204					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	5	Bluegill				995					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	6	Brown bullhead				28					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	7	Pumpkinseed				651					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	8	Black crappie				3					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	9	Common carp				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	10	American eel				157					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	11	Goldfish				17					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	12	Golden shiner				6					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	13	Hogchoker				3,584					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	14	Tessellated darter				192					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	15	Banded killifish				532					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	16	Emerald shiner				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	17	Largemouth bass				6					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	18	Mummichog				3					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	19	Atlantic menhaden				20					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	21	Chain pickerel				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	22	Blueback herring				21,306					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	23	White sucker				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	24	Atlantic silverside				215					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	25	Rainbow smelt				134					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	26	Smallmouth bass				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	27	Shortnose sturgeon				2.52					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	28	Spottail shiner				304					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	29	Atlantic sturgeon				0.00					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	30	Striped bass				17,940					65	204.53	92	298.47	4-Oct-88	23-Dec-88

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1988	2	Fall	31	Fourspine stickleback				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	32	Atlantic tomcod				375					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	34	White catfish				2,025					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	35	White perch				160,588					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	36	Yellow perch				48					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	37	Satinfin shiner				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	38	Rock bass				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	39	Northern pipefish				539					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	40	Redbreast sunfish				3					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	41	Atlantic needlefish				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	42	Crevalle jack				177					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	45	Weakfish				4,222					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	47	Common shiner				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	49	Lookdown				81					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	50	Herring family				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	54	Lined seahorse				4					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	55	Logperch				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	58	Fathead minnow				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	59	Carp and minnow family				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	60	Morone species				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	62	Tautog				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	63	Fourbeard rockling				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	64	Striped cusk-eel				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	67	Spot				67					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	68	Atlantic moonfish				8					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	71	Scup				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	72	Winter flounder				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	73	Inland silverside				34					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	74	Sea lamprey				3					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	75	Gizzard shad				149					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	76	Silver hake				48					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	77	Striped mullet				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	78	Threespine stickleback				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	79	Brown trout				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	80	Butterfish				239					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	81	White crappie				3					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	83	Northern pike				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	84	Green sunfish				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	85	Silver perch				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	86	Northern puffer				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88

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1988	2	Fall	96	Sunfish family				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	98	Red hake				8					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	100	Central mudminnow				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	101	Grubby				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	102	Eastern mudminnow				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	103	White bass				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	104	Rough silverside				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	105	Longear sunfish				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	106	Summer flounder				8					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	108	Creek chub				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	109	Black bullhead				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	110	Striped searobin				110					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	111	Northern searobin				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	113	Atlantic croaker				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	114	Longhorn sculpin				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	116	Hickory shad				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	120	Conger eel				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	122	Warmouth				14					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	125	White mullet				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	126	Yellow bullhead				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	127	Channel catfish				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	130	Naked goby				45					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	132	Windowpane				137					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	133	Spotted hake				3					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	136	Northern stargazer				4					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	137	American sand lance				3					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	139	Fourspot flounder				8					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	140	Atlantic mackerel				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	141	Black sea bass				8					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	142	Smallmouth flounder				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	143	Rock gunnel				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	144	Inshore lizardfish				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	146	Silver lamprey				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	150	Goby family				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	157	New World silverside family				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	159	Sand flounder family				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	161	Pipefish family				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	162	Mackerel scad				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	164	Cunner				28					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	169	Gray snapper				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	172	Bigeye scad				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88

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1988	2	Fall	173	Striped burrfish				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	177	Spotfin butterflyfish				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	179	Planehead filefish				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	180	Atlantic cutlassfish				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	181	Pigfish				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	184	Freckled blenny				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	187	Margined madtom				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	205	Freshwater drum				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	206	King mackerel				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	209	Highfin goby				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	213	Oyster toadfish				0					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	754	Blue crab				23,838					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Fall	999	All fish taxa				229,055.52					65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	3	Winter	1	Alewife				36					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	2	Bay anchovy				8					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	3	American shad				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	4	Bluefish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	5	Bluegill				5					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	6	Brown bullhead				10					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	7	Pumpkinseed				153					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	8	Black crappie				5					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	9	Common carp				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	10	American eel				57					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	11	Goldfish				29					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	12	Golden shiner				34					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	13	Hogchoker				702					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	14	Tessellated darter				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	15	Banded killifish				29					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	16	Emerald shiner				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	17	Largemouth bass				18					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	18	Mummichog				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	19	Atlantic menhaden				3					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	21	Chain pickerel				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	22	Blueback herring				86					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	23	White sucker				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	24	Atlantic silverside				3					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	25	Rainbow smelt				341					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	26	Smallmouth bass				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	27	Shortnose sturgeon				0.00					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	28	Spottail shiner				351					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	29	Atlantic sturgeon				0.00					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	30	Striped bass				14,589					35	89.67	91	250.81	7-Jan-88	28-Mar-88

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1988	3	Winter	31	Fourspine stickleback				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	32	Atlantic tomcod				429					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	34	White catfish				861					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	35	White perch				104,395					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	36	Yellow perch				18					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	37	Satinfin shiner				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	38	Rock bass				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	39	Northern pipefish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	40	Redbreast sunfish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	41	Atlantic needlefish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	42	Crevalle jack				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	45	Weakfish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	47	Common shiner				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	49	Lookdown				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	50	Herring family				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	54	Lined seahorse				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	55	Logperch				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	58	Fathead minnow				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	59	Carp and minnow family				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	60	Morone species				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	62	Tautog				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	63	Fourbeard rockling				3					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	64	Striped cusk-eel				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	67	Spot				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	68	Atlantic moonfish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	71	Scup				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	72	Winter flounder				3					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	73	Inland silverside				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	74	Sea lamprey				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	75	Gizzard shad				11,513					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	76	Silver hake				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	77	Striped mullet				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	78	Threespine stickleback				159					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	79	Brown trout				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	80	Butterfish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	81	White crappie				23					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	83	Northern pike				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	84	Green sunfish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	85	Silver perch				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	86	Northern puffer				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1988	3	Winter	96	Sunfish family				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	98	Red hake				29					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	100	Central mudminnow				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	101	Grubby				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	102	Eastern mudminnow				3					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	103	White bass				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	104	Rough silverside				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	105	Longear sunfish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	106	Summer flounder				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	108	Creek chub				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	109	Black bullhead				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	110	Striped searobin				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	111	Northern searobin				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	113	Atlantic croaker				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	114	Longhorn sculpin				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	116	Hickory shad				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	120	Conger eel				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	122	Warmouth				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	125	White mullet				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	126	Yellow bullhead				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	127	Channel catfish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	130	Naked goby				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	132	Windowpane				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	133	Spotted hake				3					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	136	Northern stargazer				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	137	American sand lance				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	139	Fourspot flounder				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	140	Atlantic mackerel				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	141	Black sea bass				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	142	Smallmouth flounder				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	143	Rock gunnel				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	144	Inshore lizardfish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	146	Silver lamprey				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	150	Goby family				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	157	New World silverside family				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	159	Sand flounder family				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	161	Pipefish family				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	162	Mackerel scad				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	164	Cunner				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	169	Gray snapper				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	172	Bigeye scad				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1988	3	Winter	173	Striped burrfish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	177	Spotfin butterflyfish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	179	Planehead filefish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	180	Atlantic cutlassfish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	181	Pigfish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	184	Freckled blenny				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	187	Margined madtom				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	205	Freshwater drum				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	206	King mackerel				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	209	Highfin goby				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	213	Oyster toadfish				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	754	Blue crab				0					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Winter	999	All fish taxa				133,898.00					35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Spring	1	Alewife				354					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	2	Bay anchovy				89					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	3	American shad				50					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	4	Bluefish				50					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	5	Bluegill				23					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	6	Brown bullhead				8					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	7	Pumpkinseed				69					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	8	Black crappie				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	9	Common carp				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	10	American eel				108					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	11	Goldfish				8					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	12	Golden shiner				8					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	13	Hogchoker				3,708					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	14	Tessellated darter				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	15	Banded killifish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	16	Emerald shiner				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	17	Largemouth bass				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	18	Mummichog				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	19	Atlantic menhaden				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	21	Chain pickerel				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	22	Blueback herring				874					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	23	White sucker				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	24	Atlantic silverside				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	25	Rainbow smelt				989					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	26	Smallmouth bass				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	27	Shortnose sturgeon				0.00					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	28	Spottail shiner				8					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	29	Atlantic sturgeon				0.00					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	30	Striped bass				470					20	62.4	77	256.31	28-Apr-88	19-Jun-88

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1988	3	Spring	31	Fourspine stickleback				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	32	Atlantic tomcod				4,816					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	34	White catfish				404					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	35	White perch				29,583					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	36	Yellow perch				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	37	Satinfin shiner				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	38	Rock bass				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	39	Northern pipefish				58					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	40	Redbreast sunfish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	41	Atlantic needlefish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	42	Crevalle jack				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	45	Weakfish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	47	Common shiner				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	49	Lookdown				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	50	Herring family				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	54	Lined seahorse				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	55	Logperch				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	58	Fathead minnow				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	59	Carp and minnow family				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	60	Morone species				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	62	Tautog				23					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	63	Fourbeard rockling				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	64	Striped cusk-eel				8					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	67	Spot				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	68	Atlantic moonfish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	71	Scup				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	72	Winter flounder				8					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	73	Inland silverside				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	74	Sea lamprey				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	75	Gizzard shad				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	76	Silver hake				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	77	Striped mullet				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	78	Threespine stickleback				31					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	79	Brown trout				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	80	Butterfish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	81	White crappie				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	83	Northern pike				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	84	Green sunfish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	85	Silver perch				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	86	Northern puffer				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1988	3	Spring	96	Sunfish family				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	98	Red hake				8					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	100	Central mudminnow				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	101	Grubby				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	102	Eastern mudminnow				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	103	White bass				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	104	Rough silverside				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	105	Longear sunfish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	106	Summer flounder				27					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	108	Creek chub				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	109	Black bullhead				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	110	Striped searobin				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	111	Northern searobin				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	113	Atlantic croaker				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	114	Longhorn sculpin				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	116	Hickory shad				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	120	Conger eel				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	122	Warmouth				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	125	White mullet				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	126	Yellow bullhead				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	127	Channel catfish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	130	Naked goby				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	132	Windowpane				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	133	Spotted hake				400					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	136	Northern stargazer				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	137	American sand lance				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	139	Fourspot flounder				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	140	Atlantic mackerel				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	141	Black sea bass				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	142	Smallmouth flounder				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	143	Rock gunnel				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	144	Inshore lizardfish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	146	Silver lamprey				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	150	Goby family				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	157	New World silverside family				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	159	Sand flounder family				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	161	Pipefish family				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	162	Mackerel scad				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	164	Cunner				8					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	169	Gray snapper				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	172	Bigeye scad				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88

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1988	3	Spring	173	Striped burrfish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	177	Spotfin butterflyfish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	179	Planehead filefish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	180	Atlantic cutlassfish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	181	Pigfish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	184	Freckled blenny				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	187	Margined madtom				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	205	Freshwater drum				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	206	King mackerel				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	209	Highfin goby				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	213	Oyster toadfish				0					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	754	Blue crab				1,207					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Spring	999	All fish taxa				42,190.00					20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Summer	1	Alewife				300					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	2	Bay anchovy				3,846					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	3	American shad				83					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	4	Bluefish				418					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	5	Bluegill				12					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	6	Brown bullhead				6					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	7	Pumpkinseed				6					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	8	Black crappie				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	9	Common carp				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	10	American eel				74					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	11	Goldfish				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	12	Golden shiner				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	13	Hogchoker				9,455					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	14	Tessellated darter				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	15	Banded killifish				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	16	Emerald shiner				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	17	Largemouth bass				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	18	Mummichog				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	19	Atlantic menhaden				24					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	21	Chain pickerel				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	22	Blueback herring				1,445					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	23	White sucker				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	24	Atlantic silverside				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	25	Rainbow smelt				383					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	26	Smallmouth bass				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	27	Shortnose sturgeon				2.02					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	28	Spottail shiner				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	29	Atlantic sturgeon				0.00					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	30	Striped bass				861					31	139.67	92	432.08	3-Jul-88	27-Sep-88

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1988	3	Summer	31	Fourspine stickleback				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	32	Atlantic tomcod				3,535					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	34	White catfish				42					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	35	White perch				4,647					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	36	Yellow perch				6					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	37	Satinfin shiner				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	38	Rock bass				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	39	Northern pipefish				6					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	40	Redbreast sunfish				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	41	Atlantic needlefish				6					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	42	Crevalle jack				12					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	45	Weakfish				3,164					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	47	Common shiner				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	49	Lookdown				6					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	50	Herring family				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	54	Lined seahorse				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	55	Logperch				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	58	Fathead minnow				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	59	Carp and minnow family				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	60	Morone species				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	62	Tautog				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	63	Fourbeard rockling				6					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	64	Striped cusk-eel				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	67	Spot				18					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	68	Atlantic moonfish				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	71	Scup				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	72	Winter flounder				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	73	Inland silverside				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	74	Sea lamprey				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	75	Gizzard shad				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	76	Silver hake				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	77	Striped mullet				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	78	Threespine stickleback				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	79	Brown trout				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	80	Butterfish				223					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	81	White crappie				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	83	Northern pike				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	84	Green sunfish				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	85	Silver perch				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	86	Northern puffer				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88

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1988	3	Summer	96	Sunfish family				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	98	Red hake				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	100	Central mudminnow				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	101	Grubby				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	102	Eastern mudminnow				6					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	103	White bass				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	104	Rough silverside				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	105	Longear sunfish				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	106	Summer flounder				24					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	108	Creek chub				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	109	Black bullhead				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	110	Striped searobin				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	111	Northern searobin				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	113	Atlantic croaker				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	114	Longhorn sculpin				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	116	Hickory shad				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	120	Conger eel				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	122	Warmouth				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	125	White mullet				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	126	Yellow bullhead				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	127	Channel catfish				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	130	Naked goby				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	132	Windowpane				6					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	133	Spotted hake				12					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	136	Northern stargazer				6					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	137	American sand lance				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	139	Fourspot flounder				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	140	Atlantic mackerel				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	141	Black sea bass				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	142	Smallmouth flounder				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	143	Rock gunnel				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	144	Inshore lizardfish				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	146	Silver lamprey				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	150	Goby family				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	157	New World silverside family				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	159	Sand flounder family				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	161	Pipefish family				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	162	Mackerel scad				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	164	Cunner				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	169	Gray snapper				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	172	Bigeye scad				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88

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1988	3	Summer	173	Striped burrfish				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	177	Spotfin butterflyfish				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	179	Planehead filefish				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	180	Atlantic cutlassfish				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	181	Pigfish				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	184	Freckled blenny				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	187	Margined madtom				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	205	Freshwater drum				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	206	King mackerel				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	209	Highfin goby				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	213	Oyster toadfish				0					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	754	Blue crab				12,250					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Summer	999	All fish taxa				28,640.02					31	139.67	92	432.08	3-Jul-88	27-Sep-88
1988	3	Fall	1	Alewife				8					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	2	Bay anchovy				276					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	3	American shad				15					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	4	Bluefish				42					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	5	Bluegill				35					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	6	Brown bullhead				8					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	7	Pumpkinseed				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	8	Black crappie				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	9	Common carp				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	10	American eel				8					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	11	Goldfish				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	12	Golden shiner				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	13	Hogchoker				104					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	14	Tessellated darter				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	15	Banded killifish				15					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	16	Emerald shiner				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	17	Largemouth bass				8					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	18	Mummichog				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	19	Atlantic menhaden				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	21	Chain pickerel				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	22	Blueback herring				203					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	23	White sucker				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	24	Atlantic silverside				8					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	25	Rainbow smelt				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	26	Smallmouth bass				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	27	Shortnose sturgeon				0.00					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	28	Spottail shiner				42					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	29	Atlantic sturgeon				0.00					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	30	Striped bass				169					24	38.96	92	197.19	3-Oct-88	6-Dec-88

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1988	3	Fall	31	Fourspine stickleback				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	32	Atlantic tomcod				27					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	34	White catfish				38					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	35	White perch				5,930					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	36	Yellow perch				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	37	Satinfin shiner				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	38	Rock bass				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	39	Northern pipefish				15					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	40	Redbreast sunfish				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	41	Atlantic needlefish				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	42	Crevalle jack				15					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	45	Weakfish				230					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	47	Common shiner				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	49	Lookdown				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	50	Herring family				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	54	Lined seahorse				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	55	Logperch				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	58	Fathead minnow				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	59	Carp and minnow family				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	60	Morone species				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	62	Tautog				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	63	Fourbeard rockling				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	64	Striped cusk-eel				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	67	Spot				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	68	Atlantic moonfish				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	71	Scup				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	72	Winter flounder				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	73	Inland silverside				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	74	Sea lamprey				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	75	Gizzard shad				38					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	76	Silver hake				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	77	Striped mullet				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	78	Threespine stickleback				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	79	Brown trout				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	80	Butterfish				46					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	81	White crappie				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	83	Northern pike				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	84	Green sunfish				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	85	Silver perch				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	86	Northern puffer				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1988	3	Fall	96	Sunfish family				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	98	Red hake				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	100	Central mudminnow				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	101	Grubby				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	102	Eastern mudminnow				8					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	103	White bass				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	104	Rough silverside				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	105	Longear sunfish				8					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	106	Summer flounder				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	108	Creek chub				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	109	Black bullhead				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	110	Striped searobin				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	111	Northern searobin				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	113	Atlantic croaker				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	114	Longhorn sculpin				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	116	Hickory shad				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	120	Conger eel				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	122	Warmouth				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	125	White mullet				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	126	Yellow bullhead				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	127	Channel catfish				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	130	Naked goby				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	132	Windowpane				15					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	133	Spotted hake				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	136	Northern stargazer				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	137	American sand lance				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	139	Fourspot flounder				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	140	Atlantic mackerel				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	141	Black sea bass				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	142	Smallmouth flounder				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	143	Rock gunnel				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	144	Inshore lizardfish				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	146	Silver lamprey				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	150	Goby family				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	157	New World silverside family				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	159	Sand flounder family				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	161	Pipefish family				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	162	Mackerel scad				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	164	Cunner				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	169	Gray snapper				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	172	Bigeye scad				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1988	3	Fall	173	Striped burrfish				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	177	Spotfin butterflyfish				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	179	Planehead filefish				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	180	Atlantic cutlassfish				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	181	Pigfish				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	184	Freckled blenny				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	187	Margined madtom				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	205	Freshwater drum				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	206	King mackerel				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	209	Highfin goby				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	213	Oyster toadfish				0					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	754	Blue crab				1,776					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Fall	999	All fish taxa				7,311.00					24	38.96	92	197.19	3-Oct-88	6-Dec-88
1989	2	Winter	1	Alewife				4					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	2	Bay anchovy				359					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	3	American shad				8					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	4	Bluefish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	5	Bluegill				132					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	6	Brown bullhead				235					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	7	Pumpkinseed				647					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	8	Black crappie				4					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	9	Common carp				23					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	10	American eel				159					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	11	Goldfish				174					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	12	Golden shiner				19					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	13	Hogchoker				4,596					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	14	Tessellated darter				91					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	15	Banded killifish				1,630					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	16	Emerald shiner				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	17	Largemouth bass				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	18	Mummichog				19					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	19	Atlantic menhaden				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	21	Chain pickerel				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	22	Blueback herring				45					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	23	White sucker				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	24	Atlantic silverside				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	25	Rainbow smelt				242					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	26	Smallmouth bass				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	27	Shortnose sturgeon				0.00					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	28	Spottail shiner				1,729					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	29	Atlantic sturgeon				0.00					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	30	Striped bass				9,290					23	60.38	87	214.74	5-Jan-89	20-Mar-89

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1989	2	Winter	31	Fourspine stickleback				19					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	32	Atlantic tomcod				469					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	34	White catfish				1,468					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	35	White perch				372,655					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	36	Yellow perch				189					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	37	Satinfin shiner				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	38	Rock bass				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	39	Northern pipefish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	40	Redbreast sunfish				68					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	41	Atlantic needlefish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	42	Crevalle jack				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	45	Weakfish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	47	Common shiner				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	49	Lookdown				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	50	Herring family				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	54	Lined seahorse				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	55	Logperch				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	58	Fathead minnow				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	59	Carp and minnow family				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	60	Morone species				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	62	Tautog				4					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	63	Fourbeard rockling				11					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	64	Striped cusk-eel				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	67	Spot				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	68	Atlantic moonfish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	71	Scup				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	72	Winter flounder				11					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	73	Inland silverside				15					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	74	Sea lamprey				23					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	75	Gizzard shad				3,351					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	76	Silver hake				102					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	77	Striped mullet				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	78	Threespine stickleback				499					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	79	Brown trout				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	80	Butterfish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	81	White crappie				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	83	Northern pike				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	84	Green sunfish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	85	Silver perch				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	86	Northern puffer				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89

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1989	2	Winter	96	Sunfish family				8					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	98	Red hake				98					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	100	Central mudminnow				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	101	Grubby				8					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	102	Eastern mudminnow				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	103	White bass				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	104	Rough silverside				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	105	Longear sunfish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	106	Summer flounder				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	108	Creek chub				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	109	Black bullhead				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	110	Striped searobin				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	111	Northern searobin				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	113	Atlantic croaker				4					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	114	Longhorn sculpin				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	116	Hickory shad				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	120	Conger eel				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	122	Warmouth				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	125	White mullet				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	126	Yellow bullhead				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	127	Channel catfish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	130	Naked goby				4					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	132	Windowpane				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	133	Spotted hake				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	136	Northern stargazer				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	137	American sand lance				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	139	Fourspot flounder				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	140	Atlantic mackerel				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	141	Black sea bass				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	142	Smallmouth flounder				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	143	Rock gunnel				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	144	Inshore lizardfish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	146	Silver lamprey				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	150	Goby family				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	157	New World silverside family				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	159	Sand flounder family				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	161	Pipefish family				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	162	Mackerel scad				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	164	Cunner				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	169	Gray snapper				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	172	Bigeye scad				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89

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1989	2	Winter	173	Striped burrfish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	177	Spotfin butterflyfish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	179	Planehead filefish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	180	Atlantic cutlassfish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	181	Pigfish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	184	Freckled blenny				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	187	Margined madtom				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	205	Freshwater drum				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	206	King mackerel				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	209	Highfin goby				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	213	Oyster toadfish				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	754	Blue crab				0					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Winter	999	All fish taxa				398,412.00					23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Spring	1	Alewife									0	0	31	29.75		
1989	2	Spring	2	Bay anchovy									0	0	31	29.75		
1989	2	Spring	3	American shad									0	0	31	29.75		
1989	2	Spring	4	Bluefish									0	0	31	29.75		
1989	2	Spring	5	Bluegill									0	0	31	29.75		
1989	2	Spring	6	Brown bullhead									0	0	31	29.75		
1989	2	Spring	7	Pumpkinseed									0	0	31	29.75		
1989	2	Spring	8	Black crappie									0	0	31	29.75		
1989	2	Spring	9	Common carp									0	0	31	29.75		
1989	2	Spring	10	American eel									0	0	31	29.75		
1989	2	Spring	11	Goldfish									0	0	31	29.75		
1989	2	Spring	12	Golden shiner									0	0	31	29.75		
1989	2	Spring	13	Hogchoker									0	0	31	29.75		
1989	2	Spring	14	Tessellated darter									0	0	31	29.75		
1989	2	Spring	15	Banded killifish									0	0	31	29.75		
1989	2	Spring	16	Emerald shiner									0	0	31	29.75		
1989	2	Spring	17	Largemouth bass									0	0	31	29.75		
1989	2	Spring	18	Mummichog									0	0	31	29.75		
1989	2	Spring	19	Atlantic menhaden									0	0	31	29.75		
1989	2	Spring	21	Chain pickerel									0	0	31	29.75		
1989	2	Spring	22	Blueback herring									0	0	31	29.75		
1989	2	Spring	23	White sucker									0	0	31	29.75		
1989	2	Spring	24	Atlantic silverside									0	0	31	29.75		
1989	2	Spring	25	Rainbow smelt									0	0	31	29.75		
1989	2	Spring	26	Smallmouth bass									0	0	31	29.75		
1989	2	Spring	27	Shortnose sturgeon									0	0	31	29.75		
1989	2	Spring	28	Spottail shiner									0	0	31	29.75		
1989	2	Spring	29	Atlantic sturgeon									0	0	31	29.75		
1989	2	Spring	30	Striped bass									0	0	31	29.75		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1989	2	Spring	31	Fourspine stickleback									0	0	31	29.75		
1989	2	Spring	32	Atlantic tomcod									0	0	31	29.75		
1989	2	Spring	34	White catfish									0	0	31	29.75		
1989	2	Spring	35	White perch									0	0	31	29.75		
1989	2	Spring	36	Yellow perch									0	0	31	29.75		
1989	2	Spring	37	Satinfin shiner									0	0	31	29.75		
1989	2	Spring	38	Rock bass									0	0	31	29.75		
1989	2	Spring	39	Northern pipefish									0	0	31	29.75		
1989	2	Spring	40	Redbreast sunfish									0	0	31	29.75		
1989	2	Spring	41	Atlantic needlefish									0	0	31	29.75		
1989	2	Spring	42	Crevalle jack									0	0	31	29.75		
1989	2	Spring	45	Weakfish									0	0	31	29.75		
1989	2	Spring	47	Common shiner									0	0	31	29.75		
1989	2	Spring	49	Lookdown									0	0	31	29.75		
1989	2	Spring	50	Herring family									0	0	31	29.75		
1989	2	Spring	54	Lined seahorse									0	0	31	29.75		
1989	2	Spring	55	Logperch									0	0	31	29.75		
1989	2	Spring	58	Fathead minnow									0	0	31	29.75		
1989	2	Spring	59	Carp and minnow family									0	0	31	29.75		
1989	2	Spring	60	Morone species									0	0	31	29.75		
1989	2	Spring	62	Tautog									0	0	31	29.75		
1989	2	Spring	63	Fourbeard rockling									0	0	31	29.75		
1989	2	Spring	64	Striped cusk-eel									0	0	31	29.75		
1989	2	Spring	67	Spot									0	0	31	29.75		
1989	2	Spring	68	Atlantic moonfish									0	0	31	29.75		
1989	2	Spring	71	Scup									0	0	31	29.75		
1989	2	Spring	72	Winter flounder									0	0	31	29.75		
1989	2	Spring	73	Inland silverside									0	0	31	29.75		
1989	2	Spring	74	Sea lamprey									0	0	31	29.75		
1989	2	Spring	75	Gizzard shad									0	0	31	29.75		
1989	2	Spring	76	Silver hake									0	0	31	29.75		
1989	2	Spring	77	Striped mullet									0	0	31	29.75		
1989	2	Spring	78	Threespine stickleback									0	0	31	29.75		
1989	2	Spring	79	Brown trout									0	0	31	29.75		
1989	2	Spring	80	Butterfish									0	0	31	29.75		
1989	2	Spring	81	White crappie									0	0	31	29.75		
1989	2	Spring	83	Northern pike									0	0	31	29.75		
1989	2	Spring	84	Green sunfish									0	0	31	29.75		
1989	2	Spring	85	Silver perch									0	0	31	29.75		
1989	2	Spring	86	Northern puffer									0	0	31	29.75		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1989	2	Spring	96	Sunfish family									0	0	31	29.75		
1989	2	Spring	98	Red hake									0	0	31	29.75		
1989	2	Spring	100	Central mudminnow									0	0	31	29.75		
1989	2	Spring	101	Grubby									0	0	31	29.75		
1989	2	Spring	102	Eastern mudminnow									0	0	31	29.75		
1989	2	Spring	103	White bass									0	0	31	29.75		
1989	2	Spring	104	Rough silverside									0	0	31	29.75		
1989	2	Spring	105	Longear sunfish									0	0	31	29.75		
1989	2	Spring	106	Summer flounder									0	0	31	29.75		
1989	2	Spring	108	Creek chub									0	0	31	29.75		
1989	2	Spring	109	Black bullhead									0	0	31	29.75		
1989	2	Spring	110	Striped searobin									0	0	31	29.75		
1989	2	Spring	111	Northern searobin									0	0	31	29.75		
1989	2	Spring	113	Atlantic croaker									0	0	31	29.75		
1989	2	Spring	114	Longhorn sculpin									0	0	31	29.75		
1989	2	Spring	116	Hickory shad									0	0	31	29.75		
1989	2	Spring	120	Conger eel									0	0	31	29.75		
1989	2	Spring	122	Warmouth									0	0	31	29.75		
1989	2	Spring	125	White mullet									0	0	31	29.75		
1989	2	Spring	126	Yellow bullhead									0	0	31	29.75		
1989	2	Spring	127	Channel catfish									0	0	31	29.75		
1989	2	Spring	130	Naked goby									0	0	31	29.75		
1989	2	Spring	132	Windowpane									0	0	31	29.75		
1989	2	Spring	133	Spotted hake									0	0	31	29.75		
1989	2	Spring	136	Northern stargazer									0	0	31	29.75		
1989	2	Spring	137	American sand lance									0	0	31	29.75		
1989	2	Spring	139	Fourspot flounder									0	0	31	29.75		
1989	2	Spring	140	Atlantic mackerel									0	0	31	29.75		
1989	2	Spring	141	Black sea bass									0	0	31	29.75		
1989	2	Spring	142	Smallmouth flounder									0	0	31	29.75		
1989	2	Spring	143	Rock gunnel									0	0	31	29.75		
1989	2	Spring	144	Inshore lizardfish									0	0	31	29.75		
1989	2	Spring	146	Silver lamprey									0	0	31	29.75		
1989	2	Spring	150	Goby family									0	0	31	29.75		
1989	2	Spring	157	New World silverside family									0	0	31	29.75		
1989	2	Spring	159	Sand flounder family									0	0	31	29.75		
1989	2	Spring	161	Pipefish family									0	0	31	29.75		
1989	2	Spring	162	Mackerel scad									0	0	31	29.75		
1989	2	Spring	164	Cunner									0	0	31	29.75		
1989	2	Spring	169	Gray snapper									0	0	31	29.75		
1989	2	Spring	172	Bigeye scad									0	0	31	29.75		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1989	2	Spring	173	Striped burrfish									0	0	31	29.75		
1989	2	Spring	177	Spotfin butterflyfish									0	0	31	29.75		
1989	2	Spring	179	Planehead filefish									0	0	31	29.75		
1989	2	Spring	180	Atlantic cutlassfish									0	0	31	29.75		
1989	2	Spring	181	Pigfish									0	0	31	29.75		
1989	2	Spring	184	Freckled blenny									0	0	31	29.75		
1989	2	Spring	187	Margined madtom									0	0	31	29.75		
1989	2	Spring	205	Freshwater drum									0	0	31	29.75		
1989	2	Spring	206	King mackerel									0	0	31	29.75		
1989	2	Spring	209	Highfin goby									0	0	31	29.75		
1989	2	Spring	213	Oyster toadfish									0	0	31	29.75		
1989	2	Spring	754	Blue crab									0	0	31	29.75		
1989	2	Spring	999	All fish taxa									0	0	31	29.75		
1989	2	Summer	1	Alewife				68					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	2	Bay anchovy				313					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	3	American shad				1,270					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	4	Bluefish				598					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	5	Bluegill				248					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	6	Brown bullhead				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	7	Pumpkinseed				74					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	8	Black crappie				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	9	Common carp				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	10	American eel				368					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	11	Goldfish				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	12	Golden shiner				46					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	13	Hogchoker				38,769					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	14	Tessellated darter				46					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	15	Banded killifish				193					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	16	Emerald shiner				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	17	Largemouth bass				46					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	18	Mummichog				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	19	Atlantic menhaden				147					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	21	Chain pickerel				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	22	Blueback herring				230					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	23	White sucker				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	24	Atlantic silverside				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	25	Rainbow smelt				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	26	Smallmouth bass				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	27	Shortnose sturgeon				0.00					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	28	Spottail shiner				96					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	29	Atlantic sturgeon				0.00					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	30	Striped bass				4,664					10	42.37	92	412.42	10-Jul-89	19-Sep-89

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

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1989	2	Summer	31	Fourspine stickleback				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	32	Atlantic tomcod				708					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	34	White catfish				304					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	35	White perch				10,148					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	36	Yellow perch				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	37	Satinfin shiner				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	38	Rock bass				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	39	Northern pipefish				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	40	Redbreast sunfish				37					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	41	Atlantic needlefish				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	42	Crevalle jack				64					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	45	Weakfish				4,839					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	47	Common shiner				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	49	Lookdown				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	50	Herring family				37					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	54	Lined seahorse				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	55	Logperch				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	58	Fathead minnow				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	59	Carp and minnow family				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	60	Morone species				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	62	Tautog				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	63	Fourbeard rockling				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	64	Striped cusk-eel				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	67	Spot				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	68	Atlantic moonfish				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	71	Scup				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	72	Winter flounder				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	73	Inland silverside				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	74	Sea lamprey				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	75	Gizzard shad				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	76	Silver hake				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	77	Striped mullet				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	78	Threespine stickleback				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	79	Brown trout				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	80	Butterfish				28					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	81	White crappie				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	83	Northern pike				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	84	Green sunfish				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	85	Silver perch				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	86	Northern puffer				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

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1989	2	Summer	96	Sunfish family				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	98	Red hake				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	100	Central mudminnow				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	101	Grubby				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	102	Eastern mudminnow				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	103	White bass				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	104	Rough silverside				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	105	Longear sunfish				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	106	Summer flounder				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	108	Creek chub				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	109	Black bullhead				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	110	Striped searobin				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	111	Northern searobin				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	113	Atlantic croaker				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	114	Longhorn sculpin				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	116	Hickory shad				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	120	Conger eel				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	122	Warmouth				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	125	White mullet				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	126	Yellow bullhead				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	127	Channel catfish				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	130	Naked goby				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	132	Windowpane				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	133	Spotted hake				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	136	Northern stargazer				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	137	American sand lance				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	139	Fourspot flounder				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	140	Atlantic mackerel				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	141	Black sea bass				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	142	Smallmouth flounder				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	143	Rock gunnel				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	144	Inshore lizardfish				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	146	Silver lamprey				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	150	Goby family				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	157	New World silverside family				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	159	Sand flounder family				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	161	Pipefish family				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	162	Mackerel scad				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	164	Cunner				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	169	Gray snapper				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	172	Bigeye scad				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1989	2	Summer	173	Striped burrfish				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	177	Spotfin butterflyfish				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	179	Planehead filefish				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	180	Atlantic cutlassfish				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	181	Pigfish				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	184	Freckled blenny				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	187	Margined madtom				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	205	Freshwater drum				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	206	King mackerel				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	209	Highfin goby				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	213	Oyster toadfish				0					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	754	Blue crab				80,446					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Summer	999	All fish taxa				63,941.00					10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Fall	1	Alewife				12					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	2	Bay anchovy				824					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	3	American shad				2,160					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	4	Bluefish				29					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	5	Bluegill				866					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	6	Brown bullhead				64					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	7	Pumpkinseed				1,095					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	8	Black crappie				28					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	9	Common carp				9					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	10	American eel				767					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	11	Goldfish				32					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	12	Golden shiner				39					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	13	Hogchoker				43,512					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	14	Tessellated darter				150					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	15	Banded killifish				165					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	16	Emerald shiner				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	17	Largemouth bass				23					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	18	Mummichog				3					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	19	Atlantic menhaden				12					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	21	Chain pickerel				3					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	22	Blueback herring				22,958					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	23	White sucker				4					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	24	Atlantic silverside				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	25	Rainbow smelt				64					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	26	Smallmouth bass				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	27	Shortnose sturgeon				0.00					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	28	Spottail shiner				1,684					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	29	Atlantic sturgeon				0.00					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	30	Striped bass				7,093					63	177.73	92	262.05	2-Oct-89	31-Dec-89

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1989	2	Fall	31	Fourspine stickleback				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	32	Atlantic tomcod				4,905					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	34	White catfish				7,744					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	35	White perch				218,542					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	36	Yellow perch				485					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	37	Satinfin shiner				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	38	Rock bass				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	39	Northern pipefish				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	40	Redbreast sunfish				28					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	41	Atlantic needlefish				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	42	Crevalle jack				39					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	45	Weakfish				1,288					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	47	Common shiner				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	49	Lookdown				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	50	Herring family				66					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	54	Lined seahorse				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	55	Logperch				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	58	Fathead minnow				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	59	Carp and minnow family				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	60	Morone species				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	62	Tautog				6					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	63	Fourbeard rockling				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	64	Striped cusk-eel				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	67	Spot				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	68	Atlantic moonfish				4					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	71	Scup				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	72	Winter flounder				41					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	73	Inland silverside				15					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	74	Sea lamprey				6					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	75	Gizzard shad				9,789					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	76	Silver hake				166					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	77	Striped mullet				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	78	Threespine stickleback				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	79	Brown trout				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	80	Butterfish				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	81	White crappie				3					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	83	Northern pike				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	84	Green sunfish				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	85	Silver perch				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	86	Northern puffer				4					63	177.73	92	262.05	2-Oct-89	31-Dec-89

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1989	2	Fall	96	Sunfish family				108					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	98	Red hake				188					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	100	Central mudminnow				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	101	Grubby				3					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	102	Eastern mudminnow				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	103	White bass				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	104	Rough silverside				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	105	Longear sunfish				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	106	Summer flounder				19					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	108	Creek chub				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	109	Black bullhead				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	110	Striped searobin				70					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	111	Northern searobin				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	113	Atlantic croaker				6					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	114	Longhorn sculpin				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	116	Hickory shad				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	120	Conger eel				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	122	Warmouth				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	125	White mullet				3					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	126	Yellow bullhead				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	127	Channel catfish				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	130	Naked goby				48					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	132	Windowpane				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	133	Spotted hake				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	136	Northern stargazer				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	137	American sand lance				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	139	Fourspot flounder				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	140	Atlantic mackerel				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	141	Black sea bass				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	142	Smallmouth flounder				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	143	Rock gunnel				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	144	Inshore lizardfish				4					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	146	Silver lamprey				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	150	Goby family				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	157	New World silverside family				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	159	Sand flounder family				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	161	Pipefish family				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	162	Mackerel scad				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	164	Cunner				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	169	Gray snapper				13					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	172	Bigeye scad				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89

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1989	2	Fall	173	Striped burrfish				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	177	Spotfin butterflyfish				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	179	Planehead filefish				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	180	Atlantic cutlassfish				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	181	Pigfish				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	184	Freckled blenny				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	187	Margined madtom				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	205	Freshwater drum				25					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	206	King mackerel				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	209	Highfin goby				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	213	Oyster toadfish				0					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	754	Blue crab				12,986					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Fall	999	All fish taxa				325,414.00					63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	3	Winter	1	Alewife				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	2	Bay anchovy				127					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	3	American shad				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	4	Bluefish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	5	Bluegill				34					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	6	Brown bullhead				15					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	7	Pumpkinseed				168					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	8	Black crappie				4					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	9	Common carp				2					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	10	American eel				22					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	11	Goldfish				34					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	12	Golden shiner				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	13	Hogchoker				1,253					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	14	Tessellated darter				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	15	Banded killifish				77					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	16	Emerald shiner				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	17	Largemouth bass				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	18	Mummichog				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	19	Atlantic menhaden				2					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	21	Chain pickerel				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	22	Blueback herring				24					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	23	White sucker				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	24	Atlantic silverside				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	25	Rainbow smelt				30					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	26	Smallmouth bass				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	27	Shortnose sturgeon				0.00					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	28	Spottail shiner				151					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	29	Atlantic sturgeon				0.00					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	30	Striped bass				1,892					20	41.77	43	92.38	2-Jan-89	10-Feb-89

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1989	3	Winter	31	Fourspine stickleback				2					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	32	Atlantic tomcod				90					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	34	White catfish				163					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	35	White perch				72,085					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	36	Yellow perch				9					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	37	Satinfin shiner				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	38	Rock bass				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	39	Northern pipefish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	40	Redbreast sunfish				4					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	41	Atlantic needlefish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	42	Crevalle jack				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	45	Weakfish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	47	Common shiner				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	49	Lookdown				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	50	Herring family				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	54	Lined seahorse				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	55	Logperch				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	58	Fathead minnow				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	59	Carp and minnow family				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	60	Morone species				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	62	Tautog				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	63	Fourbeard rockling				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	64	Striped cusk-eel				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	67	Spot				2					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	68	Atlantic moonfish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	71	Scup				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	72	Winter flounder				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	73	Inland silverside				6					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	74	Sea lamprey				2					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	75	Gizzard shad				4,287					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	76	Silver hake				17					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	77	Striped mullet				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	78	Threespine stickleback				9					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	79	Brown trout				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	80	Butterfish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	81	White crappie				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	83	Northern pike				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	84	Green sunfish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	85	Silver perch				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	86	Northern puffer				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1989	3	Winter	96	Sunfish family				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	98	Red hake				26					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	100	Central mudminnow				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	101	Grubby				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	102	Eastern mudminnow				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	103	White bass				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	104	Rough silverside				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	105	Longear sunfish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	106	Summer flounder				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	108	Creek chub				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	109	Black bullhead				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	110	Striped searobin				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	111	Northern searobin				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	113	Atlantic croaker				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	114	Longhorn sculpin				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	116	Hickory shad				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	120	Conger eel				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	122	Warmouth				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	125	White mullet				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	126	Yellow bullhead				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	127	Channel catfish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	130	Naked goby				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	132	Windowpane				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	133	Spotted hake				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	136	Northern stargazer				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	137	American sand lance				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	139	Fourspot flounder				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	140	Atlantic mackerel				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	141	Black sea bass				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	142	Smallmouth flounder				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	143	Rock gunnel				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	144	Inshore lizardfish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	146	Silver lamprey				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	150	Goby family				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	157	New World silverside family				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	159	Sand flounder family				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	161	Pipefish family				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	162	Mackerel scad				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	164	Cunner				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	169	Gray snapper				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	172	Bigeye scad				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1989	3	Winter	173	Striped burrfish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	177	Spotfin butterflyfish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	179	Planehead filefish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	180	Atlantic cutlassfish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	181	Pigfish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	184	Freckled blenny				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	187	Margined madtom				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	205	Freshwater drum				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	206	King mackerel				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	209	Highfin goby				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	213	Oyster toadfish				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	754	Blue crab				0					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Winter	999	All fish taxa				80,537.00					20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Spring	1	Alewife									0	0	74	54.92		
1989	3	Spring	2	Bay anchovy									0	0	74	54.92		
1989	3	Spring	3	American shad									0	0	74	54.92		
1989	3	Spring	4	Bluefish									0	0	74	54.92		
1989	3	Spring	5	Bluegill									0	0	74	54.92		
1989	3	Spring	6	Brown bullhead									0	0	74	54.92		
1989	3	Spring	7	Pumpkinseed									0	0	74	54.92		
1989	3	Spring	8	Black crappie									0	0	74	54.92		
1989	3	Spring	9	Common carp									0	0	74	54.92		
1989	3	Spring	10	American eel									0	0	74	54.92		
1989	3	Spring	11	Goldfish									0	0	74	54.92		
1989	3	Spring	12	Golden shiner									0	0	74	54.92		
1989	3	Spring	13	Hogchoker									0	0	74	54.92		
1989	3	Spring	14	Tessellated darter									0	0	74	54.92		
1989	3	Spring	15	Banded killifish									0	0	74	54.92		
1989	3	Spring	16	Emerald shiner									0	0	74	54.92		
1989	3	Spring	17	Largemouth bass									0	0	74	54.92		
1989	3	Spring	18	Mummichog									0	0	74	54.92		
1989	3	Spring	19	Atlantic menhaden									0	0	74	54.92		
1989	3	Spring	21	Chain pickerel									0	0	74	54.92		
1989	3	Spring	22	Blueback herring									0	0	74	54.92		
1989	3	Spring	23	White sucker									0	0	74	54.92		
1989	3	Spring	24	Atlantic silverside									0	0	74	54.92		
1989	3	Spring	25	Rainbow smelt									0	0	74	54.92		
1989	3	Spring	26	Smallmouth bass									0	0	74	54.92		
1989	3	Spring	27	Shortnose sturgeon									0	0	74	54.92		
1989	3	Spring	28	Spottail shiner									0	0	74	54.92		
1989	3	Spring	29	Atlantic sturgeon									0	0	74	54.92		
1989	3	Spring	30	Striped bass									0	0	74	54.92		

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1989	3	Spring	31	Fourspine stickleback									0	0	74	54.92		
1989	3	Spring	32	Atlantic tomcod									0	0	74	54.92		
1989	3	Spring	34	White catfish									0	0	74	54.92		
1989	3	Spring	35	White perch									0	0	74	54.92		
1989	3	Spring	36	Yellow perch									0	0	74	54.92		
1989	3	Spring	37	Satinfin shiner									0	0	74	54.92		
1989	3	Spring	38	Rock bass									0	0	74	54.92		
1989	3	Spring	39	Northern pipefish									0	0	74	54.92		
1989	3	Spring	40	Redbreast sunfish									0	0	74	54.92		
1989	3	Spring	41	Atlantic needlefish									0	0	74	54.92		
1989	3	Spring	42	Crevalle jack									0	0	74	54.92		
1989	3	Spring	45	Weakfish									0	0	74	54.92		
1989	3	Spring	47	Common shiner									0	0	74	54.92		
1989	3	Spring	49	Lookdown									0	0	74	54.92		
1989	3	Spring	50	Herring family									0	0	74	54.92		
1989	3	Spring	54	Lined seahorse									0	0	74	54.92		
1989	3	Spring	55	Logperch									0	0	74	54.92		
1989	3	Spring	58	Fathead minnow									0	0	74	54.92		
1989	3	Spring	59	Carp and minnow family									0	0	74	54.92		
1989	3	Spring	60	Morone species									0	0	74	54.92		
1989	3	Spring	62	Tautog									0	0	74	54.92		
1989	3	Spring	63	Fourbeard rockling									0	0	74	54.92		
1989	3	Spring	64	Striped cusk-eel									0	0	74	54.92		
1989	3	Spring	67	Spot									0	0	74	54.92		
1989	3	Spring	68	Atlantic moonfish									0	0	74	54.92		
1989	3	Spring	71	Scup									0	0	74	54.92		
1989	3	Spring	72	Winter flounder									0	0	74	54.92		
1989	3	Spring	73	Inland silverside									0	0	74	54.92		
1989	3	Spring	74	Sea lamprey									0	0	74	54.92		
1989	3	Spring	75	Gizzard shad									0	0	74	54.92		
1989	3	Spring	76	Silver hake									0	0	74	54.92		
1989	3	Spring	77	Striped mullet									0	0	74	54.92		
1989	3	Spring	78	Threespine stickleback									0	0	74	54.92		
1989	3	Spring	79	Brown trout									0	0	74	54.92		
1989	3	Spring	80	Butterfish									0	0	74	54.92		
1989	3	Spring	81	White crappie									0	0	74	54.92		
1989	3	Spring	83	Northern pike									0	0	74	54.92		
1989	3	Spring	84	Green sunfish									0	0	74	54.92		
1989	3	Spring	85	Silver perch									0	0	74	54.92		
1989	3	Spring	86	Northern puffer									0	0	74	54.92		

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1989	3	Spring	96	Sunfish family									0	0	74	54.92		
1989	3	Spring	98	Red hake									0	0	74	54.92		
1989	3	Spring	100	Central mudminnow									0	0	74	54.92		
1989	3	Spring	101	Grubby									0	0	74	54.92		
1989	3	Spring	102	Eastern mudminnow									0	0	74	54.92		
1989	3	Spring	103	White bass									0	0	74	54.92		
1989	3	Spring	104	Rough silverside									0	0	74	54.92		
1989	3	Spring	105	Longear sunfish									0	0	74	54.92		
1989	3	Spring	106	Summer flounder									0	0	74	54.92		
1989	3	Spring	108	Creek chub									0	0	74	54.92		
1989	3	Spring	109	Black bullhead									0	0	74	54.92		
1989	3	Spring	110	Striped searobin									0	0	74	54.92		
1989	3	Spring	111	Northern searobin									0	0	74	54.92		
1989	3	Spring	113	Atlantic croaker									0	0	74	54.92		
1989	3	Spring	114	Longhorn sculpin									0	0	74	54.92		
1989	3	Spring	116	Hickory shad									0	0	74	54.92		
1989	3	Spring	120	Conger eel									0	0	74	54.92		
1989	3	Spring	122	Warmouth									0	0	74	54.92		
1989	3	Spring	125	White mullet									0	0	74	54.92		
1989	3	Spring	126	Yellow bullhead									0	0	74	54.92		
1989	3	Spring	127	Channel catfish									0	0	74	54.92		
1989	3	Spring	130	Naked goby									0	0	74	54.92		
1989	3	Spring	132	Windowpane									0	0	74	54.92		
1989	3	Spring	133	Spotted hake									0	0	74	54.92		
1989	3	Spring	136	Northern stargazer									0	0	74	54.92		
1989	3	Spring	137	American sand lance									0	0	74	54.92		
1989	3	Spring	139	Fourspot flounder									0	0	74	54.92		
1989	3	Spring	140	Atlantic mackerel									0	0	74	54.92		
1989	3	Spring	141	Black sea bass									0	0	74	54.92		
1989	3	Spring	142	Smallmouth flounder									0	0	74	54.92		
1989	3	Spring	143	Rock gunnel									0	0	74	54.92		
1989	3	Spring	144	Inshore lizardfish									0	0	74	54.92		
1989	3	Spring	146	Silver lamprey									0	0	74	54.92		
1989	3	Spring	150	Goby family									0	0	74	54.92		
1989	3	Spring	157	New World silverside family									0	0	74	54.92		
1989	3	Spring	159	Sand flounder family									0	0	74	54.92		
1989	3	Spring	161	Pipefish family									0	0	74	54.92		
1989	3	Spring	162	Mackerel scad									0	0	74	54.92		
1989	3	Spring	164	Cunner									0	0	74	54.92		
1989	3	Spring	169	Gray snapper									0	0	74	54.92		
1989	3	Spring	172	Bigeye scad									0	0	74	54.92		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1989	3	Spring	173	Striped burrfish									0	0	74	54.92		
1989	3	Spring	177	Spotfin butterflyfish									0	0	74	54.92		
1989	3	Spring	179	Planehead filefish									0	0	74	54.92		
1989	3	Spring	180	Atlantic cutlassfish									0	0	74	54.92		
1989	3	Spring	181	Pigfish									0	0	74	54.92		
1989	3	Spring	184	Freckled blenny									0	0	74	54.92		
1989	3	Spring	187	Margined madtom									0	0	74	54.92		
1989	3	Spring	205	Freshwater drum									0	0	74	54.92		
1989	3	Spring	206	King mackerel									0	0	74	54.92		
1989	3	Spring	209	Highfin goby									0	0	74	54.92		
1989	3	Spring	213	Oyster toadfish									0	0	74	54.92		
1989	3	Spring	754	Blue crab									0	0	74	54.92		
1989	3	Spring	999	All fish taxa									0	0	74	54.92		
1989	3	Summer	1	Alewife				656					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	2	Bay anchovy				3,689					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	3	American shad				2,588					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	4	Bluefish				597					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	5	Bluegill				74					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	6	Brown bullhead				24					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	7	Pumpkinseed				12					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	8	Black crappie				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	9	Common carp				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	10	American eel				89					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	11	Goldfish				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	12	Golden shiner				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	13	Hogchoker				24,576					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	14	Tessellated darter				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	15	Banded killifish				12					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	16	Emerald shiner				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	17	Largemouth bass				6					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	18	Mummichog				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	19	Atlantic menhaden				71					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	21	Chain pickerel				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	22	Blueback herring				2,119					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	23	White sucker				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	24	Atlantic silverside				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	25	Rainbow smelt				30					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	26	Smallmouth bass				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	27	Shortnose sturgeon				0.00					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	28	Spottail shiner				6					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	29	Atlantic sturgeon				0.00					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	30	Striped bass				1,015					31	135.59	92	412.71	2-Jul-89	25-Sep-89

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1989	3	Summer	31	Fourspine stickleback				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	32	Atlantic tomcod				1,416					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	34	White catfish				113					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	35	White perch				3,247					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	36	Yellow perch				6					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	37	Satinfin shiner				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	38	Rock bass				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	39	Northern pipefish				18					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	40	Redbreast sunfish				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	41	Atlantic needlefish				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	42	Crevalle jack				89					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	45	Weakfish				31,354					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	47	Common shiner				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	49	Lookdown				12					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	50	Herring family				573					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	54	Lined seahorse				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	55	Logperch				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	58	Fathead minnow				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	59	Carp and minnow family				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	60	Morone species				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	62	Tautog				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	63	Fourbeard rockling				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	64	Striped cusk-eel				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	67	Spot				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	68	Atlantic moonfish				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	71	Scup				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	72	Winter flounder				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	73	Inland silverside				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	74	Sea lamprey				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	75	Gizzard shad				6					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	76	Silver hake				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	77	Striped mullet				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	78	Threespine stickleback				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	79	Brown trout				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	80	Butterfish				157					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	81	White crappie				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	83	Northern pike				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	84	Green sunfish				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	85	Silver perch				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	86	Northern puffer				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1989	3	Summer	96	Sunfish family				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	98	Red hake				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	100	Central mudminnow				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	101	Grubby				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	102	Eastern mudminnow				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	103	White bass				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	104	Rough silverside				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	105	Longear sunfish				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	106	Summer flounder				77					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	108	Creek chub				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	109	Black bullhead				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	110	Striped searobin				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	111	Northern searobin				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	113	Atlantic croaker				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	114	Longhorn sculpin				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	116	Hickory shad				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	120	Conger eel				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	122	Warmouth				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	125	White mullet				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	126	Yellow bullhead				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	127	Channel catfish				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	130	Naked goby				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	132	Windowpane				24					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	133	Spotted hake				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	136	Northern stargazer				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	137	American sand lance				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	139	Fourspot flounder				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	140	Atlantic mackerel				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	141	Black sea bass				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	142	Smallmouth flounder				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	143	Rock gunnel				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	144	Inshore lizardfish				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	146	Silver lamprey				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	150	Goby family				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	157	New World silverside family				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	159	Sand flounder family				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	161	Pipefish family				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	162	Mackerel scad				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	164	Cunner				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	169	Gray snapper				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	172	Bigeye scad				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89

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1989	3	Summer	173	Striped burrfish				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	177	Spotfin butterflyfish				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	179	Planehead filefish				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	180	Atlantic cutlassfish				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	181	Pigfish				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	184	Freckled blenny				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	187	Margined madtom				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	205	Freshwater drum				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	206	King mackerel				6					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	209	Highfin goby				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	213	Oyster toadfish				0					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	754	Blue crab				85,272					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Summer	999	All fish taxa				72,662.00					31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Fall	1	Alewife				204					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	2	Bay anchovy				756					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	3	American shad				3,280					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	4	Bluefish				8					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	5	Bluegill				416					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	6	Brown bullhead				12					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	7	Pumpkinseed				64					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	8	Black crappie				8					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	9	Common carp				20					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	10	American eel				104					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	11	Goldfish				16					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	12	Golden shiner				12					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	13	Hogchoker				8,572					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	14	Tessellated darter				32					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	15	Banded killifish				48					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	16	Emerald shiner				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	17	Largemouth bass				8					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	18	Mummichog				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	19	Atlantic menhaden				16					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	21	Chain pickerel				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	22	Blueback herring				30,592					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	23	White sucker				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	24	Atlantic silverside				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	25	Rainbow smelt				24					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	26	Smallmouth bass				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	27	Shortnose sturgeon				1.82					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	28	Spottail shiner				240					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	29	Atlantic sturgeon				0.00					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	30	Striped bass				840					23	60.06	92	269.46	8-Oct-89	31-Dec-89

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1989	3	Fall	31	Fourspine stickleback				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	32	Atlantic tomcod				916					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	34	White catfish				1,620					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	35	White perch				72,380					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	36	Yellow perch				48					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	37	Satinfin shiner				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	38	Rock bass				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	39	Northern pipefish				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	40	Redbreast sunfish				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	41	Atlantic needlefish				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	42	Crevalle jack				8					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	45	Weakfish				548					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	47	Common shiner				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	49	Lookdown				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	50	Herring family				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	54	Lined seahorse				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	55	Logperch				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	58	Fathead minnow				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	59	Carp and minnow family				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	60	Morone species				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	62	Tautog				20					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	63	Fourbeard rockling				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	64	Striped cusk-eel				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	67	Spot				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	68	Atlantic moonfish				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	71	Scup				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	72	Winter flounder				8					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	73	Inland silverside				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	74	Sea lamprey				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	75	Gizzard shad				3,192					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	76	Silver hake				16					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	77	Striped mullet				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	78	Threespine stickleback				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	79	Brown trout				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	80	Butterfish				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	81	White crappie				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	83	Northern pike				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	84	Green sunfish				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	85	Silver perch				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	86	Northern puffer				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89

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1989	3	Fall	96	Sunfish family				16					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	98	Red hake				44					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	100	Central mudminnow				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	101	Grubby				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	102	Eastern mudminnow				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	103	White bass				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	104	Rough silverside				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	105	Longear sunfish				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	106	Summer flounder				8					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	108	Creek chub				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	109	Black bullhead				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	110	Striped searobin				56					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	111	Northern searobin				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	113	Atlantic croaker				8					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	114	Longhorn sculpin				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	116	Hickory shad				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	120	Conger eel				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	122	Warmouth				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	125	White mullet				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	126	Yellow bullhead				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	127	Channel catfish				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	130	Naked goby				16					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	132	Windowpane				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	133	Spotted hake				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	136	Northern stargazer				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	137	American sand lance				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	139	Fourspot flounder				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	140	Atlantic mackerel				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	141	Black sea bass				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	142	Smallmouth flounder				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	143	Rock gunnel				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	144	Inshore lizardfish				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	146	Silver lamprey				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	150	Goby family				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	157	New World silverside family				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	159	Sand flounder family				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	161	Pipefish family				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	162	Mackerel scad				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	164	Cunner				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	169	Gray snapper				8					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	172	Bigeye scad				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1989	3	Fall	173	Striped burrfish				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	177	Spotfin butterflyfish				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	179	Planehead filefish				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	180	Atlantic cutlassfish				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	181	Pigfish				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	184	Freckled blenny				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	187	Margined madtom				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	205	Freshwater drum				20					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	206	King mackerel				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	209	Highfin goby				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	213	Oyster toadfish				0					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	754	Blue crab				17,497					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Fall	999	All fish taxa				124,205.82					23	60.06	92	269.46	8-Oct-89	31-Dec-89
1990	2	Winter	1	Alewife				68					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	2	Bay anchovy				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	3	American shad				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	4	Bluefish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	5	Bluegill				38					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	6	Brown bullhead				30					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	7	Pumpkinseed				428					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	8	Black crappie				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	9	Common carp				30					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	10	American eel				330					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	11	Goldfish				53					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	12	Golden shiner				90					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	13	Hogchoker				5,453					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	14	Tessellated darter				15					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	15	Banded killifish				53					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	16	Emerald shiner				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	17	Largemouth bass				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	18	Mummichog				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	19	Atlantic menhaden				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	21	Chain pickerel				8					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	22	Blueback herring				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	23	White sucker				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	24	Atlantic silverside				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	25	Rainbow smelt				75					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	26	Smallmouth bass				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	27	Shortnose sturgeon				0.00					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	28	Spottail shiner				2,213					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	29	Atlantic sturgeon				0.00					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	30	Striped bass				6,840					12	32.21	90	185.17	9-Jan-90	13-Feb-90

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1990	2	Winter	31	Fourspine stickleback				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	32	Atlantic tomcod				2,670					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	34	White catfish				1,905					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	35	White perch				516,210					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	36	Yellow perch				683					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	37	Satinfin shiner				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	38	Rock bass				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	39	Northern pipefish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	40	Redbreast sunfish				8					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	41	Atlantic needlefish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	42	Crevalle jack				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	45	Weakfish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	47	Common shiner				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	49	Lookdown				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	50	Herring family				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	54	Lined seahorse				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	55	Logperch				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	58	Fathead minnow				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	59	Carp and minnow family				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	60	Morone species				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	62	Tautog				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	63	Fourbeard rockling				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	64	Striped cusk-eel				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	67	Spot				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	68	Atlantic moonfish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	71	Scup				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	72	Winter flounder				30					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	73	Inland silverside				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	74	Sea lamprey				23					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	75	Gizzard shad				2,235					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	76	Silver hake				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	77	Striped mullet				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	78	Threespine stickleback				135					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	79	Brown trout				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	80	Butterfish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	81	White crappie				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	83	Northern pike				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	84	Green sunfish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	85	Silver perch				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	86	Northern puffer				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90

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1990	2	Winter	96	Sunfish family				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	98	Red hake				8					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	100	Central mudminnow				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	101	Grubby				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	102	Eastern mudminnow				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	103	White bass				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	104	Rough silverside				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	105	Longear sunfish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	106	Summer flounder				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	108	Creek chub				8					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	109	Black bullhead				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	110	Striped searobin				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	111	Northern searobin				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	113	Atlantic croaker				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	114	Longhorn sculpin				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	116	Hickory shad				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	120	Conger eel				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	122	Warmouth				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	125	White mullet				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	126	Yellow bullhead				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	127	Channel catfish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	130	Naked goby				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	132	Windowpane				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	133	Spotted hake				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	136	Northern stargazer				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	137	American sand lance				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	139	Fourspot flounder				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	140	Atlantic mackerel				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	141	Black sea bass				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	142	Smallmouth flounder				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	143	Rock gunnel				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	144	Inshore lizardfish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	146	Silver lamprey				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	150	Goby family				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	157	New World silverside family				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	159	Sand flounder family				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	161	Pipefish family				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	162	Mackerel scad				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	164	Cunner				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	169	Gray snapper				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	172	Bigeye scad				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90

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1990	2	Winter	173	Striped burrfish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	177	Spotfin butterflyfish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	179	Planehead filefish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	180	Atlantic cutlassfish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	181	Pigfish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	184	Freckled blenny				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	187	Margined madtom				23					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	205	Freshwater drum				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	206	King mackerel				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	209	Highfin goby				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	213	Oyster toadfish				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	754	Blue crab				0					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Winter	999	All fish taxa				539,662.00					12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Spring	1	Alewife				260					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	2	Bay anchovy				78					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	3	American shad				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	4	Bluefish				4,212					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	5	Bluegill				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	6	Brown bullhead				46					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	7	Pumpkinseed				91					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	8	Black crappie				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	9	Common carp				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	10	American eel				1,560					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	11	Goldfish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	12	Golden shiner				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	13	Hogchoker				10,205					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	14	Tessellated darter				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	15	Banded killifish				46					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	16	Emerald shiner				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	17	Largemouth bass				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	18	Mummichog				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	19	Atlantic menhaden				288					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	21	Chain pickerel				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	22	Blueback herring				286					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	23	White sucker				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	24	Atlantic silverside				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	25	Rainbow smelt				195					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	26	Smallmouth bass				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	27	Shortnose sturgeon				0.00					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	28	Spottail shiner				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	29	Atlantic sturgeon				0.00					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	30	Striped bass				442					6	19.02	91	134.04	14-May-90	30-Jun-90

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	2	Spring	31	Fourspine stickleback				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	32	Atlantic tomcod				51,168					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	34	White catfish				819					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	35	White perch				47,359					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	36	Yellow perch				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	37	Satinfin shiner				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	38	Rock bass				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	39	Northern pipefish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	40	Redbreast sunfish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	41	Atlantic needlefish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	42	Crevalle jack				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	45	Weakfish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	47	Common shiner				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	49	Lookdown				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	50	Herring family				197					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	54	Lined seahorse				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	55	Logperch				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	58	Fathead minnow				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	59	Carp and minnow family				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	60	Morone species				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	62	Tautog				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	63	Fourbeard rockling				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	64	Striped cusk-eel				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	67	Spot				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	68	Atlantic moonfish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	71	Scup				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	72	Winter flounder				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	73	Inland silverside				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	74	Sea lamprey				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	75	Gizzard shad				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	76	Silver hake				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	77	Striped mullet				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	78	Threespine stickleback				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	79	Brown trout				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	80	Butterfish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	81	White crappie				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	83	Northern pike				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	84	Green sunfish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	85	Silver perch				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	86	Northern puffer				0					6	19.02	91	134.04	14-May-90	30-Jun-90

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	2	Spring	96	Sunfish family				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	98	Red hake				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	100	Central mudminnow				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	101	Grubby				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	102	Eastern mudminnow				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	103	White bass				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	104	Rough silverside				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	105	Longear sunfish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	106	Summer flounder				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	108	Creek chub				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	109	Black bullhead				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	110	Striped searobin				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	111	Northern searobin				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	113	Atlantic croaker				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	114	Longhorn sculpin				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	116	Hickory shad				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	120	Conger eel				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	122	Warmouth				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	125	White mullet				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	126	Yellow bullhead				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	127	Channel catfish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	130	Naked goby				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	132	Windowpane				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	133	Spotted hake				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	136	Northern stargazer				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	137	American sand lance				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	139	Fourspot flounder				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	140	Atlantic mackerel				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	141	Black sea bass				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	142	Smallmouth flounder				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	143	Rock gunnel				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	144	Inshore lizardfish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	146	Silver lamprey				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	150	Goby family				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	157	New World silverside family				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	159	Sand flounder family				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	161	Pipefish family				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	162	Mackerel scad				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	164	Cunner				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	169	Gray snapper				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	172	Bigeye scad				0					6	19.02	91	134.04	14-May-90	30-Jun-90

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1990	2	Spring	173	Striped burrfish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	177	Spotfin butterflyfish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	179	Planehead filefish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	180	Atlantic cutlassfish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	181	Pigfish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	184	Freckled blenny				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	187	Margined madtom				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	205	Freshwater drum				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	206	King mackerel				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	209	Highfin goby				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	213	Oyster toadfish				0					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	754	Blue crab				446					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Spring	999	All fish taxa				117,252.00					6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Summer	1	Alewife				414					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	2	Bay anchovy				13,409					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	3	American shad				1,280					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	4	Bluefish				1,572					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	5	Bluegill				491					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	6	Brown bullhead				23					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	7	Pumpkinseed				84					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	8	Black crappie				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	9	Common carp				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	10	American eel				169					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	11	Goldfish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	12	Golden shiner				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	13	Hogchoker				8,847					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	14	Tessellated darter				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	15	Banded killifish				38					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	16	Emerald shiner				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	17	Largemouth bass				84					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	18	Mummichog				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	19	Atlantic menhaden				368					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	21	Chain pickerel				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	22	Blueback herring				1,066					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	23	White sucker				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	24	Atlantic silverside				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	25	Rainbow smelt				69					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	26	Smallmouth bass				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	27	Shortnose sturgeon				3.37					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	28	Spottail shiner				192					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	29	Atlantic sturgeon				0.00					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	30	Striped bass				5,811					12	52.12	92	399.49	2-Jul-90	26-Sep-90

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1990	2	Summer	31	Fourspine stickleback				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	32	Atlantic tomcod				42,887					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	34	White catfish				981					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	35	White perch				13,777					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	36	Yellow perch				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	37	Satinfin shiner				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	38	Rock bass				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	39	Northern pipefish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	40	Redbreast sunfish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	41	Atlantic needlefish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	42	Crevalle jack				330					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	45	Weakfish				2,898					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	47	Common shiner				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	49	Lookdown				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	50	Herring family				130					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	54	Lined seahorse				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	55	Logperch				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	58	Fathead minnow				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	59	Carp and minnow family				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	60	Morone species				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	62	Tautog				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	63	Fourbeard rockling				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	64	Striped cusk-eel				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	67	Spot				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	68	Atlantic moonfish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	71	Scup				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	72	Winter flounder				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	73	Inland silverside				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	74	Sea lamprey				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	75	Gizzard shad				23					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	76	Silver hake				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	77	Striped mullet				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	78	Threespine stickleback				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	79	Brown trout				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	80	Butterfish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	81	White crappie				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	83	Northern pike				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	84	Green sunfish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	85	Silver perch				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	86	Northern puffer				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	2	Summer	96	Sunfish family				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	98	Red hake				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	100	Central mudminnow				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	101	Grubby				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	102	Eastern mudminnow				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	103	White bass				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	104	Rough silverside				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	105	Longear sunfish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	106	Summer flounder				115					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	108	Creek chub				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	109	Black bullhead				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	110	Striped searobin				23					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	111	Northern searobin				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	113	Atlantic croaker				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	114	Longhorn sculpin				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	116	Hickory shad				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	120	Conger eel				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	122	Warmouth				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	125	White mullet				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	126	Yellow bullhead				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	127	Channel catfish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	130	Naked goby				23					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	132	Windowpane				61					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	133	Spotted hake				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	136	Northern stargazer				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	137	American sand lance				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	139	Fourspot flounder				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	140	Atlantic mackerel				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	141	Black sea bass				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	142	Smallmouth flounder				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	143	Rock gunnel				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	144	Inshore lizardfish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	146	Silver lamprey				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	150	Goby family				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	157	New World silverside family				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	159	Sand flounder family				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	161	Pipefish family				23					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	162	Mackerel scad				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	164	Cunner				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	169	Gray snapper				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	172	Bigeye scad				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁵ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	2	Summer	173	Striped burrfish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	177	Spotfin butterflyfish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	179	Planehead filefish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	180	Atlantic cutlassfish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	181	Pigfish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	184	Freckled blenny				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	187	Margined madtom				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	205	Freshwater drum				38					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	206	King mackerel				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	209	Highfin goby				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	213	Oyster toadfish				0					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	754	Blue crab				19,756					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Summer	999	All fish taxa				95,229.37					12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Fall	1	Alewife				361					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	2	Bay anchovy				1,224					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	3	American shad				170					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	4	Bluefish				21					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	5	Bluegill				861					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	6	Brown bullhead				39					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	7	Pumpkinseed				125					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	8	Black crappie				14					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	9	Common carp				14					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	10	American eel				125					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	11	Goldfish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	12	Golden shiner				14					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	13	Hogchoker				3,517					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	14	Tessellated darter				85					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	15	Banded killifish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	16	Emerald shiner				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	17	Largemouth bass				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	18	Mummichog				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	19	Atlantic menhaden				92					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	21	Chain pickerel				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	22	Blueback herring				16,595					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	23	White sucker				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	24	Atlantic silverside				21					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	25	Rainbow smelt				92					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	26	Smallmouth bass				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	27	Shortnose sturgeon				0.00					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	28	Spottail shiner				262					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	29	Atlantic sturgeon				0.00					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	30	Striped bass				6,277					14	41.44	92	300.64	2-Oct-90	29-Dec-90

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	2	Fall	31	Fourspine stickleback				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	32	Atlantic tomcod				149					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	34	White catfish				594					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	35	White perch				45,409					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	36	Yellow perch				99					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	37	Satinfin shiner				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	38	Rock bass				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	39	Northern pipefish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	40	Redbreast sunfish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	41	Atlantic needlefish				21					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	42	Crevalle jack				57					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	45	Weakfish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	47	Common shiner				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	49	Lookdown				21					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	50	Herring family				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	54	Lined seahorse				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	55	Logperch				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	58	Fathead minnow				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	59	Carp and minnow family				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	60	Morone species				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	62	Tautog				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	63	Fourbeard rockling				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	64	Striped cusk-eel				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	67	Spot				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	68	Atlantic moonfish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	71	Scup				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	72	Winter flounder				14					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	73	Inland silverside				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	74	Sea lamprey				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	75	Gizzard shad				657					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	76	Silver hake				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	77	Striped mullet				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	78	Threespine stickleback				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	79	Brown trout				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	80	Butterfish				21					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	81	White crappie				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	83	Northern pike				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	84	Green sunfish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	85	Silver perch				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	86	Northern puffer				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	2	Fall	96	Sunfish family				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	98	Red hake				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	100	Central mudminnow				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	101	Grubby				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	102	Eastern mudminnow				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	103	White bass				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	104	Rough silverside				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	105	Longear sunfish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	106	Summer flounder				106					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	108	Creek chub				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	109	Black bullhead				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	110	Striped searobin				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	111	Northern searobin				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	113	Atlantic croaker				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	114	Longhorn sculpin				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	116	Hickory shad				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	120	Conger eel				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	122	Warmouth				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	125	White mullet				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	126	Yellow bullhead				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	127	Channel catfish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	130	Naked goby				14					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	132	Windowpane				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	133	Spotted hake				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	136	Northern stargazer				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	137	American sand lance				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	139	Fourspot flounder				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	140	Atlantic mackerel				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	141	Black sea bass				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	142	Smallmouth flounder				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	143	Rock gunnel				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	144	Inshore lizardfish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	146	Silver lamprey				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	150	Goby family				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	157	New World silverside family				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	159	Sand flounder family				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	161	Pipefish family				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	162	Mackerel scad				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	164	Cunner				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	169	Gray snapper				14					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	172	Bigeye scad				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	2	Fall	173	Striped burrfish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	177	Spotfin butterflyfish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	179	Planehead filefish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	180	Atlantic cutlassfish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	181	Pigfish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	184	Freckled blenny				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	187	Margined madtom				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	205	Freshwater drum				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	206	King mackerel				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	209	Highfin goby				14					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	213	Oyster toadfish				0					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	754	Blue crab				3,463					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Fall	999	All fish taxa				77,099.00					14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	3	Winter	1	Alewife				74					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	2	Bay anchovy				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	3	American shad				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	4	Bluefish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	5	Bluegill				6					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	6	Brown bullhead				36					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	7	Pumpkinseed				102					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	8	Black crappie				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	9	Common carp				3					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	10	American eel				39					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	11	Goldfish				30					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	12	Golden shiner				41					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	13	Hogchoker				853					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	14	Tessellated darter				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	15	Banded killifish				19					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	16	Emerald shiner				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	17	Largemouth bass				6					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	18	Mummichog				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	19	Atlantic menhaden				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	21	Chain pickerel				8					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	22	Blueback herring				3					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	23	White sucker				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	24	Atlantic silverside				3					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	25	Rainbow smelt				3					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	26	Smallmouth bass				3					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	27	Shortnose sturgeon				0.00					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	28	Spottail shiner				355					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	29	Atlantic sturgeon				1.49					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	30	Striped bass				1,356					28	61.26	77	182.58	8-Jan-90	29-Mar-90

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	3	Winter	31	Fourspine stickleback				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	32	Atlantic tomcod				396					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	34	White catfish				327					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	35	White perch				142,857					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	36	Yellow perch				30					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	37	Satinfin shiner				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	38	Rock bass				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	39	Northern pipefish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	40	Redbreast sunfish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	41	Atlantic needlefish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	42	Crevalle jack				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	45	Weakfish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	47	Common shiner				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	49	Lookdown				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	50	Herring family				3					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	54	Lined seahorse				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	55	Logperch				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	58	Fathead minnow				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	59	Carp and minnow family				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	60	Morone species				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	62	Tautog				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	63	Fourbeard rockling				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	64	Striped cusk-eel				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	67	Spot				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	68	Atlantic moonfish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	71	Scup				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	72	Winter flounder				8					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	73	Inland silverside				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	74	Sea lamprey				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	75	Gizzard shad				3,006					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	76	Silver hake				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	77	Striped mullet				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	78	Threespine stickleback				50					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	79	Brown trout				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	80	Butterfish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	81	White crappie				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	83	Northern pike				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	84	Green sunfish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	85	Silver perch				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	86	Northern puffer				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90

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Year	Unit	Strata	Taxon	Common Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start Date	End Date
1990	3	Winter	96	Sunfish family				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	98	Red hake				11					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	100	Central mudminnow				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	101	Grubby				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	102	Eastern mudminnow				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	103	White bass				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	104	Rough silverside				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	105	Longear sunfish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	106	Summer flounder				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	108	Creek chub				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	109	Black bullhead				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	110	Striped searobin				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	111	Northern searobin				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	113	Atlantic croaker				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	114	Longhorn sculpin				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	116	Hickory shad				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	120	Conger eel				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	122	Warmouth				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	125	White mullet				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	126	Yellow bullhead				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	127	Channel catfish				6					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	130	Naked goby				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	132	Windowpane				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	133	Spotted hake				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	136	Northern stargazer				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	137	American sand lance				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	139	Fourspot flounder				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	140	Atlantic mackerel				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	141	Black sea bass				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	142	Smallmouth flounder				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	143	Rock gunnel				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	144	Inshore lizardfish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	146	Silver lamprey				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	150	Goby family				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	157	New World silverside family				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	159	Sand flounder family				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	161	Pipefish family				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	162	Mackerel scad				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	164	Cunner				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	169	Gray snapper				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	172	Bigeye scad				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90

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1990	3	Winter	173	Striped burrfish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	177	Spotfin butterflyfish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	179	Planehead filefish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	180	Atlantic cutlassfish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	181	Pigfish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	184	Freckled blenny				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	187	Margined madtom				3					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	205	Freshwater drum				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	206	King mackerel				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	209	Highfin goby				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	213	Oyster toadfish				0					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	754	Blue crab				1					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Winter	999	All fish taxa				149,638.49					28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Spring	1	Alewife				219					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	2	Bay anchovy				50					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	3	American shad				79					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	4	Bluefish				1,489					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	5	Bluegill				25					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	6	Brown bullhead				41					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	7	Pumpkinseed				25					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	8	Black crappie				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	9	Common carp				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	10	American eel				199					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	11	Goldfish				21					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	12	Golden shiner				25					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	13	Hogchoker				4,050					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	14	Tessellated darter				29					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	15	Banded killifish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	16	Emerald shiner				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	17	Largemouth bass				8					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	18	Mummichog				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	19	Atlantic menhaden				41					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	21	Chain pickerel				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	22	Blueback herring				451					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	23	White sucker				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	24	Atlantic silverside				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	25	Rainbow smelt				132					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	26	Smallmouth bass				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	27	Shortnose sturgeon				0.00					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	28	Spottail shiner				83					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	29	Atlantic sturgeon				1.59					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	30	Striped bass				124					21	62	91	303.42	3-Apr-90	28-Jun-90

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1990	3	Spring	31	Fourspine stickleback				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	32	Atlantic tomcod				6,614					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	34	White catfish				467					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	35	White perch				23,722					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	36	Yellow perch				8					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	37	Satinfin shiner				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	38	Rock bass				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	39	Northern pipefish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	40	Redbreast sunfish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	41	Atlantic needlefish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	42	Crevalle jack				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	45	Weakfish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	47	Common shiner				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	49	Lookdown				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	50	Herring family				33					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	54	Lined seahorse				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	55	Logperch				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	58	Fathead minnow				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	59	Carp and minnow family				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	60	Morone species				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	62	Tautog				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	63	Fourbeard rockling				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	64	Striped cusk-eel				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	67	Spot				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	68	Atlantic moonfish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	71	Scup				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	72	Winter flounder				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	73	Inland silverside				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	74	Sea lamprey				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	75	Gizzard shad				25					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	76	Silver hake				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	77	Striped mullet				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	78	Threespine stickleback				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	79	Brown trout				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	80	Butterfish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	81	White crappie				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	83	Northern pike				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	84	Green sunfish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	85	Silver perch				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	86	Northern puffer				0					21	62	91	303.42	3-Apr-90	28-Jun-90

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	3	Spring	96	Sunfish family				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	98	Red hake				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	100	Central mudminnow				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	101	Grubby				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	102	Eastern mudminnow				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	103	White bass				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	104	Rough silverside				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	105	Longear sunfish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	106	Summer flounder				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	108	Creek chub				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	109	Black bullhead				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	110	Striped searobin				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	111	Northern searobin				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	113	Atlantic croaker				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	114	Longhorn sculpin				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	116	Hickory shad				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	120	Conger eel				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	122	Warmouth				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	125	White mullet				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	126	Yellow bullhead				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	127	Channel catfish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	130	Naked goby				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	132	Windowpane				8					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	133	Spotted hake				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	136	Northern stargazer				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	137	American sand lance				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	139	Fourspot flounder				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	140	Atlantic mackerel				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	141	Black sea bass				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	142	Smallmouth flounder				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	143	Rock gunnel				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	144	Inshore lizardfish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	146	Silver lamprey				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	150	Goby family				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	157	New World silverside family				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	159	Sand flounder family				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	161	Pipefish family				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	162	Mackerel scad				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	164	Cunner				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	169	Gray snapper				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	172	Bigeye scad				0					21	62	91	303.42	3-Apr-90	28-Jun-90

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating_Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	3	Spring	173	Striped burrfish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	177	Spotfin butterflyfish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	179	Planehead filefish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	180	Atlantic cutlassfish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	181	Pigfish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	184	Freckled blenny				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	187	Margined madtom				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	205	Freshwater drum				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	206	King mackerel				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	209	Highfin goby				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	213	Oyster toadfish				0					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	754	Blue crab				346					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Spring	999	All fish taxa				37,969.59					21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Summer	1	Alewife				604					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	2	Bay anchovy				6,897					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	3	American shad				1,489					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	4	Bluefish				1,539					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	5	Bluegill				35					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	6	Brown bullhead				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	7	Pumpkinseed				6					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	8	Black crappie				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	9	Common carp				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	10	American eel				59					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	11	Goldfish				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	12	Golden shiner				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	13	Hogchoker				7,310					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	14	Tessellated darter				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	15	Banded killifish				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	16	Emerald shiner				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	17	Largemouth bass				23					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	18	Mummichog				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	19	Atlantic menhaden				346					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	21	Chain pickerel				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	22	Blueback herring				2,313					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	23	White sucker				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	24	Atlantic silverside				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	25	Rainbow smelt				756					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	26	Smallmouth bass				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	27	Shortnose sturgeon				0.00					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	28	Spottail shiner				6					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	29	Atlantic sturgeon				0.00					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	30	Striped bass				1,131					29	123.83	85	357.11	5-Jul-90	13-Sep-90

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	3	Summer	31	Fourspine stickleback				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	32	Atlantic tomcod				18,026					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	34	White catfish				152					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	35	White perch				5,912					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	36	Yellow perch				6					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	37	Satinfin shiner				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	38	Rock bass				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	39	Northern pipefish				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	40	Redbreast sunfish				6					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	41	Atlantic needlefish				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	42	Crevalle jack				94					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	45	Weakfish				1,477					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	47	Common shiner				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	49	Lookdown				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	50	Herring family				243					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	54	Lined seahorse				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	55	Logperch				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	58	Fathead minnow				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	59	Carp and minnow family				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	60	Morone species				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	62	Tautog				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	63	Fourbeard rockling				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	64	Striped cusk-eel				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	67	Spot				18					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	68	Atlantic moonfish				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	71	Scup				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	72	Winter flounder				6					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	73	Inland silverside				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	74	Sea lamprey				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	75	Gizzard shad				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	76	Silver hake				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	77	Striped mullet				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	78	Threespine stickleback				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	79	Brown trout				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	80	Butterfish				686					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	81	White crappie				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	83	Northern pike				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	84	Green sunfish				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	85	Silver perch				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	86	Northern puffer				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	3	Summer	96	Sunfish family				6					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	98	Red hake				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	100	Central mudminnow				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	101	Grubby				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	102	Eastern mudminnow				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	103	White bass				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	104	Rough silverside				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	105	Longear sunfish				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	106	Summer flounder				141					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	108	Creek chub				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	109	Black bullhead				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	110	Striped searobin				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	111	Northern searobin				6					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	113	Atlantic croaker				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	114	Longhorn sculpin				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	116	Hickory shad				6					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	120	Conger eel				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	122	Warmouth				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	125	White mullet				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	126	Yellow bullhead				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	127	Channel catfish				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	130	Naked goby				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	132	Windowpane				217					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	133	Spotted hake				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	136	Northern stargazer				6					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	137	American sand lance				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	139	Fourspot flounder				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	140	Atlantic mackerel				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	141	Black sea bass				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	142	Smallmouth flounder				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	143	Rock gunnel				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	144	Inshore lizardfish				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	146	Silver lamprey				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	150	Goby family				53					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	157	New World silverside family				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	159	Sand flounder family				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	161	Pipefish family				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	162	Mackerel scad				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	164	Cunner				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	169	Gray snapper				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	172	Bigeye scad				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90

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Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	3	Summer	173	Striped burrfish				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	177	Spotfin butterflyfish				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	179	Planehead filefish				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	180	Atlantic cutlassfish				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	181	Pigfish				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	184	Freckled blenny				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	187	Margined madtom				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	205	Freshwater drum				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	206	King mackerel				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	209	Highfin goby				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	213	Oyster toadfish				0					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	754	Blue crab				26,792					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Summer	999	All fish taxa				49,575.00					29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Fall	1	Alewife									0	0	19	36.67		
1990	3	Fall	2	Bay anchovy									0	0	19	36.67		
1990	3	Fall	3	American shad									0	0	19	36.67		
1990	3	Fall	4	Bluefish									0	0	19	36.67		
1990	3	Fall	5	Bluegill									0	0	19	36.67		
1990	3	Fall	6	Brown bullhead									0	0	19	36.67		
1990	3	Fall	7	Pumpkinseed									0	0	19	36.67		
1990	3	Fall	8	Black crappie									0	0	19	36.67		
1990	3	Fall	9	Common carp									0	0	19	36.67		
1990	3	Fall	10	American eel									0	0	19	36.67		
1990	3	Fall	11	Goldfish									0	0	19	36.67		
1990	3	Fall	12	Golden shiner									0	0	19	36.67		
1990	3	Fall	13	Hogchoker									0	0	19	36.67		
1990	3	Fall	14	Tessellated darter									0	0	19	36.67		
1990	3	Fall	15	Banded killifish									0	0	19	36.67		
1990	3	Fall	16	Emerald shiner									0	0	19	36.67		
1990	3	Fall	17	Largemouth bass									0	0	19	36.67		
1990	3	Fall	18	Mummichog									0	0	19	36.67		
1990	3	Fall	19	Atlantic menhaden									0	0	19	36.67		
1990	3	Fall	21	Chain pickerel									0	0	19	36.67		
1990	3	Fall	22	Blueback herring									0	0	19	36.67		
1990	3	Fall	23	White sucker									0	0	19	36.67		
1990	3	Fall	24	Atlantic silverside									0	0	19	36.67		
1990	3	Fall	25	Rainbow smelt									0	0	19	36.67		
1990	3	Fall	26	Smallmouth bass									0	0	19	36.67		
1990	3	Fall	27	Shortnose sturgeon									0	0	19	36.67		
1990	3	Fall	28	Spottail shiner									0	0	19	36.67		
1990	3	Fall	29	Atlantic sturgeon									0	0	19	36.67		
1990	3	Fall	30	Striped bass									0	0	19	36.67		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	3	Fall	31	Fourspine stickleback									0	0	19	36.67		
1990	3	Fall	32	Atlantic tomcod									0	0	19	36.67		
1990	3	Fall	34	White catfish									0	0	19	36.67		
1990	3	Fall	35	White perch									0	0	19	36.67		
1990	3	Fall	36	Yellow perch									0	0	19	36.67		
1990	3	Fall	37	Satinfin shiner									0	0	19	36.67		
1990	3	Fall	38	Rock bass									0	0	19	36.67		
1990	3	Fall	39	Northern pipefish									0	0	19	36.67		
1990	3	Fall	40	Redbreast sunfish									0	0	19	36.67		
1990	3	Fall	41	Atlantic needlefish									0	0	19	36.67		
1990	3	Fall	42	Crevalle jack									0	0	19	36.67		
1990	3	Fall	45	Weakfish									0	0	19	36.67		
1990	3	Fall	47	Common shiner									0	0	19	36.67		
1990	3	Fall	49	Lookdown									0	0	19	36.67		
1990	3	Fall	50	Herring family									0	0	19	36.67		
1990	3	Fall	54	Lined seahorse									0	0	19	36.67		
1990	3	Fall	55	Logperch									0	0	19	36.67		
1990	3	Fall	58	Fathead minnow									0	0	19	36.67		
1990	3	Fall	59	Carp and minnow family									0	0	19	36.67		
1990	3	Fall	60	Morone species									0	0	19	36.67		
1990	3	Fall	62	Tautog									0	0	19	36.67		
1990	3	Fall	63	Fourbeard rockling									0	0	19	36.67		
1990	3	Fall	64	Striped cusk-eel									0	0	19	36.67		
1990	3	Fall	67	Spot									0	0	19	36.67		
1990	3	Fall	68	Atlantic moonfish									0	0	19	36.67		
1990	3	Fall	71	Scup									0	0	19	36.67		
1990	3	Fall	72	Winter flounder									0	0	19	36.67		
1990	3	Fall	73	Inland silverside									0	0	19	36.67		
1990	3	Fall	74	Sea lamprey									0	0	19	36.67		
1990	3	Fall	75	Gizzard shad									0	0	19	36.67		
1990	3	Fall	76	Silver hake									0	0	19	36.67		
1990	3	Fall	77	Striped mullet									0	0	19	36.67		
1990	3	Fall	78	Threespine stickleback									0	0	19	36.67		
1990	3	Fall	79	Brown trout									0	0	19	36.67		
1990	3	Fall	80	Butterfish									0	0	19	36.67		
1990	3	Fall	81	White crappie									0	0	19	36.67		
1990	3	Fall	83	Northern pike									0	0	19	36.67		
1990	3	Fall	84	Green sunfish									0	0	19	36.67		
1990	3	Fall	85	Silver perch									0	0	19	36.67		
1990	3	Fall	86	Northern puffer									0	0	19	36.67		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	3	Fall	96	Sunfish family									0	0	19	36.67		
1990	3	Fall	98	Red hake									0	0	19	36.67		
1990	3	Fall	100	Central mudminnow									0	0	19	36.67		
1990	3	Fall	101	Grubby									0	0	19	36.67		
1990	3	Fall	102	Eastern mudminnow									0	0	19	36.67		
1990	3	Fall	103	White bass									0	0	19	36.67		
1990	3	Fall	104	Rough silverside									0	0	19	36.67		
1990	3	Fall	105	Longear sunfish									0	0	19	36.67		
1990	3	Fall	106	Summer flounder									0	0	19	36.67		
1990	3	Fall	108	Creek chub									0	0	19	36.67		
1990	3	Fall	109	Black bullhead									0	0	19	36.67		
1990	3	Fall	110	Striped searobin									0	0	19	36.67		
1990	3	Fall	111	Northern searobin									0	0	19	36.67		
1990	3	Fall	113	Atlantic croaker									0	0	19	36.67		
1990	3	Fall	114	Longhorn sculpin									0	0	19	36.67		
1990	3	Fall	116	Hickory shad									0	0	19	36.67		
1990	3	Fall	120	Conger eel									0	0	19	36.67		
1990	3	Fall	122	Warmouth									0	0	19	36.67		
1990	3	Fall	125	White mullet									0	0	19	36.67		
1990	3	Fall	126	Yellow bullhead									0	0	19	36.67		
1990	3	Fall	127	Channel catfish									0	0	19	36.67		
1990	3	Fall	130	Naked goby									0	0	19	36.67		
1990	3	Fall	132	Windowpane									0	0	19	36.67		
1990	3	Fall	133	Spotted hake									0	0	19	36.67		
1990	3	Fall	136	Northern stargazer									0	0	19	36.67		
1990	3	Fall	137	American sand lance									0	0	19	36.67		
1990	3	Fall	139	Fourspot flounder									0	0	19	36.67		
1990	3	Fall	140	Atlantic mackerel									0	0	19	36.67		
1990	3	Fall	141	Black sea bass									0	0	19	36.67		
1990	3	Fall	142	Smallmouth flounder									0	0	19	36.67		
1990	3	Fall	143	Rock gunnel									0	0	19	36.67		
1990	3	Fall	144	Inshore lizardfish									0	0	19	36.67		
1990	3	Fall	146	Silver lamprey									0	0	19	36.67		
1990	3	Fall	150	Goby family									0	0	19	36.67		
1990	3	Fall	157	New World silverside family									0	0	19	36.67		
1990	3	Fall	159	Sand flounder family									0	0	19	36.67		
1990	3	Fall	161	Pipefish family									0	0	19	36.67		
1990	3	Fall	162	Mackerel scad									0	0	19	36.67		
1990	3	Fall	164	Cunner									0	0	19	36.67		
1990	3	Fall	169	Gray snapper									0	0	19	36.67		
1990	3	Fall	172	Bigeye scad									0	0	19	36.67		

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstYOY	EstYRLNG	EstYROL	EstComb	SEYOY	SEYRLNG	SEYROL	SEComb	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating Days	Operating_Volume (10 ⁶ m ³)	Start_Date	End_Date
1990	3	Fall	173	Striped burrfish									0	0	19	36.67		
1990	3	Fall	177	Spotfin butterflyfish									0	0	19	36.67		
1990	3	Fall	179	Planehead filefish									0	0	19	36.67		
1990	3	Fall	180	Atlantic cutlassfish									0	0	19	36.67		
1990	3	Fall	181	Pigfish									0	0	19	36.67		
1990	3	Fall	184	Freckled blenny									0	0	19	36.67		
1990	3	Fall	187	Margined madtom									0	0	19	36.67		
1990	3	Fall	205	Freshwater drum									0	0	19	36.67		
1990	3	Fall	206	King mackerel									0	0	19	36.67		
1990	3	Fall	209	Highfin goby									0	0	19	36.67		
1990	3	Fall	213	Oyster toadfish									0	0	19	36.67		
1990	3	Fall	754	Blue crab									0	0	19	36.67		
1990	3	Fall	999	All fish taxa									0	0	19	36.67		

**1981-1990 Indian Point Impingement Estimates by
Year, Unit, and Stratum**

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	2	Winter	1	Alewife	4
1981	2	Winter	2	Bay anchovy	2
1981	2	Winter	3	American shad	0
1981	2	Winter	4	Bluefish	0
1981	2	Winter	5	Bluegill	37
1981	2	Winter	6	Brown bullhead	33
1981	2	Winter	7	Pumpkinseed	849
1981	2	Winter	8	Black crappie	8
1981	2	Winter	9	Common carp	2
1981	2	Winter	10	American eel	68
1981	2	Winter	11	Goldfish	248
1981	2	Winter	12	Golden shiner	52
1981	2	Winter	13	Hogchoker	37
1981	2	Winter	14	Tessellated darter	10
1981	2	Winter	15	Banded killifish	148
1981	2	Winter	16	Emerald shiner	0
1981	2	Winter	17	Largemouth bass	23
1981	2	Winter	18	Mummichog	8
1981	2	Winter	19	Atlantic menhaden	0
1981	2	Winter	21	Chain pickerel	0
1981	2	Winter	22	Blueback herring	2
1981	2	Winter	23	White sucker	0
1981	2	Winter	24	Atlantic silverside	2
1981	2	Winter	25	Rainbow smelt	193
1981	2	Winter	26	Smallmouth bass	0
1981	2	Winter	27	Shortnose sturgeon	0.00
1981	2	Winter	28	Spottail shiner	564
1981	2	Winter	29	Atlantic sturgeon	0.00
1981	2	Winter	30	Striped bass	9,235
1981	2	Winter	31	Fourspine stickleback	14
1981	2	Winter	32	Atlantic tomcod	294
1981	2	Winter	34	White catfish	19
1981	2	Winter	35	White perch	180,263
1981	2	Winter	36	Yellow perch	299
1981	2	Winter	37	Satinfin shiner	0
1981	2	Winter	38	Rock bass	4
1981	2	Winter	39	Northern pipefish	2
1981	2	Winter	40	Redbreast sunfish	6
1981	2	Winter	41	Atlantic needlefish	0
1981	2	Winter	42	Crevalle jack	0
1981	2	Winter	45	Weakfish	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	2	Winter	47	Common shiner	0
1981	2	Winter	49	Lookdown	0
1981	2	Winter	50	Herring family	0
1981	2	Winter	54	Lined seahorse	0
1981	2	Winter	55	Logperch	0
1981	2	Winter	58	Fathead minnow	0
1981	2	Winter	59	Carp and minnow family	0
1981	2	Winter	60	Morone species	0
1981	2	Winter	62	Tautog	0
1981	2	Winter	63	Fourbeard rockling	0
1981	2	Winter	64	Striped cusk-eel	0
1981	2	Winter	67	Spot	0
1981	2	Winter	68	Atlantic moonfish	0
1981	2	Winter	71	Scup	0
1981	2	Winter	72	Winter flounder	10
1981	2	Winter	73	Inland silverside	0
1981	2	Winter	74	Sea lamprey	6
1981	2	Winter	75	Gizzard shad	0
1981	2	Winter	76	Silver hake	0
1981	2	Winter	77	Striped mullet	0
1981	2	Winter	78	Threespine stickleback	48
1981	2	Winter	79	Brown trout	0
1981	2	Winter	80	Butterfish	0
1981	2	Winter	81	White crappie	8
1981	2	Winter	83	Northern pike	0
1981	2	Winter	84	Green sunfish	0
1981	2	Winter	85	Silver perch	0
1981	2	Winter	86	Northern puffer	0
1981	2	Winter	96	Sunfish family	70
1981	2	Winter	98	Red hake	0
1981	2	Winter	100	Central mudminnow	0
1981	2	Winter	101	Grubby	0
1981	2	Winter	102	Eastern mudminnow	0
1981	2	Winter	103	White bass	0
1981	2	Winter	104	Rough silverside	0
1981	2	Winter	105	Longear sunfish	0
1981	2	Winter	106	Summer flounder	2
1981	2	Winter	108	Creek chub	0
1981	2	Winter	109	Black bullhead	0
1981	2	Winter	110	Striped searobin	0
1981	2	Winter	111	Northern searobin	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	2	Winter	113	Atlantic croaker	0
1981	2	Winter	114	Longhorn sculpin	0
1981	2	Winter	116	Hickory shad	0
1981	2	Winter	120	Conger eel	0
1981	2	Winter	122	Warmouth	0
1981	2	Winter	125	White mullet	0
1981	2	Winter	126	Yellow bullhead	0
1981	2	Winter	127	Channel catfish	0
1981	2	Winter	130	Naked goby	0
1981	2	Winter	132	Windowpane	0
1981	2	Winter	133	Spotted hake	0
1981	2	Winter	136	Northern stargazer	0
1981	2	Winter	137	American sand lance	2
1981	2	Winter	139	Fourspot flounder	0
1981	2	Winter	140	Atlantic mackerel	0
1981	2	Winter	141	Black sea bass	0
1981	2	Winter	142	Smallmouth flounder	0
1981	2	Winter	143	Rock gunnel	0
1981	2	Winter	144	Inshore lizardfish	0
1981	2	Winter	146	Silver lamprey	0
1981	2	Winter	150	Goby family	0
1981	2	Winter	157	New World silverside family	0
1981	2	Winter	159	Sand flounder family	0
1981	2	Winter	161	Pipefish family	0
1981	2	Winter	162	Mackerel scad	0
1981	2	Winter	164	Cunner	0
1981	2	Winter	169	Gray snapper	0
1981	2	Winter	172	Bigeye scad	0
1981	2	Winter	173	Striped burrfish	0
1981	2	Winter	177	Spotfin butterflyfish	0
1981	2	Winter	179	Planehead filefish	0
1981	2	Winter	180	Atlantic cutlassfish	0
1981	2	Winter	181	Pigfish	0
1981	2	Winter	184	Freckled blenny	0
1981	2	Winter	187	Margined madtom	0
1981	2	Winter	205	Freshwater drum	0
1981	2	Winter	206	King mackerel	0
1981	2	Winter	209	Highfin goby	0
1981	2	Winter	213	Oyster toadfish	0
1981	2	Winter	999	All fish taxa	192,568.00
1981	2	Spring	1	Alewife	458

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	2	Spring	2	Bay anchovy	27,476
1981	2	Spring	3	American shad	4,317
1981	2	Spring	4	Bluefish	1,133
1981	2	Spring	5	Bluegill	35
1981	2	Spring	6	Brown bullhead	39
1981	2	Spring	7	Pumpkinseed	692
1981	2	Spring	8	Black crappie	3
1981	2	Spring	9	Common carp	2
1981	2	Spring	10	American eel	717
1981	2	Spring	11	Goldfish	26
1981	2	Spring	12	Golden shiner	14
1981	2	Spring	13	Hogchoker	5,578
1981	2	Spring	14	Tessellated darter	49
1981	2	Spring	15	Banded killifish	61
1981	2	Spring	16	Emerald shiner	0
1981	2	Spring	17	Largemouth bass	2
1981	2	Spring	18	Mummichog	6
1981	2	Spring	19	Atlantic menhaden	150
1981	2	Spring	21	Chain pickerel	0
1981	2	Spring	22	Blueback herring	688
1981	2	Spring	23	White sucker	11
1981	2	Spring	24	Atlantic silverside	0
1981	2	Spring	25	Rainbow smelt	176
1981	2	Spring	26	Smallmouth bass	0
1981	2	Spring	27	Shortnose sturgeon	0.00
1981	2	Spring	28	Spottail shiner	128
1981	2	Spring	29	Atlantic sturgeon	0.00
1981	2	Spring	30	Striped bass	1,990
1981	2	Spring	31	Fourspine stickleback	14
1981	2	Spring	32	Atlantic tomcod	216,340
1981	2	Spring	34	White catfish	118
1981	2	Spring	35	White perch	77,697
1981	2	Spring	36	Yellow perch	144
1981	2	Spring	37	Satinfin shiner	2
1981	2	Spring	38	Rock bass	0
1981	2	Spring	39	Northern pipefish	204
1981	2	Spring	40	Redbreast sunfish	10
1981	2	Spring	41	Atlantic needlefish	0
1981	2	Spring	42	Crevalle jack	0
1981	2	Spring	45	Weakfish	3
1981	2	Spring	47	Common shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	2	Spring	49	Lookdown	0
1981	2	Spring	50	Herring family	1,072
1981	2	Spring	54	Lined seahorse	0
1981	2	Spring	55	Logperch	0
1981	2	Spring	58	Fathead minnow	2
1981	2	Spring	59	Carp and minnow family	0
1981	2	Spring	60	Morone species	0
1981	2	Spring	62	Tautog	7
1981	2	Spring	63	Fourbeard rockling	0
1981	2	Spring	64	Striped cusk-eel	0
1981	2	Spring	67	Spot	0
1981	2	Spring	68	Atlantic moonfish	0
1981	2	Spring	71	Scup	0
1981	2	Spring	72	Winter flounder	0
1981	2	Spring	73	Inland silverside	0
1981	2	Spring	74	Sea lamprey	3
1981	2	Spring	75	Gizzard shad	0
1981	2	Spring	76	Silver hake	5
1981	2	Spring	77	Striped mullet	0
1981	2	Spring	78	Threespine stickleback	0
1981	2	Spring	79	Brown trout	0
1981	2	Spring	80	Butterfish	0
1981	2	Spring	81	White crappie	0
1981	2	Spring	83	Northern pike	0
1981	2	Spring	84	Green sunfish	0
1981	2	Spring	85	Silver perch	0
1981	2	Spring	86	Northern puffer	0
1981	2	Spring	96	Sunfish family	0
1981	2	Spring	98	Red hake	2
1981	2	Spring	100	Central mudminnow	0
1981	2	Spring	101	Grubby	0
1981	2	Spring	102	Eastern mudminnow	0
1981	2	Spring	103	White bass	0
1981	2	Spring	104	Rough silverside	0
1981	2	Spring	105	Longear sunfish	0
1981	2	Spring	106	Summer flounder	12
1981	2	Spring	108	Creek chub	0
1981	2	Spring	109	Black bullhead	0
1981	2	Spring	110	Striped searobin	0
1981	2	Spring	111	Northern searobin	0
1981	2	Spring	113	Atlantic croaker	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	2	Spring	114	Longhorn sculpin	0
1981	2	Spring	116	Hickory shad	0
1981	2	Spring	120	Conger eel	0
1981	2	Spring	122	Warmouth	0
1981	2	Spring	125	White mullet	0
1981	2	Spring	126	Yellow bullhead	0
1981	2	Spring	127	Channel catfish	0
1981	2	Spring	130	Naked goby	0
1981	2	Spring	132	Windowpane	0
1981	2	Spring	133	Spotted hake	3
1981	2	Spring	136	Northern stargazer	0
1981	2	Spring	137	American sand lance	0
1981	2	Spring	139	Fourspot flounder	0
1981	2	Spring	140	Atlantic mackerel	2
1981	2	Spring	141	Black sea bass	0
1981	2	Spring	142	Smallmouth flounder	5
1981	2	Spring	143	Rock gunnel	0
1981	2	Spring	144	Inshore lizardfish	0
1981	2	Spring	146	Silver lamprey	0
1981	2	Spring	150	Goby family	0
1981	2	Spring	157	New World silverside family	0
1981	2	Spring	159	Sand flounder family	0
1981	2	Spring	161	Pipefish family	0
1981	2	Spring	162	Mackerel scad	0
1981	2	Spring	164	Cunner	0
1981	2	Spring	169	Gray snapper	0
1981	2	Spring	172	Bigeye scad	0
1981	2	Spring	173	Striped burrfish	0
1981	2	Spring	177	Spotfin butterflyfish	0
1981	2	Spring	179	Planehead filefish	0
1981	2	Spring	180	Atlantic cutlassfish	0
1981	2	Spring	181	Pigfish	0
1981	2	Spring	184	Freckled blenny	0
1981	2	Spring	187	Margined madtom	0
1981	2	Spring	205	Freshwater drum	0
1981	2	Spring	206	King mackerel	0
1981	2	Spring	209	Highfin goby	0
1981	2	Spring	213	Oyster toadfish	0
1981	2	Spring	999	All fish taxa	339,398.00
1981	2	Summer	1	Alewife	51,098
1981	2	Summer	2	Bay anchovy	1,174,284

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	2	Summer	3	American shad	195,311
1981	2	Summer	4	Bluefish	8,781
1981	2	Summer	5	Bluegill	0
1981	2	Summer	6	Brown bullhead	518
1981	2	Summer	7	Pumpkinseed	189
1981	2	Summer	8	Black crappie	0
1981	2	Summer	9	Common carp	0
1981	2	Summer	10	American eel	551
1981	2	Summer	11	Goldfish	0
1981	2	Summer	12	Golden shiner	0
1981	2	Summer	13	Hogchoker	6,555
1981	2	Summer	14	Tessellated darter	0
1981	2	Summer	15	Banded killifish	23
1981	2	Summer	16	Emerald shiner	0
1981	2	Summer	17	Largemouth bass	0
1981	2	Summer	18	Mummichog	0
1981	2	Summer	19	Atlantic menhaden	3,020
1981	2	Summer	21	Chain pickerel	0
1981	2	Summer	22	Blueback herring	26,023
1981	2	Summer	23	White sucker	0
1981	2	Summer	24	Atlantic silverside	0
1981	2	Summer	25	Rainbow smelt	122
1981	2	Summer	26	Smallmouth bass	0
1981	2	Summer	27	Shortnose sturgeon	0.00
1981	2	Summer	28	Spottail shiner	24
1981	2	Summer	29	Atlantic sturgeon	0.00
1981	2	Summer	30	Striped bass	20,120
1981	2	Summer	31	Fourspine stickleback	0
1981	2	Summer	32	Atlantic tomcod	130,330
1981	2	Summer	34	White catfish	149
1981	2	Summer	35	White perch	106,507
1981	2	Summer	36	Yellow perch	0
1981	2	Summer	37	Satinfin shiner	0
1981	2	Summer	38	Rock bass	0
1981	2	Summer	39	Northern pipefish	391
1981	2	Summer	40	Redbreast sunfish	0
1981	2	Summer	41	Atlantic needlefish	24
1981	2	Summer	42	Crevalle jack	41
1981	2	Summer	45	Weakfish	37,879
1981	2	Summer	47	Common shiner	0
1981	2	Summer	49	Lookdown	20

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	2	Summer	50	Herring family	14,238
1981	2	Summer	54	Lined seahorse	0
1981	2	Summer	55	Logperch	0
1981	2	Summer	58	Fathead minnow	0
1981	2	Summer	59	Carp and minnow family	0
1981	2	Summer	60	Morone species	0
1981	2	Summer	62	Tautog	0
1981	2	Summer	63	Fourbeard rockling	0
1981	2	Summer	64	Striped cusk-eel	0
1981	2	Summer	67	Spot	0
1981	2	Summer	68	Atlantic moonfish	0
1981	2	Summer	71	Scup	0
1981	2	Summer	72	Winter flounder	47
1981	2	Summer	73	Inland silverside	0
1981	2	Summer	74	Sea lamprey	0
1981	2	Summer	75	Gizzard shad	0
1981	2	Summer	76	Silver hake	0
1981	2	Summer	77	Striped mullet	0
1981	2	Summer	78	Threespine stickleback	0
1981	2	Summer	79	Brown trout	0
1981	2	Summer	80	Butterfish	0
1981	2	Summer	81	White crappie	0
1981	2	Summer	83	Northern pike	0
1981	2	Summer	84	Green sunfish	0
1981	2	Summer	85	Silver perch	0
1981	2	Summer	86	Northern puffer	0
1981	2	Summer	96	Sunfish family	0
1981	2	Summer	98	Red hake	0
1981	2	Summer	100	Central mudminnow	0
1981	2	Summer	101	Grubby	0
1981	2	Summer	102	Eastern mudminnow	0
1981	2	Summer	103	White bass	0
1981	2	Summer	104	Rough silverside	0
1981	2	Summer	105	Longear sunfish	0
1981	2	Summer	106	Summer flounder	20
1981	2	Summer	108	Creek chub	0
1981	2	Summer	109	Black bullhead	0
1981	2	Summer	110	Striped searobin	0
1981	2	Summer	111	Northern searobin	0
1981	2	Summer	113	Atlantic croaker	0
1981	2	Summer	114	Longhorn sculpin	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	2	Summer	116	Hickory shad	0
1981	2	Summer	120	Conger eel	0
1981	2	Summer	122	Warmouth	0
1981	2	Summer	125	White mullet	0
1981	2	Summer	126	Yellow bullhead	0
1981	2	Summer	127	Channel catfish	0
1981	2	Summer	130	Naked goby	0
1981	2	Summer	132	Windowpane	0
1981	2	Summer	133	Spotted hake	0
1981	2	Summer	136	Northern stargazer	0
1981	2	Summer	137	American sand lance	0
1981	2	Summer	139	Fourspot flounder	0
1981	2	Summer	140	Atlantic mackerel	0
1981	2	Summer	141	Black sea bass	0
1981	2	Summer	142	Smallmouth flounder	0
1981	2	Summer	143	Rock gunnel	0
1981	2	Summer	144	Inshore lizardfish	0
1981	2	Summer	146	Silver lamprey	0
1981	2	Summer	150	Goby family	0
1981	2	Summer	157	New World silverside family	0
1981	2	Summer	159	Sand flounder family	0
1981	2	Summer	161	Pipefish family	0
1981	2	Summer	162	Mackerel scad	0
1981	2	Summer	164	Cunner	0
1981	2	Summer	169	Gray snapper	0
1981	2	Summer	172	Bigeye scad	0
1981	2	Summer	173	Striped burrfish	0
1981	2	Summer	177	Spotfin butterflyfish	0
1981	2	Summer	179	Planehead filefish	0
1981	2	Summer	180	Atlantic cutlassfish	0
1981	2	Summer	181	Pigfish	0
1981	2	Summer	184	Freckled blenny	0
1981	2	Summer	187	Margined madtom	0
1981	2	Summer	205	Freshwater drum	0
1981	2	Summer	206	King mackerel	0
1981	2	Summer	209	Highfin goby	0
1981	2	Summer	213	Oyster toadfish	0
1981	2	Summer	999	All fish taxa	1,776,267.00
1981	2	Fall	1	Alewife	1,804
1981	2	Fall	2	Bay anchovy	16,982
1981	2	Fall	3	American shad	7,971

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	2	Fall	4	Bluefish	0
1981	2	Fall	5	Bluegill	75
1981	2	Fall	6	Brown bullhead	19
1981	2	Fall	7	Pumpkinseed	8,729
1981	2	Fall	8	Black crappie	0
1981	2	Fall	9	Common carp	0
1981	2	Fall	10	American eel	621
1981	2	Fall	11	Goldfish	18
1981	2	Fall	12	Golden shiner	6
1981	2	Fall	13	Hogchoker	11,152
1981	2	Fall	14	Tessellated darter	133
1981	2	Fall	15	Banded killifish	525
1981	2	Fall	16	Emerald shiner	0
1981	2	Fall	17	Largemouth bass	15
1981	2	Fall	18	Mummichog	9
1981	2	Fall	19	Atlantic menhaden	15
1981	2	Fall	21	Chain pickerel	0
1981	2	Fall	22	Blueback herring	206,519
1981	2	Fall	23	White sucker	0
1981	2	Fall	24	Atlantic silverside	19
1981	2	Fall	25	Rainbow smelt	177
1981	2	Fall	26	Smallmouth bass	3
1981	2	Fall	27	Shortnose sturgeon	0.00
1981	2	Fall	28	Spottail shiner	331
1981	2	Fall	29	Atlantic sturgeon	8.01
1981	2	Fall	30	Striped bass	23,909
1981	2	Fall	31	Fourspine stickleback	6
1981	2	Fall	32	Atlantic tomcod	3,643
1981	2	Fall	34	White catfish	648
1981	2	Fall	35	White perch	962,869
1981	2	Fall	36	Yellow perch	154
1981	2	Fall	37	Satinfin shiner	17
1981	2	Fall	38	Rock bass	0
1981	2	Fall	39	Northern pipefish	793
1981	2	Fall	40	Redbreast sunfish	11
1981	2	Fall	41	Atlantic needlefish	0
1981	2	Fall	42	Crevalle jack	328
1981	2	Fall	45	Weakfish	12,156
1981	2	Fall	47	Common shiner	0
1981	2	Fall	49	Lookdown	0
1981	2	Fall	50	Herring family	4

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	2	Fall	54	Lined seahorse	4
1981	2	Fall	55	Logperch	0
1981	2	Fall	58	Fathead minnow	0
1981	2	Fall	59	Carp and minnow family	0
1981	2	Fall	60	Morone species	0
1981	2	Fall	62	Tautog	3
1981	2	Fall	63	Fourbeard rockling	0
1981	2	Fall	64	Striped cusk-eel	0
1981	2	Fall	67	Spot	3
1981	2	Fall	68	Atlantic moonfish	0
1981	2	Fall	71	Scup	0
1981	2	Fall	72	Winter flounder	13
1981	2	Fall	73	Inland silverside	10
1981	2	Fall	74	Sea lamprey	0
1981	2	Fall	75	Gizzard shad	650
1981	2	Fall	76	Silver hake	0
1981	2	Fall	77	Striped mullet	0
1981	2	Fall	78	Threespine stickleback	6
1981	2	Fall	79	Brown trout	0
1981	2	Fall	80	Butterfish	0
1981	2	Fall	81	White crappie	0
1981	2	Fall	83	Northern pike	0
1981	2	Fall	84	Green sunfish	0
1981	2	Fall	85	Silver perch	0
1981	2	Fall	86	Northern puffer	4
1981	2	Fall	96	Sunfish family	22
1981	2	Fall	98	Red hake	9
1981	2	Fall	100	Central mudminnow	0
1981	2	Fall	101	Grubby	0
1981	2	Fall	102	Eastern mudminnow	0
1981	2	Fall	103	White bass	0
1981	2	Fall	104	Rough silverside	0
1981	2	Fall	105	Longear sunfish	0
1981	2	Fall	106	Summer flounder	4
1981	2	Fall	108	Creek chub	0
1981	2	Fall	109	Black bullhead	18
1981	2	Fall	110	Striped searobin	4,449
1981	2	Fall	111	Northern searobin	0
1981	2	Fall	113	Atlantic croaker	0
1981	2	Fall	114	Longhorn sculpin	0
1981	2	Fall	116	Hickory shad	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	2	Fall	120	Conger eel	0
1981	2	Fall	122	Warmouth	0
1981	2	Fall	125	White mullet	0
1981	2	Fall	126	Yellow bullhead	0
1981	2	Fall	127	Channel catfish	0
1981	2	Fall	130	Naked goby	0
1981	2	Fall	132	Windowpane	0
1981	2	Fall	133	Spotted hake	0
1981	2	Fall	136	Northern stargazer	0
1981	2	Fall	137	American sand lance	0
1981	2	Fall	139	Fourspot flounder	0
1981	2	Fall	140	Atlantic mackerel	0
1981	2	Fall	141	Black sea bass	4
1981	2	Fall	142	Smallmouth flounder	0
1981	2	Fall	143	Rock gunnel	0
1981	2	Fall	144	Inshore lizardfish	0
1981	2	Fall	146	Silver lamprey	0
1981	2	Fall	150	Goby family	0
1981	2	Fall	157	New World silverside family	0
1981	2	Fall	159	Sand flounder family	0
1981	2	Fall	161	Pipefish family	0
1981	2	Fall	162	Mackerel scad	0
1981	2	Fall	164	Cunner	3
1981	2	Fall	169	Gray snapper	0
1981	2	Fall	172	Bigeye scad	0
1981	2	Fall	173	Striped burrfish	0
1981	2	Fall	177	Spotfin butterflyfish	0
1981	2	Fall	179	Planehead filefish	0
1981	2	Fall	180	Atlantic cutlassfish	0
1981	2	Fall	181	Pigfish	0
1981	2	Fall	184	Freckled blenny	0
1981	2	Fall	187	Margined madtom	0
1981	2	Fall	205	Freshwater drum	0
1981	2	Fall	206	King mackerel	0
1981	2	Fall	209	Highfin goby	0
1981	2	Fall	213	Oyster toadfish	0
1981	2	Fall	999	All fish taxa	1,264,867.01
1981	3	Winter	1	Alewife	20
1981	3	Winter	2	Bay anchovy	7
1981	3	Winter	3	American shad	4
1981	3	Winter	4	Bluefish	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	3	Winter	5	Bluegill	53
1981	3	Winter	6	Brown bullhead	81
1981	3	Winter	7	Pumpkinseed	953
1981	3	Winter	8	Black crappie	7
1981	3	Winter	9	Common carp	25
1981	3	Winter	10	American eel	170
1981	3	Winter	11	Goldfish	205
1981	3	Winter	12	Golden shiner	19
1981	3	Winter	13	Hogchoker	7
1981	3	Winter	14	Tessellated darter	1
1981	3	Winter	15	Banded killifish	165
1981	3	Winter	16	Emerald shiner	0
1981	3	Winter	17	Largemouth bass	46
1981	3	Winter	18	Mummichog	6
1981	3	Winter	19	Atlantic menhaden	0
1981	3	Winter	21	Chain pickerel	1
1981	3	Winter	22	Blueback herring	63
1981	3	Winter	23	White sucker	0
1981	3	Winter	24	Atlantic silverside	7
1981	3	Winter	25	Rainbow smelt	577
1981	3	Winter	26	Smallmouth bass	1
1981	3	Winter	27	Shortnose sturgeon	0.00
1981	3	Winter	28	Spottail shiner	239
1981	3	Winter	29	Atlantic sturgeon	4.38
1981	3	Winter	30	Striped bass	5,198
1981	3	Winter	31	Fourspine stickleback	4
1981	3	Winter	32	Atlantic tomcod	136
1981	3	Winter	34	White catfish	214
1981	3	Winter	35	White perch	110,065
1981	3	Winter	36	Yellow perch	36
1981	3	Winter	37	Satinfin shiner	0
1981	3	Winter	38	Rock bass	1
1981	3	Winter	39	Northern pipefish	3
1981	3	Winter	40	Redbreast sunfish	6
1981	3	Winter	41	Atlantic needlefish	0
1981	3	Winter	42	Crevalle jack	0
1981	3	Winter	45	Weakfish	0
1981	3	Winter	47	Common shiner	0
1981	3	Winter	49	Lookdown	0
1981	3	Winter	50	Herring family	0
1981	3	Winter	54	Lined seahorse	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	3	Winter	55	Logperch	0
1981	3	Winter	58	Fathead minnow	0
1981	3	Winter	59	Carp and minnow family	0
1981	3	Winter	60	Morone species	0
1981	3	Winter	62	Tautog	0
1981	3	Winter	63	Fourbeard rockling	3
1981	3	Winter	64	Striped cusk-eel	0
1981	3	Winter	67	Spot	0
1981	3	Winter	68	Atlantic moonfish	0
1981	3	Winter	71	Scup	0
1981	3	Winter	72	Winter flounder	3
1981	3	Winter	73	Inland silverside	1
1981	3	Winter	74	Sea lamprey	0
1981	3	Winter	75	Gizzard shad	1,738
1981	3	Winter	76	Silver hake	0
1981	3	Winter	77	Striped mullet	0
1981	3	Winter	78	Threespine stickleback	54
1981	3	Winter	79	Brown trout	0
1981	3	Winter	80	Butterfish	0
1981	3	Winter	81	White crappie	9
1981	3	Winter	83	Northern pike	0
1981	3	Winter	84	Green sunfish	0
1981	3	Winter	85	Silver perch	0
1981	3	Winter	86	Northern puffer	0
1981	3	Winter	96	Sunfish family	57
1981	3	Winter	98	Red hake	23
1981	3	Winter	100	Central mudminnow	0
1981	3	Winter	101	Grubby	14
1981	3	Winter	102	Eastern mudminnow	0
1981	3	Winter	103	White bass	0
1981	3	Winter	104	Rough silverside	0
1981	3	Winter	105	Longear sunfish	0
1981	3	Winter	106	Summer flounder	1
1981	3	Winter	108	Creek chub	0
1981	3	Winter	109	Black bullhead	0
1981	3	Winter	110	Striped searobin	0
1981	3	Winter	111	Northern searobin	0
1981	3	Winter	113	Atlantic croaker	0
1981	3	Winter	114	Longhorn sculpin	0
1981	3	Winter	116	Hickory shad	0
1981	3	Winter	120	Conger eel	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	3	Winter	122	Warmouth	0
1981	3	Winter	125	White mullet	0
1981	3	Winter	126	Yellow bullhead	0
1981	3	Winter	127	Channel catfish	0
1981	3	Winter	130	Naked goby	0
1981	3	Winter	132	Windowpane	0
1981	3	Winter	133	Spotted hake	0
1981	3	Winter	136	Northern stargazer	0
1981	3	Winter	137	American sand lance	0
1981	3	Winter	139	Fourspot flounder	0
1981	3	Winter	140	Atlantic mackerel	0
1981	3	Winter	141	Black sea bass	0
1981	3	Winter	142	Smallmouth flounder	0
1981	3	Winter	143	Rock gunnel	0
1981	3	Winter	144	Inshore lizardfish	0
1981	3	Winter	146	Silver lamprey	0
1981	3	Winter	150	Goby family	0
1981	3	Winter	157	New World silverside family	0
1981	3	Winter	159	Sand flounder family	0
1981	3	Winter	161	Pipefish family	0
1981	3	Winter	162	Mackerel scad	0
1981	3	Winter	164	Cunner	0
1981	3	Winter	169	Gray snapper	0
1981	3	Winter	172	Bigeye scad	0
1981	3	Winter	173	Striped burrfish	0
1981	3	Winter	177	Spotfin butterflyfish	0
1981	3	Winter	179	Planehead filefish	0
1981	3	Winter	180	Atlantic cutlassfish	0
1981	3	Winter	181	Pigfish	0
1981	3	Winter	184	Freckled blenny	0
1981	3	Winter	187	Margined madtom	0
1981	3	Winter	205	Freshwater drum	0
1981	3	Winter	206	King mackerel	0
1981	3	Winter	209	Highfin goby	0
1981	3	Winter	213	Oyster toadfish	0
1981	3	Winter	999	All fish taxa	120,231.38
1981	3	Spring	1	Alewife	1,057
1981	3	Spring	2	Bay anchovy	38,765
1981	3	Spring	3	American shad	562
1981	3	Spring	4	Bluefish	1,729
1981	3	Spring	5	Bluegill	154

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	3	Spring	6	Brown bullhead	35
1981	3	Spring	7	Pumpkinseed	1,223
1981	3	Spring	8	Black crappie	35
1981	3	Spring	9	Common carp	3
1981	3	Spring	10	American eel	834
1981	3	Spring	11	Goldfish	60
1981	3	Spring	12	Golden shiner	15
1981	3	Spring	13	Hogchoker	13,170
1981	3	Spring	14	Tessellated darter	48
1981	3	Spring	15	Banded killifish	100
1981	3	Spring	16	Emerald shiner	2
1981	3	Spring	17	Largemouth bass	9
1981	3	Spring	18	Mummichog	8
1981	3	Spring	19	Atlantic menhaden	487
1981	3	Spring	21	Chain pickerel	0
1981	3	Spring	22	Blueback herring	1,368
1981	3	Spring	23	White sucker	18
1981	3	Spring	24	Atlantic silverside	3
1981	3	Spring	25	Rainbow smelt	281
1981	3	Spring	26	Smallmouth bass	0
1981	3	Spring	27	Shortnose sturgeon	0.00
1981	3	Spring	28	Spottail shiner	99
1981	3	Spring	29	Atlantic sturgeon	0.00
1981	3	Spring	30	Striped bass	3,312
1981	3	Spring	31	Fourspine stickleback	14
1981	3	Spring	32	Atlantic tomcod	31,355
1981	3	Spring	34	White catfish	153
1981	3	Spring	35	White perch	76,697
1981	3	Spring	36	Yellow perch	95
1981	3	Spring	37	Satinfin shiner	0
1981	3	Spring	38	Rock bass	0
1981	3	Spring	39	Northern pipefish	235
1981	3	Spring	40	Redbreast sunfish	33
1981	3	Spring	41	Atlantic needlefish	2
1981	3	Spring	42	Crevalle jack	0
1981	3	Spring	45	Weakfish	0
1981	3	Spring	47	Common shiner	0
1981	3	Spring	49	Lookdown	0
1981	3	Spring	50	Herring family	308
1981	3	Spring	54	Lined seahorse	5
1981	3	Spring	55	Logperch	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	3	Spring	58	Fathead minnow	2
1981	3	Spring	59	Carp and minnow family	0
1981	3	Spring	60	Morone species	0
1981	3	Spring	62	Tautog	3
1981	3	Spring	63	Fourbeard rockling	0
1981	3	Spring	64	Striped cusk-eel	0
1981	3	Spring	67	Spot	0
1981	3	Spring	68	Atlantic moonfish	0
1981	3	Spring	71	Scup	0
1981	3	Spring	72	Winter flounder	3
1981	3	Spring	73	Inland silverside	0
1981	3	Spring	74	Sea lamprey	0
1981	3	Spring	75	Gizzard shad	0
1981	3	Spring	76	Silver hake	7
1981	3	Spring	77	Striped mullet	0
1981	3	Spring	78	Threespine stickleback	3
1981	3	Spring	79	Brown trout	0
1981	3	Spring	80	Butterfish	0
1981	3	Spring	81	White crappie	0
1981	3	Spring	83	Northern pike	0
1981	3	Spring	84	Green sunfish	0
1981	3	Spring	85	Silver perch	0
1981	3	Spring	86	Northern puffer	0
1981	3	Spring	96	Sunfish family	0
1981	3	Spring	98	Red hake	2
1981	3	Spring	100	Central mudminnow	0
1981	3	Spring	101	Grubby	0
1981	3	Spring	102	Eastern mudminnow	0
1981	3	Spring	103	White bass	0
1981	3	Spring	104	Rough silverside	0
1981	3	Spring	105	Longear sunfish	0
1981	3	Spring	106	Summer flounder	4
1981	3	Spring	108	Creek chub	0
1981	3	Spring	109	Black bullhead	0
1981	3	Spring	110	Striped searobin	2
1981	3	Spring	111	Northern searobin	0
1981	3	Spring	113	Atlantic croaker	0
1981	3	Spring	114	Longhorn sculpin	0
1981	3	Spring	116	Hickory shad	0
1981	3	Spring	120	Conger eel	0
1981	3	Spring	122	Warmouth	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	3	Spring	125	White mullet	0
1981	3	Spring	126	Yellow bullhead	0
1981	3	Spring	127	Channel catfish	0
1981	3	Spring	130	Naked goby	0
1981	3	Spring	132	Windowpane	8
1981	3	Spring	133	Spotted hake	0
1981	3	Spring	136	Northern stargazer	0
1981	3	Spring	137	American sand lance	0
1981	3	Spring	139	Fourspot flounder	0
1981	3	Spring	140	Atlantic mackerel	0
1981	3	Spring	141	Black sea bass	0
1981	3	Spring	142	Smallmouth flounder	7
1981	3	Spring	143	Rock gunnel	0
1981	3	Spring	144	Inshore lizardfish	0
1981	3	Spring	146	Silver lamprey	0
1981	3	Spring	150	Goby family	0
1981	3	Spring	157	New World silverside family	0
1981	3	Spring	159	Sand flounder family	0
1981	3	Spring	161	Pipefish family	0
1981	3	Spring	162	Mackerel scad	0
1981	3	Spring	164	Cunner	0
1981	3	Spring	169	Gray snapper	0
1981	3	Spring	172	Bigeye scad	0
1981	3	Spring	173	Striped burrfish	0
1981	3	Spring	177	Spotfin butterflyfish	0
1981	3	Spring	179	Planehead filefish	0
1981	3	Spring	180	Atlantic cutlassfish	0
1981	3	Spring	181	Pigfish	0
1981	3	Spring	184	Freckled blenny	0
1981	3	Spring	187	Margined madtom	0
1981	3	Spring	205	Freshwater drum	0
1981	3	Spring	206	King mackerel	0
1981	3	Spring	209	Highfin goby	0
1981	3	Spring	213	Oyster toadfish	0
1981	3	Spring	999	All fish taxa	172,313.00
1981	3	Summer	1	Alewife	7,718
1981	3	Summer	2	Bay anchovy	75,062
1981	3	Summer	3	American shad	20,972
1981	3	Summer	4	Bluefish	6,313
1981	3	Summer	5	Bluegill	41
1981	3	Summer	6	Brown bullhead	114

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	3	Summer	7	Pumpkinseed	428
1981	3	Summer	8	Black crappie	0
1981	3	Summer	9	Common carp	0
1981	3	Summer	10	American eel	402
1981	3	Summer	11	Goldfish	0
1981	3	Summer	12	Golden shiner	0
1981	3	Summer	13	Hogchoker	8,397
1981	3	Summer	14	Tessellated darter	13
1981	3	Summer	15	Banded killifish	7
1981	3	Summer	16	Emerald shiner	0
1981	3	Summer	17	Largemouth bass	0
1981	3	Summer	18	Mummichog	0
1981	3	Summer	19	Atlantic menhaden	1,423
1981	3	Summer	21	Chain pickerel	0
1981	3	Summer	22	Blueback herring	11,117
1981	3	Summer	23	White sucker	0
1981	3	Summer	24	Atlantic silverside	0
1981	3	Summer	25	Rainbow smelt	7
1981	3	Summer	26	Smallmouth bass	0
1981	3	Summer	27	Shortnose sturgeon	0.00
1981	3	Summer	28	Spottail shiner	14
1981	3	Summer	29	Atlantic sturgeon	0.00
1981	3	Summer	30	Striped bass	3,623
1981	3	Summer	31	Fourspine stickleback	0
1981	3	Summer	32	Atlantic tomcod	43,615
1981	3	Summer	34	White catfish	148
1981	3	Summer	35	White perch	25,571
1981	3	Summer	36	Yellow perch	7
1981	3	Summer	37	Satinfin shiner	0
1981	3	Summer	38	Rock bass	0
1981	3	Summer	39	Northern pipefish	80
1981	3	Summer	40	Redbreast sunfish	34
1981	3	Summer	41	Atlantic needlefish	0
1981	3	Summer	42	Crevalle jack	28
1981	3	Summer	45	Weakfish	11,647
1981	3	Summer	47	Common shiner	0
1981	3	Summer	49	Lookdown	0
1981	3	Summer	50	Herring family	1,086
1981	3	Summer	54	Lined seahorse	0
1981	3	Summer	55	Logperch	0
1981	3	Summer	58	Fathead minnow	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	3	Summer	59	Carp and minnow family	0
1981	3	Summer	60	Morone species	0
1981	3	Summer	62	Tautog	0
1981	3	Summer	63	Fourbeard rockling	0
1981	3	Summer	64	Striped cusk-eel	0
1981	3	Summer	67	Spot	0
1981	3	Summer	68	Atlantic moonfish	0
1981	3	Summer	71	Scup	0
1981	3	Summer	72	Winter flounder	0
1981	3	Summer	73	Inland silverside	0
1981	3	Summer	74	Sea lamprey	0
1981	3	Summer	75	Gizzard shad	0
1981	3	Summer	76	Silver hake	0
1981	3	Summer	77	Striped mullet	0
1981	3	Summer	78	Threespine stickleback	0
1981	3	Summer	79	Brown trout	0
1981	3	Summer	80	Butterfish	80
1981	3	Summer	81	White crappie	0
1981	3	Summer	83	Northern pike	0
1981	3	Summer	84	Green sunfish	0
1981	3	Summer	85	Silver perch	0
1981	3	Summer	86	Northern puffer	7
1981	3	Summer	96	Sunfish family	0
1981	3	Summer	98	Red hake	0
1981	3	Summer	100	Central mudminnow	0
1981	3	Summer	101	Grubby	0
1981	3	Summer	102	Eastern mudminnow	0
1981	3	Summer	103	White bass	0
1981	3	Summer	104	Rough silverside	20
1981	3	Summer	105	Longear sunfish	0
1981	3	Summer	106	Summer flounder	67
1981	3	Summer	108	Creek chub	0
1981	3	Summer	109	Black bullhead	7
1981	3	Summer	110	Striped searobin	0
1981	3	Summer	111	Northern searobin	13
1981	3	Summer	113	Atlantic croaker	0
1981	3	Summer	114	Longhorn sculpin	0
1981	3	Summer	116	Hickory shad	0
1981	3	Summer	120	Conger eel	0
1981	3	Summer	122	Warmouth	0
1981	3	Summer	125	White mullet	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	3	Summer	126	Yellow bullhead	0
1981	3	Summer	127	Channel catfish	0
1981	3	Summer	130	Naked goby	0
1981	3	Summer	132	Windowpane	7
1981	3	Summer	133	Spotted hake	0
1981	3	Summer	136	Northern stargazer	0
1981	3	Summer	137	American sand lance	0
1981	3	Summer	139	Fourspot flounder	0
1981	3	Summer	140	Atlantic mackerel	0
1981	3	Summer	141	Black sea bass	0
1981	3	Summer	142	Smallmouth flounder	0
1981	3	Summer	143	Rock gunnel	0
1981	3	Summer	144	Inshore lizardfish	0
1981	3	Summer	146	Silver lamprey	0
1981	3	Summer	150	Goby family	0
1981	3	Summer	157	New World silverside family	0
1981	3	Summer	159	Sand flounder family	0
1981	3	Summer	161	Pipefish family	0
1981	3	Summer	162	Mackerel scad	0
1981	3	Summer	164	Cunner	0
1981	3	Summer	169	Gray snapper	0
1981	3	Summer	172	Bigeye scad	7
1981	3	Summer	173	Striped burrfish	7
1981	3	Summer	177	Spotfin butterflyfish	0
1981	3	Summer	179	Planehead filefish	0
1981	3	Summer	180	Atlantic cutlassfish	0
1981	3	Summer	181	Pigfish	0
1981	3	Summer	184	Freckled blenny	0
1981	3	Summer	187	Margined madtom	0
1981	3	Summer	205	Freshwater drum	0
1981	3	Summer	206	King mackerel	0
1981	3	Summer	209	Highfin goby	0
1981	3	Summer	213	Oyster toadfish	0
1981	3	Summer	999	All fish taxa	218,079.00
1981	3	Fall	1	Alewife	19
1981	3	Fall	2	Bay anchovy	44
1981	3	Fall	3	American shad	171
1981	3	Fall	4	Bluefish	0
1981	3	Fall	5	Bluegill	47
1981	3	Fall	6	Brown bullhead	13
1981	3	Fall	7	Pumpkinseed	2,836

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	3	Fall	8	Black crappie	3
1981	3	Fall	9	Common carp	5
1981	3	Fall	10	American eel	239
1981	3	Fall	11	Goldfish	5
1981	3	Fall	12	Golden shiner	5
1981	3	Fall	13	Hogchoker	1,051
1981	3	Fall	14	Tessellated darter	24
1981	3	Fall	15	Banded killifish	223
1981	3	Fall	16	Emerald shiner	0
1981	3	Fall	17	Largemouth bass	8
1981	3	Fall	18	Mummichog	8
1981	3	Fall	19	Atlantic menhaden	0
1981	3	Fall	21	Chain pickerel	0
1981	3	Fall	22	Blueback herring	2,728
1981	3	Fall	23	White sucker	0
1981	3	Fall	24	Atlantic silverside	8
1981	3	Fall	25	Rainbow smelt	62
1981	3	Fall	26	Smallmouth bass	0
1981	3	Fall	27	Shortnose sturgeon	0.00
1981	3	Fall	28	Spottail shiner	145
1981	3	Fall	29	Atlantic sturgeon	3.08
1981	3	Fall	30	Striped bass	13,807
1981	3	Fall	31	Fourspine stickleback	3
1981	3	Fall	32	Atlantic tomcod	787
1981	3	Fall	34	White catfish	419
1981	3	Fall	35	White perch	460,892
1981	3	Fall	36	Yellow perch	166
1981	3	Fall	37	Satinfin shiner	0
1981	3	Fall	38	Rock bass	0
1981	3	Fall	39	Northern pipefish	8
1981	3	Fall	40	Redbreast sunfish	3
1981	3	Fall	41	Atlantic needlefish	0
1981	3	Fall	42	Crevalle jack	0
1981	3	Fall	45	Weakfish	43
1981	3	Fall	47	Common shiner	0
1981	3	Fall	49	Lookdown	0
1981	3	Fall	50	Herring family	0
1981	3	Fall	54	Lined seahorse	0
1981	3	Fall	55	Logperch	0
1981	3	Fall	58	Fathead minnow	0
1981	3	Fall	59	Carp and minnow family	13

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	3	Fall	60	Morone species	0
1981	3	Fall	62	Tautog	0
1981	3	Fall	63	Fourbeard rockling	0
1981	3	Fall	64	Striped cusk-eel	0
1981	3	Fall	67	Spot	0
1981	3	Fall	68	Atlantic moonfish	0
1981	3	Fall	71	Scup	0
1981	3	Fall	72	Winter flounder	3
1981	3	Fall	73	Inland silverside	0
1981	3	Fall	74	Sea lamprey	0
1981	3	Fall	75	Gizzard shad	725
1981	3	Fall	76	Silver hake	0
1981	3	Fall	77	Striped mullet	0
1981	3	Fall	78	Threespine stickleback	3
1981	3	Fall	79	Brown trout	0
1981	3	Fall	80	Butterfish	0
1981	3	Fall	81	White crappie	0
1981	3	Fall	83	Northern pike	0
1981	3	Fall	84	Green sunfish	0
1981	3	Fall	85	Silver perch	0
1981	3	Fall	86	Northern puffer	0
1981	3	Fall	96	Sunfish family	0
1981	3	Fall	98	Red hake	10
1981	3	Fall	100	Central mudminnow	0
1981	3	Fall	101	Grubby	0
1981	3	Fall	102	Eastern mudminnow	0
1981	3	Fall	103	White bass	0
1981	3	Fall	104	Rough silverside	0
1981	3	Fall	105	Longear sunfish	0
1981	3	Fall	106	Summer flounder	0
1981	3	Fall	108	Creek chub	0
1981	3	Fall	109	Black bullhead	8
1981	3	Fall	110	Striped searobin	3
1981	3	Fall	111	Northern searobin	0
1981	3	Fall	113	Atlantic croaker	0
1981	3	Fall	114	Longhorn sculpin	3
1981	3	Fall	116	Hickory shad	0
1981	3	Fall	120	Conger eel	0
1981	3	Fall	122	Warmouth	0
1981	3	Fall	125	White mullet	0
1981	3	Fall	126	Yellow bullhead	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1981	3	Fall	127	Channel catfish	0
1981	3	Fall	130	Naked goby	0
1981	3	Fall	132	Windowpane	0
1981	3	Fall	133	Spotted hake	0
1981	3	Fall	136	Northern stargazer	0
1981	3	Fall	137	American sand lance	0
1981	3	Fall	139	Fourspot flounder	0
1981	3	Fall	140	Atlantic mackerel	0
1981	3	Fall	141	Black sea bass	0
1981	3	Fall	142	Smallmouth flounder	0
1981	3	Fall	143	Rock gunnel	0
1981	3	Fall	144	Inshore lizardfish	0
1981	3	Fall	146	Silver lamprey	0
1981	3	Fall	150	Goby family	0
1981	3	Fall	157	New World silverside family	0
1981	3	Fall	159	Sand flounder family	0
1981	3	Fall	161	Pipefish family	0
1981	3	Fall	162	Mackerel scad	0
1981	3	Fall	164	Cunner	0
1981	3	Fall	169	Gray snapper	0
1981	3	Fall	172	Bigeye scad	0
1981	3	Fall	173	Striped burrfish	0
1981	3	Fall	177	Spotfin butterflyfish	0
1981	3	Fall	179	Planehead filefish	0
1981	3	Fall	180	Atlantic cutlassfish	0
1981	3	Fall	181	Pigfish	0
1981	3	Fall	184	Freckled blenny	0
1981	3	Fall	187	Margined madtom	0
1981	3	Fall	205	Freshwater drum	0
1981	3	Fall	206	King mackerel	0
1981	3	Fall	209	Highfin goby	0
1981	3	Fall	213	Oyster toadfish	0
1981	3	Fall	999	All fish taxa	484,538.08
1982	2	Winter	1	Alewife	0
1982	2	Winter	2	Bay anchovy	24
1982	2	Winter	3	American shad	6
1982	2	Winter	4	Bluefish	0
1982	2	Winter	5	Bluegill	0
1982	2	Winter	6	Brown bullhead	30
1982	2	Winter	7	Pumpkinseed	1,053
1982	2	Winter	8	Black crappie	6

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	2	Winter	9	Common carp	0
1982	2	Winter	10	American eel	325
1982	2	Winter	11	Goldfish	12
1982	2	Winter	12	Golden shiner	12
1982	2	Winter	13	Hogchoker	278
1982	2	Winter	14	Tessellated darter	61
1982	2	Winter	15	Banded killifish	391
1982	2	Winter	16	Emerald shiner	0
1982	2	Winter	17	Largemouth bass	6
1982	2	Winter	18	Mummichog	24
1982	2	Winter	19	Atlantic menhaden	0
1982	2	Winter	21	Chain pickerel	0
1982	2	Winter	22	Blueback herring	0
1982	2	Winter	23	White sucker	0
1982	2	Winter	24	Atlantic silverside	0
1982	2	Winter	25	Rainbow smelt	55
1982	2	Winter	26	Smallmouth bass	24
1982	2	Winter	27	Shortnose sturgeon	0.00
1982	2	Winter	28	Spottail shiner	697
1982	2	Winter	29	Atlantic sturgeon	0.00
1982	2	Winter	30	Striped bass	7,894
1982	2	Winter	31	Fourspine stickleback	0
1982	2	Winter	32	Atlantic tomcod	1,236
1982	2	Winter	34	White catfish	109
1982	2	Winter	35	White perch	488,182
1982	2	Winter	36	Yellow perch	249
1982	2	Winter	37	Satinfin shiner	0
1982	2	Winter	38	Rock bass	0
1982	2	Winter	39	Northern pipefish	0
1982	2	Winter	40	Redbreast sunfish	0
1982	2	Winter	41	Atlantic needlefish	0
1982	2	Winter	42	Crevalle jack	0
1982	2	Winter	45	Weakfish	0
1982	2	Winter	47	Common shiner	0
1982	2	Winter	49	Lookdown	0
1982	2	Winter	50	Herring family	0
1982	2	Winter	50	Herring family	0
1982	2	Winter	54	Lined seahorse	0
1982	2	Winter	55	Logperch	0
1982	2	Winter	58	Fathead minnow	0
1982	2	Winter	59	Carp and minnow family	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	2	Winter	60	Morone species	0
1982	2	Winter	62	Tautog	0
1982	2	Winter	63	Fourbeard rockling	0
1982	2	Winter	64	Striped cusk-eel	0
1982	2	Winter	67	Spot	0
1982	2	Winter	68	Atlantic moonfish	0
1982	2	Winter	71	Scup	0
1982	2	Winter	72	Winter flounder	0
1982	2	Winter	73	Inland silverside	0
1982	2	Winter	74	Sea lamprey	12
1982	2	Winter	75	Gizzard shad	335
1982	2	Winter	76	Silver hake	0
1982	2	Winter	77	Striped mullet	0
1982	2	Winter	78	Threespine stickleback	79
1982	2	Winter	79	Brown trout	0
1982	2	Winter	80	Butterfish	0
1982	2	Winter	81	White crappie	0
1982	2	Winter	83	Northern pike	0
1982	2	Winter	84	Green sunfish	0
1982	2	Winter	85	Silver perch	0
1982	2	Winter	86	Northern puffer	0
1982	2	Winter	96	Sunfish family	519
1982	2	Winter	98	Red hake	0
1982	2	Winter	100	Central mudminnow	0
1982	2	Winter	101	Grubby	0
1982	2	Winter	102	Eastern mudminnow	0
1982	2	Winter	103	White bass	0
1982	2	Winter	104	Rough silverside	0
1982	2	Winter	105	Longear sunfish	0
1982	2	Winter	106	Summer flounder	0
1982	2	Winter	108	Creek chub	0
1982	2	Winter	109	Black bullhead	0
1982	2	Winter	110	Striped searobin	0
1982	2	Winter	111	Northern searobin	0
1982	2	Winter	113	Atlantic croaker	0
1982	2	Winter	114	Longhorn sculpin	0
1982	2	Winter	116	Hickory shad	0
1982	2	Winter	120	Conger eel	0
1982	2	Winter	122	Warmouth	0
1982	2	Winter	125	White mullet	0
1982	2	Winter	126	Yellow bullhead	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	2	Winter	127	Channel catfish	0
1982	2	Winter	130	Naked goby	0
1982	2	Winter	132	Windowpane	0
1982	2	Winter	133	Spotted hake	0
1982	2	Winter	136	Northern stargazer	0
1982	2	Winter	137	American sand lance	0
1982	2	Winter	139	Fourspot flounder	0
1982	2	Winter	140	Atlantic mackerel	0
1982	2	Winter	141	Black sea bass	0
1982	2	Winter	142	Smallmouth flounder	0
1982	2	Winter	143	Rock gunnel	0
1982	2	Winter	144	Inshore lizardfish	0
1982	2	Winter	146	Silver lamprey	0
1982	2	Winter	150	Goby family	0
1982	2	Winter	157	New World silverside family	0
1982	2	Winter	159	Sand flounder family	0
1982	2	Winter	161	Pipefish family	0
1982	2	Winter	162	Mackerel scad	0
1982	2	Winter	164	Cunner	0
1982	2	Winter	169	Gray snapper	0
1982	2	Winter	172	Bigeye scad	0
1982	2	Winter	173	Striped burrfish	0
1982	2	Winter	177	Spotfin butterflyfish	0
1982	2	Winter	179	Planehead filefish	0
1982	2	Winter	180	Atlantic cutlassfish	0
1982	2	Winter	181	Pigfish	0
1982	2	Winter	184	Freckled blenny	0
1982	2	Winter	187	Margined madtom	0
1982	2	Winter	205	Freshwater drum	0
1982	2	Winter	206	King mackerel	0
1982	2	Winter	209	Highfin goby	0
1982	2	Winter	213	Oyster toadfish	0
1982	2	Winter	999	All fish taxa	501,620.00
1982	2	Spring	1	Alewife	1,970
1982	2	Spring	2	Bay anchovy	1,651
1982	2	Spring	3	American shad	0
1982	2	Spring	4	Bluefish	522
1982	2	Spring	5	Bluegill	131
1982	2	Spring	6	Brown bullhead	26
1982	2	Spring	7	Pumpkinseed	317
1982	2	Spring	8	Black crappie	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	2	Spring	9	Common carp	0
1982	2	Spring	10	American eel	605
1982	2	Spring	11	Goldfish	22
1982	2	Spring	12	Golden shiner	0
1982	2	Spring	13	Hogchoker	48,685
1982	2	Spring	14	Tessellated darter	139
1982	2	Spring	15	Banded killifish	132
1982	2	Spring	16	Emerald shiner	0
1982	2	Spring	17	Largemouth bass	0
1982	2	Spring	18	Mummichog	0
1982	2	Spring	19	Atlantic menhaden	0
1982	2	Spring	21	Chain pickerel	0
1982	2	Spring	22	Blueback herring	103
1982	2	Spring	23	White sucker	0
1982	2	Spring	24	Atlantic silverside	0
1982	2	Spring	25	Rainbow smelt	268
1982	2	Spring	26	Smallmouth bass	0
1982	2	Spring	27	Shortnose sturgeon	0.00
1982	2	Spring	28	Spottail shiner	0
1982	2	Spring	29	Atlantic sturgeon	2.39
1982	2	Spring	30	Striped bass	115
1982	2	Spring	31	Fourspine stickleback	70
1982	2	Spring	32	Atlantic tomcod	84,356
1982	2	Spring	34	White catfish	300
1982	2	Spring	35	White perch	61,899
1982	2	Spring	36	Yellow perch	66
1982	2	Spring	37	Satinfin shiner	0
1982	2	Spring	38	Rock bass	0
1982	2	Spring	39	Northern pipefish	283
1982	2	Spring	40	Redbreast sunfish	0
1982	2	Spring	41	Atlantic needlefish	0
1982	2	Spring	42	Crevalle jack	0
1982	2	Spring	45	Weakfish	0
1982	2	Spring	47	Common shiner	0
1982	2	Spring	49	Lookdown	0
1982	2	Spring	50	Herring family	0
1982	2	Spring	50	Herring family	0
1982	2	Spring	54	Lined seahorse	0
1982	2	Spring	55	Logperch	0
1982	2	Spring	58	Fathead minnow	0
1982	2	Spring	59	Carp and minnow family	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	2	Spring	60	Morone species	0
1982	2	Spring	62	Tautog	0
1982	2	Spring	63	Fourbeard rockling	0
1982	2	Spring	64	Striped cusk-eel	24
1982	2	Spring	67	Spot	0
1982	2	Spring	68	Atlantic moonfish	0
1982	2	Spring	71	Scup	0
1982	2	Spring	72	Winter flounder	0
1982	2	Spring	73	Inland silverside	0
1982	2	Spring	74	Sea lamprey	0
1982	2	Spring	75	Gizzard shad	0
1982	2	Spring	76	Silver hake	0
1982	2	Spring	77	Striped mullet	0
1982	2	Spring	78	Threespine stickleback	0
1982	2	Spring	79	Brown trout	0
1982	2	Spring	80	Butterfish	0
1982	2	Spring	81	White crappie	0
1982	2	Spring	83	Northern pike	0
1982	2	Spring	84	Green sunfish	0
1982	2	Spring	85	Silver perch	0
1982	2	Spring	86	Northern puffer	0
1982	2	Spring	96	Sunfish family	265
1982	2	Spring	98	Red hake	0
1982	2	Spring	100	Central mudminnow	0
1982	2	Spring	101	Grubby	0
1982	2	Spring	102	Eastern mudminnow	0
1982	2	Spring	103	White bass	0
1982	2	Spring	104	Rough silverside	0
1982	2	Spring	105	Longear sunfish	0
1982	2	Spring	106	Summer flounder	0
1982	2	Spring	108	Creek chub	0
1982	2	Spring	109	Black bullhead	0
1982	2	Spring	110	Striped searobin	0
1982	2	Spring	111	Northern searobin	0
1982	2	Spring	113	Atlantic croaker	0
1982	2	Spring	114	Longhorn sculpin	0
1982	2	Spring	116	Hickory shad	0
1982	2	Spring	120	Conger eel	0
1982	2	Spring	122	Warmouth	0
1982	2	Spring	125	White mullet	0
1982	2	Spring	126	Yellow bullhead	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	2	Spring	127	Channel catfish	0
1982	2	Spring	130	Naked goby	0
1982	2	Spring	132	Windowpane	0
1982	2	Spring	133	Spotted hake	0
1982	2	Spring	136	Northern stargazer	0
1982	2	Spring	137	American sand lance	0
1982	2	Spring	139	Fourspot flounder	0
1982	2	Spring	140	Atlantic mackerel	0
1982	2	Spring	141	Black sea bass	0
1982	2	Spring	142	Smallmouth flounder	0
1982	2	Spring	143	Rock gunnel	0
1982	2	Spring	144	Inshore lizardfish	0
1982	2	Spring	146	Silver lamprey	0
1982	2	Spring	150	Goby family	0
1982	2	Spring	157	New World silverside family	0
1982	2	Spring	159	Sand flounder family	0
1982	2	Spring	161	Pipefish family	0
1982	2	Spring	162	Mackerel scad	0
1982	2	Spring	164	Cunner	0
1982	2	Spring	169	Gray snapper	0
1982	2	Spring	172	Bigeye scad	0
1982	2	Spring	173	Striped burrfish	0
1982	2	Spring	177	Spotfin butterflyfish	0
1982	2	Spring	179	Planehead filefish	0
1982	2	Spring	180	Atlantic cutlassfish	0
1982	2	Spring	181	Pigfish	0
1982	2	Spring	184	Freckled blenny	0
1982	2	Spring	187	Margined madtom	0
1982	2	Spring	205	Freshwater drum	0
1982	2	Spring	206	King mackerel	0
1982	2	Spring	209	Highfin goby	0
1982	2	Spring	213	Oyster toadfish	0
1982	2	Spring	999	All fish taxa	201,951.39
1982	2	Summer	1	Alewife	253
1982	2	Summer	2	Bay anchovy	111,691
1982	2	Summer	3	American shad	1,486
1982	2	Summer	4	Bluefish	931
1982	2	Summer	5	Bluegill	26
1982	2	Summer	6	Brown bullhead	0
1982	2	Summer	7	Pumpkinseed	0
1982	2	Summer	8	Black crappie	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	2	Summer	9	Common carp	0
1982	2	Summer	10	American eel	212
1982	2	Summer	11	Goldfish	0
1982	2	Summer	12	Golden shiner	0
1982	2	Summer	13	Hogchoker	7,277
1982	2	Summer	14	Tessellated darter	29
1982	2	Summer	15	Banded killifish	0
1982	2	Summer	16	Emerald shiner	0
1982	2	Summer	17	Largemouth bass	0
1982	2	Summer	18	Mummichog	0
1982	2	Summer	19	Atlantic menhaden	81
1982	2	Summer	21	Chain pickerel	0
1982	2	Summer	22	Blueback herring	979
1982	2	Summer	23	White sucker	0
1982	2	Summer	24	Atlantic silverside	0
1982	2	Summer	25	Rainbow smelt	889
1982	2	Summer	26	Smallmouth bass	0
1982	2	Summer	27	Shortnose sturgeon	0.00
1982	2	Summer	28	Spottail shiner	0
1982	2	Summer	29	Atlantic sturgeon	0.00
1982	2	Summer	30	Striped bass	249
1982	2	Summer	31	Fourspine stickleback	0
1982	2	Summer	32	Atlantic tomcod	32,342
1982	2	Summer	34	White catfish	140
1982	2	Summer	35	White perch	27,671
1982	2	Summer	36	Yellow perch	0
1982	2	Summer	37	Satinfin shiner	0
1982	2	Summer	38	Rock bass	0
1982	2	Summer	39	Northern pipefish	78
1982	2	Summer	40	Redbreast sunfish	0
1982	2	Summer	41	Atlantic needlefish	0
1982	2	Summer	42	Crevalle jack	0
1982	2	Summer	45	Weakfish	17,375
1982	2	Summer	47	Common shiner	0
1982	2	Summer	49	Lookdown	0
1982	2	Summer	50	Herring family	189
1982	2	Summer	50	Herring family	52
1982	2	Summer	54	Lined seahorse	0
1982	2	Summer	55	Logperch	0
1982	2	Summer	58	Fathead minnow	0
1982	2	Summer	59	Carp and minnow family	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	2	Summer	60	Morone species	600
1982	-2	Summer	62	Tautog	0
1982	2	Summer	63	Fourbeard rockling	0
1982	2	Summer	64	Striped cusk-eel	0
1982	2	Summer	67	Spot	0
1982	2	Summer	68	Atlantic moonfish	0
1982	2	Summer	71	Scup	0
1982	2	Summer	72	Winter flounder	0
1982	2	Summer	73	Inland silverside	0
1982	2	Summer	74	Sea lamprey	0
1982	2	Summer	75	Gizzard shad	0
1982	2	Summer	76	Silver hake	0
1982	2	Summer	77	Striped mullet	0
1982	2	Summer	78	Threespine stickleback	0
1982	2	Summer	79	Brown trout	0
1982	2	Summer	80	Butterfish	56
1982	2	Summer	81	White crappie	0
1982	2	Summer	83	Northern pike	0
1982	2	Summer	84	Green sunfish	0
1982	2	Summer	85	Silver perch	0
1982	2	Summer	86	Northern puffer	0
1982	2	Summer	96	Sunfish family	0
1982	2	Summer	98	Red hake	0
1982	2	Summer	100	Central mudminnow	0
1982	2	Summer	101	Grubby	0
1982	2	Summer	102	Eastern mudminnow	0
1982	2	Summer	103	White bass	0
1982	2	Summer	104	Rough silverside	0
1982	2	Summer	105	Longear sunfish	0
1982	2	Summer	106	Summer flounder	82
1982	2	Summer	108	Creek chub	0
1982	2	Summer	109	Black bullhead	0
1982	2	Summer	110	Striped searobin	0
1982	2	Summer	111	Northern searobin	0
1982	2	Summer	113	Atlantic croaker	0
1982	2	Summer	114	Longhorn sculpin	0
1982	2	Summer	116	Hickory shad	0
1982	2	Summer	120	Conger eel	0
1982	2	Summer	122	Warmouth	0
1982	2	Summer	125	White mullet	0
1982	2	Summer	126	Yellow bullhead	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	2	Summer	127	Channel catfish	0
1982	2	Summer	130	Naked goby	0
1982	2	Summer	132	Windowpane	0
1982	2	Summer	133	Spotted hake	0
1982	2	Summer	136	Northern stargazer	0
1982	2	Summer	137	American sand lance	0
1982	2	Summer	139	Fourspot flounder	0
1982	2	Summer	140	Atlantic mackerel	0
1982	2	Summer	141	Black sea bass	0
1982	2	Summer	142	Smallmouth flounder	0
1982	2	Summer	143	Rock gunnel	0
1982	2	Summer	144	Inshore lizardfish	0
1982	2	Summer	146	Silver lamprey	0
1982	2	Summer	150	Goby family	0
1982	2	Summer	157	New World silverside family	0
1982	2	Summer	159	Sand flounder family	0
1982	2	Summer	161	Pipefish family	0
1982	2	Summer	162	Mackerel scad	0
1982	2	Summer	164	Cunner	0
1982	2	Summer	169	Gray snapper	0
1982	2	Summer	172	Bigeye scad	0
1982	2	Summer	173	Striped burrfish	0
1982	2	Summer	177	Spotfin butterflyfish	0
1982	2	Summer	179	Planehead filefish	0
1982	2	Summer	180	Atlantic cutlassfish	0
1982	2	Summer	181	Pigfish	0
1982	2	Summer	184	Freckled blenny	0
1982	2	Summer	187	Margined madtom	0
1982	2	Summer	205	Freshwater drum	0
1982	2	Summer	206	King mackerel	0
1982	2	Summer	209	Highfin goby	0
1982	2	Summer	213	Oyster toadfish	0
1982	2	Summer	999	All fish taxa	202,686.00
1982	2	Fall	1	Alewife	0
1982	2	Fall	2	Bay anchovy	184
1982	2	Fall	3	American shad	0
1982	2	Fall	4	Bluefish	0
1982	2	Fall	5	Bluegill	0
1982	2	Fall	6	Brown bullhead	0
1982	2	Fall	7	Pumpkinseed	0
1982	2	Fall	8	Black crappie	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	2	Fall	9	Common carp	0
1982	2	Fall	10	American eel	0
1982	2	Fall	11	Goldfish	0
1982	2	Fall	12	Golden shiner	0
1982	2	Fall	13	Hogchoker	0
1982	2	Fall	14	Tessellated darter	0
1982	2	Fall	15	Banded killifish	0
1982	2	Fall	16	Emerald shiner	0
1982	2	Fall	17	Largemouth bass	0
1982	2	Fall	18	Mummichog	0
1982	2	Fall	19	Atlantic menhaden	7
1982	2	Fall	21	Chain pickerel	0
1982	2	Fall	22	Blueback herring	0
1982	2	Fall	23	White sucker	0
1982	2	Fall	24	Atlantic silverside	0
1982	2	Fall	25	Rainbow smelt	0
1982	2	Fall	26	Smallmouth bass	0
1982	2	Fall	27	Shortnose sturgeon	0.00
1982	2	Fall	28	Spottail shiner	0
1982	2	Fall	29	Atlantic sturgeon	0.00
1982	2	Fall	30	Striped bass	0
1982	2	Fall	31	Fourspine stickleback	0
1982	2	Fall	32	Atlantic tomcod	81
1982	2	Fall	34	White catfish	0
1982	2	Fall	35	White perch	119
1982	2	Fall	36	Yellow perch	0
1982	2	Fall	37	Satinfin shiner	0
1982	2	Fall	38	Rock bass	0
1982	2	Fall	39	Northern pipefish	7
1982	2	Fall	40	Redbreast sunfish	0
1982	2	Fall	41	Atlantic needlefish	0
1982	2	Fall	42	Crevalle jack	0
1982	2	Fall	45	Weakfish	38
1982	2	Fall	47	Common shiner	0
1982	2	Fall	49	Lookdown	0
1982	2	Fall	50	Herring family	0
1982	2	Fall	50	Herring family	0
1982	2	Fall	54	Lined seahorse	0
1982	2	Fall	55	Logperch	0
1982	2	Fall	58	Fathead minnow	0
1982	2	Fall	59	Carp and minnow family	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	2	Fall	60	Morone species	0
1982	2	Fall	62	Tautog	0
1982	2	Fall	63	Fourbeard rockling	0
1982	2	Fall	64	Striped cusk-eel	0
1982	2	Fall	67	Spot	0
1982	2	Fall	68	Atlantic moonfish	0
1982	2	Fall	71	Scup	0
1982	2	Fall	72	Winter flounder	0
1982	2	Fall	73	Inland silverside	0
1982	2	Fall	74	Sea lamprey	0
1982	2	Fall	75	Gizzard shad	0
1982	2	Fall	76	Silver hake	0
1982	2	Fall	77	Striped mullet	0
1982	2	Fall	78	Threespine stickleback	0
1982	2	Fall	79	Brown trout	0
1982	2	Fall	80	Butterfish	0
1982	2	Fall	81	White crappie	0
1982	2	Fall	83	Northern pike	0
1982	2	Fall	84	Green sunfish	0
1982	2	Fall	85	Silver perch	0
1982	2	Fall	86	Northern puffer	0
1982	2	Fall	96	Sunfish family	0
1982	2	Fall	98	Red hake	0
1982	2	Fall	100	Central mudminnow	0
1982	2	Fall	101	Grubby	0
1982	2	Fall	102	Eastern mudminnow	0
1982	2	Fall	103	White bass	0
1982	2	Fall	104	Rough silverside	0
1982	2	Fall	105	Longear sunfish	0
1982	2	Fall	106	Summer flounder	8
1982	2	Fall	108	Creek chub	0
1982	2	Fall	109	Black bullhead	0
1982	2	Fall	110	Striped searobin	0
1982	2	Fall	111	Northern searobin	0
1982	2	Fall	113	Atlantic croaker	0
1982	2	Fall	114	Longhorn sculpin	0
1982	2	Fall	116	Hickory shad	0
1982	2	Fall	120	Conger eel	0
1982	2	Fall	122	Warmouth	0
1982	2	Fall	125	White mullet	0
1982	2	Fall	126	Yellow bullhead	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	2	Fall	127	Channel catfish	0
1982	2	Fall	130	Naked goby	0
1982	2	Fall	132	Windowpane	0
1982	2	Fall	133	Spotted hake	0
1982	2	Fall	136	Northern stargazer	0
1982	2	Fall	137	American sand lance	0
1982	2	Fall	139	Fourspot flounder	8
1982	2	Fall	140	Atlantic mackerel	0
1982	2	Fall	141	Black sea bass	0
1982	2	Fall	142	Smallmouth flounder	0
1982	2	Fall	143	Rock gunnel	0
1982	2	Fall	144	Inshore lizardfish	0
1982	2	Fall	146	Silver lamprey	0
1982	2	Fall	150	Goby family	0
1982	2	Fall	157	New World silverside family	0
1982	2	Fall	159	Sand flounder family	0
1982	2	Fall	161	Pipefish family	0
1982	2	Fall	162	Mackerel scad	0
1982	2	Fall	164	Cunner	0
1982	2	Fall	169	Gray snapper	0
1982	2	Fall	172	Bigeye scad	0
1982	2	Fall	173	Striped burrfish	0
1982	2	Fall	177	Spotfin butterflyfish	0
1982	2	Fall	179	Planehead filefish	0
1982	2	Fall	180	Atlantic cutlassfish	0
1982	2	Fall	181	Pigfish	0
1982	2	Fall	184	Freckled blenny	0
1982	2	Fall	187	Margined madtom	0
1982	2	Fall	205	Freshwater drum	0
1982	2	Fall	206	King mackerel	0
1982	2	Fall	209	Highfin goby	0
1982	2	Fall	213	Oyster toadfish	0
1982	2	Fall	999	All fish taxa	451.00
1982	3	Winter	1	Alewife	0
1982	3	Winter	2	Bay anchovy	72
1982	3	Winter	3	American shad	5
1982	3	Winter	4	Bluefish	0
1982	3	Winter	5	Bluegill	85
1982	3	Winter	6	Brown bullhead	48
1982	3	Winter	7	Pumpkinseed	1,551
1982	3	Winter	8	Black crappie	9

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	3	Winter	9	Common carp	5
1982	3	Winter	10	American eel	220
1982	3	Winter	11	Goldfish	29
1982	3	Winter	12	Golden shiner	34
1982	3	Winter	13	Hogchoker	449
1982	3	Winter	14	Tessellated darter	15
1982	3	Winter	15	Banded killifish	187
1982	3	Winter	16	Emerald shiner	0
1982	3	Winter	17	Largemouth bass	29
1982	3	Winter	18	Mummichog	5
1982	3	Winter	19	Atlantic menhaden	0
1982	3	Winter	21	Chain pickerel	0
1982	3	Winter	22	Blueback herring	5
1982	3	Winter	23	White sucker	0
1982	3	Winter	24	Atlantic silverside	5
1982	3	Winter	25	Rainbow smelt	68
1982	3	Winter	26	Smallmouth bass	33
1982	3	Winter	27	Shortnose sturgeon	0.00
1982	3	Winter	28	Spottail shiner	346
1982	3	Winter	29	Atlantic sturgeon	1.41
1982	3	Winter	30	Striped bass	49,350
1982	3	Winter	31	Fourspine stickleback	0
1982	3	Winter	32	Atlantic tomcod	964
1982	3	Winter	34	White catfish	292
1982	3	Winter	35	White perch	639,192
1982	3	Winter	36	Yellow perch	230
1982	3	Winter	37	Satinfin shiner	0
1982	3	Winter	38	Rock bass	0
1982	3	Winter	39	Northern pipefish	0
1982	3	Winter	40	Redbreast sunfish	0
1982	3	Winter	41	Atlantic needlefish	0
1982	3	Winter	42	Crevalle jack	0
1982	3	Winter	45	Weakfish	0
1982	3	Winter	47	Common shiner	0
1982	3	Winter	49	Lookdown	0
1982	3	Winter	50	Herring family	0
1982	3	Winter	54	Lined seahorse	0
1982	3	Winter	55	Logperch	0
1982	3	Winter	58	Fathead minnow	0
1982	3	Winter	59	Carp and minnow family	0
1982	3	Winter	60	Morone species	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	3	Winter	62	Tautog	0
1982	3	Winter	63	Fourbeard rockling	0
1982	3	Winter	64	Striped cusk-eel	0
1982	3	Winter	67	Spot	0
1982	3	Winter	68	Atlantic moonfish	0
1982	3	Winter	71	Scup	0
1982	3	Winter	72	Winter flounder	29
1982	3	Winter	73	Inland silverside	0
1982	3	Winter	74	Sea lamprey	5
1982	3	Winter	75	Gizzard shad	1,961
1982	3	Winter	76	Silver hake	0
1982	3	Winter	77	Striped mullet	0
1982	3	Winter	78	Threespine stickleback	150
1982	3	Winter	79	Brown trout	0
1982	3	Winter	80	Butterfish	0
1982	3	Winter	81	White crappie	0
1982	3	Winter	83	Northern pike	0
1982	3	Winter	84	Green sunfish	0
1982	3	Winter	85	Silver perch	0
1982	3	Winter	86	Northern puffer	0
1982	3	Winter	96	Sunfish family	310
1982	3	Winter	98	Red hake	10
1982	3	Winter	100	Central mudminnow	0
1982	3	Winter	101	Grubby	5
1982	3	Winter	102	Eastern mudminnow	0
1982	3	Winter	103	White bass	0
1982	3	Winter	104	Rough silverside	0
1982	3	Winter	105	Longear sunfish	0
1982	3	Winter	106	Summer flounder	5
1982	3	Winter	108	Creek chub	0
1982	3	Winter	109	Black bullhead	10
1982	3	Winter	110	Striped searobin	0
1982	3	Winter	111	Northern searobin	0
1982	3	Winter	113	Atlantic croaker	0
1982	3	Winter	114	Longhorn sculpin	0
1982	3	Winter	116	Hickory shad	0
1982	3	Winter	120	Conger eel	0
1982	3	Winter	122	Warmouth	0
1982	3	Winter	125	White mullet	0
1982	3	Winter	126	Yellow bullhead	0
1982	3	Winter	127	Channel catfish	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	3	Winter	130	Naked goby	0
1982	3	Winter	132	Windowpane	0
1982	3	Winter	133	Spotted hake	0
1982	3	Winter	136	Northern stargazer	0
1982	3	Winter	137	American sand lance	0
1982	3	Winter	139	Fourspot flounder	0
1982	3	Winter	140	Atlantic mackerel	0
1982	3	Winter	141	Black sea bass	0
1982	3	Winter	142	Smallmouth flounder	0
1982	3	Winter	143	Rock gunnel	0
1982	3	Winter	144	Inshore lizardfish	0
1982	3	Winter	146	Silver lamprey	0
1982	3	Winter	150	Goby family	0
1982	3	Winter	157	New World silverside family	0
1982	3	Winter	159	Sand flounder family	0
1982	3	Winter	161	Pipefish family	0
1982	3	Winter	162	Mackerel scad	0
1982	3	Winter	164	Cunner	0
1982	3	Winter	169	Gray snapper	0
1982	3	Winter	172	Bigeye scad	0
1982	3	Winter	173	Striped burrfish	0
1982	3	Winter	177	Spotfin butterflyfish	0
1982	3	Winter	179	Planehead filefish	0
1982	3	Winter	180	Atlantic cutlassfish	0
1982	3	Winter	181	Pigfish	0
1982	3	Winter	184	Freckled blenny	0
1982	3	Winter	187	Margined madtom	0
1982	3	Winter	205	Freshwater drum	0
1982	3	Winter	206	King mackerel	0
1982	3	Winter	209	Highfin goby	0
1982	3	Winter	213	Oyster toadfish	0
1982	3	Winter	999	All fish taxa	695,710.41
1982	3	Spring	1	Alewife	0
1982	3	Spring	2	Bay anchovy	0
1982	3	Spring	3	American shad	0
1982	3	Spring	4	Bluefish	0
1982	3	Spring	5	Bluegill	0
1982	3	Spring	6	Brown bullhead	0
1982	3	Spring	7	Pumpkinseed	0
1982	3	Spring	8	Black crappie	0
1982	3	Spring	9	Common carp	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	3	Spring	10	American eel	0
1982	3	Spring	11	Goldfish	0
1982	3	Spring	12	Golden shiner	0
1982	3	Spring	13	Hogchoker	0
1982	3	Spring	14	Tessellated darter	0
1982	3	Spring	15	Banded killifish	0
1982	3	Spring	16	Emerald shiner	0
1982	3	Spring	17	Largemouth bass	0
1982	3	Spring	18	Mummichog	0
1982	3	Spring	19	Atlantic menhaden	0
1982	3	Spring	21	Chain pickerel	0
1982	3	Spring	22	Blueback herring	0
1982	3	Spring	23	White sucker	0
1982	3	Spring	24	Atlantic silverside	0
1982	3	Spring	25	Rainbow smelt	0
1982	3	Spring	26	Smallmouth bass	0
1982	3	Spring	27	Shortnose sturgeon	0.00
1982	3	Spring	28	Spottail shiner	15
1982	3	Spring	29	Atlantic sturgeon	0.00
1982	3	Spring	30	Striped bass	15
1982	3	Spring	31	Fourspine stickleback	0
1982	3	Spring	32	Atlantic tomcod	0
1982	3	Spring	34	White catfish	0
1982	3	Spring	35	White perch	267
1982	3	Spring	36	Yellow perch	0
1982	3	Spring	37	Satinfin shiner	0
1982	3	Spring	38	Rock bass	0
1982	3	Spring	39	Northern pipefish	0
1982	3	Spring	40	Redbreast sunfish	0
1982	3	Spring	41	Atlantic needlefish	0
1982	3	Spring	42	Crevalle jack	0
1982	3	Spring	45	Weakfish	0
1982	3	Spring	47	Common shiner	0
1982	3	Spring	49	Lookdown	0
1982	3	Spring	50	Herring family	0
1982	3	Spring	54	Lined seahorse	0
1982	3	Spring	55	Logperch	0
1982	3	Spring	58	Fathead minnow	0
1982	3	Spring	59	Carp and minnow family	0
1982	3	Spring	60	Morone species	0
1982	3	Spring	62	Tautog	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	3	Spring	63	Fourbeard rockling	0
1982	3	Spring	64	Striped cusk-eel	0
1982	3	Spring	67	Spot	0
1982	3	Spring	68	Atlantic moonfish	0
1982	3	Spring	71	Scup	0
1982	3	Spring	72	Winter flounder	0
1982	3	Spring	73	Inland silverside	0
1982	3	Spring	74	Sea lamprey	0
1982	3	Spring	75	Gizzard shad	0
1982	3	Spring	76	Silver hake	0
1982	3	Spring	77	Striped mullet	0
1982	3	Spring	78	Threespine stickleback	0
1982	3	Spring	79	Brown trout	0
1982	3	Spring	80	Butterfish	0
1982	3	Spring	81	White crappie	0
1982	3	Spring	83	Northern pike	0
1982	3	Spring	84	Green sunfish	0
1982	3	Spring	85	Silver perch	0
1982	3	Spring	86	Northern puffer	0
1982	3	Spring	96	Sunfish family	0
1982	3	Spring	98	Red hake	0
1982	3	Spring	100	Central mudminnow	0
1982	3	Spring	101	Grubby	0
1982	3	Spring	102	Eastern mudminnow	0
1982	3	Spring	103	White bass	0
1982	3	Spring	104	Rough silverside	0
1982	3	Spring	105	Longear sunfish	0
1982	3	Spring	106	Summer flounder	0
1982	3	Spring	108	Creek chub	0
1982	3	Spring	109	Black bullhead	0
1982	3	Spring	110	Striped searobin	0
1982	3	Spring	111	Northern searobin	0
1982	3	Spring	113	Atlantic croaker	0
1982	3	Spring	114	Longhorn sculpin	0
1982	3	Spring	116	Hickory shad	0
1982	3	Spring	120	Conger eel	0
1982	3	Spring	122	Warmouth	0
1982	3	Spring	125	White mullet	0
1982	3	Spring	126	Yellow bullhead	0
1982	3	Spring	127	Channel catfish	0
1982	3	Spring	130	Naked goby	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	3	Spring	132	Windowpane	0
1982	3	Spring	133	Spotted hake	0
1982	3	Spring	136	Northern stargazer	0
1982	3	Spring	137	American sand lance	0
1982	3	Spring	139	Fourspot flounder	0
1982	3	Spring	140	Atlantic mackerel	0
1982	3	Spring	141	Black sea bass	0
1982	3	Spring	142	Smallmouth flounder	0
1982	3	Spring	143	Rock gunnel	0
1982	3	Spring	144	Inshore lizardfish	0
1982	3	Spring	146	Silver lamprey	0
1982	3	Spring	150	Goby family	0
1982	3	Spring	157	New World silverside family	0
1982	3	Spring	159	Sand flounder family	0
1982	3	Spring	161	Pipefish family	0
1982	3	Spring	162	Mackerel scad	0
1982	3	Spring	164	Cunner	0
1982	3	Spring	169	Gray snapper	0
1982	3	Spring	172	Bigeye scad	0
1982	3	Spring	173	Striped burrfish	0
1982	3	Spring	177	Spotfin butterflyfish	0
1982	3	Spring	179	Planehead filefish	0
1982	3	Spring	180	Atlantic cutlassfish	0
1982	3	Spring	181	Pigfish	0
1982	3	Spring	184	Freckled blenny	0
1982	3	Spring	187	Margined madtom	0
1982	3	Spring	205	Freshwater drum	0
1982	3	Spring	206	King mackerel	0
1982	3	Spring	209	Highfin goby	0
1982	3	Spring	213	Oyster toadfish	0
1982	3	Spring	999	All fish taxa	297.00
1982	3	Summer	1	Alewife	
1982	3	Summer	2	Bay anchovy	
1982	3	Summer	3	American shad	
1982	3	Summer	4	Bluefish	
1982	3	Summer	5	Bluegill	
1982	3	Summer	6	Brown bullhead	
1982	3	Summer	7	Pumpkinseed	
1982	3	Summer	8	Black crappie	
1982	3	Summer	9	Common carp	
1982	3	Summer	10	American eel	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	3	Summer	11	Goldfish	
1982	3	Summer	12	Golden shiner	
1982	3	Summer	13	Hogchoker	
1982	3	Summer	14	Tessellated darter	
1982	3	Summer	15	Banded killifish	
1982	3	Summer	16	Emerald shiner	
1982	3	Summer	17	Largemouth bass	
1982	3	Summer	18	Mummichog	
1982	3	Summer	19	Atlantic menhaden	
1982	3	Summer	21	Chain pickerel	
1982	3	Summer	22	Blueback herring	
1982	3	Summer	23	White sucker	
1982	3	Summer	24	Atlantic silverside	
1982	3	Summer	25	Rainbow smelt	
1982	3	Summer	26	Smallmouth bass	
1982	3	Summer	27	Shortnose sturgeon	
1982	3	Summer	28	Spottail shiner	
1982	3	Summer	29	Atlantic sturgeon	
1982	3	Summer	30	Striped bass	
1982	3	Summer	31	Fourspine stickleback	
1982	3	Summer	32	Atlantic tomcod	
1982	3	Summer	34	White catfish	
1982	3	Summer	35	White perch	
1982	3	Summer	36	Yellow perch	
1982	3	Summer	37	Satinfin shiner	
1982	3	Summer	38	Rock bass	
1982	3	Summer	39	Northern pipefish	
1982	3	Summer	40	Redbreast sunfish	
1982	3	Summer	41	Atlantic needlefish	
1982	3	Summer	42	Crevalle jack	
1982	3	Summer	45	Weakfish	
1982	3	Summer	47	Common shiner	
1982	3	Summer	49	Lookdown	
1982	3	Summer	50	Herring family	
1982	3	Summer	54	Lined seahorse	
1982	3	Summer	55	Logperch	
1982	3	Summer	58	Fathead minnow	
1982	3	Summer	59	Carp and minnow family	
1982	3	Summer	60	Morone species	
1982	3	Summer	62	Tautog	
1982	3	Summer	63	Fourbeard rockling	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	3	Summer	64	Striped cusk-eel	
1982	3	Summer	67	Spot	
1982	3	Summer	68	Atlantic moonfish	
1982	3	Summer	71	Scup	
1982	3	Summer	72	Winter flounder	
1982	3	Summer	73	Inland silverside	
1982	3	Summer	74	Sea lamprey	
1982	3	Summer	75	Gizzard shad	
1982	3	Summer	76	Silver hake	
1982	3	Summer	77	Striped mullet	
1982	3	Summer	78	Threespine stickleback	
1982	3	Summer	79	Brown trout	
1982	3	Summer	80	Butterfish	
1982	3	Summer	81	White crappie	
1982	3	Summer	83	Northern pike	
1982	3	Summer	84	Green sunfish	
1982	3	Summer	85	Silver perch	
1982	3	Summer	86	Northern puffer	
1982	3	Summer	96	Sunfish family	
1982	3	Summer	98	Red hake	
1982	3	Summer	100	Central mudminnow	
1982	3	Summer	101	Grubby	
1982	3	Summer	102	Eastern mudminnow	
1982	3	Summer	103	White bass	
1982	3	Summer	104	Rough silverside	
1982	3	Summer	105	Longear sunfish	
1982	3	Summer	106	Summer flounder	
1982	3	Summer	108	Creek chub	
1982	3	Summer	109	Black bullhead	
1982	3	Summer	110	Striped searobin	
1982	3	Summer	111	Northern searobin	
1982	3	Summer	113	Atlantic croaker	
1982	3	Summer	114	Longhorn sculpin	
1982	3	Summer	116	Hickory shad	
1982	3	Summer	120	Conger eel	
1982	3	Summer	122	Warmouth	
1982	3	Summer	125	White mullet	
1982	3	Summer	126	Yellow bullhead	
1982	3	Summer	127	Channel catfish	
1982	3	Summer	130	Naked goby	
1982	3	Summer	132	Windowpane	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	3	Summer	133	Spotted hake	
1982	3	Summer	136	Northern stargazer	
1982	3	Summer	137	American sand lance	
1982	3	Summer	139	Fourspot flounder	
1982	3	Summer	140	Atlantic mackerel	
1982	3	Summer	141	Black sea bass	
1982	3	Summer	142	Smallmouth flounder	
1982	3	Summer	143	Rock gunnel	
1982	3	Summer	144	Inshore lizardfish	
1982	3	Summer	146	Silver lamprey	
1982	3	Summer	150	Goby family	
1982	3	Summer	157	New World silverside family	
1982	3	Summer	159	Sand flounder family	
1982	3	Summer	161	Pipefish family	
1982	3	Summer	162	Mackerel scad	
1982	3	Summer	164	Cunner	
1982	3	Summer	169	Gray snapper	
1982	3	Summer	172	Bigeye scad	
1982	3	Summer	173	Striped burrfish	
1982	3	Summer	177	Spotfin butterflyfish	
1982	3	Summer	179	Planehead filefish	
1982	3	Summer	180	Atlantic cutlassfish	
1982	3	Summer	181	Pigfish	
1982	3	Summer	184	Freckled blenny	
1982	3	Summer	187	Margined madtom	
1982	3	Summer	205	Freshwater drum	
1982	3	Summer	206	King mackerel	
1982	3	Summer	209	Highfin goby	
1982	3	Summer	213	Oyster toadfish	
1982	3	Summer	999	All fish taxa	
1982	3	Fall	1	Alewife	0
1982	3	Fall	2	Bay anchovy	0
1982	3	Fall	3	American shad	0
1982	3	Fall	4	Bluefish	0
1982	3	Fall	5	Bluegill	0
1982	3	Fall	6	Brown bullhead	0
1982	3	Fall	7	Pumpkinseed	0
1982	3	Fall	8	Black crappie	0
1982	3	Fall	9	Common carp	0
1982	3	Fall	10	American eel	0
1982	3	Fall	11	Goldfish	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	3	Fall	12	Golden shiner	0
1982	3	Fall	13	Hogchoker	0
1982	3	Fall	14	Tessellated darter	0
1982	3	Fall	15	Banded killifish	0
1982	3	Fall	16	Emerald shiner	0
1982	3	Fall	17	Largemouth bass	0
1982	3	Fall	18	Mummichog	0
1982	3	Fall	19	Atlantic menhaden	0
1982	3	Fall	21	Chain pickerel	0
1982	3	Fall	22	Blueback herring	106
1982	3	Fall	23	White sucker	0
1982	3	Fall	24	Atlantic silverside	0
1982	3	Fall	25	Rainbow smelt	0
1982	3	Fall	26	Smallmouth bass	0
1982	3	Fall	27	Shortnose sturgeon	0.00
1982	3	Fall	28	Spottail shiner	0
1982	3	Fall	29	Atlantic sturgeon	0.00
1982	3	Fall	30	Striped bass	0
1982	3	Fall	31	Fourspine stickleback	0
1982	3	Fall	32	Atlantic tomcod	13
1982	3	Fall	34	White catfish	0
1982	3	Fall	35	White perch	31
1982	3	Fall	36	Yellow perch	0
1982	3	Fall	37	Satinfin shiner	0
1982	3	Fall	38	Rock bass	0
1982	3	Fall	39	Northern pipefish	0
1982	3	Fall	40	Redbreast sunfish	0
1982	3	Fall	41	Atlantic needlefish	0
1982	3	Fall	42	Crevalle jack	0
1982	3	Fall	45	Weakfish	0
1982	3	Fall	47	Common shiner	0
1982	3	Fall	49	Lookdown	0
1982	3	Fall	50	Herring family	0
1982	3	Fall	54	Lined seahorse	0
1982	3	Fall	55	Logperch	0
1982	3	Fall	58	Fathead minnow	0
1982	3	Fall	59	Carp and minnow family	0
1982	3	Fall	60	Morone species	0
1982	3	Fall	62	Tautog	0
1982	3	Fall	63	Fourbeard rockling	0
1982	3	Fall	64	Striped cusk-eel	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	3	Fall	67	Spot	0
1982	3	Fall	68	Atlantic moonfish	0
1982	3	Fall	71	Scup	0
1982	3	Fall	72	Winter flounder	0
1982	3	Fall	73	Inland silverside	0
1982	3	Fall	74	Sea lamprey	0
1982	3	Fall	75	Gizzard shad	0
1982	3	Fall	76	Silver hake	0
1982	3	Fall	77	Striped mullet	0
1982	3	Fall	78	Threespine stickleback	0
1982	3	Fall	79	Brown trout	0
1982	3	Fall	80	Butterfish	0
1982	3	Fall	81	White crappie	0
1982	3	Fall	83	Northern pike	0
1982	3	Fall	84	Green sunfish	0
1982	3	Fall	85	Silver perch	0
1982	3	Fall	86	Northern puffer	0
1982	3	Fall	96	Sunfish family	0
1982	3	Fall	98	Red hake	0
1982	3	Fall	100	Central mudminnow	0
1982	3	Fall	101	Grubby	0
1982	3	Fall	102	Eastern mudminnow	0
1982	3	Fall	103	White bass	0
1982	3	Fall	104	Rough silverside	0
1982	3	Fall	105	Longear sunfish	0
1982	3	Fall	106	Summer flounder	0
1982	3	Fall	108	Creek chub	0
1982	3	Fall	109	Black bullhead	0
1982	3	Fall	110	Striped searobin	0
1982	3	Fall	111	Northern searobin	0
1982	3	Fall	113	Atlantic croaker	0
1982	3	Fall	114	Longhorn sculpin	0
1982	3	Fall	116	Hickory shad	0
1982	3	Fall	120	Conger eel	0
1982	3	Fall	122	Warmouth	0
1982	3	Fall	125	White mullet	0
1982	3	Fall	126	Yellow bullhead	0
1982	3	Fall	127	Channel catfish	0
1982	3	Fall	130	Naked goby	0
1982	3	Fall	132	Windowpane	0
1982	3	Fall	133	Spotted hake	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1982	3	Fall	136	Northern stargazer	0
1982	3	Fall	137	American sand lance	0
1982	3	Fall	139	Fourspot flounder	0
1982	3	Fall	140	Atlantic mackerel	0
1982	3	Fall	141	Black sea bass	0
1982	3	Fall	142	Smallmouth flounder	0
1982	3	Fall	143	Rock gunnel	0
1982	3	Fall	144	Inshore lizardfish	0
1982	3	Fall	146	Silver lamprey	0
1982	3	Fall	150	Goby family	0
1982	3	Fall	157	New World silverside family	0
1982	3	Fall	159	Sand flounder family	0
1982	3	Fall	161	Pipefish family	0
1982	3	Fall	162	Mackerel scad	0
1982	3	Fall	164	Cunner	0
1982	3	Fall	169	Gray snapper	0
1982	3	Fall	172	Bigeye scad	0
1982	3	Fall	173	Striped burrfish	0
1982	3	Fall	177	Spotfin butterflyfish	0
1982	3	Fall	179	Planehead filefish	0
1982	3	Fall	180	Atlantic cutlassfish	0
1982	3	Fall	181	Pigfish	0
1982	3	Fall	184	Freckled blenny	0
1982	3	Fall	187	Margined madtom	0
1982	3	Fall	205	Freshwater drum	0
1982	3	Fall	206	King mackerel	0
1982	3	Fall	209	Highfin goby	0
1982	3	Fall	213	Oyster toadfish	0
1982	3	Fall	999	All fish taxa	150.00
1983	2	Winter	1	Alewife	0
1983	2	Winter	2	Bay anchovy	135
1983	2	Winter	3	American shad	0
1983	2	Winter	4	Bluefish	0
1983	2	Winter	5	Bluegill	41
1983	2	Winter	6	Brown bullhead	29
1983	2	Winter	7	Pumpkinseed	86
1983	2	Winter	8	Black crappie	0
1983	2	Winter	9	Common carp	0
1983	2	Winter	10	American eel	140
1983	2	Winter	11	Goldfish	0
1983	2	Winter	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	2	Winter	13	Hogchoker	58
1983	2	Winter	14	Tessellated darter	41
1983	2	Winter	15	Banded killifish	46
1983	2	Winter	16	Emerald shiner	0
1983	2	Winter	17	Largemouth bass	0
1983	2	Winter	18	Mummichog	0
1983	2	Winter	19	Atlantic menhaden	0
1983	2	Winter	21	Chain pickerel	0
1983	2	Winter	22	Blueback herring	24
1983	2	Winter	23	White sucker	0
1983	2	Winter	24	Atlantic silverside	0
1983	2	Winter	25	Rainbow smelt	714
1983	2	Winter	26	Smallmouth bass	0
1983	2	Winter	27	Shortnose sturgeon	0.00
1983	2	Winter	28	Spottail shiner	249
1983	2	Winter	29	Atlantic sturgeon	0.00
1983	2	Winter	30	Striped bass	10,983
1983	2	Winter	31	Fourspine stickleback	0
1983	2	Winter	32	Atlantic tomcod	3,347
1983	2	Winter	34	White catfish	70
1983	2	Winter	35	White perch	152,368
1983	2	Winter	36	Yellow perch	23
1983	2	Winter	37	Satinfin shiner	0
1983	2	Winter	38	Rock bass	0
1983	2	Winter	39	Northern pipefish	0
1983	2	Winter	40	Redbreast sunfish	0
1983	2	Winter	41	Atlantic needlefish	0
1983	2	Winter	42	Crevalle jack	0
1983	2	Winter	45	Weakfish	0
1983	2	Winter	47	Common shiner	0
1983	2	Winter	49	Lookdown	0
1983	2	Winter	50	Herring family	0
1983	2	Winter	54	Lined seahorse	0
1983	2	Winter	55	Logperch	0
1983	2	Winter	58	Fathead minnow	0
1983	2	Winter	59	Carp and minnow family	0
1983	2	Winter	60	Morone species	0
1983	2	Winter	62	Tautog	6
1983	2	Winter	63	Fourbeard rockling	0
1983	2	Winter	64	Striped cusk-eel	0
1983	2	Winter	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	2	Winter	68	Atlantic moonfish	0
1983	2	Winter	71	Scup	0
1983	2	Winter	72	Winter flounder	0
1983	2	Winter	73	Inland silverside	0
1983	2	Winter	74	Sea lamprey	12
1983	2	Winter	75	Gizzard shad	524
1983	2	Winter	76	Silver hake	35
1983	2	Winter	77	Striped mullet	0
1983	2	Winter	78	Threespine stickleback	17
1983	2	Winter	79	Brown trout	0
1983	2	Winter	80	Butterfish	0
1983	2	Winter	81	White crappie	0
1983	2	Winter	83	Northern pike	0
1983	2	Winter	84	Green sunfish	0
1983	2	Winter	85	Silver perch	0
1983	2	Winter	86	Northern puffer	0
1983	2	Winter	96	Sunfish family	90
1983	2	Winter	98	Red hake	90
1983	2	Winter	100	Central mudminnow	0
1983	2	Winter	101	Grubby	0
1983	2	Winter	102	Eastern mudminnow	0
1983	2	Winter	103	White bass	0
1983	2	Winter	104	Rough silverside	0
1983	2	Winter	105	Longear sunfish	0
1983	2	Winter	106	Summer flounder	0
1983	2	Winter	108	Creek chub	0
1983	2	Winter	109	Black bullhead	0
1983	2	Winter	110	Striped searobin	0
1983	2	Winter	111	Northern searobin	0
1983	2	Winter	113	Atlantic croaker	0
1983	2	Winter	114	Longhorn sculpin	0
1983	2	Winter	116	Hickory shad	0
1983	2	Winter	120	Conger eel	0
1983	2	Winter	122	Warmouth	0
1983	2	Winter	125	White mullet	0
1983	2	Winter	126	Yellow bullhead	0
1983	2	Winter	127	Channel catfish	0
1983	2	Winter	130	Naked goby	0
1983	2	Winter	132	Windowpane	0
1983	2	Winter	133	Spotted hake	0
1983	2	Winter	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	2	Winter	137	American sand lance	0
1983	2	Winter	139	Fourspot flounder	0
1983	2	Winter	140	Atlantic mackerel	0
1983	2	Winter	141	Black sea bass	0
1983	2	Winter	142	Smallmouth flounder	0
1983	2	Winter	143	Rock gunnel	0
1983	2	Winter	144	Inshore lizardfish	0
1983	2	Winter	146	Silver lamprey	0
1983	2	Winter	150	Goby family	0
1983	2	Winter	157	New World silverside family	0
1983	2	Winter	159	Sand flounder family	0
1983	2	Winter	161	Pipefish family	0
1983	2	Winter	162	Mackerel scad	0
1983	2	Winter	164	Cunner	0
1983	2	Winter	169	Gray snapper	0
1983	2	Winter	172	Bigeye scad	0
1983	2	Winter	173	Striped burrfish	0
1983	2	Winter	177	Spotfin butterflyfish	0
1983	2	Winter	179	Planehead filefish	0
1983	2	Winter	180	Atlantic cutlassfish	0
1983	2	Winter	181	Pigfish	0
1983	2	Winter	184	Freckled blenny	0
1983	2	Winter	187	Margined madtom	0
1983	2	Winter	205	Freshwater drum	0
1983	2	Winter	206	King mackerel	0
1983	2	Winter	209	Highfin goby	0
1983	2	Winter	213	Oyster toadfish	0
1983	2	Winter	754	Blue crab	0
1983	2	Winter	999	All fish taxa	169,128.00
1983	2	Spring	1	Alewife	204
1983	2	Spring	2	Bay anchovy	1,271
1983	2	Spring	3	American shad	24
1983	2	Spring	4	Bluefish	4,628
1983	2	Spring	5	Bluegill	26
1983	2	Spring	6	Brown bullhead	0
1983	2	Spring	7	Pumpkinseed	143
1983	2	Spring	8	Black crappie	0
1983	2	Spring	9	Common carp	23
1983	2	Spring	10	American eel	572
1983	2	Spring	11	Goldfish	0
1983	2	Spring	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	2	Spring	13	Hogchoker	16,932
1983	2	Spring	14	Tessellated darter	219
1983	2	Spring	15	Banded killifish	96
1983	2	Spring	16	Emerald shiner	0
1983	2	Spring	17	Largemouth bass	0
1983	2	Spring	18	Mummichog	0
1983	2	Spring	19	Atlantic menhaden	91
1983	2	Spring	21	Chain pickerel	0
1983	2	Spring	22	Blueback herring	719
1983	2	Spring	23	White sucker	0
1983	2	Spring	24	Atlantic silverside	0
1983	2	Spring	25	Rainbow smelt	1,209
1983	2	Spring	26	Smallmouth bass	0
1983	2	Spring	27	Shortnose sturgeon	0.00
1983	2	Spring	28	Spottail shiner	96
1983	2	Spring	29	Atlantic sturgeon	0.00
1983	2	Spring	30	Striped bass	100
1983	2	Spring	31	Fourspine stickleback	24
1983	2	Spring	32	Atlantic tomcod	48,945
1983	2	Spring	34	White catfish	274
1983	2	Spring	35	White perch	41,945
1983	2	Spring	36	Yellow perch	20
1983	2	Spring	37	Satinfin shiner	0
1983	2	Spring	38	Rock bass	0
1983	2	Spring	39	Northern pipefish	0
1983	2	Spring	40	Redbreast sunfish	0
1983	2	Spring	41	Atlantic needlefish	0
1983	2	Spring	42	Crevalle jack	0
1983	2	Spring	45	Weakfish	0
1983	2	Spring	47	Common shiner	0
1983	2	Spring	49	Lookdown	0
1983	2	Spring	50	Herring family	30
1983	2	Spring	54	Lined seahorse	0
1983	2	Spring	55	Logperch	0
1983	2	Spring	58	Fathead minnow	0
1983	2	Spring	59	Carp and minnow family	0
1983	2	Spring	60	Morone species	0
1983	2	Spring	62	Tautog	0
1983	2	Spring	63	Fourbeard rockling	0
1983	2	Spring	64	Striped cusk-eel	0
1983	2	Spring	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	2	Spring	68	Atlantic moonfish	0
1983	2	Spring	71	Scup	0
1983	2	Spring	72	Winter flounder	0
1983	2	Spring	73	Inland silverside	0
1983	2	Spring	74	Sea lamprey	0
1983	2	Spring	75	Gizzard shad	0
1983	2	Spring	76	Silver hake	0
1983	2	Spring	77	Striped mullet	0
1983	2	Spring	78	Threespine stickleback	0
1983	2	Spring	79	Brown trout	0
1983	2	Spring	80	Butterfish	0
1983	2	Spring	81	White crappie	0
1983	2	Spring	83	Northern pike	0
1983	2	Spring	84	Green sunfish	0
1983	2	Spring	85	Silver perch	0
1983	2	Spring	86	Northern puffer	0
1983	2	Spring	96	Sunfish family	46
1983	2	Spring	98	Red hake	0
1983	2	Spring	100	Central mudminnow	0
1983	2	Spring	101	Grubby	0
1983	2	Spring	102	Eastern mudminnow	0
1983	2	Spring	103	White bass	0
1983	2	Spring	104	Rough silverside	0
1983	2	Spring	105	Longear sunfish	0
1983	2	Spring	106	Summer flounder	0
1983	2	Spring	108	Creek chub	0
1983	2	Spring	109	Black bullhead	0
1983	2	Spring	110	Striped searobin	0
1983	2	Spring	111	Northern searobin	0
1983	2	Spring	113	Atlantic croaker	0
1983	2	Spring	114	Longhorn sculpin	0
1983	2	Spring	116	Hickory shad	0
1983	2	Spring	120	Conger eel	0
1983	2	Spring	122	Warmouth	0
1983	2	Spring	125	White mullet	0
1983	2	Spring	126	Yellow bullhead	0
1983	2	Spring	127	Channel catfish	0
1983	2	Spring	130	Naked goby	0
1983	2	Spring	132	Windowpane	0
1983	2	Spring	133	Spotted hake	0
1983	2	Spring	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	2	Spring	137	American sand lance	0
1983	2	Spring	139	Fourspot flounder	0
1983	2	Spring	140	Atlantic mackerel	0
1983	2	Spring	141	Black sea bass	0
1983	2	Spring	142	Smallmouth flounder	0
1983	2	Spring	143	Rock gunnel	0
1983	2	Spring	144	Inshore lizardfish	0
1983	2	Spring	146	Silver lamprey	0
1983	2	Spring	150	Goby family	0
1983	2	Spring	157	New World silverside family	0
1983	2	Spring	159	Sand flounder family	0
1983	2	Spring	161	Pipefish family	0
1983	2	Spring	162	Mackerel scad	0
1983	2	Spring	164	Cunner	0
1983	2	Spring	169	Gray snapper	0
1983	2	Spring	172	Bigeye scad	0
1983	2	Spring	173	Striped burrfish	0
1983	2	Spring	177	Spotfin butterflyfish	0
1983	2	Spring	179	Planehead filefish	0
1983	2	Spring	180	Atlantic cutlassfish	0
1983	2	Spring	181	Pigfish	0
1983	2	Spring	184	Freckled blenny	0
1983	2	Spring	187	Margined madtom	0
1983	2	Spring	205	Freshwater drum	0
1983	2	Spring	206	King mackerel	0
1983	2	Spring	209	Highfin goby	0
1983	2	Spring	213	Oyster toadfish	0
1983	2	Spring	754	Blue crab	41
1983	2	Spring	999	All fish taxa	117,638.00
1983	2	Summer	1	Alewife	4,229
1983	2	Summer	2	Bay anchovy	120,494
1983	2	Summer	3	American shad	8,292
1983	2	Summer	4	Bluefish	2,615
1983	2	Summer	5	Bluegill	29
1983	2	Summer	6	Brown bullhead	463
1983	2	Summer	7	Pumpkinseed	82
1983	2	Summer	8	Black crappie	0
1983	2	Summer	9	Common carp	0
1983	2	Summer	10	American eel	343
1983	2	Summer	11	Goldfish	0
1983	2	Summer	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	2	Summer	13	Hogchoker	2,932
1983	2	Summer	14	Tessellated darter	54
1983	2	Summer	15	Banded killifish	29
1983	2	Summer	16	Emerald shiner	0
1983	2	Summer	17	Largemouth bass	0
1983	2	Summer	18	Mummichog	25
1983	2	Summer	19	Atlantic menhaden	30
1983	2	Summer	21	Chain pickerel	0
1983	2	Summer	22	Blueback herring	36,286
1983	2	Summer	23	White sucker	0
1983	2	Summer	24	Atlantic silverside	0
1983	2	Summer	25	Rainbow smelt	217
1983	2	Summer	26	Smallmouth bass	0
1983	2	Summer	27	Shortnose sturgeon	0.00
1983	2	Summer	28	Spottail shiner	29
1983	2	Summer	29	Atlantic sturgeon	0.00
1983	2	Summer	30	Striped bass	4,669
1983	2	Summer	31	Fourspine stickleback	0
1983	2	Summer	32	Atlantic tomcod	64,218
1983	2	Summer	34	White catfish	200
1983	2	Summer	35	White perch	22,469
1983	2	Summer	36	Yellow perch	0
1983	2	Summer	37	Satinfin shiner	0
1983	2	Summer	38	Rock bass	0
1983	2	Summer	39	Northern pipefish	1,647
1983	2	Summer	40	Redbreast sunfish	29
1983	2	Summer	41	Atlantic needlefish	0
1983	2	Summer	42	Crevalle jack	0
1983	2	Summer	45	Weakfish	174,016
1983	2	Summer	47	Common shiner	0
1983	2	Summer	49	Lookdown	0
1983	2	Summer	50	Herring family	977
1983	2	Summer	54	Lined seahorse	0
1983	2	Summer	55	Logperch	0
1983	2	Summer	58	Fathead minnow	0
1983	2	Summer	59	Carp and minnow family	0
1983	2	Summer	60	Morone species	0
1983	2	Summer	62	Tautog	0
1983	2	Summer	63	Fourbeard rockling	0
1983	2	Summer	64	Striped cusk-eel	0
1983	2	Summer	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	2	Summer	68	Atlantic moonfish	0
1983	2	Summer	71	Scup	0
1983	2	Summer	72	Winter flounder	0
1983	2	Summer	73	Inland silverside	0
1983	2	Summer	74	Sea lamprey	0
1983	2	Summer	75	Gizzard shad	0
1983	2	Summer	76	Silver hake	0
1983	2	Summer	77	Striped mullet	0
1983	2	Summer	78	Threespine stickleback	0
1983	2	Summer	79	Brown trout	0
1983	2	Summer	80	Butterfish	1,638
1983	2	Summer	81	White crappie	0
1983	2	Summer	83	Northern pike	0
1983	2	Summer	84	Green sunfish	0
1983	2	Summer	85	Silver perch	0
1983	2	Summer	86	Northern puffer	0
1983	2	Summer	96	Sunfish family	0
1983	2	Summer	98	Red hake	0
1983	2	Summer	100	Central mudminnow	0
1983	2	Summer	101	Grubby	0
1983	2	Summer	102	Eastern mudminnow	0
1983	2	Summer	103	White bass	0
1983	2	Summer	104	Rough silverside	0
1983	2	Summer	105	Longear sunfish	0
1983	2	Summer	106	Summer flounder	0
1983	2	Summer	108	Creek chub	0
1983	2	Summer	109	Black bullhead	0
1983	2	Summer	110	Striped searobin	0
1983	2	Summer	111	Northern searobin	0
1983	2	Summer	113	Atlantic croaker	0
1983	2	Summer	114	Longhorn sculpin	0
1983	2	Summer	116	Hickory shad	0
1983	2	Summer	120	Conger eel	0
1983	2	Summer	122	Warmouth	0
1983	2	Summer	125	White mullet	0
1983	2	Summer	126	Yellow bullhead	0
1983	2	Summer	127	Channel catfish	0
1983	2	Summer	130	Naked goby	0
1983	2	Summer	132	Windowpane	0
1983	2	Summer	133	Spotted hake	0
1983	2	Summer	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	2	Summer	137	American sand lance	0
1983	2	Summer	139	Fourspot flounder	0
1983	2	Summer	140	Atlantic mackerel	0
1983	2	Summer	141	Black sea bass	0
1983	2	Summer	142	Smallmouth flounder	0
1983	2	Summer	143	Rock gunnel	0
1983	2	Summer	144	Inshore lizardfish	0
1983	2	Summer	146	Silver lamprey	0
1983	2	Summer	150	Goby family	0
1983	2	Summer	157	New World silverside family	0
1983	2	Summer	159	Sand flounder family	0
1983	2	Summer	161	Pipefish family	0
1983	2	Summer	162	Mackerel scad	0
1983	2	Summer	164	Cunner	0
1983	2	Summer	169	Gray snapper	0
1983	2	Summer	172	Bigeye scad	0
1983	2	Summer	173	Striped burrfish	0
1983	2	Summer	177	Spotfin butterflyfish	0
1983	2	Summer	179	Planehead filefish	0
1983	2	Summer	180	Atlantic cutlassfish	0
1983	2	Summer	181	Pigfish	0
1983	2	Summer	184	Freckled blenny	0
1983	2	Summer	187	Margined madtom	0
1983	2	Summer	205	Freshwater drum	0
1983	2	Summer	206	King mackerel	0
1983	2	Summer	209	Highfin goby	0
1983	2	Summer	213	Oyster toadfish	0
1983	2	Summer	754	Blue crab	708
1983	2	Summer	999	All fish taxa	446,012.00
1983	2	Fall	1	Alewife	116
1983	2	Fall	2	Bay anchovy	6,727
1983	2	Fall	3	American shad	188
1983	2	Fall	4	Bluefish	26
1983	2	Fall	5	Bluegill	189
1983	2	Fall	6	Brown bullhead	36
1983	2	Fall	7	Pumpkinseed	279
1983	2	Fall	8	Black crappie	10
1983	2	Fall	9	Common carp	2
1983	2	Fall	10	American eel	124
1983	2	Fall	11	Goldfish	3
1983	2	Fall	12	Golden shiner	17

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	2	Fall	13	Hogchoker	2,254
1983	2	Fall	14	Tessellated darter	32
1983	2	Fall	15	Banded killifish	88
1983	2	Fall	16	Emerald shiner	0
1983	2	Fall	17	Largemouth bass	34
1983	2	Fall	18	Mummichog	2
1983	2	Fall	19	Atlantic menhaden	15
1983	2	Fall	21	Chain pickerel	0
1983	2	Fall	22	Blueback herring	9,825
1983	2	Fall	23	White sucker	0
1983	2	Fall	24	Atlantic silverside	0
1983	2	Fall	25	Rainbow smelt	55
1983	2	Fall	26	Smallmouth bass	0
1983	2	Fall	27	Shortnose sturgeon	0.00
1983	2	Fall	28	Spottail shiner	722
1983	2	Fall	29	Atlantic sturgeon	6.11
1983	2	Fall	30	Striped bass	3,271
1983	2	Fall	31	Fourspine stickleback	12
1983	2	Fall	32	Atlantic tomcod	724
1983	2	Fall	34	White catfish	1,149
1983	2	Fall	35	White perch	58,116
1983	2	Fall	36	Yellow perch	61
1983	2	Fall	37	Satinfin shiner	0
1983	2	Fall	38	Rock bass	0
1983	2	Fall	39	Northern pipefish	1,165
1983	2	Fall	40	Redbreast sunfish	0
1983	2	Fall	41	Atlantic needlefish	0
1983	2	Fall	42	Crevalle jack	35
1983	2	Fall	45	Weakfish	975
1983	2	Fall	47	Common shiner	0
1983	2	Fall	49	Lookdown	0
1983	2	Fall	50	Herring family	0
1983	2	Fall	54	Lined seahorse	0
1983	2	Fall	55	Logperch	0
1983	2	Fall	58	Fathead minnow	0
1983	2	Fall	59	Carp and minnow family	0
1983	2	Fall	60	Morone species	0
1983	2	Fall	62	Tautog	0
1983	2	Fall	63	Fourbeard rockling	0
1983	2	Fall	64	Striped cusk-eel	0
1983	2	Fall	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	2	Fall	68	Atlantic moonfish	3
1983	2	Fall	71	Scup	0
1983	2	Fall	72	Winter flounder	6
1983	2	Fall	73	Inland silverside	85
1983	2	Fall	74	Sea lamprey	5
1983	2	Fall	75	Gizzard shad	1,292
1983	2	Fall	76	Silver hake	0
1983	2	Fall	77	Striped mullet	0
1983	2	Fall	78	Threespine stickleback	0
1983	2	Fall	79	Brown trout	0
1983	2	Fall	80	Butterfish	115
1983	2	Fall	81	White crappie	0
1983	2	Fall	83	Northern pike	0
1983	2	Fall	84	Green sunfish	0
1983	2	Fall	85	Silver perch	0
1983	2	Fall	86	Northern puffer	0
1983	2	Fall	96	Sunfish family	30
1983	2	Fall	98	Red hake	0
1983	2	Fall	100	Central mudminnow	0
1983	2	Fall	101	Grubby	0
1983	2	Fall	102	Eastern mudminnow	0
1983	2	Fall	103	White bass	0
1983	2	Fall	104	Rough silverside	0
1983	2	Fall	105	Longear sunfish	0
1983	2	Fall	106	Summer flounder	0
1983	2	Fall	108	Creek chub	0
1983	2	Fall	109	Black bullhead	0
1983	2	Fall	110	Striped searobin	15
1983	2	Fall	111	Northern searobin	0
1983	2	Fall	113	Atlantic croaker	13
1983	2	Fall	114	Longhorn sculpin	0
1983	2	Fall	116	Hickory shad	0
1983	2	Fall	120	Conger eel	0
1983	2	Fall	122	Warmouth	0
1983	2	Fall	125	White mullet	3
1983	2	Fall	126	Yellow bullhead	0
1983	2	Fall	127	Channel catfish	0
1983	2	Fall	130	Naked goby	0
1983	2	Fall	132	Windowpane	0
1983	2	Fall	133	Spotted hake	0
1983	2	Fall	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	2	Fall	137	American sand lance	0
1983	2	Fall	139	Fourspot flounder	0
1983	2	Fall	140	Atlantic mackerel	0
1983	2	Fall	141	Black sea bass	19
1983	2	Fall	142	Smallmouth flounder	0
1983	2	Fall	143	Rock gunnel	0
1983	2	Fall	144	Inshore lizardfish	0
1983	2	Fall	146	Silver lamprey	0
1983	2	Fall	150	Goby family	0
1983	2	Fall	157	New World silverside family	0
1983	2	Fall	159	Sand flounder family	0
1983	2	Fall	161	Pipefish family	0
1983	2	Fall	162	Mackerel scad	0
1983	2	Fall	164	Cunner	0
1983	2	Fall	169	Gray snapper	0
1983	2	Fall	172	Bigeye scad	0
1983	2	Fall	173	Striped burrfish	0
1983	2	Fall	177	Spotfin butterflyfish	0
1983	2	Fall	179	Planehead filefish	0
1983	2	Fall	180	Atlantic cutlassfish	0
1983	2	Fall	181	Pigfish	0
1983	2	Fall	184	Freckled blenny	0
1983	2	Fall	187	Margined madtom	0
1983	2	Fall	205	Freshwater drum	0
1983	2	Fall	206	King mackerel	0
1983	2	Fall	209	Highfin goby	0
1983	2	Fall	213	Oyster toadfish	0
1983	2	Fall	754	Blue crab	41
1983	2	Fall	999	All fish taxa	87,844.11
1983	3	Winter	1	Alewife	
1983	3	Winter	2	Bay anchovy	
1983	3	Winter	3	American shad	
1983	3	Winter	4	Bluefish	
1983	3	Winter	5	Bluegill	
1983	3	Winter	6	Brown bullhead	
1983	3	Winter	7	Pumpkinseed	
1983	3	Winter	8	Black crappie	
1983	3	Winter	9	Common carp	
1983	3	Winter	10	American eel	
1983	3	Winter	11	Goldfish	
1983	3	Winter	12	Golden shiner	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	3	Winter	13	Hogchoker	
1983	3	Winter	14	Tessellated darter	
1983	3	Winter	15	Banded killifish	
1983	3	Winter	16	Emerald shiner	
1983	3	Winter	17	Largemouth bass	
1983	3	Winter	18	Mummichog	
1983	3	Winter	19	Atlantic menhaden	
1983	3	Winter	21	Chain pickerel	
1983	3	Winter	22	Blueback herring	
1983	3	Winter	23	White sucker	
1983	3	Winter	24	Atlantic silverside	
1983	3	Winter	25	Rainbow smelt	
1983	3	Winter	26	Smallmouth bass	
1983	3	Winter	27	Shortnose sturgeon	
1983	3	Winter	28	Spottail shiner	
1983	3	Winter	29	Atlantic sturgeon	
1983	3	Winter	30	Striped bass	
1983	3	Winter	31	Fourspine stickleback	
1983	3	Winter	32	Atlantic tomcod	
1983	3	Winter	34	White catfish	
1983	3	Winter	35	White perch	
1983	3	Winter	36	Yellow perch	
1983	3	Winter	37	Satinfin shiner	
1983	3	Winter	38	Rock bass	
1983	3	Winter	39	Northern pipefish	
1983	3	Winter	40	Redbreast sunfish	
1983	3	Winter	41	Atlantic needlefish	
1983	3	Winter	42	Crevalle jack	
1983	3	Winter	45	Weakfish	
1983	3	Winter	47	Common shiner	
1983	3	Winter	49	Lookdown	
1983	3	Winter	50	Herring family	
1983	3	Winter	54	Lined seahorse	
1983	3	Winter	55	Logperch	
1983	3	Winter	58	Fathead minnow	
1983	3	Winter	59	Carp and minnow family	
1983	3	Winter	60	Morone species	
1983	3	Winter	62	Tautog	
1983	3	Winter	63	Fourbeard rockling	
1983	3	Winter	64	Striped cusk-eel	
1983	3	Winter	67	Spot	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	3	Winter	68	Atlantic moonfish	
1983	3	Winter	71	Scup	
1983	3	Winter	72	Winter flounder	
1983	3	Winter	73	Inland silverside	
1983	3	Winter	74	Sea lamprey	
1983	3	Winter	75	Gizzard shad	
1983	3	Winter	76	Silver hake	
1983	3	Winter	77	Striped mullet	
1983	3	Winter	78	Threespine stickleback	
1983	3	Winter	79	Brown trout	
1983	3	Winter	80	Butterfish	
1983	3	Winter	81	White crappie	
1983	3	Winter	83	Northern pike	
1983	3	Winter	84	Green sunfish	
1983	3	Winter	85	Silver perch	
1983	3	Winter	86	Northern puffer	
1983	3	Winter	96	Sunfish family	
1983	3	Winter	98	Red hake	
1983	3	Winter	100	Central mudminnow	
1983	3	Winter	101	Grubby	
1983	3	Winter	102	Eastern mudminnow	
1983	3	Winter	103	White bass	
1983	3	Winter	104	Rough silverside	
1983	3	Winter	105	Longear sunfish	
1983	3	Winter	106	Summer flounder	
1983	3	Winter	108	Creek chub	
1983	3	Winter	109	Black bullhead	
1983	3	Winter	110	Striped searobin	
1983	3	Winter	111	Northern searobin	
1983	3	Winter	113	Atlantic croaker	
1983	3	Winter	114	Longhorn sculpin	
1983	3	Winter	116	Hickory shad	
1983	3	Winter	120	Conger eel	
1983	3	Winter	122	Warmouth	
1983	3	Winter	125	White mullet	
1983	3	Winter	126	Yellow bullhead	
1983	3	Winter	127	Channel catfish	
1983	3	Winter	130	Naked goby	
1983	3	Winter	132	Windowpane	
1983	3	Winter	133	Spotted hake	
1983	3	Winter	136	Northern stargazer	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	3	Winter	137	American sand lance	
1983	3	Winter	139	Fourspot flounder	
1983	3	Winter	140	Atlantic mackerel	
1983	3	Winter	141	Black sea bass	
1983	3	Winter	142	Smallmouth flounder	
1983	3	Winter	143	Rock gunnel	
1983	3	Winter	144	Inshore lizardfish	
1983	3	Winter	146	Silver lamprey	
1983	3	Winter	150	Goby family	
1983	3	Winter	157	New World silverside family	
1983	3	Winter	159	Sand flounder family	
1983	3	Winter	161	Pipefish family	
1983	3	Winter	162	Mackerel scad	
1983	3	Winter	164	Cunner	
1983	3	Winter	169	Gray snapper	
1983	3	Winter	172	Bigeye scad	
1983	3	Winter	173	Striped burrfish	
1983	3	Winter	177	Spotfin butterflyfish	
1983	3	Winter	179	Planehead filefish	
1983	3	Winter	180	Atlantic cutlassfish	
1983	3	Winter	181	Pigfish	
1983	3	Winter	184	Freckled blenny	
1983	3	Winter	187	Margined madtom	
1983	3	Winter	205	Freshwater drum	
1983	3	Winter	206	King mackerel	
1983	3	Winter	209	Highfin goby	
1983	3	Winter	213	Oyster toadfish	
1983	3	Winter	754	Blue crab	
1983	3	Winter	999	All fish taxa	
1983	3	Spring	1	Alewife	204
1983	3	Spring	2	Bay anchovy	186
1983	3	Spring	3	American shad	10
1983	3	Spring	4	Bluefish	143
1983	3	Spring	5	Bluegill	3
1983	3	Spring	6	Brown bullhead	3
1983	3	Spring	7	Pumpkinseed	50
1983	3	Spring	8	Black crappie	0
1983	3	Spring	9	Common carp	0
1983	3	Spring	10	American eel	157
1983	3	Spring	11	Goldfish	0
1983	3	Spring	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	3	Spring	13	Hogchoker	795
1983	3	Spring	14	Tessellated darter	7
1983	3	Spring	15	Banded killifish	7
1983	3	Spring	16	Emerald shiner	0
1983	3	Spring	17	Largemouth bass	0
1983	3	Spring	18	Mummichog	0
1983	3	Spring	19	Atlantic menhaden	4
1983	3	Spring	21	Chain pickerel	0
1983	3	Spring	22	Blueback herring	2,878
1983	3	Spring	23	White sucker	0
1983	3	Spring	24	Atlantic silverside	0
1983	3	Spring	25	Rainbow smelt	125
1983	3	Spring	26	Smallmouth bass	0
1983	3	Spring	27	Shortnose sturgeon	0.00
1983	3	Spring	28	Spottail shiner	16
1983	3	Spring	29	Atlantic sturgeon	0.00
1983	3	Spring	30	Striped bass	60
1983	3	Spring	31	Fourspine stickleback	7
1983	3	Spring	32	Atlantic tomcod	11,688
1983	3	Spring	34	White catfish	40
1983	3	Spring	35	White perch	11,444
1983	3	Spring	36	Yellow perch	0
1983	3	Spring	37	Satinfin shiner	0
1983	3	Spring	38	Rock bass	0
1983	3	Spring	39	Northern pipefish	0
1983	3	Spring	40	Redbreast sunfish	0
1983	3	Spring	41	Atlantic needlefish	0
1983	3	Spring	42	Crevalle jack	0
1983	3	Spring	45	Weakfish	0
1983	3	Spring	47	Common shiner	0
1983	3	Spring	49	Lookdown	0
1983	3	Spring	50	Herring family	0
1983	3	Spring	54	Lined seahorse	0
1983	3	Spring	55	Logperch	0
1983	3	Spring	58	Fathead minnow	0
1983	3	Spring	59	Carp and minnow family	0
1983	3	Spring	60	Morone species	0
1983	3	Spring	62	Tautog	0
1983	3	Spring	63	Fourbeard rockling	0
1983	3	Spring	64	Striped cusk-eel	0
1983	3	Spring	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	3	Spring	68	Atlantic moonfish	0
1983	3	Spring	71	Scup	0
1983	3	Spring	72	Winter flounder	0
1983	3	Spring	73	Inland silverside	0
1983	3	Spring	74	Sea lamprey	0
1983	3	Spring	75	Gizzard shad	0
1983	3	Spring	76	Silver hake	0
1983	3	Spring	77	Striped mullet	0
1983	3	Spring	78	Threespine stickleback	0
1983	3	Spring	79	Brown trout	0
1983	3	Spring	80	Butterfish	0
1983	3	Spring	81	White crappie	0
1983	3	Spring	83	Northern pike	0
1983	3	Spring	84	Green sunfish	0
1983	3	Spring	85	Silver perch	0
1983	3	Spring	86	Northern puffer	0
1983	3	Spring	96	Sunfish family	10
1983	3	Spring	98	Red hake	0
1983	3	Spring	100	Central mudminnow	0
1983	3	Spring	101	Grubby	0
1983	3	Spring	102	Eastern mudminnow	0
1983	3	Spring	103	White bass	0
1983	3	Spring	104	Rough silverside	3
1983	3	Spring	105	Longear sunfish	0
1983	3	Spring	106	Summer flounder	0
1983	3	Spring	108	Creek chub	0
1983	3	Spring	109	Black bullhead	0
1983	3	Spring	110	Striped searobin	0
1983	3	Spring	111	Northern searobin	0
1983	3	Spring	113	Atlantic croaker	0
1983	3	Spring	114	Longhorn sculpin	0
1983	3	Spring	116	Hickory shad	0
1983	3	Spring	120	Conger eel	0
1983	3	Spring	122	Warmouth	3
1983	3	Spring	125	White mullet	0
1983	3	Spring	126	Yellow bullhead	0
1983	3	Spring	127	Channel catfish	0
1983	3	Spring	130	Naked goby	0
1983	3	Spring	132	Windowpane	0
1983	3	Spring	133	Spotted hake	0
1983	3	Spring	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	3	Spring	137	American sand lance	0
1983	3	Spring	139	Fourspot flounder	0
1983	3	Spring	140	Atlantic mackerel	0
1983	3	Spring	141	Black sea bass	0
1983	3	Spring	142	Smallmouth flounder	0
1983	3	Spring	143	Rock gunnel	0
1983	3	Spring	144	Inshore lizardfish	0
1983	3	Spring	146	Silver lamprey	0
1983	3	Spring	150	Goby family	0
1983	3	Spring	157	New World silverside family	0
1983	3	Spring	159	Sand flounder family	0
1983	3	Spring	161	Pipefish family	0
1983	3	Spring	162	Mackerel scad	0
1983	3	Spring	164	Cunner	0
1983	3	Spring	169	Gray snapper	0
1983	3	Spring	172	Bigeye scad	0
1983	3	Spring	173	Striped burrfish	0
1983	3	Spring	177	Spotfin butterflyfish	0
1983	3	Spring	179	Planehead filefish	0
1983	3	Spring	180	Atlantic cutlassfish	0
1983	3	Spring	181	Pigfish	0
1983	3	Spring	184	Freckled blenny	0
1983	3	Spring	187	Margined madtom	0
1983	3	Spring	205	Freshwater drum	0
1983	3	Spring	206	King mackerel	0
1983	3	Spring	209	Highfin goby	0
1983	3	Spring	213	Oyster toadfish	0
1983	3	Spring	754	Blue crab	27
1983	3	Spring	999	All fish taxa	27,844.00
1983	3	Summer	1	Alewife	7
1983	3	Summer	2	Bay anchovy	218
1983	3	Summer	3	American shad	0
1983	3	Summer	4	Bluefish	407
1983	3	Summer	5	Bluegill	0
1983	3	Summer	6	Brown bullhead	0
1983	3	Summer	7	Pumpkinseed	0
1983	3	Summer	8	Black crappie	0
1983	3	Summer	9	Common carp	0
1983	3	Summer	10	American eel	65
1983	3	Summer	11	Goldfish	0
1983	3	Summer	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	3	Summer	13	Hogchoker	22
1983	3	Summer	14	Tessellated darter	0
1983	3	Summer	15	Banded killifish	0
1983	3	Summer	16	Emerald shiner	0
1983	3	Summer	17	Largemouth bass	0
1983	3	Summer	18	Mummichog	0
1983	3	Summer	19	Atlantic menhaden	0
1983	3	Summer	21	Chain pickerel	0
1983	3	Summer	22	Blueback herring	0
1983	3	Summer	23	White sucker	0
1983	3	Summer	24	Atlantic silverside	0
1983	3	Summer	25	Rainbow smelt	7
1983	3	Summer	26	Smallmouth bass	0
1983	3	Summer	27	Shortnose sturgeon	0.00
1983	3	Summer	28	Spottail shiner	14
1983	3	Summer	29	Atlantic sturgeon	0.00
1983	3	Summer	30	Striped bass	7
1983	3	Summer	31	Fourspine stickleback	0
1983	3	Summer	32	Atlantic tomcod	673
1983	3	Summer	34	White catfish	0
1983	3	Summer	35	White perch	189
1983	3	Summer	36	Yellow perch	0
1983	3	Summer	37	Satinfin shiner	0
1983	3	Summer	38	Rock bass	0
1983	3	Summer	39	Northern pipefish	0
1983	3	Summer	40	Redbreast sunfish	0
1983	3	Summer	41	Atlantic needlefish	0
1983	3	Summer	42	Crevalle jack	0
1983	3	Summer	45	Weakfish	0
1983	3	Summer	47	Common shiner	0
1983	3	Summer	49	Lookdown	0
1983	3	Summer	50	Herring family	0
1983	3	Summer	54	Lined seahorse	0
1983	3	Summer	55	Logperch	0
1983	3	Summer	58	Fathead minnow	0
1983	3	Summer	59	Carp and minnow family	0
1983	3	Summer	60	Morone species	0
1983	3	Summer	62	Tautog	0
1983	3	Summer	63	Fourbeard rockling	0
1983	3	Summer	64	Striped cusk-eel	0
1983	3	Summer	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	3	Summer	68	Atlantic moonfish	0
1983	3	Summer	71	Scup	0
1983	3	Summer	72	Winter flounder	0
1983	3	Summer	73	Inland silverside	0
1983	3	Summer	74	Sea lamprey	0
1983	3	Summer	75	Gizzard shad	0
1983	3	Summer	76	Silver hake	0
1983	3	Summer	77	Striped mullet	0
1983	3	Summer	78	Threespine stickleback	0
1983	3	Summer	79	Brown trout	0
1983	3	Summer	80	Butterfish	0
1983	3	Summer	81	White crappie	0
1983	3	Summer	83	Northern pike	0
1983	3	Summer	84	Green sunfish	0
1983	3	Summer	85	Silver perch	0
1983	3	Summer	86	Northern puffer	0
1983	3	Summer	96	Sunfish family	0
1983	3	Summer	98	Red hake	0
1983	3	Summer	100	Central mudminnow	0
1983	3	Summer	101	Grubby	0
1983	3	Summer	102	Eastern mudminnow	0
1983	3	Summer	103	White bass	0
1983	3	Summer	104	Rough silverside	0
1983	3	Summer	105	Longear sunfish	0
1983	3	Summer	106	Summer flounder	0
1983	3	Summer	108	Creek chub	0
1983	3	Summer	109	Black bullhead	0
1983	3	Summer	110	Striped searobin	0
1983	3	Summer	111	Northern searobin	0
1983	3	Summer	113	Atlantic croaker	0
1983	3	Summer	114	Longhorn sculpin	0
1983	3	Summer	116	Hickory shad	0
1983	3	Summer	120	Conger eel	0
1983	3	Summer	122	Warmouth	0
1983	3	Summer	125	White mullet	0
1983	3	Summer	126	Yellow bullhead	0
1983	3	Summer	127	Channel catfish	0
1983	3	Summer	130	Naked goby	0
1983	3	Summer	132	Windowpane	0
1983	3	Summer	133	Spotted hake	0
1983	3	Summer	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	3	Summer	137	American sand lance	0
1983	3	Summer	139	Fourspot flounder	0
1983	3	Summer	140	Atlantic mackerel	0
1983	3	Summer	141	Black sea bass	0
1983	3	Summer	142	Smallmouth flounder	0
1983	3	Summer	143	Rock gunnel	0
1983	3	Summer	144	Inshore lizardfish	0
1983	3	Summer	146	Silver lamprey	0
1983	3	Summer	150	Goby family	0
1983	3	Summer	157	New World silverside family	0
1983	3	Summer	159	Sand flounder family	0
1983	3	Summer	161	Pipefish family	0
1983	3	Summer	162	Mackerel scad	0
1983	3	Summer	164	Cunner	0
1983	3	Summer	169	Gray snapper	0
1983	3	Summer	172	Bigeye scad	0
1983	3	Summer	173	Striped burrfish	0
1983	3	Summer	177	Spotfin butterflyfish	0
1983	3	Summer	179	Planehead filefish	0
1983	3	Summer	180	Atlantic cutlassfish	0
1983	3	Summer	181	Pigfish	0
1983	3	Summer	184	Freckled blenny	0
1983	3	Summer	187	Margined madtom	0
1983	3	Summer	205	Freshwater drum	0
1983	3	Summer	206	King mackerel	0
1983	3	Summer	209	Highfin goby	0
1983	3	Summer	213	Oyster toadfish	0
1983	3	Summer	754	Blue crab	4
1983	3	Summer	999	All fish taxa	1,609.00
1983	3	Fall	1	Alewife	
1983	3	Fall	2	Bay anchovy	
1983	3	Fall	3	American shad	
1983	3	Fall	4	Bluefish	
1983	3	Fall	5	Bluegill	
1983	3	Fall	6	Brown bullhead	
1983	3	Fall	7	Pumpkinseed	
1983	3	Fall	8	Black crappie	
1983	3	Fall	9	Common carp	
1983	3	Fall	10	American eel	
1983	3	Fall	11	Goldfish	
1983	3	Fall	12	Golden shiner	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	3	Fall	13	Hogchoker	
1983	3	Fall	14	Tessellated darter	
1983	3	Fall	15	Banded killifish	
1983	3	Fall	16	Emerald shiner	
1983	3	Fall	17	Largemouth bass	
1983	3	Fall	18	Mummichog	
1983	3	Fall	19	Atlantic menhaden	
1983	3	Fall	21	Chain pickerel	
1983	3	Fall	22	Blueback herring	
1983	3	Fall	23	White sucker	
1983	3	Fall	24	Atlantic silverside	
1983	3	Fall	25	Rainbow smelt	
1983	3	Fall	26	Smallmouth bass	
1983	3	Fall	27	Shortnose sturgeon	
1983	3	Fall	28	Spottail shiner	
1983	3	Fall	29	Atlantic sturgeon	
1983	3	Fall	30	Striped bass	
1983	3	Fall	31	Fourspine stickleback	
1983	3	Fall	32	Atlantic tomcod	
1983	3	Fall	34	White catfish	
1983	3	Fall	35	White perch	
1983	3	Fall	36	Yellow perch	
1983	3	Fall	37	Satinfin shiner	
1983	3	Fall	38	Rock bass	
1983	3	Fall	39	Northern pipefish	
1983	3	Fall	40	Redbreast sunfish	
1983	3	Fall	41	Atlantic needlefish	
1983	3	Fall	42	Crevalle jack	
1983	3	Fall	45	Weakfish	
1983	3	Fall	47	Common shiner	
1983	3	Fall	49	Lookdown	
1983	3	Fall	50	Herring family	
1983	3	Fall	54	Lined seahorse	
1983	3	Fall	55	Logperch	
1983	3	Fall	58	Fathead minnow	
1983	3	Fall	59	Carp and minnow family	
1983	3	Fall	60	Morone species	
1983	3	Fall	62	Tautog	
1983	3	Fall	63	Fourbeard rockling	
1983	3	Fall	64	Striped cusk-eel	
1983	3	Fall	67	Spot	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	3	Fall	68	Atlantic moonfish	
1983	3	Fall	71	Scup	
1983	3	Fall	72	Winter flounder	
1983	3	Fall	73	Inland silverside	
1983	3	Fall	74	Sea lamprey	
1983	3	Fall	75	Gizzard shad	
1983	3	Fall	76	Silver hake	
1983	3	Fall	77	Striped mullet	
1983	3	Fall	78	Threespine stickleback	
1983	3	Fall	79	Brown trout	
1983	3	Fall	80	Butterfish	
1983	3	Fall	81	White crappie	
1983	3	Fall	83	Northern pike	
1983	3	Fall	84	Green sunfish	
1983	3	Fall	85	Silver perch	
1983	3	Fall	86	Northern puffer	
1983	3	Fall	96	Sunfish family	
1983	3	Fall	98	Red hake	
1983	3	Fall	100	Central mudminnow	
1983	3	Fall	101	Grubby	
1983	3	Fall	102	Eastern mudminnow	
1983	3	Fall	103	White bass	
1983	3	Fall	104	Rough silverside	
1983	3	Fall	105	Longear sunfish	
1983	3	Fall	106	Summer flounder	
1983	3	Fall	108	Creek chub	
1983	3	Fall	109	Black bullhead	
1983	3	Fall	110	Striped searobin	
1983	3	Fall	111	Northern searobin	
1983	3	Fall	113	Atlantic croaker	
1983	3	Fall	114	Longhorn sculpin	
1983	3	Fall	116	Hickory shad	
1983	3	Fall	120	Conger eel	
1983	3	Fall	122	Warmouth	
1983	3	Fall	125	White mullet	
1983	3	Fall	126	Yellow bullhead	
1983	3	Fall	127	Channel catfish	
1983	3	Fall	130	Naked goby	
1983	3	Fall	132	Windowpane	
1983	3	Fall	133	Spotted hake	
1983	3	Fall	136	Northern stargazer	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1983	3	Fall	137	American sand lance	
1983	3	Fall	139	Fourspot flounder	
1983	3	Fall	140	Atlantic mackerel	
1983	3	Fall	141	Black sea bass	
1983	3	Fall	142	Smallmouth flounder	
1983	3	Fall	143	Rock gunnel	
1983	3	Fall	144	Inshore lizardfish	
1983	3	Fall	146	Silver lamprey	
1983	3	Fall	150	Goby family	
1983	3	Fall	157	New World silverside family	
1983	3	Fall	159	Sand flounder family	
1983	3	Fall	161	Pipefish family	
1983	3	Fall	162	Mackerel scad	
1983	3	Fall	164	Cunner	
1983	3	Fall	169	Gray snapper	
1983	3	Fall	172	Bigeye scad	
1983	3	Fall	173	Striped burrfish	
1983	3	Fall	177	Spotfin butterflyfish	
1983	3	Fall	179	Planehead filefish	
1983	3	Fall	180	Atlantic cutlassfish	
1983	3	Fall	181	Pigfish	
1983	3	Fall	184	Freckled blenny	
1983	3	Fall	187	Margined madtom	
1983	3	Fall	205	Freshwater drum	
1983	3	Fall	206	King mackerel	
1983	3	Fall	209	Highfin goby	
1983	3	Fall	213	Oyster toadfish	
1983	3	Fall	754	Blue crab	
1983	3	Fall	999	All fish taxa	
1984	2	Winter	1	Alewife	54
1984	2	Winter	2	Bay anchovy	16
1984	2	Winter	3	American shad	0
1984	2	Winter	4	Bluefish	0
1984	2	Winter	5	Bluegill	6
1984	2	Winter	6	Brown bullhead	6
1984	2	Winter	7	Pumpkinseed	687
1984	2	Winter	8	Black crappie	0
1984	2	Winter	9	Common carp	6
1984	2	Winter	10	American eel	22
1984	2	Winter	11	Goldfish	81
1984	2	Winter	12	Golden shiner	33

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	2	Winter	13	Hogchoker	34
1984	2	Winter	14	Tessellated darter	0
1984	2	Winter	15	Banded killifish	93
1984	2	Winter	16	Emerald shiner	0
1984	2	Winter	17	Largemouth bass	5
1984	2	Winter	18	Mummichog	0
1984	2	Winter	19	Atlantic menhaden	0
1984	2	Winter	21	Chain pickerel	0
1984	2	Winter	22	Blueback herring	87
1984	2	Winter	23	White sucker	0
1984	2	Winter	24	Atlantic silverside	0
1984	2	Winter	25	Rainbow smelt	139
1984	2	Winter	26	Smallmouth bass	6
1984	2	Winter	27	Shortnose sturgeon	0.00
1984	2	Winter	28	Spottail shiner	830
1984	2	Winter	29	Atlantic sturgeon	4.07
1984	2	Winter	30	Striped bass	2,885
1984	2	Winter	31	Fourspine stickleback	21
1984	2	Winter	32	Atlantic tomcod	307
1984	2	Winter	34	White catfish	1,143
1984	2	Winter	35	White perch	246,762
1984	2	Winter	36	Yellow perch	111
1984	2	Winter	37	Satinfin shiner	0
1984	2	Winter	38	Rock bass	6
1984	2	Winter	39	Northern pipefish	0
1984	2	Winter	40	Redbreast sunfish	0
1984	2	Winter	41	Atlantic needlefish	0
1984	2	Winter	42	Crevalle jack	0
1984	2	Winter	45	Weakfish	0
1984	2	Winter	47	Common shiner	0
1984	2	Winter	49	Lookdown	0
1984	2	Winter	50	Herring family	0
1984	2	Winter	54	Lined seahorse	0
1984	2	Winter	55	Logperch	0
1984	2	Winter	58	Fathead minnow	0
1984	2	Winter	59	Carp and minnow family	0
1984	2	Winter	60	Morone species	0
1984	2	Winter	62	Tautog	0
1984	2	Winter	63	Fourbeard rockling	0
1984	2	Winter	64	Striped cusk-eel	0
1984	2	Winter	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	2	Winter	68	Atlantic moonfish	0
1984	2	Winter	71	Scup	0
1984	2	Winter	72	Winter flounder	6
1984	2	Winter	73	Inland silverside	0
1984	2	Winter	74	Sea lamprey	0
1984	2	Winter	75	Gizzard shad	1,467
1984	2	Winter	76	Silver hake	54
1984	2	Winter	77	Striped mullet	0
1984	2	Winter	78	Threespine stickleback	72
1984	2	Winter	79	Brown trout	0
1984	2	Winter	80	Butterfish	0
1984	2	Winter	81	White crappie	0
1984	2	Winter	83	Northern pike	0
1984	2	Winter	84	Green sunfish	0
1984	2	Winter	85	Silver perch	0
1984	2	Winter	86	Northern puffer	0
1984	2	Winter	96	Sunfish family	0
1984	2	Winter	98	Red hake	253
1984	2	Winter	100	Central mudminnow	0
1984	2	Winter	101	Grubby	0
1984	2	Winter	102	Eastern mudminnow	0
1984	2	Winter	103	White bass	0
1984	2	Winter	104	Rough silverside	0
1984	2	Winter	105	Longear sunfish	0
1984	2	Winter	106	Summer flounder	6
1984	2	Winter	108	Creek chub	0
1984	2	Winter	109	Black bullhead	0
1984	2	Winter	110	Striped searobin	0
1984	2	Winter	111	Northern searobin	0
1984	2	Winter	113	Atlantic croaker	0
1984	2	Winter	114	Longhorn sculpin	0
1984	2	Winter	116	Hickory shad	0
1984	2	Winter	120	Conger eel	0
1984	2	Winter	122	Warmouth	0
1984	2	Winter	125	White mullet	0
1984	2	Winter	126	Yellow bullhead	0
1984	2	Winter	127	Channel catfish	0
1984	2	Winter	130	Naked goby	0
1984	2	Winter	132	Windowpane	0
1984	2	Winter	133	Spotted hake	0
1984	2	Winter	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	2	Winter	137	American sand lance	0
1984	2	Winter	139	Fourspot flounder	0
1984	2	Winter	140	Atlantic mackerel	0
1984	2	Winter	141	Black sea bass	0
1984	2	Winter	142	Smallmouth flounder	0
1984	2	Winter	143	Rock gunnel	0
1984	2	Winter	144	Inshore lizardfish	0
1984	2	Winter	146	Silver lamprey	0
1984	2	Winter	150	Goby family	0
1984	2	Winter	157	New World silverside family	0
1984	2	Winter	159	Sand flounder family	0
1984	2	Winter	161	Pipefish family	0
1984	2	Winter	162	Mackerel scad	0
1984	2	Winter	164	Cunner	0
1984	2	Winter	169	Gray snapper	0
1984	2	Winter	172	Bigeye scad	0
1984	2	Winter	173	Striped burrfish	0
1984	2	Winter	177	Spotfin butterflyfish	0
1984	2	Winter	179	Planehead filefish	0
1984	2	Winter	180	Atlantic cutlassfish	0
1984	2	Winter	181	Pigfish	0
1984	2	Winter	184	Freckled blenny	0
1984	2	Winter	187	Margined madtom	0
1984	2	Winter	205	Freshwater drum	0
1984	2	Winter	206	King mackerel	0
1984	2	Winter	209	Highfin goby	0
1984	2	Winter	213	Oyster toadfish	0
1984	2	Winter	754	Blue crab	0
1984	2	Winter	999	All fish taxa	255,200.07
1984	2	Spring	1	Alewife	379
1984	2	Spring	2	Bay anchovy	640
1984	2	Spring	3	American shad	0
1984	2	Spring	4	Bluefish	0
1984	2	Spring	5	Bluegill	14
1984	2	Spring	6	Brown bullhead	18
1984	2	Spring	7	Pumpkinseed	185
1984	2	Spring	8	Black crappie	0
1984	2	Spring	9	Common carp	0
1984	2	Spring	10	American eel	135
1984	2	Spring	11	Goldfish	0
1984	2	Spring	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	2	Spring	13	Hogchoker	1,607
1984	2	Spring	14	Tessellated darter	31
1984	2	Spring	15	Banded killifish	0
1984	2	Spring	16	Emerald shiner	0
1984	2	Spring	17	Largemouth bass	0
1984	2	Spring	18	Mummichog	17
1984	2	Spring	19	Atlantic menhaden	0
1984	2	Spring	21	Chain pickerel	0
1984	2	Spring	22	Blueback herring	150
1984	2	Spring	23	White sucker	17
1984	2	Spring	24	Atlantic silverside	0
1984	2	Spring	25	Rainbow smelt	0
1984	2	Spring	26	Smallmouth bass	0
1984	2	Spring	27	Shortnose sturgeon	2.75
1984	2	Spring	28	Spottail shiner	170
1984	2	Spring	29	Atlantic sturgeon	0.00
1984	2	Spring	30	Striped bass	521
1984	2	Spring	31	Fourspine stickleback	0
1984	2	Spring	32	Atlantic tomcod	2,079
1984	2	Spring	34	White catfish	562
1984	2	Spring	35	White perch	52,015
1984	2	Spring	36	Yellow perch	71
1984	2	Spring	37	Satinfin shiner	0
1984	2	Spring	38	Rock bass	0
1984	2	Spring	39	Northern pipefish	0
1984	2	Spring	40	Redbreast sunfish	0
1984	2	Spring	41	Atlantic needlefish	0
1984	2	Spring	42	Crevalle jack	0
1984	2	Spring	45	Weakfish	0
1984	2	Spring	47	Common shiner	0
1984	2	Spring	49	Lookdown	0
1984	2	Spring	50	Herring family	0
1984	2	Spring	54	Lined seahorse	0
1984	2	Spring	55	Logperch	0
1984	2	Spring	58	Fathead minnow	0
1984	2	Spring	59	Carp and minnow family	0
1984	2	Spring	60	Morone species	0
1984	2	Spring	62	Tautog	0
1984	2	Spring	63	Fourbeard rockling	0
1984	2	Spring	64	Striped cusk-eel	0
1984	2	Spring	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	2	Spring	68	Atlantic moonfish	0
1984	2	Spring	71	Scup	0
1984	2	Spring	72	Winter flounder	0
1984	2	Spring	73	Inland silverside	0
1984	2	Spring	74	Sea lamprey	0
1984	2	Spring	75	Gizzard shad	0
1984	2	Spring	76	Silver hake	0
1984	2	Spring	77	Striped mullet	0
1984	2	Spring	78	Threespine stickleback	0
1984	2	Spring	79	Brown trout	0
1984	2	Spring	80	Butterfish	0
1984	2	Spring	81	White crappie	0
1984	2	Spring	83	Northern pike	0
1984	2	Spring	84	Green sunfish	0
1984	2	Spring	85	Silver perch	0
1984	2	Spring	86	Northern puffer	0
1984	2	Spring	96	Sunfish family	50
1984	2	Spring	98	Red hake	0
1984	2	Spring	100	Central mudminnow	0
1984	2	Spring	101	Grubby	0
1984	2	Spring	102	Eastern mudminnow	0
1984	2	Spring	103	White bass	0
1984	2	Spring	104	Rough silverside	0
1984	2	Spring	105	Longear sunfish	0
1984	2	Spring	106	Summer flounder	0
1984	2	Spring	108	Creek chub	0
1984	2	Spring	109	Black bullhead	0
1984	2	Spring	110	Striped searobin	0
1984	2	Spring	111	Northern searobin	0
1984	2	Spring	113	Atlantic croaker	0
1984	2	Spring	114	Longhorn sculpin	0
1984	2	Spring	116	Hickory shad	0
1984	2	Spring	120	Conger eel	0
1984	2	Spring	122	Warmouth	0
1984	2	Spring	125	White mullet	0
1984	2	Spring	126	Yellow bullhead	0
1984	2	Spring	127	Channel catfish	18
1984	2	Spring	130	Naked goby	0
1984	2	Spring	132	Windowpane	0
1984	2	Spring	133	Spotted hake	0
1984	2	Spring	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	2	Spring	137	American sand lance	0
1984	2	Spring	139	Fourspot flounder	0
1984	2	Spring	140	Atlantic mackerel	0
1984	2	Spring	141	Black sea bass	0
1984	2	Spring	142	Smallmouth flounder	0
1984	2	Spring	143	Rock gunnel	0
1984	2	Spring	144	Inshore lizardfish	0
1984	2	Spring	146	Silver lamprey	0
1984	2	Spring	150	Goby family	0
1984	2	Spring	157	New World silverside family	0
1984	2	Spring	159	Sand flounder family	0
1984	2	Spring	161	Pipefish family	0
1984	2	Spring	162	Mackerel scad	0
1984	2	Spring	164	Cunner	0
1984	2	Spring	169	Gray snapper	0
1984	2	Spring	172	Bigeye scad	0
1984	2	Spring	173	Striped burrfish	0
1984	2	Spring	177	Spotfin butterflyfish	0
1984	2	Spring	179	Planehead filefish	0
1984	2	Spring	180	Atlantic cutlassfish	0
1984	2	Spring	181	Pigfish	0
1984	2	Spring	184	Freckled blenny	0
1984	2	Spring	187	Margined madtom	0
1984	2	Spring	205	Freshwater drum	0
1984	2	Spring	206	King mackerel	0
1984	2	Spring	209	Highfin goby	0
1984	2	Spring	213	Oyster toadfish	0
1984	2	Spring	754	Blue crab	0
1984	2	Spring	999	All fish taxa	58,679.75
1984	2	Summer	1	Alewife	
1984	2	Summer	2	Bay anchovy	
1984	2	Summer	3	American shad	
1984	2	Summer	4	Bluefish	
1984	2	Summer	5	Bluegill	
1984	2	Summer	6	Brown bullhead	
1984	2	Summer	7	Pumpkinseed	
1984	2	Summer	8	Black crappie	
1984	2	Summer	9	Common carp	
1984	2	Summer	10	American eel	
1984	2	Summer	11	Goldfish	
1984	2	Summer	12	Golden shiner	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	2	Summer	13	Hogchoker	
1984	2	Summer	14	Tessellated darter	
1984	2	Summer	15	Banded killifish	
1984	2	Summer	16	Emerald shiner	
1984	2	Summer	17	Largemouth bass	
1984	2	Summer	18	Mummichog	
1984	2	Summer	19	Atlantic menhaden	
1984	2	Summer	21	Chain pickerel	
1984	2	Summer	22	Blueback herring	
1984	2	Summer	23	White sucker	
1984	2	Summer	24	Atlantic silverside	
1984	2	Summer	25	Rainbow smelt	
1984	2	Summer	26	Smallmouth bass	
1984	2	Summer	27	Shortnose sturgeon	
1984	2	Summer	28	Spottail shiner	
1984	2	Summer	29	Atlantic sturgeon	
1984	2	Summer	30	Striped bass	
1984	2	Summer	31	Fourspine stickleback	
1984	2	Summer	32	Atlantic tomcod	
1984	2	Summer	34	White catfish	
1984	2	Summer	35	White perch	
1984	2	Summer	36	Yellow perch	
1984	2	Summer	37	Satinfin shiner	
1984	2	Summer	38	Rock bass	
1984	2	Summer	39	Northern pipefish	
1984	2	Summer	40	Redbreast sunfish	
1984	2	Summer	41	Atlantic needlefish	
1984	2	Summer	42	Crevalle jack	
1984	2	Summer	45	Weakfish	
1984	2	Summer	47	Common shiner	
1984	2	Summer	49	Lookdown	
1984	2	Summer	50	Herring family	
1984	2	Summer	54	Lined seahorse	
1984	2	Summer	55	Logperch	
1984	2	Summer	58	Fathead minnow	
1984	2	Summer	59	Carp and minnow family	
1984	2	Summer	60	Morone species	
1984	2	Summer	62	Tautog	
1984	2	Summer	63	Fourbeard rockling	
1984	2	Summer	64	Striped cusk-eel	
1984	2	Summer	67	Spot	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	2	Summer	68	Atlantic moonfish	
1984	2	Summer	71	Scup	
1984	2	Summer	72	Winter flounder	
1984	2	Summer	73	Inland silverside	
1984	2	Summer	74	Sea lamprey	
1984	2	Summer	75	Gizzard shad	
1984	2	Summer	76	Silver hake	
1984	2	Summer	77	Striped mullet	
1984	2	Summer	78	Threespine stickleback	
1984	2	Summer	79	Brown trout	
1984	2	Summer	80	Butterfish	
1984	2	Summer	81	White crappie	
1984	2	Summer	83	Northern pike	
1984	2	Summer	84	Green sunfish	
1984	2	Summer	85	Silver perch	
1984	2	Summer	86	Northern puffer	
1984	2	Summer	96	Sunfish family	
1984	2	Summer	98	Red hake	
1984	2	Summer	100	Central mudminnow	
1984	2	Summer	101	Grubby	
1984	2	Summer	102	Eastern mudminnow	
1984	2	Summer	103	White bass	
1984	2	Summer	104	Rough silverside	
1984	2	Summer	105	Longear sunfish	
1984	2	Summer	106	Summer flounder	
1984	2	Summer	108	Creek chub	
1984	2	Summer	109	Black bullhead	
1984	2	Summer	110	Striped searobin	
1984	2	Summer	111	Northern searobin	
1984	2	Summer	113	Atlantic croaker	
1984	2	Summer	114	Longhorn sculpin	
1984	2	Summer	116	Hickory shad	
1984	2	Summer	120	Conger eel	
1984	2	Summer	122	Warmouth	
1984	2	Summer	125	White mullet	
1984	2	Summer	126	Yellow bullhead	
1984	2	Summer	127	Channel catfish	
1984	2	Summer	130	Naked goby	
1984	2	Summer	132	Windowpane	
1984	2	Summer	133	Spotted hake	
1984	2	Summer	136	Northern stargazer	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	2	Summer	137	American sand lance	
1984	2	Summer	139	Fourspot flounder	
1984	2	Summer	140	Atlantic mackerel	
1984	2	Summer	141	Black sea bass	
1984	2	Summer	142	Smallmouth flounder	
1984	2	Summer	143	Rock gunnel	
1984	2	Summer	144	Inshore lizardfish	
1984	2	Summer	146	Silver lamprey	
1984	2	Summer	150	Goby family	
1984	2	Summer	157	New World silverside family	
1984	2	Summer	159	Sand flounder family	
1984	2	Summer	161	Pipefish family	
1984	2	Summer	162	Mackerel scad	
1984	2	Summer	164	Cunner	
1984	2	Summer	169	Gray snapper	
1984	2	Summer	172	Bigeye scad	
1984	2	Summer	173	Striped burrfish	
1984	2	Summer	177	Spotfin butterflyfish	
1984	2	Summer	179	Planehead filefish	
1984	2	Summer	180	Atlantic cutlassfish	
1984	2	Summer	181	Pigfish	
1984	2	Summer	184	Freckled blenny	
1984	2	Summer	187	Margined madtom	
1984	2	Summer	205	Freshwater drum	
1984	2	Summer	206	King mackerel	
1984	2	Summer	209	Highfin goby	
1984	2	Summer	213	Oyster toadfish	
1984	2	Summer	754	Blue crab	
1984	2	Summer	999	All fish taxa	
1984	2	Fall	1	Alewife	2,877
1984	2	Fall	2	Bay anchovy	3,028
1984	2	Fall	3	American shad	242
1984	2	Fall	4	Bluefish	30
1984	2	Fall	5	Bluegill	202
1984	2	Fall	6	Brown bullhead	0
1984	2	Fall	7	Pumpkinseed	27
1984	2	Fall	8	Black crappie	4
1984	2	Fall	9	Common carp	0
1984	2	Fall	10	American eel	233
1984	2	Fall	11	Goldfish	4
1984	2	Fall	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	2	Fall	13	Hogchoker	344
1984	2	Fall	14	Tessellated darter	4
1984	2	Fall	15	Banded killifish	8
1984	2	Fall	16	Emerald shiner	0
1984	2	Fall	17	Largemouth bass	0
1984	2	Fall	18	Mummichog	0
1984	2	Fall	19	Atlantic menhaden	8
1984	2	Fall	21	Chain pickerel	0
1984	2	Fall	22	Blueback herring	3,014
1984	2	Fall	23	White sucker	0
1984	2	Fall	24	Atlantic silverside	4
1984	2	Fall	25	Rainbow smelt	704
1984	2	Fall	26	Smallmouth bass	0
1984	2	Fall	27	Shortnose sturgeon	0.00
1984	2	Fall	28	Spottail shiner	15
1984	2	Fall	29	Atlantic sturgeon	2.37
1984	2	Fall	30	Striped bass	1,144
1984	2	Fall	31	Fourspine stickleback	0
1984	2	Fall	32	Atlantic tomcod	323
1984	2	Fall	34	White catfish	512
1984	2	Fall	35	White perch	11,558
1984	2	Fall	36	Yellow perch	0
1984	2	Fall	37	Satinfin shiner	0
1984	2	Fall	38	Rock bass	0
1984	2	Fall	39	Northern pipefish	112
1984	2	Fall	40	Redbreast sunfish	3
1984	2	Fall	41	Atlantic needlefish	0
1984	2	Fall	42	Crevalle jack	36
1984	2	Fall	45	Weakfish	1,358
1984	2	Fall	47	Common shiner	0
1984	2	Fall	49	Lookdown	21
1984	2	Fall	50	Herring family	0
1984	2	Fall	54	Lined seahorse	0
1984	2	Fall	55	Logperch	0
1984	2	Fall	58	Fathead minnow	0
1984	2	Fall	59	Carp and minnow family	0
1984	2	Fall	60	Morone species	0
1984	2	Fall	62	Tautog	0
1984	2	Fall	63	Fourbeard rockling	0
1984	2	Fall	64	Striped cusk-eel	0
1984	2	Fall	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	2	Fall	68	Atlantic moonfish	0
1984	2	Fall	71	Scup	0
1984	2	Fall	72	Winter flounder	0
1984	2	Fall	73	Inland silverside	0
1984	2	Fall	74	Sea lamprey	0
1984	2	Fall	75	Gizzard shad	7
1984	2	Fall	76	Silver hake	0
1984	2	Fall	77	Striped mullet	0
1984	2	Fall	78	Threespine stickleback	0
1984	2	Fall	79	Brown trout	0
1984	2	Fall	80	Butterfish	127
1984	2	Fall	81	White crappie	0
1984	2	Fall	83	Northern pike	0
1984	2	Fall	84	Green sunfish	0
1984	2	Fall	85	Silver perch	0
1984	2	Fall	86	Northern puffer	0
1984	2	Fall	96	Sunfish family	0
1984	2	Fall	98	Red hake	0
1984	2	Fall	100	Central mudminnow	0
1984	2	Fall	101	Grubby	0
1984	2	Fall	102	Eastern mudminnow	0
1984	2	Fall	103	White bass	0
1984	2	Fall	104	Rough silverside	0
1984	2	Fall	105	Longear sunfish	0
1984	2	Fall	106	Summer flounder	0
1984	2	Fall	108	Creek chub	0
1984	2	Fall	109	Black bullhead	0
1984	2	Fall	110	Striped searobin	4
1984	2	Fall	111	Northern searobin	0
1984	2	Fall	113	Atlantic croaker	0
1984	2	Fall	114	Longhorn sculpin	0
1984	2	Fall	116	Hickory shad	0
1984	2	Fall	120	Conger eel	0
1984	2	Fall	122	Warmouth	0
1984	2	Fall	125	White mullet	0
1984	2	Fall	126	Yellow bullhead	0
1984	2	Fall	127	Channel catfish	0
1984	2	Fall	130	Naked goby	0
1984	2	Fall	132	Windowpane	0
1984	2	Fall	133	Spotted hake	0
1984	2	Fall	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	2	Fall	137	American sand lance	0
1984	2	Fall	139	Fourspot flounder	0
1984	2	Fall	140	Atlantic mackerel	0
1984	2	Fall	141	Black sea bass	0
1984	2	Fall	142	Smallmouth flounder	0
1984	2	Fall	143	Rock gunnel	0
1984	2	Fall	144	Inshore lizardfish	0
1984	2	Fall	146	Silver lamprey	0
1984	2	Fall	150	Goby family	0
1984	2	Fall	157	New World silverside family	0
1984	2	Fall	159	Sand flounder family	0
1984	2	Fall	161	Pipefish family	0
1984	2	Fall	162	Mackerel scad	0
1984	2	Fall	164	Cunner	0
1984	2	Fall	169	Gray snapper	0
1984	2	Fall	172	Bigeye scad	0
1984	2	Fall	173	Striped burrfish	0
1984	2	Fall	177	Spotfin butterflyfish	0
1984	2	Fall	179	Planehead filefish	0
1984	2	Fall	180	Atlantic cutlassfish	0
1984	2	Fall	181	Pigfish	0
1984	2	Fall	184	Freckled blenny	0
1984	2	Fall	187	Margined madtom	0
1984	2	Fall	205	Freshwater drum	0
1984	2	Fall	206	King mackerel	0
1984	2	Fall	209	Highfin goby	0
1984	2	Fall	213	Oyster toadfish	0
1984	2	Fall	754	Blue crab	20
1984	2	Fall	999	All fish taxa	25,955.37
1984	3	Winter	1	Alewife	21
1984	3	Winter	2	Bay anchovy	0
1984	3	Winter	3	American shad	0
1984	3	Winter	4	Bluefish	0
1984	3	Winter	5	Bluegill	50
1984	3	Winter	6	Brown bullhead	78
1984	3	Winter	7	Pumpkinseed	1,531
1984	3	Winter	8	Black crappie	3
1984	3	Winter	9	Common carp	3
1984	3	Winter	10	American eel	64
1984	3	Winter	11	Goldfish	138
1984	3	Winter	12	Golden shiner	106

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	3	Winter	13	Hogchoker	11
1984	3	Winter	14	Tessellated darter	4
1984	3	Winter	15	Banded killifish	74
1984	3	Winter	16	Emerald shiner	0
1984	3	Winter	17	Largemouth bass	3
1984	3	Winter	18	Mummichog	0
1984	3	Winter	19	Atlantic menhaden	0
1984	3	Winter	21	Chain pickerel	4
1984	3	Winter	22	Blueback herring	14
1984	3	Winter	23	White sucker	0
1984	3	Winter	24	Atlantic silverside	0
1984	3	Winter	25	Rainbow smelt	158
1984	3	Winter	26	Smallmouth bass	4
1984	3	Winter	27	Shortnose sturgeon	0.00
1984	3	Winter	28	Spottail shiner	973
1984	3	Winter	29	Atlantic sturgeon	0.00
1984	3	Winter	30	Striped bass	1,300
1984	3	Winter	31	Fourspine stickleback	0
1984	3	Winter	32	Atlantic tomcod	57
1984	3	Winter	34	White catfish	1,208
1984	3	Winter	35	White perch	84,211
1984	3	Winter	36	Yellow perch	152
1984	3	Winter	37	Satinfin shiner	0
1984	3	Winter	38	Rock bass	0
1984	3	Winter	39	Northern pipefish	0
1984	3	Winter	40	Redbreast sunfish	4
1984	3	Winter	41	Atlantic needlefish	0
1984	3	Winter	42	Crevalle jack	0
1984	3	Winter	45	Weakfish	0
1984	3	Winter	47	Common shiner	0
1984	3	Winter	49	Lookdown	0
1984	3	Winter	50	Herring family	0
1984	3	Winter	54	Lined seahorse	0
1984	3	Winter	55	Logperch	0
1984	3	Winter	58	Fathead minnow	0
1984	3	Winter	59	Carp and minnow family	0
1984	3	Winter	60	Morone species	0
1984	3	Winter	62	Tautog	0
1984	3	Winter	63	Fourbeard rockling	0
1984	3	Winter	64	Striped cusk-eel	0
1984	3	Winter	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	3	Winter	68	Atlantic moonfish	0
1984	3	Winter	71	Scup	0
1984	3	Winter	72	Winter flounder	0
1984	3	Winter	73	Inland silverside	0
1984	3	Winter	74	Sea lamprey	0
1984	3	Winter	75	Gizzard shad	43
1984	3	Winter	76	Silver hake	0
1984	3	Winter	77	Striped mullet	0
1984	3	Winter	78	Threespine stickleback	135
1984	3	Winter	79	Brown trout	0
1984	3	Winter	80	Butterfish	0
1984	3	Winter	81	White crappie	0
1984	3	Winter	83	Northern pike	0
1984	3	Winter	84	Green sunfish	0
1984	3	Winter	85	Silver perch	0
1984	3	Winter	86	Northern puffer	0
1984	3	Winter	96	Sunfish family	0
1984	3	Winter	98	Red hake	0
1984	3	Winter	100	Central mudminnow	0
1984	3	Winter	101	Grubby	0
1984	3	Winter	102	Eastern mudminnow	0
1984	3	Winter	103	White bass	4
1984	3	Winter	104	Rough silverside	0
1984	3	Winter	105	Longear sunfish	0
1984	3	Winter	106	Summer flounder	0
1984	3	Winter	108	Creek chub	0
1984	3	Winter	109	Black bullhead	0
1984	3	Winter	110	Striped searobin	0
1984	3	Winter	111	Northern searobin	0
1984	3	Winter	113	Atlantic croaker	0
1984	3	Winter	114	Longhorn sculpin	0
1984	3	Winter	116	Hickory shad	0
1984	3	Winter	120	Conger eel	0
1984	3	Winter	122	Warmouth	0
1984	3	Winter	125	White mullet	0
1984	3	Winter	126	Yellow bullhead	0
1984	3	Winter	127	Channel catfish	0
1984	3	Winter	130	Naked goby	0
1984	3	Winter	132	Windowpane	0
1984	3	Winter	133	Spotted hake	0
1984	3	Winter	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	3	Winter	137	American sand lance	0
1984	3	Winter	139	Fourspot flounder	0
1984	3	Winter	140	Atlantic mackerel	0
1984	3	Winter	141	Black sea bass	0
1984	3	Winter	142	Smallmouth flounder	0
1984	3	Winter	143	Rock gunnel	0
1984	3	Winter	144	Inshore lizardfish	0
1984	3	Winter	146	Silver lamprey	0
1984	3	Winter	150	Goby family	0
1984	3	Winter	157	New World silverside family	0
1984	3	Winter	159	Sand flounder family	0
1984	3	Winter	161	Pipefish family	0
1984	3	Winter	162	Mackerel scad	0
1984	3	Winter	164	Cunner	0
1984	3	Winter	169	Gray snapper	0
1984	3	Winter	172	Bigeye scad	0
1984	3	Winter	173	Striped burrfish	0
1984	3	Winter	177	Spotfin butterflyfish	0
1984	3	Winter	179	Planehead filefish	0
1984	3	Winter	180	Atlantic cutlassfish	0
1984	3	Winter	181	Pigfish	0
1984	3	Winter	184	Freckled blenny	0
1984	3	Winter	187	Margined madtom	0
1984	3	Winter	205	Freshwater drum	0
1984	3	Winter	206	King mackerel	0
1984	3	Winter	209	Highfin goby	0
1984	3	Winter	213	Oyster toadfish	0
1984	3	Winter	754	Blue crab	0
1984	3	Winter	999	All fish taxa	90,354.00
1984	3	Spring	1	Alewife	1,425
1984	3	Spring	2	Bay anchovy	8,878
1984	3	Spring	3	American shad	98
1984	3	Spring	4	Bluefish	0
1984	3	Spring	5	Bluegill	103
1984	3	Spring	6	Brown bullhead	78
1984	3	Spring	7	Pumpkinseed	448
1984	3	Spring	8	Black crappie	0
1984	3	Spring	9	Common carp	0
1984	3	Spring	10	American eel	784
1984	3	Spring	11	Goldfish	0
1984	3	Spring	12	Golden shiner	8

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	3	Spring	13	Hogchoker	6,838
1984	3	Spring	14	Tessellated darter	9
1984	3	Spring	15	Banded killifish	44
1984	3	Spring	16	Emerald shiner	0
1984	3	Spring	17	Largemouth bass	0
1984	3	Spring	18	Mummichog	0
1984	3	Spring	19	Atlantic menhaden	0
1984	3	Spring	21	Chain pickerel	0
1984	3	Spring	22	Blueback herring	6,912
1984	3	Spring	23	White sucker	18
1984	3	Spring	24	Atlantic silverside	0
1984	3	Spring	25	Rainbow smelt	26
1984	3	Spring	26	Smallmouth bass	0
1984	3	Spring	27	Shortnose sturgeon	1.69
1984	3	Spring	28	Spottail shiner	239
1984	3	Spring	29	Atlantic sturgeon	0.00
1984	3	Spring	30	Striped bass	1,441
1984	3	Spring	31	Fourspine stickleback	0
1984	3	Spring	32	Atlantic tomcod	15,423
1984	3	Spring	34	White catfish	8,925
1984	3	Spring	35	White perch	99,956
1984	3	Spring	36	Yellow perch	41
1984	3	Spring	37	Satinfin shiner	0
1984	3	Spring	38	Rock bass	0
1984	3	Spring	39	Northern pipefish	18
1984	3	Spring	40	Redbreast sunfish	8
1984	3	Spring	41	Atlantic needlefish	0
1984	3	Spring	42	Crevalle jack	0
1984	3	Spring	45	Weakfish	0
1984	3	Spring	47	Common shiner	0
1984	3	Spring	49	Lookdown	0
1984	3	Spring	50	Herring family	0
1984	3	Spring	54	Lined seahorse	0
1984	3	Spring	55	Logperch	0
1984	3	Spring	58	Fathead minnow	0
1984	3	Spring	59	Carp and minnow family	0
1984	3	Spring	60	Morone species	0
1984	3	Spring	62	Tautog	0
1984	3	Spring	63	Fourbeard rockling	0
1984	3	Spring	64	Striped cusk-eel	0
1984	3	Spring	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	3	Spring	68	Atlantic moonfish	0
1984	3	Spring	71	Scup	0
1984	3	Spring	72	Winter flounder	0
1984	3	Spring	73	Inland silverside	426
1984	3	Spring	74	Sea lamprey	0
1984	3	Spring	75	Gizzard shad	8
1984	3	Spring	76	Silver hake	9
1984	3	Spring	77	Striped mullet	0
1984	3	Spring	78	Threespine stickleback	0
1984	3	Spring	79	Brown trout	0
1984	3	Spring	80	Butterfish	0
1984	3	Spring	81	White crappie	0
1984	3	Spring	83	Northern pike	0
1984	3	Spring	84	Green sunfish	0
1984	3	Spring	85	Silver perch	0
1984	3	Spring	86	Northern puffer	0
1984	3	Spring	96	Sunfish family	35
1984	3	Spring	98	Red hake	0
1984	3	Spring	100	Central mudminnow	0
1984	3	Spring	101	Grubby	0
1984	3	Spring	102	Eastern mudminnow	0
1984	3	Spring	103	White bass	0
1984	3	Spring	104	Rough silverside	0
1984	3	Spring	105	Longear sunfish	0
1984	3	Spring	106	Summer flounder	9
1984	3	Spring	108	Creek chub	0
1984	3	Spring	109	Black bullhead	0
1984	3	Spring	110	Striped searobin	0
1984	3	Spring	111	Northern searobin	0
1984	3	Spring	113	Atlantic croaker	0
1984	3	Spring	114	Longhorn sculpin	0
1984	3	Spring	116	Hickory shad	0
1984	3	Spring	120	Conger eel	0
1984	3	Spring	122	Warmouth	0
1984	3	Spring	125	White mullet	0
1984	3	Spring	126	Yellow bullhead	0
1984	3	Spring	127	Channel catfish	0
1984	3	Spring	130	Naked goby	0
1984	3	Spring	132	Windowpane	0
1984	3	Spring	133	Spotted hake	0
1984	3	Spring	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	3	Spring	137	American sand lance	0
1984	3	Spring	139	Fourspot flounder	0
1984	3	Spring	140	Atlantic mackerel	0
1984	3	Spring	141	Black sea bass	0
1984	3	Spring	142	Smallmouth flounder	0
1984	3	Spring	143	Rock gunnel	0
1984	3	Spring	144	Inshore lizardfish	0
1984	3	Spring	146	Silver lamprey	0
1984	3	Spring	150	Goby family	0
1984	3	Spring	157	New World silverside family	0
1984	3	Spring	159	Sand flounder family	0
1984	3	Spring	161	Pipefish family	0
1984	3	Spring	162	Mackerel scad	0
1984	3	Spring	164	Cunner	0
1984	3	Spring	169	Gray snapper	0
1984	3	Spring	172	Bigeye scad	0
1984	3	Spring	173	Striped burrfish	0
1984	3	Spring	177	Spotfin butterflyfish	0
1984	3	Spring	179	Planehead filefish	0
1984	3	Spring	180	Atlantic cutlassfish	0
1984	3	Spring	181	Pigfish	0
1984	3	Spring	184	Freckled blenny	0
1984	3	Spring	187	Margined madtom	0
1984	3	Spring	205	Freshwater drum	0
1984	3	Spring	206	King mackerel	0
1984	3	Spring	209	Highfin goby	0
1984	3	Spring	213	Oyster toadfish	0
1984	3	Spring	754	Blue crab	3
1984	3	Spring	999	All fish taxa	152,204.69
1984	3	Summer	1	Alewife	2,448
1984	3	Summer	2	Bay anchovy	97,633
1984	3	Summer	3	American shad	100
1984	3	Summer	4	Bluefish	6,342
1984	3	Summer	5	Bluegill	243
1984	3	Summer	6	Brown bullhead	12
1984	3	Summer	7	Pumpkinseed	197
1984	3	Summer	8	Black crappie	0
1984	3	Summer	9	Common carp	0
1984	3	Summer	10	American eel	433
1984	3	Summer	11	Goldfish	0
1984	3	Summer	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	3	Summer	13	Hogchoker	2,086
1984	3	Summer	14	Tessellated darter	12
1984	3	Summer	15	Banded killifish	65
1984	3	Summer	16	Emerald shiner	0
1984	3	Summer	17	Largemouth bass	0
1984	3	Summer	18	Mummichog	6
1984	3	Summer	19	Atlantic menhaden	23
1984	3	Summer	21	Chain pickerel	0
1984	3	Summer	22	Blueback herring	2,567
1984	3	Summer	23	White sucker	0
1984	3	Summer	24	Atlantic silverside	6
1984	3	Summer	25	Rainbow smelt	370
1984	3	Summer	26	Smallmouth bass	0
1984	3	Summer	27	Shortnose sturgeon	0.00
1984	3	Summer	28	Spottail shiner	41
1984	3	Summer	29	Atlantic sturgeon	9.75
1984	3	Summer	30	Striped bass	2,515
1984	3	Summer	31	Fourspine stickleback	0
1984	3	Summer	32	Atlantic tomcod	80,001
1984	3	Summer	34	White catfish	760
1984	3	Summer	35	White perch	26,799
1984	3	Summer	36	Yellow perch	29
1984	3	Summer	37	Satinfin shiner	0
1984	3	Summer	38	Rock bass	0
1984	3	Summer	39	Northern pipefish	12
1984	3	Summer	40	Redbreast sunfish	35
1984	3	Summer	41	Atlantic needlefish	6
1984	3	Summer	42	Crevalle jack	11
1984	3	Summer	45	Weakfish	9,712
1984	3	Summer	47	Common shiner	0
1984	3	Summer	49	Lookdown	6
1984	3	Summer	50	Herring family	0
1984	3	Summer	54	Lined seahorse	0
1984	3	Summer	55	Logperch	0
1984	3	Summer	58	Fathead minnow	0
1984	3	Summer	59	Carp and minnow family	0
1984	3	Summer	60	Morone species	0
1984	3	Summer	62	Tautog	6
1984	3	Summer	63	Fourbeard rockling	0
1984	3	Summer	64	Striped cusk-eel	0
1984	3	Summer	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	3	Summer	68	Atlantic moonfish	0
1984	3	Summer	71	Scup	0
1984	3	Summer	72	Winter flounder	6
1984	3	Summer	73	Inland silverside	0
1984	3	Summer	74	Sea lamprey	0
1984	3	Summer	75	Gizzard shad	0
1984	3	Summer	76	Silver hake	0
1984	3	Summer	77	Striped mullet	0
1984	3	Summer	78	Threespine stickleback	0
1984	3	Summer	79	Brown trout	0
1984	3	Summer	80	Butterfish	1,590
1984	3	Summer	81	White crappie	0
1984	3	Summer	83	Northern pike	0
1984	3	Summer	84	Green sunfish	0
1984	3	Summer	85	Silver perch	0
1984	3	Summer	86	Northern puffer	0
1984	3	Summer	96	Sunfish family	221
1984	3	Summer	98	Red hake	0
1984	3	Summer	100	Central mudminnow	0
1984	3	Summer	101	Grubby	0
1984	3	Summer	102	Eastern mudminnow	0
1984	3	Summer	103	White bass	0
1984	3	Summer	104	Rough silverside	0
1984	3	Summer	105	Longear sunfish	0
1984	3	Summer	106	Summer flounder	6
1984	3	Summer	108	Creek chub	0
1984	3	Summer	109	Black bullhead	0
1984	3	Summer	110	Striped searobin	0
1984	3	Summer	111	Northern searobin	0
1984	3	Summer	113	Atlantic croaker	0
1984	3	Summer	114	Longhorn sculpin	0
1984	3	Summer	116	Hickory shad	0
1984	3	Summer	120	Conger eel	0
1984	3	Summer	122	Warmouth	0
1984	3	Summer	125	White mullet	0
1984	3	Summer	126	Yellow bullhead	34
1984	3	Summer	127	Channel catfish	0
1984	3	Summer	130	Naked goby	0
1984	3	Summer	132	Windowpane	0
1984	3	Summer	133	Spotted hake	0
1984	3	Summer	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	3	Summer	137	American sand lance	0
1984	3	Summer	139	Fourspot flounder	6
1984	3	Summer	140	Atlantic mackerel	0
1984	3	Summer	141	Black sea bass	0
1984	3	Summer	142	Smallmouth flounder	0
1984	3	Summer	143	Rock gunnel	0
1984	3	Summer	144	Inshore lizardfish	0
1984	3	Summer	146	Silver lamprey	0
1984	3	Summer	150	Goby family	0
1984	3	Summer	157	New World silverside family	0
1984	3	Summer	159	Sand flounder family	0
1984	3	Summer	161	Pipefish family	0
1984	3	Summer	162	Mackerel scad	0
1984	3	Summer	164	Cunner	0
1984	3	Summer	169	Gray snapper	0
1984	3	Summer	172	Bigeye scad	0
1984	3	Summer	173	Striped burrfish	0
1984	3	Summer	177	Spotfin butterflyfish	0
1984	3	Summer	179	Planehead filefish	0
1984	3	Summer	180	Atlantic cutlassfish	0
1984	3	Summer	181	Pigfish	0
1984	3	Summer	184	Freckled blenny	0
1984	3	Summer	187	Margined madtom	0
1984	3	Summer	205	Freshwater drum	0
1984	3	Summer	206	King mackerel	0
1984	3	Summer	209	Highfin goby	0
1984	3	Summer	213	Oyster toadfish	0
1984	3	Summer	754	Blue crab	199
1984	3	Summer	999	All fish taxa	234,345.75
1984	3	Fall	1	Alewife	810
1984	3	Fall	2	Bay anchovy	2,575
1984	3	Fall	3	American shad	261
1984	3	Fall	4	Bluefish	121
1984	3	Fall	5	Bluegill	31
1984	3	Fall	6	Brown bullhead	0
1984	3	Fall	7	Pumpkinseed	34
1984	3	Fall	8	Black crappie	0
1984	3	Fall	9	Common carp	3
1984	3	Fall	10	American eel	418
1984	3	Fall	11	Goldfish	5
1984	3	Fall	12	Golden shiner	3

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	3	Fall	13	Hogchoker	513
1984	3	Fall	14	Tessellated darter	5
1984	3	Fall	15	Banded killifish	3
1984	3	Fall	16	Emerald shiner	0
1984	3	Fall	17	Largemouth bass	0
1984	3	Fall	18	Mummichog	0
1984	3	Fall	19	Atlantic menhaden	0
1984	3	Fall	21	Chain pickerel	0
1984	3	Fall	22	Blueback herring	722
1984	3	Fall	23	White sucker	0
1984	3	Fall	24	Atlantic silverside	0
1984	3	Fall	25	Rainbow smelt	179
1984	3	Fall	26	Smallmouth bass	0
1984	3	Fall	27	Shortnose sturgeon	0.00
1984	3	Fall	28	Spottail shiner	10
1984	3	Fall	29	Atlantic sturgeon	0.00
1984	3	Fall	30	Striped bass	1,159
1984	3	Fall	31	Fourspine stickleback	0
1984	3	Fall	32	Atlantic tomcod	373
1984	3	Fall	34	White catfish	466
1984	3	Fall	35	White perch	23,333
1984	3	Fall	36	Yellow perch	5
1984	3	Fall	37	Satinfin shiner	0
1984	3	Fall	38	Rock bass	0
1984	3	Fall	39	Northern pipefish	8
1984	3	Fall	40	Redbreast sunfish	5
1984	3	Fall	41	Atlantic needlefish	0
1984	3	Fall	42	Crevalle jack	46
1984	3	Fall	45	Weakfish	481
1984	3	Fall	47	Common shiner	0
1984	3	Fall	49	Lookdown	15
1984	3	Fall	50	Herring family	0
1984	3	Fall	54	Lined seahorse	0
1984	3	Fall	55	Logperch	0
1984	3	Fall	58	Fathead minnow	0
1984	3	Fall	59	Carp and minnow family	0
1984	3	Fall	60	Morone species	0
1984	3	Fall	62	Tautog	0
1984	3	Fall	63	Fourbeard rockling	3
1984	3	Fall	64	Striped cusk-eel	0
1984	3	Fall	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	3	Fall	68	Atlantic moonfish	0
1984	3	Fall	71	Scup	0
1984	3	Fall	72	Winter flounder	0
1984	3	Fall	73	Inland silverside	0
1984	3	Fall	74	Sea lamprey	0
1984	3	Fall	75	Gizzard shad	31
1984	3	Fall	76	Silver hake	0
1984	3	Fall	77	Striped mullet	0
1984	3	Fall	78	Threespine stickleback	0
1984	3	Fall	79	Brown trout	0
1984	3	Fall	80	Butterfish	204
1984	3	Fall	81	White crappie	0
1984	3	Fall	83	Northern pike	0
1984	3	Fall	84	Green sunfish	0
1984	3	Fall	85	Silver perch	0
1984	3	Fall	86	Northern puffer	0
1984	3	Fall	96	Sunfish family	0
1984	3	Fall	98	Red hake	0
1984	3	Fall	100	Central mudminnow	0
1984	3	Fall	101	Grubby	0
1984	3	Fall	102	Eastern mudminnow	0
1984	3	Fall	103	White bass	0
1984	3	Fall	104	Rough silverside	0
1984	3	Fall	105	Longear sunfish	0
1984	3	Fall	106	Summer flounder	0
1984	3	Fall	108	Creek chub	0
1984	3	Fall	109	Black bullhead	0
1984	3	Fall	110	Striped searobin	0
1984	3	Fall	111	Northern searobin	0
1984	3	Fall	113	Atlantic croaker	0
1984	3	Fall	114	Longhorn sculpin	0
1984	3	Fall	116	Hickory shad	3
1984	3	Fall	120	Conger eel	0
1984	3	Fall	122	Warmouth	0
1984	3	Fall	125	White mullet	0
1984	3	Fall	126	Yellow bullhead	3
1984	3	Fall	127	Channel catfish	0
1984	3	Fall	130	Naked goby	0
1984	3	Fall	132	Windowpane	0
1984	3	Fall	133	Spotted hake	0
1984	3	Fall	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1984	3	Fall	137	American sand lance	0
1984	3	Fall	139	Fourspot flounder	0
1984	3	Fall	140	Atlantic mackerel	0
1984	3	Fall	141	Black sea bass	0
1984	3	Fall	142	Smallmouth flounder	0
1984	3	Fall	143	Rock gunnel	0
1984	3	Fall	144	Inshore lizardfish	0
1984	3	Fall	146	Silver lamprey	0
1984	3	Fall	150	Goby family	0
1984	3	Fall	157	New World silverside family	0
1984	3	Fall	159	Sand flounder family	0
1984	3	Fall	161	Pipefish family	0
1984	3	Fall	162	Mackerel scad	0
1984	3	Fall	164	Cunner	0
1984	3	Fall	169	Gray snapper	0
1984	3	Fall	172	Bigeye scad	0
1984	3	Fall	173	Striped burrfish	0
1984	3	Fall	177	Spotfin butterflyfish	0
1984	3	Fall	179	Planehead filefish	0
1984	3	Fall	180	Atlantic cutlassfish	0
1984	3	Fall	181	Pigfish	0
1984	3	Fall	184	Freckled blenny	0
1984	3	Fall	187	Margined madtom	0
1984	3	Fall	205	Freshwater drum	0
1984	3	Fall	206	King mackerel	0
1984	3	Fall	209	Highfin goby	0
1984	3	Fall	213	Oyster toadfish	0
1984	3	Fall	754	Blue crab	126
1984	3	Fall	999	All fish taxa	31,827.00
1985	2	Winter	1	Alewife	487
1985	2	Winter	2	Bay anchovy	7
1985	2	Winter	3	American shad	9
1985	2	Winter	4	Bluefish	0
1985	2	Winter	5	Bluegill	83
1985	2	Winter	6	Brown bullhead	107
1985	2	Winter	7	Pumpkinseed	815
1985	2	Winter	8	Black crappie	7
1985	2	Winter	9	Common carp	2
1985	2	Winter	10	American eel	544
1985	2	Winter	11	Goldfish	9
1985	2	Winter	12	Golden shiner	71

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	2	Winter	13	Hogchoker	586
1985	2	Winter	14	Tessellated darter	99
1985	2	Winter	15	Banded killifish	74
1985	2	Winter	16	Emerald shiner	0
1985	2	Winter	17	Largemouth bass	20
1985	2	Winter	18	Mummichog	16
1985	2	Winter	19	Atlantic menhaden	0
1985	2	Winter	21	Chain pickerel	0
1985	2	Winter	22	Blueback herring	121
1985	2	Winter	23	White sucker	2
1985	2	Winter	24	Atlantic silverside	5
1985	2	Winter	25	Rainbow smelt	2,117
1985	2	Winter	26	Smallmouth bass	4
1985	2	Winter	27	Shortnose sturgeon	0.00
1985	2	Winter	28	Spottail shiner	1,611
1985	2	Winter	29	Atlantic sturgeon	14.28
1985	2	Winter	30	Striped bass	46,803
1985	2	Winter	31	Fourspine stickleback	9
1985	2	Winter	32	Atlantic tomcod	7,758
1985	2	Winter	34	White catfish	2,788
1985	2	Winter	35	White perch	278,525
1985	2	Winter	36	Yellow perch	70
1985	2	Winter	37	Satinfin shiner	0
1985	2	Winter	38	Rock bass	0
1985	2	Winter	39	Northern pipefish	5
1985	2	Winter	40	Redbreast sunfish	4
1985	2	Winter	41	Atlantic needlefish	0
1985	2	Winter	42	Crevalle jack	0
1985	2	Winter	45	Weakfish	0
1985	2	Winter	47	Common shiner	0
1985	2	Winter	49	Lookdown	0
1985	2	Winter	50	Herring family	5
1985	2	Winter	54	Lined seahorse	0
1985	2	Winter	55	Logperch	0
1985	2	Winter	58	Fathead minnow	0
1985	2	Winter	59	Carp and minnow family	0
1985	2	Winter	60	Morone species	0
1985	2	Winter	62	Tautog	0
1985	2	Winter	63	Fourbeard rockling	11
1985	2	Winter	64	Striped cusk-eel	0
1985	2	Winter	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	2	Winter	68	Atlantic moonfish	0
1985	2	Winter	71	Scup	0
1985	2	Winter	72	Winter flounder	32
1985	2	Winter	73	Inland silverside	13
1985	2	Winter	74	Sea lamprey	29
1985	2	Winter	75	Gizzard shad	816
1985	2	Winter	76	Silver hake	40
1985	2	Winter	77	Striped mullet	0
1985	2	Winter	78	Threespine stickleback	621
1985	2	Winter	79	Brown trout	0
1985	2	Winter	80	Butterfish	0
1985	2	Winter	81	White crappie	3
1985	2	Winter	83	Northern pike	0
1985	2	Winter	84	Green sunfish	0
1985	2	Winter	85	Silver perch	0
1985	2	Winter	86	Northern puffer	0
1985	2	Winter	96	Sunfish family	9
1985	2	Winter	98	Red hake	425
1985	2	Winter	100	Central mudminnow	0
1985	2	Winter	101	Grubby	13
1985	2	Winter	102	Eastern mudminnow	0
1985	2	Winter	103	White bass	0
1985	2	Winter	104	Rough silverside	0
1985	2	Winter	105	Longear sunfish	0
1985	2	Winter	106	Summer flounder	0
1985	2	Winter	108	Creek chub	0
1985	2	Winter	109	Black bullhead	0
1985	2	Winter	110	Striped searobin	0
1985	2	Winter	111	Northern searobin	0
1985	2	Winter	113	Atlantic croaker	0
1985	2	Winter	114	Longhorn sculpin	0
1985	2	Winter	116	Hickory shad	0
1985	2	Winter	120	Conger eel	0
1985	2	Winter	122	Warmouth	0
1985	2	Winter	125	White mullet	0
1985	2	Winter	126	Yellow bullhead	0
1985	2	Winter	127	Channel catfish	0
1985	2	Winter	130	Naked goby	0
1985	2	Winter	132	Windowpane	0
1985	2	Winter	133	Spotted hake	2
1985	2	Winter	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	2	Winter	137	American sand lance	0
1985	2	Winter	139	Fourspot flounder	0
1985	2	Winter	140	Atlantic mackerel	0
1985	2	Winter	141	Black sea bass	0
1985	2	Winter	142	Smallmouth flounder	0
1985	2	Winter	143	Rock gunnel	7
1985	2	Winter	144	Inshore lizardfish	0
1985	2	Winter	146	Silver lamprey	0
1985	2	Winter	150	Goby family	0
1985	2	Winter	157	New World silverside family	0
1985	2	Winter	159	Sand flounder family	0
1985	2	Winter	161	Pipefish family	0
1985	2	Winter	162	Mackerel scad	0
1985	2	Winter	164	Cunner	2
1985	2	Winter	169	Gray snapper	0
1985	2	Winter	172	Bigeye scad	0
1985	2	Winter	173	Striped burrfish	0
1985	2	Winter	177	Spotfin butterflyfish	0
1985	2	Winter	179	Planehead filefish	0
1985	2	Winter	180	Atlantic cutlassfish	0
1985	2	Winter	181	Pigfish	0
1985	2	Winter	184	Freckled blenny	0
1985	2	Winter	187	Margined madtom	0
1985	2	Winter	205	Freshwater drum	0
1985	2	Winter	206	King mackerel	0
1985	2	Winter	209	Highfin goby	0
1985	2	Winter	213	Oyster toadfish	0
1985	2	Winter	754	Blue crab	
1985	2	Winter	999	All fish taxa	345,143.28
1985	2	Spring	1	Alewife	381
1985	2	Spring	2	Bay anchovy	1,596
1985	2	Spring	3	American shad	16
1985	2	Spring	4	Bluefish	82
1985	2	Spring	5	Bluegill	27
1985	2	Spring	6	Brown bullhead	54
1985	2	Spring	7	Pumpkinseed	132
1985	2	Spring	8	Black crappie	8
1985	2	Spring	9	Common carp	0
1985	2	Spring	10	American eel	1,044
1985	2	Spring	11	Goldfish	0
1985	2	Spring	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	2	Spring	13	Hogchoker	2,814
1985	2	Spring	14	Tessellated darter	582
1985	2	Spring	15	Banded killifish	16
1985	2	Spring	16	Emerald shiner	0
1985	2	Spring	17	Largemouth bass	0
1985	2	Spring	18	Mummichog	0
1985	2	Spring	19	Atlantic menhaden	21
1985	2	Spring	21	Chain pickerel	0
1985	2	Spring	22	Blueback herring	224
1985	2	Spring	23	White sucker	0
1985	2	Spring	24	Atlantic silverside	0
1985	2	Spring	25	Rainbow smelt	693
1985	2	Spring	26	Smallmouth bass	0
1985	2	Spring	27	Shortnose sturgeon	0.00
1985	2	Spring	28	Spottail shiner	226
1985	2	Spring	29	Atlantic sturgeon	2.31
1985	2	Spring	30	Striped bass	3,136
1985	2	Spring	31	Fourspine stickleback	16
1985	2	Spring	32	Atlantic tomcod	11,993
1985	2	Spring	34	White catfish	1,017
1985	2	Spring	35	White perch	67,469
1985	2	Spring	36	Yellow perch	109
1985	2	Spring	37	Satinfin shiner	0
1985	2	Spring	38	Rock bass	0
1985	2	Spring	39	Northern pipefish	217
1985	2	Spring	40	Redbreast sunfish	8
1985	2	Spring	41	Atlantic needlefish	0
1985	2	Spring	42	Crevalle jack	0
1985	2	Spring	45	Weakfish	0
1985	2	Spring	47	Common shiner	0
1985	2	Spring	49	Lookdown	0
1985	2	Spring	50	Herring family	0
1985	2	Spring	54	Lined seahorse	8
1985	2	Spring	55	Logperch	0
1985	2	Spring	58	Fathead minnow	0
1985	2	Spring	59	Carp and minnow family	0
1985	2	Spring	60	Morone species	0
1985	2	Spring	62	Tautog	8
1985	2	Spring	63	Fourbeard rockling	0
1985	2	Spring	64	Striped cusk-eel	31
1985	2	Spring	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	2	Spring	68	Atlantic moonfish	0
1985	2	Spring	71	Scup	0
1985	2	Spring	72	Winter flounder	0
1985	2	Spring	73	Inland silverside	0
1985	2	Spring	74	Sea lamprey	0
1985	2	Spring	75	Gizzard shad	0
1985	2	Spring	76	Silver hake	16
1985	2	Spring	77	Striped mullet	0
1985	2	Spring	78	Threespine stickleback	111
1985	2	Spring	79	Brown trout	0
1985	2	Spring	80	Butterfish	141
1985	2	Spring	81	White crappie	0
1985	2	Spring	83	Northern pike	0
1985	2	Spring	84	Green sunfish	0
1985	2	Spring	85	Silver perch	0
1985	2	Spring	86	Northern puffer	0
1985	2	Spring	96	Sunfish family	0
1985	2	Spring	98	Red hake	0
1985	2	Spring	100	Central mudminnow	0
1985	2	Spring	101	Grubby	0
1985	2	Spring	102	Eastern mudminnow	0
1985	2	Spring	103	White bass	0
1985	2	Spring	104	Rough silverside	0
1985	2	Spring	105	Longear sunfish	0
1985	2	Spring	106	Summer flounder	0
1985	2	Spring	108	Creek chub	0
1985	2	Spring	109	Black bullhead	0
1985	2	Spring	110	Striped searobin	0
1985	2	Spring	111	Northern searobin	0
1985	2	Spring	113	Atlantic croaker	0
1985	2	Spring	114	Longhorn sculpin	0
1985	2	Spring	116	Hickory shad	0
1985	2	Spring	120	Conger eel	0
1985	2	Spring	122	Warmouth	0
1985	2	Spring	125	White mullet	0
1985	2	Spring	126	Yellow bullhead	0
1985	2	Spring	127	Channel catfish	0
1985	2	Spring	130	Naked goby	0
1985	2	Spring	132	Windowpane	65
1985	2	Spring	133	Spotted hake	209
1985	2	Spring	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	2	Spring	137	American sand lance	0
1985	2	Spring	139	Fourspot flounder	50
1985	2	Spring	140	Atlantic mackerel	0
1985	2	Spring	141	Black sea bass	0
1985	2	Spring	142	Smallmouth flounder	0
1985	2	Spring	143	Rock gunnel	8
1985	2	Spring	144	Inshore lizardfish	0
1985	2	Spring	146	Silver lamprey	0
1985	2	Spring	150	Goby family	0
1985	2	Spring	157	New World silverside family	0
1985	2	Spring	159	Sand flounder family	0
1985	2	Spring	161	Pipefish family	0
1985	2	Spring	162	Mackerel scad	0
1985	2	Spring	164	Cunner	8
1985	2	Spring	169	Gray snapper	0
1985	2	Spring	172	Bigeye scad	0
1985	2	Spring	173	Striped burrfish	0
1985	2	Spring	177	Spotfin butterflyfish	0
1985	2	Spring	179	Planehead filefish	0
1985	2	Spring	180	Atlantic cutlassfish	0
1985	2	Spring	181	Pigfish	0
1985	2	Spring	184	Freckled blenny	0
1985	2	Spring	187	Margined madtom	0
1985	2	Spring	205	Freshwater drum	0
1985	2	Spring	206	King mackerel	0
1985	2	Spring	209	Highfin goby	0
1985	2	Spring	213	Oyster toadfish	0
1985	2	Spring	754	Blue crab	168
1985	2	Spring	999	All fish taxa	91,491.31
1985	2	Summer	1	Alewife	646
1985	2	Summer	2	Bay anchovy	5,323
1985	2	Summer	3	American shad	58
1985	2	Summer	4	Bluefish	420
1985	2	Summer	5	Bluegill	387
1985	2	Summer	6	Brown bullhead	0
1985	2	Summer	7	Pumpkinseed	76
1985	2	Summer	8	Black crappie	0
1985	2	Summer	9	Common carp	0
1985	2	Summer	10	American eel	137
1985	2	Summer	11	Goldfish	0
1985	2	Summer	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	2	Summer	13	Hogchoker	16,853
1985	2	Summer	14	Tessellated darter	0
1985	2	Summer	15	Banded killifish	4
1985	2	Summer	16	Emerald shiner	0
1985	2	Summer	17	Largemouth bass	20
1985	2	Summer	18	Mummichog	0
1985	2	Summer	19	Atlantic menhaden	167
1985	2	Summer	21	Chain pickerel	0
1985	2	Summer	22	Blueback herring	576
1985	2	Summer	23	White sucker	0
1985	2	Summer	24	Atlantic silverside	16
1985	2	Summer	25	Rainbow smelt	4
1985	2	Summer	26	Smallmouth bass	17
1985	2	Summer	27	Shortnose sturgeon	0.00
1985	2	Summer	28	Spottail shiner	8
1985	2	Summer	29	Atlantic sturgeon	0.00
1985	2	Summer	30	Striped bass	912
1985	2	Summer	31	Fourspine stickleback	0
1985	2	Summer	32	Atlantic tomcod	19,264
1985	2	Summer	34	White catfish	103
1985	2	Summer	35	White perch	6,649
1985	2	Summer	36	Yellow perch	0
1985	2	Summer	37	Satinfin shiner	0
1985	2	Summer	38	Rock bass	0
1985	2	Summer	39	Northern pipefish	527
1985	2	Summer	40	Redbreast sunfish	4
1985	2	Summer	41	Atlantic needlefish	8
1985	2	Summer	42	Crevalle jack	17
1985	2	Summer	45	Weakfish	6,958
1985	2	Summer	47	Common shiner	0
1985	2	Summer	49	Lookdown	93
1985	2	Summer	50	Herring family	8
1985	2	Summer	54	Lined seahorse	0
1985	2	Summer	55	Logperch	0
1985	2	Summer	58	Fathead minnow	0
1985	2	Summer	59	Carp and minnow family	0
1985	2	Summer	60	Morone species	0
1985	2	Summer	62	Tautog	0
1985	2	Summer	63	Fourbeard rockling	0
1985	2	Summer	64	Striped cusk-eel	0
1985	2	Summer	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	2	Summer	68	Atlantic moonfish	8
1985	2	Summer	71	Scup	0
1985	2	Summer	72	Winter flounder	37
1985	2	Summer	73	Inland silverside	4
1985	2	Summer	74	Sea lamprey	0
1985	2	Summer	75	Gizzard shad	0
1985	2	Summer	76	Silver hake	0
1985	2	Summer	77	Striped mullet	0
1985	2	Summer	78	Threespine stickleback	0
1985	2	Summer	79	Brown trout	0
1985	2	Summer	80	Butterfish	1,749
1985	2	Summer	81	White crappie	0
1985	2	Summer	83	Northern pike	0
1985	2	Summer	84	Green sunfish	0
1985	2	Summer	85	Silver perch	0
1985	2	Summer	86	Northern puffer	29
1985	2	Summer	96	Sunfish family	0
1985	2	Summer	98	Red hake	0
1985	2	Summer	100	Central mudminnow	0
1985	2	Summer	101	Grubby	0
1985	2	Summer	102	Eastern mudminnow	0
1985	2	Summer	103	White bass	0
1985	2	Summer	104	Rough silverside	0
1985	2	Summer	105	Longear sunfish	0
1985	2	Summer	106	Summer flounder	77
1985	2	Summer	108	Creek chub	0
1985	2	Summer	109	Black bullhead	0
1985	2	Summer	110	Striped searobin	83
1985	2	Summer	111	Northern searobin	30
1985	2	Summer	113	Atlantic croaker	0
1985	2	Summer	114	Longhorn sculpin	0
1985	2	Summer	116	Hickory shad	0
1985	2	Summer	120	Conger eel	4
1985	2	Summer	122	Warmouth	0
1985	2	Summer	125	White mullet	0
1985	2	Summer	126	Yellow bullhead	0
1985	2	Summer	127	Channel catfish	0
1985	2	Summer	130	Naked goby	0
1985	2	Summer	132	Windowpane	34
1985	2	Summer	133	Spotted hake	8
1985	2	Summer	136	Northern stargazer	8

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	2	Summer	137	American sand lance	0
1985	2	Summer	139	Fourspot flounder	130
1985	2	Summer	140	Atlantic mackerel	0
1985	2	Summer	141	Black sea bass	0
1985	2	Summer	142	Smallmouth flounder	0
1985	2	Summer	143	Rock gunnel	0
1985	2	Summer	144	Inshore lizardfish	0
1985	2	Summer	146	Silver lamprey	0
1985	2	Summer	150	Goby family	0
1985	2	Summer	157	New World silverside family	0
1985	2	Summer	159	Sand flounder family	0
1985	2	Summer	161	Pipefish family	0
1985	2	Summer	162	Mackerel scad	4
1985	2	Summer	164	Cunner	0
1985	2	Summer	169	Gray snapper	0
1985	2	Summer	172	Bigeye scad	0
1985	2	Summer	173	Striped burrfish	0
1985	2	Summer	177	Spotfin butterflyfish	0
1985	2	Summer	179	Planehead filefish	8
1985	2	Summer	180	Atlantic cutlassfish	4
1985	2	Summer	181	Pigfish	0
1985	2	Summer	184	Freckled blenny	0
1985	2	Summer	187	Margined madtom	0
1985	2	Summer	205	Freshwater drum	0
1985	2	Summer	206	King mackerel	0
1985	2	Summer	209	Highfin goby	0
1985	2	Summer	213	Oyster toadfish	0
1985	2	Summer	754	Blue crab	10,171
1985	2	Summer	999	All fish taxa	61,472.00
1985	2	Fall	1	Alewife	828
1985	2	Fall	2	Bay anchovy	1,760
1985	2	Fall	3	American shad	1,258
1985	2	Fall	4	Bluefish	80
1985	2	Fall	5	Bluegill	798
1985	2	Fall	6	Brown bullhead	7
1985	2	Fall	7	Pumpkinseed	196
1985	2	Fall	8	Black crappie	46
1985	2	Fall	9	Common carp	18
1985	2	Fall	10	American eel	548
1985	2	Fall	11	Goldfish	4
1985	2	Fall	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	2	Fall	13	Hogchoker	6,062
1985	2	Fall	14	Tessellated darter	13
1985	2	Fall	15	Banded killifish	432
1985	2	Fall	16	Emerald shiner	0
1985	2	Fall	17	Largemouth bass	11
1985	2	Fall	18	Mummichog	5
1985	2	Fall	19	Atlantic menhaden	178
1985	2	Fall	21	Chain pickerel	0
1985	2	Fall	22	Blueback herring	7,416
1985	2	Fall	23	White sucker	0
1985	2	Fall	24	Atlantic silverside	7
1985	2	Fall	25	Rainbow smelt	737
1985	2	Fall	26	Smallmouth bass	0
1985	2	Fall	27	Shortnose sturgeon	0.00
1985	2	Fall	28	Spottail shiner	128
1985	2	Fall	29	Atlantic sturgeon	2.64
1985	2	Fall	30	Striped bass	2,600
1985	2	Fall	31	Fourspine stickleback	7
1985	2	Fall	32	Atlantic tomcod	543
1985	2	Fall	34	White catfish	1,072
1985	2	Fall	35	White perch	190,631
1985	2	Fall	36	Yellow perch	15
1985	2	Fall	37	Satinfin shiner	0
1985	2	Fall	38	Rock bass	0
1985	2	Fall	39	Northern pipefish	238
1985	2	Fall	40	Redbreast sunfish	8
1985	2	Fall	41	Atlantic needlefish	0
1985	2	Fall	42	Crevalle jack	105
1985	2	Fall	45	Weakfish	1,441
1985	2	Fall	47	Common shiner	5
1985	2	Fall	49	Lookdown	48
1985	2	Fall	50	Herring family	52
1985	2	Fall	54	Lined seahorse	0
1985	2	Fall	55	Logperch	0
1985	2	Fall	58	Fathead minnow	0
1985	2	Fall	59	Carp and minnow family	0
1985	2	Fall	60	Morone species	0
1985	2	Fall	62	Tautog	2
1985	2	Fall	63	Fourbeard rockling	3
1985	2	Fall	64	Striped cusk-eel	0
1985	2	Fall	67	Spot	3

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	2	Fall	68	Atlantic moonfish	72
1985	2	Fall	71	Scup	0
1985	2	Fall	72	Winter flounder	47
1985	2	Fall	73	Inland silverside	0
1985	2	Fall	74	Sea lamprey	0
1985	2	Fall	75	Gizzard shad	830
1985	2	Fall	76	Silver hake	21
1985	2	Fall	77	Striped mullet	0
1985	2	Fall	78	Threespine stickleback	0
1985	2	Fall	79	Brown trout	0
1985	2	Fall	80	Butterfish	11
1985	2	Fall	81	White crappie	0
1985	2	Fall	83	Northern pike	0
1985	2	Fall	84	Green sunfish	2
1985	2	Fall	85	Silver perch	40
1985	2	Fall	86	Northern puffer	0
1985	2	Fall	96	Sunfish family	3
1985	2	Fall	98	Red hake	6
1985	2	Fall	100	Central mudminnow	3
1985	2	Fall	101	Grubby	0
1985	2	Fall	102	Eastern mudminnow	0
1985	2	Fall	103	White bass	0
1985	2	Fall	104	Rough silverside	0
1985	2	Fall	105	Longear sunfish	0
1985	2	Fall	106	Summer flounder	60
1985	2	Fall	108	Creek chub	0
1985	2	Fall	109	Black bullhead	5
1985	2	Fall	110	Striped searobin	21
1985	2	Fall	111	Northern searobin	0
1985	2	Fall	113	Atlantic croaker	2
1985	2	Fall	114	Longhorn sculpin	0
1985	2	Fall	116	Hickory shad	0
1985	2	Fall	120	Conger eel	0
1985	2	Fall	122	Warmouth	0
1985	2	Fall	125	White mullet	0
1985	2	Fall	126	Yellow bullhead	0
1985	2	Fall	127	Channel catfish	0
1985	2	Fall	130	Naked goby	136
1985	2	Fall	132	Windowpane	3
1985	2	Fall	133	Spotted hake	0
1985	2	Fall	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	2	Fall	137	American sand lance	0
1985	2	Fall	139	Fourspot flounder	0
1985	2	Fall	140	Atlantic mackerel	0
1985	2	Fall	141	Black sea bass	18
1985	2	Fall	142	Smallmouth flounder	0
1985	2	Fall	143	Rock gunnel	0
1985	2	Fall	144	Inshore lizardfish	0
1985	2	Fall	146	Silver lamprey	0
1985	2	Fall	150	Goby family	0
1985	2	Fall	157	New World silverside family	0
1985	2	Fall	159	Sand flounder family	0
1985	2	Fall	161	Pipefish family	0
1985	2	Fall	162	Mackerel scad	0
1985	2	Fall	164	Cunner	0
1985	2	Fall	169	Gray snapper	107
1985	2	Fall	172	Bigeye scad	0
1985	2	Fall	173	Striped burrfish	0
1985	2	Fall	177	Spotfin butterflyfish	3
1985	2	Fall	179	Planehead filefish	0
1985	2	Fall	180	Atlantic cutlassfish	0
1985	2	Fall	181	Pigfish	0
1985	2	Fall	184	Freckled blenny	2
1985	2	Fall	187	Margined madtom	0
1985	2	Fall	205	Freshwater drum	0
1985	2	Fall	206	King mackerel	0
1985	2	Fall	209	Highfin goby	0
1985	2	Fall	213	Oyster toadfish	0
1985	2	Fall	754	Blue crab	1,466
1985	2	Fall	999	All fish taxa	218,701.64
1985	3	Winter	1	Alewife	468
1985	3	Winter	2	Bay anchovy	23
1985	3	Winter	3	American shad	8
1985	3	Winter	4	Bluefish	0
1985	3	Winter	5	Bluegill	49
1985	3	Winter	6	Brown bullhead	51
1985	3	Winter	7	Pumpkinseed	402
1985	3	Winter	8	Black crappie	11
1985	3	Winter	9	Common carp	12
1985	3	Winter	10	American eel	317
1985	3	Winter	11	Goldfish	8
1985	3	Winter	12	Golden shiner	19

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	3	Winter	13	Hogchoker	551
1985	3	Winter	14	Tessellated darter	52
1985	3	Winter	15	Banded killifish	18
1985	3	Winter	16	Emerald shiner	0
1985	3	Winter	17	Largemouth bass	8
1985	3	Winter	18	Mummichog	4
1985	3	Winter	19	Atlantic menhaden	0
1985	3	Winter	21	Chain pickerel	0
1985	3	Winter	22	Blueback herring	127
1985	3	Winter	23	White sucker	5
1985	3	Winter	24	Atlantic silverside	0
1985	3	Winter	25	Rainbow smelt	1,448
1985	3	Winter	26	Smallmouth bass	0
1985	3	Winter	27	Shortnose sturgeon	0.00
1985	3	Winter	28	Spottail shiner	338
1985	3	Winter	29	Atlantic sturgeon	21.79
1985	3	Winter	30	Striped bass	24,690
1985	3	Winter	31	Fourspine stickleback	0
1985	3	Winter	32	Atlantic tomcod	1,294
1985	3	Winter	34	White catfish	1,230
1985	3	Winter	35	White perch	152,405
1985	3	Winter	36	Yellow perch	40
1985	3	Winter	37	Satinfin shiner	0
1985	3	Winter	38	Rock bass	0
1985	3	Winter	39	Northern pipefish	0
1985	3	Winter	40	Redbreast sunfish	4
1985	3	Winter	41	Atlantic needlefish	0
1985	3	Winter	42	Crevalle jack	0
1985	3	Winter	45	Weakfish	0
1985	3	Winter	47	Common shiner	0
1985	3	Winter	49	Lookdown	0
1985	3	Winter	50	Herring family	0
1985	3	Winter	54	Lined seahorse	0
1985	3	Winter	55	Logperch	0
1985	3	Winter	58	Fathead minnow	0
1985	3	Winter	59	Carp and minnow family	0
1985	3	Winter	60	Morone species	0
1985	3	Winter	62	Tautog	0
1985	3	Winter	63	Fourbeard rockling	11
1985	3	Winter	64	Striped cusk-eel	0
1985	3	Winter	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	3	Winter	68	Atlantic moonfish	0
1985	3	Winter	71	Scup	0
1985	3	Winter	72	Winter flounder	22
1985	3	Winter	73	Inland silverside	11
1985	3	Winter	74	Sea lamprey	0
1985	3	Winter	75	Gizzard shad	1,307
1985	3	Winter	76	Silver hake	11
1985	3	Winter	77	Striped mullet	0
1985	3	Winter	78	Threespine stickleback	551
1985	3	Winter	79	Brown trout	0
1985	3	Winter	80	Butterfish	0
1985	3	Winter	81	White crappie	0
1985	3	Winter	83	Northern pike	0
1985	3	Winter	84	Green sunfish	0
1985	3	Winter	85	Silver perch	0
1985	3	Winter	86	Northern puffer	0
1985	3	Winter	96	Sunfish family	0
1985	3	Winter	98	Red hake	460
1985	3	Winter	100	Central mudminnow	0
1985	3	Winter	101	Grubby	0
1985	3	Winter	102	Eastern mudminnow	0
1985	3	Winter	103	White bass	0
1985	3	Winter	104	Rough silverside	0
1985	3	Winter	105	Longear sunfish	0
1985	3	Winter	106	Summer flounder	0
1985	3	Winter	108	Creek chub	0
1985	3	Winter	109	Black bullhead	0
1985	3	Winter	110	Striped searobin	0
1985	3	Winter	111	Northern searobin	0
1985	3	Winter	113	Atlantic croaker	0
1985	3	Winter	114	Longhorn sculpin	0
1985	3	Winter	116	Hickory shad	0
1985	3	Winter	120	Conger eel	0
1985	3	Winter	122	Warmouth	0
1985	3	Winter	125	White mullet	0
1985	3	Winter	126	Yellow bullhead	0
1985	3	Winter	127	Channel catfish	0
1985	3	Winter	130	Naked goby	0
1985	3	Winter	132	Windowpane	0
1985	3	Winter	133	Spotted hake	0
1985	3	Winter	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	3	Winter	137	American sand lance	0
1985	3	Winter	139	Fourspot flounder	0
1985	3	Winter	140	Atlantic mackerel	0
1985	3	Winter	141	Black sea bass	0
1985	3	Winter	142	Smallmouth flounder	0
1985	3	Winter	143	Rock gunnel	0
1985	3	Winter	144	Inshore lizardfish	0
1985	3	Winter	146	Silver lamprey	0
1985	3	Winter	150	Goby family	0
1985	3	Winter	157	New World silverside family	0
1985	3	Winter	159	Sand flounder family	0
1985	3	Winter	161	Pipefish family	0
1985	3	Winter	162	Mackerel scad	0
1985	3	Winter	164	Cunner	0
1985	3	Winter	169	Gray snapper	0
1985	3	Winter	172	Bigeye scad	0
1985	3	Winter	173	Striped burrfish	0
1985	3	Winter	177	Spotfin butterflyfish	0
1985	3	Winter	179	Planehead filefish	0
1985	3	Winter	180	Atlantic cutlassfish	0
1985	3	Winter	181	Pigfish	0
1985	3	Winter	184	Freckled blenny	0
1985	3	Winter	187	Margined madtom	0
1985	3	Winter	205	Freshwater drum	0
1985	3	Winter	206	King mackerel	0
1985	3	Winter	209	Highfin goby	0
1985	3	Winter	213	Oyster toadfish	0
1985	3	Winter	754	Blue crab	
1985	3	Winter	999	All fish taxa	185,974.79
1985	3	Spring	1	Alewife	1,769
1985	3	Spring	2	Bay anchovy	3,082
1985	3	Spring	3	American shad	25
1985	3	Spring	4	Bluefish	0
1985	3	Spring	5	Bluegill	189
1985	3	Spring	6	Brown bullhead	26
1985	3	Spring	7	Pumpkinseed	73
1985	3	Spring	8	Black crappie	0
1985	3	Spring	9	Common carp	0
1985	3	Spring	10	American eel	850
1985	3	Spring	11	Goldfish	0
1985	3	Spring	12	Golden shiner	8

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	3	Spring	13	Hogchoker	11,180
1985	3	Spring	14	Tessellated darter	50
1985	3	Spring	15	Banded killifish	0
1985	3	Spring	16	Emerald shiner	0
1985	3	Spring	17	Largemouth bass	0
1985	3	Spring	18	Mummichog	0
1985	3	Spring	19	Atlantic menhaden	0
1985	3	Spring	21	Chain pickerel	0
1985	3	Spring	22	Blueback herring	2,834
1985	3	Spring	23	White sucker	0
1985	3	Spring	24	Atlantic silverside	0
1985	3	Spring	25	Rainbow smelt	224
1985	3	Spring	26	Smallmouth bass	0
1985	3	Spring	27	Shortnose sturgeon	0.00
1985	3	Spring	28	Spottail shiner	88
1985	3	Spring	29	Atlantic sturgeon	3.21
1985	3	Spring	30	Striped bass	1,543
1985	3	Spring	31	Fourspine stickleback	9
1985	3	Spring	32	Atlantic tomcod	8,146
1985	3	Spring	34	White catfish	133
1985	3	Spring	35	White perch	18,962
1985	3	Spring	36	Yellow perch	48
1985	3	Spring	37	Satinfin shiner	0
1985	3	Spring	38	Rock bass	0
1985	3	Spring	39	Northern pipefish	157
1985	3	Spring	40	Redbreast sunfish	0
1985	3	Spring	41	Atlantic needlefish	0
1985	3	Spring	42	Crevalle jack	0
1985	3	Spring	45	Weakfish	0
1985	3	Spring	47	Common shiner	0
1985	3	Spring	49	Lookdown	0
1985	3	Spring	50	Herring family	0
1985	3	Spring	54	Lined seahorse	17
1985	3	Spring	55	Logperch	0
1985	3	Spring	58	Fathead minnow	0
1985	3	Spring	59	Carp and minnow family	0
1985	3	Spring	60	Morone species	0
1985	3	Spring	62	Tautog	9
1985	3	Spring	63	Fourbeard rockling	0
1985	3	Spring	64	Striped cusk-eel	361
1985	3	Spring	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	3	Spring	68	Atlantic moonfish	0
1985	3	Spring	71	Scup	0
1985	3	Spring	72	Winter flounder	8
1985	3	Spring	73	Inland silverside	0
1985	3	Spring	74	Sea lamprey	0
1985	3	Spring	75	Gizzard shad	0
1985	3	Spring	76	Silver hake	86
1985	3	Spring	77	Striped mullet	0
1985	3	Spring	78	Threespine stickleback	49
1985	3	Spring	79	Brown trout	0
1985	3	Spring	80	Butterfish	107
1985	3	Spring	81	White crappie	0
1985	3	Spring	83	Northern pike	0
1985	3	Spring	84	Green sunfish	0
1985	3	Spring	85	Silver perch	0
1985	3	Spring	86	Northern puffer	0
1985	3	Spring	96	Sunfish family	0
1985	3	Spring	98	Red hake	0
1985	3	Spring	100	Central mudminnow	0
1985	3	Spring	101	Grubby	0
1985	3	Spring	102	Eastern mudminnow	0
1985	3	Spring	103	White bass	0
1985	3	Spring	104	Rough silverside	0
1985	3	Spring	105	Longear sunfish	0
1985	3	Spring	106	Summer flounder	0
1985	3	Spring	108	Creek chub	0
1985	3	Spring	109	Black bullhead	0
1985	3	Spring	110	Striped searobin	0
1985	3	Spring	111	Northern searobin	8
1985	3	Spring	113	Atlantic croaker	0
1985	3	Spring	114	Longhorn sculpin	0
1985	3	Spring	116	Hickory shad	0
1985	3	Spring	120	Conger eel	0
1985	3	Spring	122	Warmouth	0
1985	3	Spring	125	White mullet	0
1985	3	Spring	126	Yellow bullhead	0
1985	3	Spring	127	Channel catfish	0
1985	3	Spring	130	Naked goby	0
1985	3	Spring	132	Windowpane	639
1985	3	Spring	133	Spotted hake	92
1985	3	Spring	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	3	Spring	137	American sand lance	0
1985	3	Spring	139	Fourspot flounder	18
1985	3	Spring	140	Atlantic mackerel	0
1985	3	Spring	141	Black sea bass	0
1985	3	Spring	142	Smallmouth flounder	0
1985	3	Spring	143	Rock gunnel	0
1985	3	Spring	144	Inshore lizardfish	0
1985	3	Spring	146	Silver lamprey	0
1985	3	Spring	150	Goby family	0
1985	3	Spring	157	New World silverside family	0
1985	3	Spring	159	Sand flounder family	27
1985	3	Spring	161	Pipefish family	0
1985	3	Spring	162	Mackerel scad	0
1985	3	Spring	164	Cunner	9
1985	3	Spring	169	Gray snapper	0
1985	3	Spring	172	Bigeye scad	0
1985	3	Spring	173	Striped burrfish	0
1985	3	Spring	177	Spotfin butterflyfish	0
1985	3	Spring	179	Planehead filefish	0
1985	3	Spring	180	Atlantic cutlassfish	0
1985	3	Spring	181	Pigfish	0
1985	3	Spring	184	Freckled blenny	0
1985	3	Spring	187	Margined madtom	0
1985	3	Spring	205	Freshwater drum	0
1985	3	Spring	206	King mackerel	0
1985	3	Spring	209	Highfin goby	0
1985	3	Spring	213	Oyster toadfish	0
1985	3	Spring	754	Blue crab	416
1985	3	Spring	999	All fish taxa	50,828.21
1985	3	Summer	1	Alewife	0
1985	3	Summer	2	Bay anchovy	0
1985	3	Summer	3	American shad	0
1985	3	Summer	4	Bluefish	0
1985	3	Summer	5	Bluegill	0
1985	3	Summer	6	Brown bullhead	0
1985	3	Summer	7	Pumpkinseed	0
1985	3	Summer	8	Black crappie	0
1985	3	Summer	9	Common carp	0
1985	3	Summer	10	American eel	0
1985	3	Summer	11	Goldfish	0
1985	3	Summer	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	3	Summer	13	Hogchoker	0
1985	3	Summer	14	Tessellated darter	0
1985	3	Summer	15	Banded killifish	0
1985	3	Summer	16	Emerald shiner	0
1985	3	Summer	17	Largemouth bass	0
1985	3	Summer	18	Mummichog	0
1985	3	Summer	19	Atlantic menhaden	0
1985	3	Summer	21	Chain pickerel	0
1985	3	Summer	22	Blueback herring	0
1985	3	Summer	23	White sucker	0
1985	3	Summer	24	Atlantic silverside	0
1985	3	Summer	25	Rainbow smelt	0
1985	3	Summer	26	Smallmouth bass	0
1985	3	Summer	27	Shortnose sturgeon	0.00
1985	3	Summer	28	Spottail shiner	0
1985	3	Summer	29	Atlantic sturgeon	0.00
1985	3	Summer	30	Striped bass	0
1985	3	Summer	31	Fourspine stickleback	0
1985	3	Summer	32	Atlantic tomcod	0
1985	3	Summer	34	White catfish	0
1985	3	Summer	35	White perch	7
1985	3	Summer	36	Yellow perch	0
1985	3	Summer	37	Satinfin shiner	0
1985	3	Summer	38	Rock bass	0
1985	3	Summer	39	Northern pipefish	0
1985	3	Summer	40	Redbreast sunfish	0
1985	3	Summer	41	Atlantic needlefish	0
1985	3	Summer	42	Crevalle jack	0
1985	3	Summer	45	Weakfish	0
1985	3	Summer	47	Common shiner	0
1985	3	Summer	49	Lookdown	0
1985	3	Summer	50	Herring family	0
1985	3	Summer	54	Lined seahorse	0
1985	3	Summer	55	Logperch	0
1985	3	Summer	58	Fathead minnow	0
1985	3	Summer	59	Carp and minnow family	0
1985	3	Summer	60	Morone species	0
1985	3	Summer	62	Tautog	0
1985	3	Summer	63	Fourbeard rockling	0
1985	3	Summer	64	Striped cusk-eel	0
1985	3	Summer	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	3	Summer	68	Atlantic moonfish	0
1985	3	Summer	71	Scup	0
1985	3	Summer	72	Winter flounder	0
1985	3	Summer	73	Inland silverside	0
1985	3	Summer	74	Sea lamprey	0
1985	3	Summer	75	Gizzard shad	0
1985	3	Summer	76	Silver hake	0
1985	3	Summer	77	Striped mullet	0
1985	3	Summer	78	Threespine stickleback	0
1985	3	Summer	79	Brown trout	0
1985	3	Summer	80	Butterfish	0
1985	3	Summer	81	White crappie	0
1985	3	Summer	83	Northern pike	0
1985	3	Summer	84	Green sunfish	0
1985	3	Summer	85	Silver perch	0
1985	3	Summer	86	Northern puffer	0
1985	3	Summer	96	Sunfish family	0
1985	3	Summer	98	Red hake	0
1985	3	Summer	100	Central mudminnow	0
1985	3	Summer	101	Grubby	0
1985	3	Summer	102	Eastern mudminnow	0
1985	3	Summer	103	White bass	0
1985	3	Summer	104	Rough silverside	0
1985	3	Summer	105	Longear sunfish	0
1985	3	Summer	106	Summer flounder	0
1985	3	Summer	108	Creek chub	0
1985	3	Summer	109	Black bullhead	0
1985	3	Summer	110	Striped searobin	0
1985	3	Summer	111	Northern searobin	0
1985	3	Summer	113	Atlantic croaker	0
1985	3	Summer	114	Longhorn sculpin	0
1985	3	Summer	116	Hickory shad	0
1985	3	Summer	120	Conger eel	0
1985	3	Summer	122	Warmouth	0
1985	3	Summer	125	White mullet	0
1985	3	Summer	126	Yellow bullhead	0
1985	3	Summer	127	Channel catfish	0
1985	3	Summer	130	Naked goby	0
1985	3	Summer	132	Windowpane	0
1985	3	Summer	133	Spotted hake	0
1985	3	Summer	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	3	Summer	137	American sand lance	0
1985	3	Summer	139	Fourspot flounder	0
1985	3	Summer	140	Atlantic mackerel	0
1985	3	Summer	141	Black sea bass	0
1985	3	Summer	142	Smallmouth flounder	0
1985	3	Summer	143	Rock gunnel	0
1985	3	Summer	144	Inshore lizardfish	0
1985	3	Summer	146	Silver lamprey	0
1985	3	Summer	150	Goby family	0
1985	3	Summer	157	New World silverside family	0
1985	3	Summer	159	Sand flounder family	0
1985	3	Summer	161	Pipefish family	0
1985	3	Summer	162	Mackerel scad	0
1985	3	Summer	164	Cunner	0
1985	3	Summer	169	Gray snapper	0
1985	3	Summer	172	Bigeye scad	0
1985	3	Summer	173	Striped burrfish	0
1985	3	Summer	177	Spotfin butterflyfish	0
1985	3	Summer	179	Planehead filefish	0
1985	3	Summer	180	Atlantic cutlassfish	0
1985	3	Summer	181	Pigfish	0
1985	3	Summer	184	Freckled blenny	0
1985	3	Summer	187	Margined madtom	0
1985	3	Summer	205	Freshwater drum	0
1985	3	Summer	206	King mackerel	0
1985	3	Summer	209	Highfin goby	0
1985	3	Summer	213	Oyster toadfish	0
1985	3	Summer	754	Blue crab	4
1985	3	Summer	999	All fish taxa	7.00
1985	3	Fall	1	Alewife	587
1985	3	Fall	2	Bay anchovy	1,638
1985	3	Fall	3	American shad	1,624
1985	3	Fall	4	Bluefish	27
1985	3	Fall	5	Bluegill	147
1985	3	Fall	6	Brown bullhead	0
1985	3	Fall	7	Pumpkinseed	109
1985	3	Fall	8	Black crappie	46
1985	3	Fall	9	Common carp	34
1985	3	Fall	10	American eel	190
1985	3	Fall	11	Goldfish	0
1985	3	Fall	12	Golden shiner	12

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	3	Fall	13	Hogchoker	1,414
1985	3	Fall	14	Tessellated darter	12
1985	3	Fall	15	Banded killifish	97
1985	3	Fall	16	Emerald shiner	0
1985	3	Fall	17	Largemouth bass	12
1985	3	Fall	18	Mummichog	0
1985	3	Fall	19	Atlantic menhaden	47
1985	3	Fall	21	Chain pickerel	0
1985	3	Fall	22	Blueback herring	44,589
1985	3	Fall	23	White sucker	0
1985	3	Fall	24	Atlantic silverside	6
1985	3	Fall	25	Rainbow smelt	134
1985	3	Fall	26	Smallmouth bass	0
1985	3	Fall	27	Shortnose sturgeon	0.00
1985	3	Fall	28	Spottail shiner	133
1985	3	Fall	29	Atlantic sturgeon	0.00
1985	3	Fall	30	Striped bass	779
1985	3	Fall	31	Fourspine stickleback	0
1985	3	Fall	32	Atlantic tomcod	282
1985	3	Fall	34	White catfish	243
1985	3	Fall	35	White perch	68,538
1985	3	Fall	36	Yellow perch	6
1985	3	Fall	37	Satinfin shiner	0
1985	3	Fall	38	Rock bass	0
1985	3	Fall	39	Northern pipefish	257
1985	3	Fall	40	Redbreast sunfish	0
1985	3	Fall	41	Atlantic needlefish	0
1985	3	Fall	42	Crevalle jack	92
1985	3	Fall	45	Weakfish	510
1985	3	Fall	47	Common shiner	0
1985	3	Fall	49	Lookdown	26
1985	3	Fall	50	Herring family	0
1985	3	Fall	54	Lined seahorse	0
1985	3	Fall	55	Logperch	0
1985	3	Fall	58	Fathead minnow	0
1985	3	Fall	59	Carp and minnow family	0
1985	3	Fall	60	Morone species	0
1985	3	Fall	62	Tautog	0
1985	3	Fall	63	Fourbeard rockling	0
1985	3	Fall	64	Striped cusk-eel	0
1985	3	Fall	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	3	Fall	68	Atlantic moonfish	91
1985	3	Fall	71	Scup	0
1985	3	Fall	72	Winter flounder	0
1985	3	Fall	73	Inland silverside	0
1985	3	Fall	74	Sea lamprey	0
1985	3	Fall	75	Gizzard shad	2,686
1985	3	Fall	76	Silver hake	33
1985	3	Fall	77	Striped mullet	0
1985	3	Fall	78	Threespine stickleback	0
1985	3	Fall	79	Brown trout	0
1985	3	Fall	80	Butterfish	27
1985	3	Fall	81	White crappie	0
1985	3	Fall	83	Northern pike	0
1985	3	Fall	84	Green sunfish	0
1985	3	Fall	85	Silver perch	13
1985	3	Fall	86	Northern puffer	0
1985	3	Fall	96	Sunfish family	0
1985	3	Fall	98	Red hake	6
1985	3	Fall	100	Central mudminnow	0
1985	3	Fall	101	Grubby	0
1985	3	Fall	102	Eastern mudminnow	0
1985	3	Fall	103	White bass	0
1985	3	Fall	104	Rough silverside	0
1985	3	Fall	105	Longear sunfish	0
1985	3	Fall	106	Summer flounder	13
1985	3	Fall	108	Creek chub	0
1985	3	Fall	109	Black bullhead	0
1985	3	Fall	110	Striped searobin	26
1985	3	Fall	111	Northern searobin	0
1985	3	Fall	113	Atlantic croaker	0
1985	3	Fall	114	Longhorn sculpin	0
1985	3	Fall	116	Hickory shad	0
1985	3	Fall	120	Conger eel	0
1985	3	Fall	122	Warmouth	0
1985	3	Fall	125	White mullet	0
1985	3	Fall	126	Yellow bullhead	0
1985	3	Fall	127	Channel catfish	0
1985	3	Fall	130	Naked goby	7
1985	3	Fall	132	Windowpane	0
1985	3	Fall	133	Spotted hake	0
1985	3	Fall	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1985	3	Fall	137	American sand lance	0
1985	3	Fall	139	Fourspot flounder	0
1985	3	Fall	140	Atlantic mackerel	0
1985	3	Fall	141	Black sea bass	26
1985	3	Fall	142	Smallmouth flounder	0
1985	3	Fall	143	Rock gunnel	0
1985	3	Fall	144	Inshore lizardfish	0
1985	3	Fall	146	Silver lamprey	0
1985	3	Fall	150	Goby family	0
1985	3	Fall	157	New World silverside family	0
1985	3	Fall	159	Sand flounder family	0
1985	3	Fall	161	Pipefish family	0
1985	3	Fall	162	Mackerel scad	0
1985	3	Fall	164	Cunner	0
1985	3	Fall	169	Gray snapper	38
1985	3	Fall	172	Bigeye scad	0
1985	3	Fall	173	Striped burrfish	0
1985	3	Fall	177	Spotfin butterflyfish	0
1985	3	Fall	179	Planehead filefish	0
1985	3	Fall	180	Atlantic cutlassfish	0
1985	3	Fall	181	Pigfish	7
1985	3	Fall	184	Freckled blenny	0
1985	3	Fall	187	Margined madtom	0
1985	3	Fall	205	Freshwater drum	0
1985	3	Fall	206	King mackerel	0
1985	3	Fall	209	Highfin goby	0
1985	3	Fall	213	Oyster toadfish	0
1985	3	Fall	754	Blue crab	91
1985	3	Fall	999	All fish taxa	124,560.00
1986	2	Winter	1	Alewife	6
1986	2	Winter	2	Bay anchovy	0
1986	2	Winter	3	American shad	6
1986	2	Winter	4	Bluefish	9
1986	2	Winter	5	Bluegill	27
1986	2	Winter	6	Brown bullhead	27
1986	2	Winter	7	Pumpkinseed	271
1986	2	Winter	8	Black crappie	6
1986	2	Winter	9	Common carp	18
1986	2	Winter	10	American eel	157
1986	2	Winter	11	Goldfish	15
1986	2	Winter	12	Golden shiner	38

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	2	Winter	13	Hogchoker	1,196
1986	2	Winter	14	Tessellated darter	3
1986	2	Winter	15	Banded killifish	180
1986	2	Winter	16	Emerald shiner	0
1986	2	Winter	17	Largemouth bass	3
1986	2	Winter	18	Mummichog	6
1986	2	Winter	19	Atlantic menhaden	0
1986	2	Winter	21	Chain pickerel	0
1986	2	Winter	22	Blueback herring	12
1986	2	Winter	23	White sucker	0
1986	2	Winter	24	Atlantic silverside	6
1986	2	Winter	25	Rainbow smelt	466
1986	2	Winter	26	Smallmouth bass	0
1986	2	Winter	27	Shortnose sturgeon	0.00
1986	2	Winter	28	Spottail shiner	126
1986	2	Winter	29	Atlantic sturgeon	0.00
1986	2	Winter	30	Striped bass	2,259
1986	2	Winter	31	Fourspine stickleback	0
1986	2	Winter	32	Atlantic tomcod	93
1986	2	Winter	34	White catfish	446
1986	2	Winter	35	White perch	143,528
1986	2	Winter	36	Yellow perch	59
1986	2	Winter	37	Satinfin shiner	0
1986	2	Winter	38	Rock bass	0
1986	2	Winter	39	Northern pipefish	0
1986	2	Winter	40	Redbreast sunfish	0
1986	2	Winter	41	Atlantic needlefish	0
1986	2	Winter	42	Creville jack	0
1986	2	Winter	45	Weakfish	0
1986	2	Winter	47	Common shiner	0
1986	2	Winter	49	Lookdown	0
1986	2	Winter	50	Herring family	0
1986	2	Winter	54	Lined seahorse	0
1986	2	Winter	55	Logperch	0
1986	2	Winter	58	Fathead minnow	0
1986	2	Winter	59	Carp and minnow family	0
1986	2	Winter	60	Morone species	0
1986	2	Winter	62	Tautog	0
1986	2	Winter	63	Fourbeard rockling	0
1986	2	Winter	64	Striped cusk-eel	0
1986	2	Winter	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	2	Winter	68	Atlantic moonfish	0
1986	2	Winter	71	Scup	0
1986	2	Winter	72	Winter flounder	3
1986	2	Winter	73	Inland silverside	0
1986	2	Winter	74	Sea lamprey	6
1986	2	Winter	75	Gizzard shad	1,548
1986	2	Winter	76	Silver hake	0
1986	2	Winter	77	Striped mullet	6
1986	2	Winter	78	Threespine stickleback	25
1986	2	Winter	79	Brown trout	0
1986	2	Winter	80	Butterfish	0
1986	2	Winter	81	White crappie	0
1986	2	Winter	83	Northern pike	3
1986	2	Winter	84	Green sunfish	0
1986	2	Winter	85	Silver perch	0
1986	2	Winter	86	Northern puffer	0
1986	2	Winter	96	Sunfish family	0
1986	2	Winter	98	Red hake	0
1986	2	Winter	100	Central mudminnow	0
1986	2	Winter	101	Grubby	0
1986	2	Winter	102	Eastern mudminnow	0
1986	2	Winter	103	White bass	0
1986	2	Winter	104	Rough silverside	0
1986	2	Winter	105	Longear sunfish	0
1986	2	Winter	106	Summer flounder	0
1986	2	Winter	108	Creek chub	0
1986	2	Winter	109	Black bullhead	0
1986	2	Winter	110	Striped searobin	0
1986	2	Winter	111	Northern searobin	0
1986	2	Winter	113	Atlantic croaker	0
1986	2	Winter	114	Longhorn sculpin	0
1986	2	Winter	116	Hickory shad	0
1986	2	Winter	120	Conger eel	0
1986	2	Winter	122	Warmouth	0
1986	2	Winter	125	White mullet	0
1986	2	Winter	126	Yellow bullhead	0
1986	2	Winter	127	Channel catfish	0
1986	2	Winter	130	Naked goby	6
1986	2	Winter	132	Windowpane	0
1986	2	Winter	133	Spotted hake	0
1986	2	Winter	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	2	Winter	137	American sand lance	0
1986	2	Winter	139	Fourspot flounder	0
1986	2	Winter	140	Atlantic mackerel	0
1986	2	Winter	141	Black sea bass	0
1986	2	Winter	142	Smallmouth flounder	0
1986	2	Winter	143	Rock gunnel	0
1986	2	Winter	144	Inshore lizardfish	0
1986	2	Winter	146	Silver lamprey	0
1986	2	Winter	150	Goby family	0
1986	2	Winter	157	New World silverside family	0
1986	2	Winter	159	Sand flounder family	0
1986	2	Winter	161	Pipefish family	0
1986	2	Winter	162	Mackerel scad	0
1986	2	Winter	164	Cunner	0
1986	2	Winter	169	Gray snapper	0
1986	2	Winter	172	Bigeye scad	0
1986	2	Winter	173	Striped burrfish	0
1986	2	Winter	177	Spotfin butterflyfish	0
1986	2	Winter	179	Planehead filefish	0
1986	2	Winter	180	Atlantic cutlassfish	0
1986	2	Winter	181	Pigfish	0
1986	2	Winter	184	Freckled blenny	0
1986	2	Winter	187	Margined madtom	0
1986	2	Winter	205	Freshwater drum	0
1986	2	Winter	206	King mackerel	0
1986	2	Winter	209	Highfin goby	0
1986	2	Winter	213	Oyster toadfish	0
1986	2	Winter	754	Blue crab	2
1986	2	Winter	999	All fish taxa	150,561.00
1986	2	Spring	1	Alewife	560
1986	2	Spring	2	Bay anchovy	27,814
1986	2	Spring	3	American shad	942
1986	2	Spring	4	Bluefish	513
1986	2	Spring	5	Bluegill	219
1986	2	Spring	6	Brown bullhead	51
1986	2	Spring	7	Pumpkinseed	51
1986	2	Spring	8	Black crappie	0
1986	2	Spring	9	Common carp	0
1986	2	Spring	10	American eel	711
1986	2	Spring	11	Goldfish	0
1986	2	Spring	12	Golden shiner	25

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	2	Spring	13	Hogchoker	9,139
1986	2	Spring	14	Tessellated darter	0
1986	2	Spring	15	Banded killifish	103
1986	2	Spring	16	Emerald shiner	0
1986	2	Spring	17	Largemouth bass	27
1986	2	Spring	18	Mummichog	0
1986	2	Spring	19	Atlantic menhaden	5,149
1986	2	Spring	21	Chain pickerel	0
1986	2	Spring	22	Blueback herring	1,289
1986	2	Spring	23	White sucker	0
1986	2	Spring	24	Atlantic silverside	0
1986	2	Spring	25	Rainbow smelt	5,626
1986	2	Spring	26	Smallmouth bass	0
1986	2	Spring	27	Shortnose sturgeon	0.00
1986	2	Spring	28	Spottail shiner	0
1986	2	Spring	29	Atlantic sturgeon	0.00
1986	2	Spring	30	Striped bass	458
1986	2	Spring	31	Fourspine stickleback	80
1986	2	Spring	32	Atlantic tomcod	21,129
1986	2	Spring	34	White catfish	102
1986	2	Spring	35	White perch	9,357
1986	2	Spring	36	Yellow perch	0
1986	2	Spring	37	Satinfin shiner	0
1986	2	Spring	38	Rock bass	0
1986	2	Spring	39	Northern pipefish	19
1986	2	Spring	40	Redbreast sunfish	0
1986	2	Spring	41	Atlantic needlefish	0
1986	2	Spring	42	Crevalle jack	0
1986	2	Spring	45	Weakfish	0
1986	2	Spring	47	Common shiner	0
1986	2	Spring	49	Lookdown	0
1986	2	Spring	50	Herring family	322
1986	2	Spring	54	Lined seahorse	0
1986	2	Spring	55	Logperch	0
1986	2	Spring	58	Fathead minnow	0
1986	2	Spring	59	Carp and minnow family	0
1986	2	Spring	60	Morone species	0
1986	2	Spring	62	Tautog	0
1986	2	Spring	63	Fourbeard rockling	0
1986	2	Spring	64	Striped cusk-eel	0
1986	2	Spring	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	2	Spring	68	Atlantic moonfish	0
1986	2	Spring	71	Scup	0
1986	2	Spring	72	Winter flounder	0
1986	2	Spring	73	Inland silverside	0
1986	2	Spring	74	Sea lamprey	0
1986	2	Spring	75	Gizzard shad	0
1986	2	Spring	76	Silver hake	0
1986	2	Spring	77	Striped mullet	0
1986	2	Spring	78	Threespine stickleback	0
1986	2	Spring	79	Brown trout	0
1986	2	Spring	80	Butterfish	0
1986	2	Spring	81	White crappie	0
1986	2	Spring	83	Northern pike	0
1986	2	Spring	84	Green sunfish	0
1986	2	Spring	85	Silver perch	0
1986	2	Spring	86	Northern puffer	0
1986	2	Spring	96	Sunfish family	0
1986	2	Spring	98	Red hake	0
1986	2	Spring	100	Central mudminnow	0
1986	2	Spring	101	Grubby	0
1986	2	Spring	102	Eastern mudminnow	0
1986	2	Spring	103	White bass	0
1986	2	Spring	104	Rough silverside	0
1986	2	Spring	105	Longear sunfish	0
1986	2	Spring	106	Summer flounder	3,109
1986	2	Spring	108	Creek chub	0
1986	2	Spring	109	Black bullhead	0
1986	2	Spring	110	Striped searobin	0
1986	2	Spring	111	Northern searobin	0
1986	2	Spring	113	Atlantic croaker	26
1986	2	Spring	114	Longhorn sculpin	0
1986	2	Spring	116	Hickory shad	0
1986	2	Spring	120	Conger eel	0
1986	2	Spring	122	Warmouth	0
1986	2	Spring	125	White mullet	0
1986	2	Spring	126	Yellow bullhead	0
1986	2	Spring	127	Channel catfish	0
1986	2	Spring	130	Naked goby	0
1986	2	Spring	132	Windowpane	0
1986	2	Spring	133	Spotted hake	0
1986	2	Spring	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	2	Spring	137	American sand lance	0
1986	2	Spring	139	Fourspot flounder	0
1986	2	Spring	140	Atlantic mackerel	0
1986	2	Spring	141	Black sea bass	0
1986	2	Spring	142	Smallmouth flounder	0
1986	2	Spring	143	Rock gunnel	0
1986	2	Spring	144	Inshore lizardfish	0
1986	2	Spring	146	Silver lamprey	0
1986	2	Spring	150	Goby family	0
1986	2	Spring	157	New World silverside family	0
1986	2	Spring	159	Sand flounder family	0
1986	2	Spring	161	Pipefish family	0
1986	2	Spring	162	Mackerel scad	0
1986	2	Spring	164	Cunner	0
1986	2	Spring	169	Gray snapper	0
1986	2	Spring	172	Bigeye scad	0
1986	2	Spring	173	Striped burrfish	0
1986	2	Spring	177	Spotfin butterflyfish	0
1986	2	Spring	179	Planehead filefish	0
1986	2	Spring	180	Atlantic cutlassfish	0
1986	2	Spring	181	Pigfish	0
1986	2	Spring	184	Freckled blenny	0
1986	2	Spring	187	Margined madtom	0
1986	2	Spring	205	Freshwater drum	0
1986	2	Spring	206	King mackerel	0
1986	2	Spring	209	Highfin goby	0
1986	2	Spring	213	Oyster toadfish	0
1986	2	Spring	754	Blue crab	158
1986	2	Spring	999	All fish taxa	86,820.00
1986	2	Summer	1	Alewife	1,286
1986	2	Summer	2	Bay anchovy	52,688
1986	2	Summer	3	American shad	4,259
1986	2	Summer	4	Bluefish	3,507
1986	2	Summer	5	Bluegill	399
1986	2	Summer	6	Brown bullhead	82
1986	2	Summer	7	Pumpkinseed	109
1986	2	Summer	8	Black crappie	0
1986	2	Summer	9	Common carp	0
1986	2	Summer	10	American eel	836
1986	2	Summer	11	Goldfish	0
1986	2	Summer	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	2	Summer	13	Hogchoker	32,021
1986	2	Summer	14	Tessellated darter	0
1986	2	Summer	15	Banded killifish	138
1986	2	Summer	16	Emerald shiner	0
1986	2	Summer	17	Largemouth bass	0
1986	2	Summer	18	Mummichog	0
1986	2	Summer	19	Atlantic menhaden	1,169
1986	2	Summer	21	Chain pickerel	0
1986	2	Summer	22	Blueback herring	733
1986	2	Summer	23	White sucker	0
1986	2	Summer	24	Atlantic silverside	0
1986	2	Summer	25	Rainbow smelt	3,708
1986	2	Summer	26	Smallmouth bass	0
1986	2	Summer	27	Shortnose sturgeon	0.00
1986	2	Summer	28	Spottail shiner	0
1986	2	Summer	29	Atlantic sturgeon	3.32
1986	2	Summer	30	Striped bass	4,288
1986	2	Summer	31	Fourspine stickleback	0
1986	2	Summer	32	Atlantic tomcod	92,126
1986	2	Summer	34	White catfish	321
1986	2	Summer	35	White perch	35,293
1986	2	Summer	36	Yellow perch	0
1986	2	Summer	37	Satinfin shiner	0
1986	2	Summer	38	Rock bass	0
1986	2	Summer	39	Northern pipefish	30
1986	2	Summer	40	Redbreast sunfish	102
1986	2	Summer	41	Atlantic needlefish	30
1986	2	Summer	42	Crevalle jack	0
1986	2	Summer	45	Weakfish	6,230
1986	2	Summer	47	Common shiner	0
1986	2	Summer	49	Lookdown	26
1986	2	Summer	50	Herring family	0
1986	2	Summer	54	Lined seahorse	0
1986	2	Summer	55	Logperch	0
1986	2	Summer	58	Fathead minnow	0
1986	2	Summer	59	Carp and minnow family	0
1986	2	Summer	60	Morone species	0
1986	2	Summer	62	Tautog	0
1986	2	Summer	63	Fourbeard rockling	0
1986	2	Summer	64	Striped cusk-eel	0
1986	2	Summer	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	2	Summer	68	Atlantic moonfish	0
1986	2	Summer	71	Scup	0
1986	2	Summer	72	Winter flounder	26
1986	2	Summer	73	Inland silverside	27
1986	2	Summer	74	Sea lamprey	27
1986	2	Summer	75	Gizzard shad	0
1986	2	Summer	76	Silver hake	0
1986	2	Summer	77	Striped mullet	0
1986	2	Summer	78	Threespine stickleback	0
1986	2	Summer	79	Brown trout	0
1986	2	Summer	80	Butterfish	136
1986	2	Summer	81	White crappie	0
1986	2	Summer	83	Northern pike	0
1986	2	Summer	84	Green sunfish	0
1986	2	Summer	85	Silver perch	0
1986	2	Summer	86	Northern puffer	0
1986	2	Summer	96	Sunfish family	0
1986	2	Summer	98	Red hake	0
1986	2	Summer	100	Central mudminnow	0
1986	2	Summer	101	Grubby	0
1986	2	Summer	102	Eastern mudminnow	0
1986	2	Summer	103	White bass	0
1986	2	Summer	104	Rough silverside	26
1986	2	Summer	105	Longear sunfish	0
1986	2	Summer	106	Summer flounder	1,174
1986	2	Summer	108	Creek chub	0
1986	2	Summer	109	Black bullhead	0
1986	2	Summer	110	Striped searobin	0
1986	2	Summer	111	Northern searobin	0
1986	2	Summer	113	Atlantic croaker	0
1986	2	Summer	114	Longhorn sculpin	0
1986	2	Summer	116	Hickory shad	26
1986	2	Summer	120	Conger eel	0
1986	2	Summer	122	Warmouth	0
1986	2	Summer	125	White mullet	0
1986	2	Summer	126	Yellow bullhead	0
1986	2	Summer	127	Channel catfish	0
1986	2	Summer	130	Naked goby	0
1986	2	Summer	132	Windowpane	0
1986	2	Summer	133	Spotted hake	0
1986	2	Summer	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	2	Summer	137	American sand lance	0
1986	2	Summer	139	Fourspot flounder	0
1986	2	Summer	140	Atlantic mackerel	0
1986	2	Summer	141	Black sea bass	0
1986	2	Summer	142	Smallmouth flounder	0
1986	2	Summer	143	Rock gunnel	0
1986	2	Summer	144	Inshore lizardfish	0
1986	2	Summer	146	Silver lamprey	0
1986	2	Summer	150	Goby family	0
1986	2	Summer	157	New World silverside family	26
1986	2	Summer	159	Sand flounder family	0
1986	2	Summer	161	Pipefish family	0
1986	2	Summer	162	Mackerel scad	0
1986	2	Summer	164	Cunner	0
1986	2	Summer	169	Gray snapper	0
1986	2	Summer	172	Bigeye scad	0
1986	2	Summer	173	Striped burrfish	0
1986	2	Summer	177	Spotfin butterflyfish	0
1986	2	Summer	179	Planehead filefish	0
1986	2	Summer	180	Atlantic cutlassfish	0
1986	2	Summer	181	Pigfish	0
1986	2	Summer	184	Freckled blenny	0
1986	2	Summer	187	Margined madtom	0
1986	2	Summer	205	Freshwater drum	0
1986	2	Summer	206	King mackerel	0
1986	2	Summer	209	Highfin goby	0
1986	2	Summer	213	Oyster toadfish	0
1986	2	Summer	754	Blue crab	4,138
1986	2	Summer	999	All fish taxa	240,855.32
1986	2	Fall	1	Alewife	173
1986	2	Fall	2	Bay anchovy	4,992
1986	2	Fall	3	American shad	1,216
1986	2	Fall	4	Bluefish	15
1986	2	Fall	5	Bluegill	683
1986	2	Fall	6	Brown bullhead	55
1986	2	Fall	7	Pumpkinseed	2,557
1986	2	Fall	8	Black crappie	9
1986	2	Fall	9	Common carp	44
1986	2	Fall	10	American eel	497
1986	2	Fall	11	Goldfish	12
1986	2	Fall	12	Golden shiner	5

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	2	Fall	13	Hogchoker	8,096
1986	2	Fall	14	Tessellated darter	153
1986	2	Fall	15	Banded killifish	3,107
1986	2	Fall	16	Emerald shiner	0
1986	2	Fall	17	Largemouth bass	40
1986	2	Fall	18	Mummichog	0
1986	2	Fall	19	Atlantic menhaden	53
1986	2	Fall	21	Chain pickerel	0
1986	2	Fall	22	Blueback herring	5,185
1986	2	Fall	23	White sucker	0
1986	2	Fall	24	Atlantic silverside	29
1986	2	Fall	25	Rainbow smelt	1,080
1986	2	Fall	26	Smallmouth bass	0
1986	2	Fall	27	Shortnose sturgeon	0.00
1986	2	Fall	28	Spottail shiner	465
1986	2	Fall	29	Atlantic sturgeon	2.22
1986	2	Fall	30	Striped bass	1,412
1986	2	Fall	31	Fourspine stickleback	119
1986	2	Fall	32	Atlantic tomcod	4,030
1986	2	Fall	34	White catfish	1,530
1986	2	Fall	35	White perch	221,426
1986	2	Fall	36	Yellow perch	310
1986	2	Fall	37	Satinfin shiner	0
1986	2	Fall	38	Rock bass	0
1986	2	Fall	39	Northern pipefish	22
1986	2	Fall	40	Redbreast sunfish	215
1986	2	Fall	41	Atlantic needlefish	0
1986	2	Fall	42	Crevalle jack	77
1986	2	Fall	45	Weakfish	361
1986	2	Fall	47	Common shiner	0
1986	2	Fall	49	Lookdown	18
1986	2	Fall	50	Herring family	22
1986	2	Fall	54	Lined seahorse	0
1986	2	Fall	55	Logperch	70
1986	2	Fall	58	Fathead minnow	0
1986	2	Fall	59	Carp and minnow family	0
1986	2	Fall	60	Morone species	0
1986	2	Fall	62	Tautog	0
1986	2	Fall	63	Fourbeard rockling	0
1986	2	Fall	64	Striped cusk-eel	0
1986	2	Fall	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	2	Fall	68	Atlantic moonfish	0
1986	2	Fall	71	Scup	0
1986	2	Fall	72	Winter flounder	3
1986	2	Fall	73	Inland silverside	15
1986	2	Fall	74	Sea lamprey	5
1986	2	Fall	75	Gizzard shad	225
1986	2	Fall	76	Silver hake	0
1986	2	Fall	77	Striped mullet	0
1986	2	Fall	78	Threespine stickleback	0
1986	2	Fall	79	Brown trout	0
1986	2	Fall	80	Butterfish	0
1986	2	Fall	81	White crappie	0
1986	2	Fall	83	Northern pike	0
1986	2	Fall	84	Green sunfish	0
1986	2	Fall	85	Silver perch	0
1986	2	Fall	86	Northern puffer	0
1986	2	Fall	96	Sunfish family	0
1986	2	Fall	98	Red hake	0
1986	2	Fall	100	Central mudminnow	0
1986	2	Fall	101	Grubby	0
1986	2	Fall	102	Eastern mudminnow	0
1986	2	Fall	103	White bass	0
1986	2	Fall	104	Rough silverside	0
1986	2	Fall	105	Longear sunfish	0
1986	2	Fall	106	Summer flounder	121
1986	2	Fall	108	Creek chub	0
1986	2	Fall	109	Black bullhead	0
1986	2	Fall	110	Striped searobin	3
1986	2	Fall	111	Northern searobin	0
1986	2	Fall	113	Atlantic croaker	4
1986	2	Fall	114	Longhorn sculpin	0
1986	2	Fall	116	Hickory shad	0
1986	2	Fall	120	Conger eel	0
1986	2	Fall	122	Warmouth	0
1986	2	Fall	125	White mullet	0
1986	2	Fall	126	Yellow bullhead	0
1986	2	Fall	127	Channel catfish	0
1986	2	Fall	130	Naked goby	81
1986	2	Fall	132	Windowpane	0
1986	2	Fall	133	Spotted hake	0
1986	2	Fall	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	2	Fall	137	American sand lance	0
1986	2	Fall	139	Fourspot flounder	0
1986	2	Fall	140	Atlantic mackerel	0
1986	2	Fall	141	Black sea bass	10
1986	2	Fall	142	Smallmouth flounder	0
1986	2	Fall	143	Rock gunnel	0
1986	2	Fall	144	Inshore lizardfish	0
1986	2	Fall	146	Silver lamprey	3
1986	2	Fall	150	Goby family	0
1986	2	Fall	157	New World silverside family	0
1986	2	Fall	159	Sand flounder family	0
1986	2	Fall	161	Pipefish family	0
1986	2	Fall	162	Mackerel scad	0
1986	2	Fall	164	Cunner	0
1986	2	Fall	169	Gray snapper	4
1986	2	Fall	172	Bigeye scad	0
1986	2	Fall	173	Striped burrfish	0
1986	2	Fall	177	Spotfin butterflyfish	0
1986	2	Fall	179	Planehead filefish	0
1986	2	Fall	180	Atlantic cutlassfish	0
1986	2	Fall	181	Pigfish	0
1986	2	Fall	184	Freckled blenny	0
1986	2	Fall	187	Margined madtom	0
1986	2	Fall	205	Freshwater drum	0
1986	2	Fall	206	King mackerel	0
1986	2	Fall	209	Highfin goby	0
1986	2	Fall	213	Oyster toadfish	3
1986	2	Fall	754	Blue crab	132
1986	2	Fall	999	All fish taxa	258,560.22
1986	3	Winter	1	Alewife	158
1986	3	Winter	2	Bay anchovy	0
1986	3	Winter	3	American shad	15
1986	3	Winter	4	Bluefish	0
1986	3	Winter	5	Bluegill	71
1986	3	Winter	6	Brown bullhead	37
1986	3	Winter	7	Pumpkinseed	839
1986	3	Winter	8	Black crappie	41
1986	3	Winter	9	Common carp	48
1986	3	Winter	10	American eel	284
1986	3	Winter	11	Goldfish	48
1986	3	Winter	12	Golden shiner	96

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	3	Winter	13	Hogchoker	1,006
1986	3	Winter	14	Tessellated darter	0
1986	3	Winter	15	Banded killifish	101
1986	3	Winter	16	Emerald shiner	0
1986	3	Winter	17	Largemouth bass	15
1986	3	Winter	18	Mummichog	4
1986	3	Winter	19	Atlantic menhaden	0
1986	3	Winter	21	Chain pickerel	0
1986	3	Winter	22	Blueback herring	22
1986	3	Winter	23	White sucker	4
1986	3	Winter	24	Atlantic silverside	4
1986	3	Winter	25	Rainbow smelt	445
1986	3	Winter	26	Smallmouth bass	0
1986	3	Winter	27	Shortnose sturgeon	0.00
1986	3	Winter	28	Spottail shiner	496
1986	3	Winter	29	Atlantic sturgeon	4.28
1986	3	Winter	30	Striped bass	1,590
1986	3	Winter	31	Fourspine stickleback	0
1986	3	Winter	32	Atlantic tomcod	528
1986	3	Winter	34	White catfish	626
1986	3	Winter	35	White perch	185,528
1986	3	Winter	36	Yellow perch	93
1986	3	Winter	37	Satinfin shiner	0
1986	3	Winter	38	Rock bass	0
1986	3	Winter	39	Northern pipefish	0
1986	3	Winter	40	Redbreast sunfish	0
1986	3	Winter	41	Atlantic needlefish	0
1986	3	Winter	42	Crevalle jack	0
1986	3	Winter	45	Weakfish	0
1986	3	Winter	47	Common shiner	0
1986	3	Winter	49	Lookdown	0
1986	3	Winter	50	Herring family	0
1986	3	Winter	54	Lined seahorse	0
1986	3	Winter	55	Logperch	0
1986	3	Winter	58	Fathead minnow	0
1986	3	Winter	59	Carp and minnow family	0
1986	3	Winter	60	Morone species	4
1986	3	Winter	62	Tautog	0
1986	3	Winter	63	Fourbeard rockling	0
1986	3	Winter	64	Striped cusk-eel	0
1986	3	Winter	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	3	Winter	68	Atlantic moonfish	0
1986	3	Winter	71	Scup	0
1986	3	Winter	72	Winter flounder	11
1986	3	Winter	73	Inland silverside	0
1986	3	Winter	74	Sea lamprey	4
1986	3	Winter	75	Gizzard shad	7,413
1986	3	Winter	76	Silver hake	0
1986	3	Winter	77	Striped mullet	4
1986	3	Winter	78	Threespine stickleback	111
1986	3	Winter	79	Brown trout	0
1986	3	Winter	80	Butterfish	0
1986	3	Winter	81	White crappie	0
1986	3	Winter	83	Northern pike	0
1986	3	Winter	84	Green sunfish	0
1986	3	Winter	85	Silver perch	0
1986	3	Winter	86	Northern puffer	0
1986	3	Winter	96	Sunfish family	0
1986	3	Winter	98	Red hake	41
1986	3	Winter	100	Central mudminnow	0
1986	3	Winter	101	Grubby	0
1986	3	Winter	102	Eastern mudminnow	0
1986	3	Winter	103	White bass	0
1986	3	Winter	104	Rough silverside	0
1986	3	Winter	105	Longear sunfish	0
1986	3	Winter	106	Summer flounder	0
1986	3	Winter	108	Creek chub	0
1986	3	Winter	109	Black bullhead	0
1986	3	Winter	110	Striped searobin	0
1986	3	Winter	111	Northern searobin	0
1986	3	Winter	113	Atlantic croaker	4
1986	3	Winter	114	Longhorn sculpin	0
1986	3	Winter	116	Hickory shad	0
1986	3	Winter	120	Conger eel	0
1986	3	Winter	122	Warmouth	0
1986	3	Winter	125	White mullet	0
1986	3	Winter	126	Yellow bullhead	0
1986	3	Winter	127	Channel catfish	0
1986	3	Winter	130	Naked goby	0
1986	3	Winter	132	Windowpane	0
1986	3	Winter	133	Spotted hake	0
1986	3	Winter	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	3	Winter	137	American sand lance	0
1986	3	Winter	139	Fourspot flounder	0
1986	3	Winter	140	Atlantic mackerel	0
1986	3	Winter	141	Black sea bass	0
1986	3	Winter	142	Smallmouth flounder	0
1986	3	Winter	143	Rock gunnel	0
1986	3	Winter	144	Inshore lizardfish	0
1986	3	Winter	146	Silver lamprey	0
1986	3	Winter	150	Goby family	0
1986	3	Winter	157	New World silverside family	0
1986	3	Winter	159	Sand flounder family	0
1986	3	Winter	161	Pipefish family	0
1986	3	Winter	162	Mackerel scad	0
1986	3	Winter	164	Cunner	0
1986	3	Winter	169	Gray snapper	0
1986	3	Winter	172	Bigeye scad	0
1986	3	Winter	173	Striped burrfish	0
1986	3	Winter	177	Spotfin butterflyfish	0
1986	3	Winter	179	Planehead filefish	0
1986	3	Winter	180	Atlantic cutlassfish	0
1986	3	Winter	181	Pigfish	0
1986	3	Winter	184	Freckled blenny	0
1986	3	Winter	187	Margined madtom	0
1986	3	Winter	205	Freshwater drum	0
1986	3	Winter	206	King mackerel	0
1986	3	Winter	209	Highfin goby	0
1986	3	Winter	213	Oyster toadfish	0
1986	3	Winter	754	Blue crab	2
1986	3	Winter	999	All fish taxa	199,689.28
1986	3	Spring	1	Alewife	653
1986	3	Spring	2	Bay anchovy	9,307
1986	3	Spring	3	American shad	222
1986	3	Spring	4	Bluefish	1,001
1986	3	Spring	5	Bluegill	22
1986	3	Spring	6	Brown bullhead	30
1986	3	Spring	7	Pumpkinseed	100
1986	3	Spring	8	Black crappie	0
1986	3	Spring	9	Common carp	0
1986	3	Spring	10	American eel	173
1986	3	Spring	11	Goldfish	8
1986	3	Spring	12	Golden shiner	34

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	3	Spring	13	Hogchoker	3,834
1986	3	Spring	14	Tessellated darter	0
1986	3	Spring	15	Banded killifish	31
1986	3	Spring	16	Emerald shiner	0
1986	3	Spring	17	Largemouth bass	0
1986	3	Spring	18	Mummichog	8
1986	3	Spring	19	Atlantic menhaden	1,729
1986	3	Spring	21	Chain pickerel	0
1986	3	Spring	22	Blueback herring	1,777
1986	3	Spring	23	White sucker	0
1986	3	Spring	24	Atlantic silverside	0
1986	3	Spring	25	Rainbow smelt	2,067
1986	3	Spring	26	Smallmouth bass	0
1986	3	Spring	27	Shortnose sturgeon	0.00
1986	3	Spring	28	Spottail shiner	20
1986	3	Spring	29	Atlantic sturgeon	0.00
1986	3	Spring	30	Striped bass	132
1986	3	Spring	31	Fourspine stickleback	7
1986	3	Spring	32	Atlantic tomcod	8,039
1986	3	Spring	34	White catfish	77
1986	3	Spring	35	White perch	32,653
1986	3	Spring	36	Yellow perch	84
1986	3	Spring	37	Satinfin shiner	0
1986	3	Spring	38	Rock bass	0
1986	3	Spring	39	Northern pipefish	34
1986	3	Spring	40	Redbreast sunfish	0
1986	3	Spring	41	Atlantic needlefish	0
1986	3	Spring	42	Crevalle jack	0
1986	3	Spring	45	Weakfish	0
1986	3	Spring	47	Common shiner	0
1986	3	Spring	49	Lookdown	0
1986	3	Spring	50	Herring family	24
1986	3	Spring	54	Lined seahorse	7
1986	3	Spring	55	Logperch	0
1986	3	Spring	58	Fathead minnow	0
1986	3	Spring	59	Carp and minnow family	0
1986	3	Spring	60	Morone species	0
1986	3	Spring	62	Tautog	8
1986	3	Spring	63	Fourbeard rockling	0
1986	3	Spring	64	Striped cusk-eel	0
1986	3	Spring	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	3	Spring	68	Atlantic moonfish	0
1986	3	Spring	71	Scup	0
1986	3	Spring	72	Winter flounder	0
1986	3	Spring	73	Inland silverside	16
1986	3	Spring	74	Sea lamprey	0
1986	3	Spring	75	Gizzard shad	0
1986	3	Spring	76	Silver hake	0
1986	3	Spring	77	Striped mullet	0
1986	3	Spring	78	Threespine stickleback	7
1986	3	Spring	79	Brown trout	0
1986	3	Spring	80	Butterfish	0
1986	3	Spring	81	White crappie	0
1986	3	Spring	83	Northern pike	0
1986	3	Spring	84	Green sunfish	0
1986	3	Spring	85	Silver perch	0
1986	3	Spring	86	Northern puffer	0
1986	3	Spring	96	Sunfish family	0
1986	3	Spring	98	Red hake	69
1986	3	Spring	100	Central mudminnow	0
1986	3	Spring	101	Grubby	0
1986	3	Spring	102	Eastern mudminnow	0
1986	3	Spring	103	White bass	0
1986	3	Spring	104	Rough silverside	0
1986	3	Spring	105	Longear sunfish	0
1986	3	Spring	106	Summer flounder	106
1986	3	Spring	108	Creek chub	0
1986	3	Spring	109	Black bullhead	0
1986	3	Spring	110	Striped searobin	0
1986	3	Spring	111	Northern searobin	7
1986	3	Spring	113	Atlantic croaker	17
1986	3	Spring	114	Longhorn sculpin	0
1986	3	Spring	116	Hickory shad	0
1986	3	Spring	120	Conger eel	0
1986	3	Spring	122	Warmouth	0
1986	3	Spring	125	White mullet	0
1986	3	Spring	126	Yellow bullhead	0
1986	3	Spring	127	Channel catfish	0
1986	3	Spring	130	Naked goby	0
1986	3	Spring	132	Windowpane	0
1986	3	Spring	133	Spotted hake	0
1986	3	Spring	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	3	Spring	137	American sand lance	0
1986	3	Spring	139	Fourspot flounder	0
1986	3	Spring	140	Atlantic mackerel	0
1986	3	Spring	141	Black sea bass	0
1986	3	Spring	142	Smallmouth flounder	0
1986	3	Spring	143	Rock gunnel	0
1986	3	Spring	144	Inshore lizardfish	0
1986	3	Spring	146	Silver lamprey	0
1986	3	Spring	150	Goby family	0
1986	3	Spring	157	New World silverside family	0
1986	3	Spring	159	Sand flounder family	0
1986	3	Spring	161	Pipefish family	0
1986	3	Spring	162	Mackerel scad	0
1986	3	Spring	164	Cunner	0
1986	3	Spring	169	Gray snapper	0
1986	3	Spring	172	Bigeye scad	0
1986	3	Spring	173	Striped burrfish	0
1986	3	Spring	177	Spotfin butterflyfish	0
1986	3	Spring	179	Planehead filefish	0
1986	3	Spring	180	Atlantic cutlassfish	0
1986	3	Spring	181	Pigfish	0
1986	3	Spring	184	Freckled blenny	0
1986	3	Spring	187	Margined madtom	0
1986	3	Spring	205	Freshwater drum	0
1986	3	Spring	206	King mackerel	0
1986	3	Spring	209	Highfin goby	0
1986	3	Spring	213	Oyster toadfish	0
1986	3	Spring	754	Blue crab	63
1986	3	Spring	999	All fish taxa	62,303.00
1986	3	Summer	1	Alewife	303
1986	3	Summer	2	Bay anchovy	3,727
1986	3	Summer	3	American shad	950
1986	3	Summer	4	Bluefish	508
1986	3	Summer	5	Bluegill	0
1986	3	Summer	6	Brown bullhead	11
1986	3	Summer	7	Pumpkinseed	22
1986	3	Summer	8	Black crappie	0
1986	3	Summer	9	Common carp	0
1986	3	Summer	10	American eel	39
1986	3	Summer	11	Goldfish	0
1986	3	Summer	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	3	Summer	13	Hogchoker	15,075
1986	3	Summer	14	Tessellated darter	0
1986	3	Summer	15	Banded killifish	5
1986	3	Summer	16	Emerald shiner	0
1986	3	Summer	17	Largemouth bass	0
1986	3	Summer	18	Mummichog	0
1986	3	Summer	19	Atlantic menhaden	1,445
1986	3	Summer	21	Chain pickerel	0
1986	3	Summer	22	Blueback herring	314
1986	3	Summer	23	White sucker	0
1986	3	Summer	24	Atlantic silverside	5
1986	3	Summer	25	Rainbow smelt	69
1986	3	Summer	26	Smallmouth bass	0
1986	3	Summer	27	Shortnose sturgeon	0.00
1986	3	Summer	28	Spottail shiner	0
1986	3	Summer	29	Atlantic sturgeon	0.00
1986	3	Summer	30	Striped bass	174
1986	3	Summer	31	Fourspine stickleback	0
1986	3	Summer	32	Atlantic tomcod	2,373
1986	3	Summer	34	White catfish	40
1986	3	Summer	35	White perch	1,611
1986	3	Summer	36	Yellow perch	0
1986	3	Summer	37	Satinfin shiner	0
1986	3	Summer	38	Rock bass	0
1986	3	Summer	39	Northern pipefish	6
1986	3	Summer	40	Redbreast sunfish	5
1986	3	Summer	41	Atlantic needlefish	6
1986	3	Summer	42	Crevalle jack	17
1986	3	Summer	45	Weakfish	1,575
1986	3	Summer	47	Common shiner	0
1986	3	Summer	49	Lookdown	0
1986	3	Summer	50	Herring family	0
1986	3	Summer	54	Lined seahorse	0
1986	3	Summer	55	Logperch	0
1986	3	Summer	58	Fathead minnow	0
1986	3	Summer	59	Carp and minnow family	0
1986	3	Summer	60	Morone species	0
1986	3	Summer	62	Tautog	0
1986	3	Summer	63	Fourbeard rockling	0
1986	3	Summer	64	Striped cusk-eel	0
1986	3	Summer	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	3	Summer	68	Atlantic moonfish	0
1986	3	Summer	71	Scup	0
1986	3	Summer	72	Winter flounder	0
1986	3	Summer	73	Inland silverside	0
1986	3	Summer	74	Sea lamprey	0
1986	3	Summer	75	Gizzard shad	0
1986	3	Summer	76	Silver hake	0
1986	3	Summer	77	Striped mullet	0
1986	3	Summer	78	Threespine stickleback	0
1986	3	Summer	79	Brown trout	0
1986	3	Summer	80	Butterfish	55
1986	3	Summer	81	White crappie	0
1986	3	Summer	83	Northern pike	0
1986	3	Summer	84	Green sunfish	0
1986	3	Summer	85	Silver perch	0
1986	3	Summer	86	Northern puffer	0
1986	3	Summer	96	Sunfish family	0
1986	3	Summer	98	Red hake	0
1986	3	Summer	100	Central mudminnow	0
1986	3	Summer	101	Grubby	0
1986	3	Summer	102	Eastern mudminnow	0
1986	3	Summer	103	White bass	0
1986	3	Summer	104	Rough silverside	0
1986	3	Summer	105	Longear sunfish	0
1986	3	Summer	106	Summer flounder	153
1986	3	Summer	108	Creek chub	0
1986	3	Summer	109	Black bullhead	0
1986	3	Summer	110	Striped searobin	0
1986	3	Summer	111	Northern searobin	0
1986	3	Summer	113	Atlantic croaker	0
1986	3	Summer	114	Longhorn sculpin	0
1986	3	Summer	116	Hickory shad	6
1986	3	Summer	120	Conger eel	0
1986	3	Summer	122	Warmouth	0
1986	3	Summer	125	White mullet	0
1986	3	Summer	126	Yellow bullhead	0
1986	3	Summer	127	Channel catfish	0
1986	3	Summer	130	Naked goby	0
1986	3	Summer	132	Windowpane	0
1986	3	Summer	133	Spotted hake	12
1986	3	Summer	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	3	Summer	137	American sand lance	0
1986	3	Summer	139	Fourspot flounder	0
1986	3	Summer	140	Atlantic mackerel	0
1986	3	Summer	141	Black sea bass	0
1986	3	Summer	142	Smallmouth flounder	0
1986	3	Summer	143	Rock gunnel	0
1986	3	Summer	144	Inshore lizardfish	0
1986	3	Summer	146	Silver lamprey	0
1986	3	Summer	150	Goby family	0
1986	3	Summer	157	New World silverside family	0
1986	3	Summer	159	Sand flounder family	0
1986	3	Summer	161	Pipefish family	0
1986	3	Summer	162	Mackerel scad	0
1986	3	Summer	164	Cunner	0
1986	3	Summer	169	Gray snapper	0
1986	3	Summer	172	Bigeye scad	0
1986	3	Summer	173	Striped burrfish	0
1986	3	Summer	177	Spotfin butterflyfish	0
1986	3	Summer	179	Planehead filefish	0
1986	3	Summer	180	Atlantic cutlassfish	0
1986	3	Summer	181	Pigfish	0
1986	3	Summer	184	Freckled blenny	0
1986	3	Summer	187	Margined madtom	0
1986	3	Summer	205	Freshwater drum	0
1986	3	Summer	206	King mackerel	0
1986	3	Summer	209	Highfin goby	0
1986	3	Summer	213	Oyster toadfish	0
1986	3	Summer	754	Blue crab	621
1986	3	Summer	999	All fish taxa	28,506.00
1986	3	Fall	1	Alewife	302
1986	3	Fall	2	Bay anchovy	3,631
1986	3	Fall	3	American shad	3,716
1986	3	Fall	4	Bluefish	6
1986	3	Fall	5	Bluegill	139
1986	3	Fall	6	Brown bullhead	21
1986	3	Fall	7	Pumpkinseed	221
1986	3	Fall	8	Black crappie	5
1986	3	Fall	9	Common carp	16
1986	3	Fall	10	American eel	78
1986	3	Fall	11	Goldfish	5
1986	3	Fall	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	3	Fall	13	Hogchoker	2,961
1986	3	Fall	14	Tessellated darter	0
1986	3	Fall	15	Banded killifish	132
1986	3	Fall	16	Emerald shiner	0
1986	3	Fall	17	Largemouth bass	5
1986	3	Fall	18	Mummichog	0
1986	3	Fall	19	Atlantic menhaden	123
1986	3	Fall	21	Chain pickerel	0
1986	3	Fall	22	Blueback herring	8,527
1986	3	Fall	23	White sucker	0
1986	3	Fall	24	Atlantic silverside	18
1986	3	Fall	25	Rainbow smelt	195
1986	3	Fall	26	Smallmouth bass	17
1986	3	Fall	27	Shortnose sturgeon	0.00
1986	3	Fall	28	Spottail shiner	147
1986	3	Fall	29	Atlantic sturgeon	1.51
1986	3	Fall	30	Striped bass	410
1986	3	Fall	31	Fourspine stickleback	0
1986	3	Fall	32	Atlantic tomcod	2,662
1986	3	Fall	34	White catfish	336
1986	3	Fall	35	White perch	40,194
1986	3	Fall	36	Yellow perch	10
1986	3	Fall	37	Satinfin shiner	0
1986	3	Fall	38	Rock bass	0
1986	3	Fall	39	Northern pipefish	6
1986	3	Fall	40	Redbreast sunfish	6
1986	3	Fall	41	Atlantic needlefish	0
1986	3	Fall	42	Crevalle jack	83
1986	3	Fall	45	Weakfish	227
1986	3	Fall	47	Common shiner	0
1986	3	Fall	49	Lookdown	12
1986	3	Fall	50	Herring family	0
1986	3	Fall	54	Lined seahorse	0
1986	3	Fall	55	Logperch	0
1986	3	Fall	58	Fathead minnow	0
1986	3	Fall	59	Carp and minnow family	0
1986	3	Fall	60	Morone species	0
1986	3	Fall	62	Tautog	0
1986	3	Fall	63	Fourbeard rockling	0
1986	3	Fall	64	Striped cusk-eel	0
1986	3	Fall	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	3	Fall	68	Atlantic moonfish	6
1986	3	Fall	71	Scup	0
1986	3	Fall	72	Winter flounder	0
1986	3	Fall	73	Inland silverside	12
1986	3	Fall	74	Sea lamprey	0
1986	3	Fall	75	Gizzard shad	322
1986	3	Fall	76	Silver hake	0
1986	3	Fall	77	Striped mullet	0
1986	3	Fall	78	Threespine stickleback	0
1986	3	Fall	79	Brown trout	0
1986	3	Fall	80	Butterfish	32
1986	3	Fall	81	White crappie	0
1986	3	Fall	83	Northern pike	0
1986	3	Fall	84	Green sunfish	0
1986	3	Fall	85	Silver perch	0
1986	3	Fall	86	Northern puffer	0
1986	3	Fall	96	Sunfish family	0
1986	3	Fall	98	Red hake	0
1986	3	Fall	100	Central mudminnow	0
1986	3	Fall	101	Grubby	0
1986	3	Fall	102	Eastern mudminnow	0
1986	3	Fall	103	White bass	0
1986	3	Fall	104	Rough silverside	0
1986	3	Fall	105	Longear sunfish	0
1986	3	Fall	106	Summer flounder	57
1986	3	Fall	108	Creek chub	0
1986	3	Fall	109	Black bullhead	0
1986	3	Fall	110	Striped searobin	6
1986	3	Fall	111	Northern searobin	0
1986	3	Fall	113	Atlantic croaker	0
1986	3	Fall	114	Longhorn sculpin	0
1986	3	Fall	116	Hickory shad	0
1986	3	Fall	120	Conger eel	0
1986	3	Fall	122	Wormmouth	0
1986	3	Fall	125	White mullet	0
1986	3	Fall	126	Yellow bullhead	0
1986	3	Fall	127	Channel catfish	0
1986	3	Fall	130	Naked goby	0
1986	3	Fall	132	Windowpane	0
1986	3	Fall	133	Spotted hake	0
1986	3	Fall	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1986	3	Fall	137	American sand lance	0
1986	3	Fall	139	Fourspot flounder	0
1986	3	Fall	140	Atlantic mackerel	0
1986	3	Fall	141	Black sea bass	0
1986	3	Fall	142	Smallmouth flounder	0
1986	3	Fall	143	Rock gunnel	0
1986	3	Fall	144	Inshore lizardfish	0
1986	3	Fall	146	Silver lamprey	0
1986	3	Fall	150	Goby family	0
1986	3	Fall	157	New World silverside family	0
1986	3	Fall	159	Sand flounder family	0
1986	3	Fall	161	Pipefish family	0
1986	3	Fall	162	Mackerel scad	0
1986	3	Fall	164	Cunner	0
1986	3	Fall	169	Gray snapper	0
1986	3	Fall	172	Bigeye scad	0
1986	3	Fall	173	Striped burrfish	0
1986	3	Fall	177	Spotfin butterflyfish	0
1986	3	Fall	179	Planehead filefish	0
1986	3	Fall	180	Atlantic cutlassfish	0
1986	3	Fall	181	Pigfish	0
1986	3	Fall	184	Freckled blenny	0
1986	3	Fall	187	Margined madtom	0
1986	3	Fall	205	Freshwater drum	0
1986	3	Fall	206	King mackerel	0
1986	3	Fall	209	Highfin goby	0
1986	3	Fall	213	Oyster toadfish	0
1986	3	Fall	754	Blue crab	89
1986	3	Fall	999	All fish taxa	64,648.51
1987	2	Winter	1	Alewife	11
1987	2	Winter	2	Bay anchovy	49
1987	2	Winter	3	American shad	7
1987	2	Winter	4	Bluefish	0
1987	2	Winter	5	Bluegill	30
1987	2	Winter	6	Brown bullhead	52
1987	2	Winter	7	Pumpkinseed	729
1987	2	Winter	8	Black crappie	0
1987	2	Winter	9	Common carp	11
1987	2	Winter	10	American eel	232
1987	2	Winter	11	Goldfish	79
1987	2	Winter	12	Golden shiner	123

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	2	Winter	13	Hogchoker	366
1987	2	Winter	14	Tessellated darter	127
1987	2	Winter	15	Banded killifish	1,885
1987	2	Winter	16	Emerald shiner	0
1987	2	Winter	17	Largemouth bass	7
1987	2	Winter	18	Mummichog	0
1987	2	Winter	19	Atlantic menhaden	7
1987	2	Winter	21	Chain pickerel	0
1987	2	Winter	22	Blueback herring	7
1987	2	Winter	23	White sucker	0
1987	2	Winter	24	Atlantic silverside	11
1987	2	Winter	25	Rainbow smelt	1,948
1987	2	Winter	26	Smallmouth bass	7
1987	2	Winter	27	Shortnose sturgeon	4.11
1987	2	Winter	28	Spottail shiner	2,109
1987	2	Winter	29	Atlantic sturgeon	0.00
1987	2	Winter	30	Striped bass	2,561
1987	2	Winter	31	Fourspine stickleback	52
1987	2	Winter	32	Atlantic tomcod	1,406
1987	2	Winter	34	White catfish	318
1987	2	Winter	35	White perch	257,663
1987	2	Winter	36	Yellow perch	288
1987	2	Winter	37	Satinfin shiner	0
1987	2	Winter	38	Rock bass	0
1987	2	Winter	39	Northern pipefish	0
1987	2	Winter	40	Redbreast sunfish	4
1987	2	Winter	41	Atlantic needlefish	0
1987	2	Winter	42	Crevalle jack	0
1987	2	Winter	45	Weakfish	0
1987	2	Winter	47	Common shiner	0
1987	2	Winter	49	Lookdown	0
1987	2	Winter	50	Herring family	0
1987	2	Winter	54	Lined seahorse	0
1987	2	Winter	55	Logperch	0
1987	2	Winter	58	Fathead minnow	0
1987	2	Winter	59	Carp and minnow family	0
1987	2	Winter	60	Morone species	0
1987	2	Winter	62	Tautog	0
1987	2	Winter	63	Fourbeard rockling	0
1987	2	Winter	64	Striped cusk-eel	0
1987	2	Winter	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	2	Winter	68	Atlantic moonfish	0
1987	2	Winter	71	Scup	0
1987	2	Winter	72	Winter flounder	56
1987	2	Winter	73	Inland silverside	0
1987	2	Winter	74	Sea lamprey	0
1987	2	Winter	75	Gizzard shad	153
1987	2	Winter	76	Silver hake	0
1987	2	Winter	77	Striped mullet	0
1987	2	Winter	78	Threespine stickleback	583
1987	2	Winter	79	Brown trout	0
1987	2	Winter	80	Butterfish	0
1987	2	Winter	81	White crappie	0
1987	2	Winter	83	Northern pike	0
1987	2	Winter	84	Green sunfish	0
1987	2	Winter	85	Silver perch	0
1987	2	Winter	86	Northern puffer	0
1987	2	Winter	96	Sunfish family	0
1987	2	Winter	98	Red hake	11
1987	2	Winter	100	Central mudminnow	0
1987	2	Winter	101	Grubby	0
1987	2	Winter	102	Eastern mudminnow	0
1987	2	Winter	103	White bass	0
1987	2	Winter	104	Rough silverside	0
1987	2	Winter	105	Longear sunfish	0
1987	2	Winter	106	Summer flounder	0
1987	2	Winter	108	Creek chub	0
1987	2	Winter	109	Black bullhead	0
1987	2	Winter	110	Striped searobin	0
1987	2	Winter	111	Northern searobin	0
1987	2	Winter	113	Atlantic croaker	0
1987	2	Winter	114	Longhorn sculpin	0
1987	2	Winter	116	Hickory shad	0
1987	2	Winter	120	Conger eel	0
1987	2	Winter	122	Warmouth	0
1987	2	Winter	125	White mullet	0
1987	2	Winter	126	Yellow bullhead	0
1987	2	Winter	127	Channel catfish	0
1987	2	Winter	130	Naked goby	30
1987	2	Winter	132	Windowpane	0
1987	2	Winter	133	Spotted hake	0
1987	2	Winter	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	2	Winter	137	American sand lance	0
1987	2	Winter	139	Fourspot flounder	0
1987	2	Winter	140	Atlantic mackerel	0
1987	2	Winter	141	Black sea bass	0
1987	2	Winter	142	Smallmouth flounder	0
1987	2	Winter	143	Rock gunnel	0
1987	2	Winter	144	Inshore lizardfish	0
1987	2	Winter	146	Silver lamprey	0
1987	2	Winter	150	Goby family	0
1987	2	Winter	157	New World silverside family	0
1987	2	Winter	159	Sand flounder family	0
1987	2	Winter	161	Pipefish family	0
1987	2	Winter	162	Mackerel scad	0
1987	2	Winter	164	Cunner	0
1987	2	Winter	169	Gray snapper	0
1987	2	Winter	172	Bigeye scad	0
1987	2	Winter	173	Striped burrfish	0
1987	2	Winter	177	Spotfin butterflyfish	0
1987	2	Winter	179	Planehead filefish	0
1987	2	Winter	180	Atlantic cutlassfish	0
1987	2	Winter	181	Pigfish	0
1987	2	Winter	184	Freckled blenny	0
1987	2	Winter	187	Margined madtom	0
1987	2	Winter	205	Freshwater drum	0
1987	2	Winter	206	King mackerel	0
1987	2	Winter	209	Highfin goby	0
1987	2	Winter	213	Oyster toadfish	0
1987	2	Winter	754	Blue crab	0
1987	2	Winter	999	All fish taxa	270,926.11
1987	2	Spring	1	Alewife	319
1987	2	Spring	2	Bay anchovy	193
1987	2	Spring	3	American shad	57
1987	2	Spring	4	Bluefish	1,399
1987	2	Spring	5	Bluegill	102
1987	2	Spring	6	Brown bullhead	57
1987	2	Spring	7	Pumpkinseed	46
1987	2	Spring	8	Black crappie	0
1987	2	Spring	9	Common carp	0
1987	2	Spring	10	American eel	1,911
1987	2	Spring	11	Goldfish	0
1987	2	Spring	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	2	Spring	13	Hogchoker	17,495
1987	2	Spring	14	Tessellated darter	159
1987	2	Spring	15	Banded killifish	114
1987	2	Spring	16	Emerald shiner	0
1987	2	Spring	17	Largemouth bass	0
1987	2	Spring	18	Mummichog	68
1987	2	Spring	19	Atlantic menhaden	216
1987	2	Spring	21	Chain pickerel	0
1987	2	Spring	22	Blueback herring	1,103
1987	2	Spring	23	White sucker	0
1987	2	Spring	24	Atlantic silverside	0
1987	2	Spring	25	Rainbow smelt	4,641
1987	2	Spring	26	Smallmouth bass	0
1987	2	Spring	27	Shortnose sturgeon	0.00
1987	2	Spring	28	Spottail shiner	80
1987	2	Spring	29	Atlantic sturgeon	2.55
1987	2	Spring	30	Striped bass	557
1987	2	Spring	31	Fourspine stickleback	546
1987	2	Spring	32	Atlantic tomcod	364,387
1987	2	Spring	34	White catfish	341
1987	2	Spring	35	White perch	111,145
1987	2	Spring	36	Yellow perch	0
1987	2	Spring	37	Satinfin shiner	0
1987	2	Spring	38	Rock bass	0
1987	2	Spring	39	Northern pipefish	91
1987	2	Spring	40	Redbreast sunfish	0
1987	2	Spring	41	Atlantic needlefish	0
1987	2	Spring	42	Crevalle jack	0
1987	2	Spring	45	Weakfish	0
1987	2	Spring	47	Common shiner	0
1987	2	Spring	49	Lookdown	0
1987	2	Spring	50	Herring family	0
1987	2	Spring	54	Lined seahorse	0
1987	2	Spring	55	Logperch	0
1987	2	Spring	58	Fathead minnow	0
1987	2	Spring	59	Carp and minnow family	0
1987	2	Spring	60	Morone species	0
1987	2	Spring	62	Tautog	0
1987	2	Spring	63	Fourbeard rockling	0
1987	2	Spring	64	Striped cusk-eel	34
1987	2	Spring	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	2	Spring	68	Atlantic moonfish	0
1987	2	Spring	71	Scup	0
1987	2	Spring	72	Winter flounder	171
1987	2	Spring	73	Inland silverside	0
1987	2	Spring	74	Sea lamprey	0
1987	2	Spring	75	Gizzard shad	0
1987	2	Spring	76	Silver hake	68
1987	2	Spring	77	Striped mullet	0
1987	2	Spring	78	Threespine stickleback	0
1987	2	Spring	79	Brown trout	34
1987	2	Spring	80	Butterfish	0
1987	2	Spring	81	White crappie	0
1987	2	Spring	83	Northern pike	0
1987	2	Spring	84	Green sunfish	0
1987	2	Spring	85	Silver perch	0
1987	2	Spring	86	Northern puffer	0
1987	2	Spring	96	Sunfish family	0
1987	2	Spring	98	Red hake	0
1987	2	Spring	100	Central mudminnow	0
1987	2	Spring	101	Grubby	0
1987	2	Spring	102	Eastern mudminnow	0
1987	2	Spring	103	White bass	0
1987	2	Spring	104	Rough silverside	0
1987	2	Spring	105	Longear sunfish	0
1987	2	Spring	106	Summer flounder	0
1987	2	Spring	108	Creek chub	0
1987	2	Spring	109	Black bullhead	0
1987	2	Spring	110	Striped searobin	0
1987	2	Spring	111	Northern searobin	0
1987	2	Spring	113	Atlantic croaker	0
1987	2	Spring	114	Longhorn sculpin	0
1987	2	Spring	116	Hickory shad	0
1987	2	Spring	120	Conger eel	0
1987	2	Spring	122	Warmouth	0
1987	2	Spring	125	White mullet	0
1987	2	Spring	126	Yellow bullhead	0
1987	2	Spring	127	Channel catfish	0
1987	2	Spring	130	Naked goby	0
1987	2	Spring	132	Windowpane	34
1987	2	Spring	133	Spotted hake	0
1987	2	Spring	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	2	Spring	137	American sand lance	0
1987	2	Spring	139	Fourspot flounder	0
1987	2	Spring	140	Atlantic mackerel	0
1987	2	Spring	141	Black sea bass	0
1987	2	Spring	142	Smallmouth flounder	0
1987	2	Spring	143	Rock gunnel	0
1987	2	Spring	144	Inshore lizardfish	0
1987	2	Spring	146	Silver lamprey	0
1987	2	Spring	150	Goby family	0
1987	2	Spring	157	New World silverside family	0
1987	2	Spring	159	Sand flounder family	0
1987	2	Spring	161	Pipefish family	0
1987	2	Spring	162	Mackerel scad	0
1987	2	Spring	164	Cunner	34
1987	2	Spring	169	Gray snapper	0
1987	2	Spring	172	Bigeye scad	0
1987	2	Spring	173	Striped burrfish	0
1987	2	Spring	177	Spotfin butterflyfish	0
1987	2	Spring	179	Planehead filefish	0
1987	2	Spring	180	Atlantic cutlassfish	0
1987	2	Spring	181	Pigfish	0
1987	2	Spring	184	Freckled blenny	0
1987	2	Spring	187	Margined madtom	0
1987	2	Spring	205	Freshwater drum	0
1987	2	Spring	206	King mackerel	0
1987	2	Spring	209	Highfin goby	0
1987	2	Spring	213	Oyster toadfish	0
1987	2	Spring	754	Blue crab	27
1987	2	Spring	999	All fish taxa	505,404.55
1987	2	Summer	1	Alewife	3,019
1987	2	Summer	2	Bay anchovy	20,641
1987	2	Summer	3	American shad	2,308
1987	2	Summer	4	Bluefish	4,558
1987	2	Summer	5	Bluegill	560
1987	2	Summer	6	Brown bullhead	134
1987	2	Summer	7	Pumpkinseed	209
1987	2	Summer	8	Black crappie	209
1987	2	Summer	9	Common carp	0
1987	2	Summer	10	American eel	1,999
1987	2	Summer	11	Goldfish	0
1987	2	Summer	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	2	Summer	13	Hogchoker	12,771
1987	2	Summer	14	Tessellated darter	0
1987	2	Summer	15	Banded killifish	0
1987	2	Summer	16	Emerald shiner	0
1987	2	Summer	17	Largemouth bass	0
1987	2	Summer	18	Mummichog	84
1987	2	Summer	19	Atlantic menhaden	552
1987	2	Summer	21	Chain pickerel	0
1987	2	Summer	22	Blueback herring	21,210
1987	2	Summer	23	White sucker	0
1987	2	Summer	24	Atlantic silverside	0
1987	2	Summer	25	Rainbow smelt	611
1987	2	Summer	26	Smallmouth bass	59
1987	2	Summer	27	Shortnose sturgeon	0.00
1987	2	Summer	28	Spottail shiner	0
1987	2	Summer	29	Atlantic sturgeon	3.46
1987	2	Summer	30	Striped bass	14,369
1987	2	Summer	31	Fourspine stickleback	0
1987	2	Summer	32	Atlantic tomcod	318,303
1987	2	Summer	34	White catfish	435
1987	2	Summer	35	White perch	45,289
1987	2	Summer	36	Yellow perch	50
1987	2	Summer	37	Satinfin shiner	0
1987	2	Summer	38	Rock bass	0
1987	2	Summer	39	Northern pipefish	176
1987	2	Summer	40	Redbreast sunfish	0
1987	2	Summer	41	Atlantic needlefish	0
1987	2	Summer	42	Crevalle jack	0
1987	2	Summer	45	Weakfish	2,593
1987	2	Summer	47	Common shiner	0
1987	2	Summer	49	Lookdown	0
1987	2	Summer	50	Herring family	50
1987	2	Summer	54	Lined seahorse	0
1987	2	Summer	55	Logperch	0
1987	2	Summer	58	Fathead minnow	0
1987	2	Summer	59	Carp and minnow family	0
1987	2	Summer	60	Morone species	0
1987	2	Summer	62	Tautog	0
1987	2	Summer	63	Fourbeard rockling	0
1987	2	Summer	64	Striped cusk-eel	0
1987	2	Summer	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	2	Summer	68	Atlantic moonfish	0
1987	2	Summer	71	Scup	0
1987	2	Summer	72	Winter flounder	251
1987	2	Summer	73	Inland silverside	0
1987	2	Summer	74	Sea lamprey	0
1987	2	Summer	75	Gizzard shad	100
1987	2	Summer	76	Silver hake	0
1987	2	Summer	77	Striped mullet	0
1987	2	Summer	78	Threespine stickleback	0
1987	2	Summer	79	Brown trout	0
1987	2	Summer	80	Butterfish	611
1987	2	Summer	81	White crappie	75
1987	2	Summer	83	Northern pike	0
1987	2	Summer	84	Green sunfish	0
1987	2	Summer	85	Silver perch	0
1987	2	Summer	86	Northern puffer	0
1987	2	Summer	96	Sunfish family	0
1987	2	Summer	98	Red hake	0
1987	2	Summer	100	Central mudminnow	0
1987	2	Summer	101	Grubby	0
1987	2	Summer	102	Eastern mudminnow	50
1987	2	Summer	103	White bass	0
1987	2	Summer	104	Rough silverside	0
1987	2	Summer	105	Longear sunfish	0
1987	2	Summer	106	Summer flounder	25
1987	2	Summer	108	Creek chub	0
1987	2	Summer	109	Black bullhead	0
1987	2	Summer	110	Striped searobin	0
1987	2	Summer	111	Northern searobin	0
1987	2	Summer	113	Atlantic croaker	0
1987	2	Summer	114	Longhorn sculpin	0
1987	2	Summer	116	Hickory shad	0
1987	2	Summer	120	Conger eel	0
1987	2	Summer	122	Warmouth	0
1987	2	Summer	125	White mullet	0
1987	2	Summer	126	Yellow bullhead	25
1987	2	Summer	127	Channel catfish	0
1987	2	Summer	130	Naked goby	59
1987	2	Summer	132	Windowpane	0
1987	2	Summer	133	Spotted hake	0
1987	2	Summer	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	2	Summer	137	American sand lance	0
1987	2	Summer	139	Fourspot flounder	0
1987	2	Summer	140	Atlantic mackerel	0
1987	2	Summer	141	Black sea bass	0
1987	2	Summer	142	Smallmouth flounder	0
1987	2	Summer	143	Rock gunnel	0
1987	2	Summer	144	Inshore lizardfish	0
1987	2	Summer	146	Silver lamprey	0
1987	2	Summer	150	Goby family	0
1987	2	Summer	157	New World silverside family	0
1987	2	Summer	159	Sand flounder family	0
1987	2	Summer	161	Pipefish family	0
1987	2	Summer	162	Mackerel scad	0
1987	2	Summer	164	Cunner	0
1987	2	Summer	169	Gray snapper	0
1987	2	Summer	172	Bigeye scad	0
1987	2	Summer	173	Striped burrfish	0
1987	2	Summer	177	Spotfin butterflyfish	0
1987	2	Summer	179	Planehead filefish	0
1987	2	Summer	180	Atlantic cutlassfish	0
1987	2	Summer	181	Pigfish	0
1987	2	Summer	184	Freckled blenny	0
1987	2	Summer	187	Margined madtom	0
1987	2	Summer	205	Freshwater drum	0
1987	2	Summer	206	King mackerel	0
1987	2	Summer	209	Highfin goby	0
1987	2	Summer	213	Oyster toadfish	0
1987	2	Summer	754	Blue crab	626
1987	2	Summer	999	All fish taxa	451,388.46
1987	2	Fall	1	Alewife	213
1987	2	Fall	2	Bay anchovy	3,903
1987	2	Fall	3	American shad	267
1987	2	Fall	4	Bluefish	71
1987	2	Fall	5	Bluegill	121
1987	2	Fall	6	Brown bullhead	0
1987	2	Fall	7	Pumpkinseed	133
1987	2	Fall	8	Black crappie	9
1987	2	Fall	9	Common carp	0
1987	2	Fall	10	American eel	99
1987	2	Fall	11	Goldfish	0
1987	2	Fall	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	2	Fall	13	Hogchoker	4,186
1987	2	Fall	14	Tessellated darter	3
1987	2	Fall	15	Banded killifish	68
1987	2	Fall	16	Emerald shiner	0
1987	2	Fall	17	Largemouth bass	3
1987	2	Fall	18	Mummichog	0
1987	2	Fall	19	Atlantic menhaden	25
1987	2	Fall	21	Chain pickerel	0
1987	2	Fall	22	Blueback herring	12,939
1987	2	Fall	23	White sucker	0
1987	2	Fall	24	Atlantic silverside	13
1987	2	Fall	25	Rainbow smelt	80
1987	2	Fall	26	Smallmouth bass	0
1987	2	Fall	27	Shortnose sturgeon	0.00
1987	2	Fall	28	Spottail shiner	9
1987	2	Fall	29	Atlantic sturgeon	0.00
1987	2	Fall	30	Striped bass	7,392
1987	2	Fall	31	Fourspine stickleback	0
1987	2	Fall	32	Atlantic tomcod	472
1987	2	Fall	34	White catfish	386
1987	2	Fall	35	White perch	18,325
1987	2	Fall	36	Yellow perch	12
1987	2	Fall	37	Satinfin shiner	0
1987	2	Fall	38	Rock bass	167
1987	2	Fall	39	Northern pipefish	9
1987	2	Fall	40	Redbreast sunfish	0
1987	2	Fall	41	Atlantic needlefish	0
1987	2	Fall	42	Crevalle jack	0
1987	2	Fall	45	Weakfish	95
1987	2	Fall	47	Common shiner	0
1987	2	Fall	49	Lookdown	0
1987	2	Fall	50	Herring family	0
1987	2	Fall	54	Lined seahorse	0
1987	2	Fall	55	Logperch	0
1987	2	Fall	58	Fathead minnow	0
1987	2	Fall	59	Carp and minnow family	0
1987	2	Fall	60	Morone species	0
1987	2	Fall	62	Tautog	0
1987	2	Fall	63	Fourbeard rockling	0
1987	2	Fall	64	Striped cusk-eel	0
1987	2	Fall	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	2	Fall	68	Atlantic moonfish	0
1987	2	Fall	71	Scup	0
1987	2	Fall	72	Winter flounder	0
1987	2	Fall	73	Inland silverside	4
1987	2	Fall	74	Sea lamprey	0
1987	2	Fall	75	Gizzard shad	27
1987	2	Fall	76	Silver hake	0
1987	2	Fall	77	Striped mullet	0
1987	2	Fall	78	Threespine stickleback	0
1987	2	Fall	79	Brown trout	0
1987	2	Fall	80	Butterfish	13
1987	2	Fall	81	White crappie	9
1987	2	Fall	83	Northern pike	0
1987	2	Fall	84	Green sunfish	0
1987	2	Fall	85	Silver perch	0
1987	2	Fall	86	Northern puffer	0
1987	2	Fall	96	Sunfish family	0
1987	2	Fall	98	Red hake	0
1987	2	Fall	100	Central mudminnow	0
1987	2	Fall	101	Grubby	0
1987	2	Fall	102	Eastern mudminnow	4
1987	2	Fall	103	White bass	0
1987	2	Fall	104	Rough silverside	0
1987	2	Fall	105	Longear sunfish	0
1987	2	Fall	106	Summer flounder	0
1987	2	Fall	108	Creek chub	0
1987	2	Fall	109	Black bullhead	0
1987	2	Fall	110	Striped searobin	0
1987	2	Fall	111	Northern searobin	0
1987	2	Fall	113	Atlantic croaker	0
1987	2	Fall	114	Longhorn sculpin	0
1987	2	Fall	116	Hickory shad	0
1987	2	Fall	120	Conger eel	0
1987	2	Fall	122	Warmouth	61
1987	2	Fall	125	White mullet	0
1987	2	Fall	126	Yellow bullhead	0
1987	2	Fall	127	Channel catfish	0
1987	2	Fall	130	Naked goby	25
1987	2	Fall	132	Windowpane	0
1987	2	Fall	133	Spotted hake	0
1987	2	Fall	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	2	Fall	137	American sand lance	0
1987	2	Fall	139	Fourspot flounder	0
1987	2	Fall	140	Atlantic mackerel	0
1987	2	Fall	141	Black sea bass	0
1987	2	Fall	142	Smallmouth flounder	0
1987	2	Fall	143	Rock gunnel	0
1987	2	Fall	144	Inshore lizardfish	0
1987	2	Fall	146	Silver lamprey	0
1987	2	Fall	150	Goby family	0
1987	2	Fall	157	New World silverside family	0
1987	2	Fall	159	Sand flounder family	0
1987	2	Fall	161	Pipefish family	0
1987	2	Fall	162	Mackerel scad	0
1987	2	Fall	164	Cunner	0
1987	2	Fall	169	Gray snapper	0
1987	2	Fall	172	Bigeye scad	0
1987	2	Fall	173	Striped burrfish	0
1987	2	Fall	177	Spotfin butterflyfish	0
1987	2	Fall	179	Planehead filefish	0
1987	2	Fall	180	Atlantic cutlassfish	0
1987	2	Fall	181	Pigfish	0
1987	2	Fall	184	Freckled blenny	0
1987	2	Fall	187	Margined madtom	0
1987	2	Fall	205	Freshwater drum	0
1987	2	Fall	206	King mackerel	0
1987	2	Fall	209	Highfin goby	0
1987	2	Fall	213	Oyster toadfish	0
1987	2	Fall	754	Blue crab	318
1987	2	Fall	999	All fish taxa	49,143.00
1987	3	Winter	1	Alewife	26
1987	3	Winter	2	Bay anchovy	82
1987	3	Winter	3	American shad	5
1987	3	Winter	4	Bluefish	0
1987	3	Winter	5	Bluegill	10
1987	3	Winter	6	Brown bullhead	33
1987	3	Winter	7	Pumpkinseed	532
1987	3	Winter	8	Black crappie	3
1987	3	Winter	9	Common carp	31
1987	3	Winter	10	American eel	95
1987	3	Winter	11	Goldfish	51
1987	3	Winter	12	Golden shiner	23

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	3	Winter	13	Hogchoker	255
1987	3	Winter	14	Tessellated darter	3
1987	3	Winter	15	Banded killifish	339
1987	3	Winter	16	Emerald shiner	0
1987	3	Winter	17	Largemouth bass	10
1987	3	Winter	18	Mummichog	0
1987	3	Winter	19	Atlantic menhaden	0
1987	3	Winter	21	Chain pickerel	0
1987	3	Winter	22	Blueback herring	13
1987	3	Winter	23	White sucker	0
1987	3	Winter	24	Atlantic silverside	5
1987	3	Winter	25	Rainbow smelt	512
1987	3	Winter	26	Smallmouth bass	0
1987	3	Winter	27	Shortnose sturgeon	0.00
1987	3	Winter	28	Spottail shiner	329
1987	3	Winter	29	Atlantic sturgeon	0.00
1987	3	Winter	30	Striped bass	1,322
1987	3	Winter	31	Fourspine stickleback	13
1987	3	Winter	32	Atlantic tomcod	517
1987	3	Winter	34	White catfish	275
1987	3	Winter	35	White perch	126,172
1987	3	Winter	36	Yellow perch	54
1987	3	Winter	37	Satinfin shiner	0
1987	3	Winter	38	Rock bass	0
1987	3	Winter	39	Northern pipefish	0
1987	3	Winter	40	Redbreast sunfish	10
1987	3	Winter	41	Atlantic needlefish	0
1987	3	Winter	42	Crevalle jack	0
1987	3	Winter	45	Weakfish	0
1987	3	Winter	47	Common shiner	0
1987	3	Winter	49	Lookdown	0
1987	3	Winter	50	Herring family	0
1987	3	Winter	54	Lined seahorse	0
1987	3	Winter	55	Logperch	0
1987	3	Winter	58	Fathead minnow	0
1987	3	Winter	59	Carp and minnow family	0
1987	3	Winter	60	Morone species	0
1987	3	Winter	62	Tautog	0
1987	3	Winter	63	Fourbeard rockling	0
1987	3	Winter	64	Striped cusk-eel	0
1987	3	Winter	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	3	Winter	68	Atlantic moonfish	0
1987	3	Winter	71	Scup	0
1987	3	Winter	72	Winter flounder	3
1987	3	Winter	73	Inland silverside	3
1987	3	Winter	74	Sea lamprey	0
1987	3	Winter	75	Gizzard shad	489
1987	3	Winter	76	Silver hake	0
1987	3	Winter	77	Striped mullet	0
1987	3	Winter	78	Threespine stickleback	239
1987	3	Winter	79	Brown trout	0
1987	3	Winter	80	Butterfish	0
1987	3	Winter	81	White crappie	0
1987	3	Winter	83	Northern pike	0
1987	3	Winter	84	Green sunfish	0
1987	3	Winter	85	Silver perch	0
1987	3	Winter	86	Northern puffer	0
1987	3	Winter	96	Sunfish family	0
1987	3	Winter	98	Red hake	3
1987	3	Winter	100	Central mudminnow	0
1987	3	Winter	101	Grubby	0
1987	3	Winter	102	Eastern mudminnow	0
1987	3	Winter	103	White bass	0
1987	3	Winter	104	Rough silverside	0
1987	3	Winter	105	Longear sunfish	0
1987	3	Winter	106	Summer flounder	0
1987	3	Winter	108	Creek chub	0
1987	3	Winter	109	Black bullhead	0
1987	3	Winter	110	Striped searobin	0
1987	3	Winter	111	Northern searobin	0
1987	3	Winter	113	Atlantic croaker	0
1987	3	Winter	114	Longhorn sculpin	0
1987	3	Winter	116	Hickory shad	0
1987	3	Winter	120	Conger eel	0
1987	3	Winter	122	Warmouth	0
1987	3	Winter	125	White mullet	0
1987	3	Winter	126	Yellow bullhead	0
1987	3	Winter	127	Channel catfish	0
1987	3	Winter	130	Naked goby	0
1987	3	Winter	132	Windowpane	0
1987	3	Winter	133	Spotted hake	0
1987	3	Winter	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	3	Winter	137	American sand lance	0
1987	3	Winter	139	Fourspot flounder	0
1987	3	Winter	140	Atlantic mackerel	0
1987	3	Winter	141	Black sea bass	0
1987	3	Winter	142	Smallmouth flounder	0
1987	3	Winter	143	Rock gunnel	0
1987	3	Winter	144	Inshore lizardfish	0
1987	3	Winter	146	Silver lamprey	0
1987	3	Winter	150	Goby family	0
1987	3	Winter	157	New World silverside family	0
1987	3	Winter	159	Sand flounder family	0
1987	3	Winter	161	Pipefish family	0
1987	3	Winter	162	Mackerel scad	0
1987	3	Winter	164	Cunner	0
1987	3	Winter	169	Gray snapper	0
1987	3	Winter	172	Bigeye scad	0
1987	3	Winter	173	Striped burrfish	0
1987	3	Winter	177	Spotfin butterflyfish	0
1987	3	Winter	179	Planehead filefish	0
1987	3	Winter	180	Atlantic cutlassfish	0
1987	3	Winter	181	Pigfish	0
1987	3	Winter	184	Freckled blenny	0
1987	3	Winter	187	Margined madtom	0
1987	3	Winter	205	Freshwater drum	0
1987	3	Winter	206	King mackerel	0
1987	3	Winter	209	Highfin goby	0
1987	3	Winter	213	Oyster toadfish	0
1987	3	Winter	754	Blue crab	0
1987	3	Winter	999	All fish taxa	131,457.00
1987	3	Spring	1	Alewife	43
1987	3	Spring	2	Bay anchovy	0
1987	3	Spring	3	American shad	27
1987	3	Spring	4	Bluefish	0
1987	3	Spring	5	Bluegill	29
1987	3	Spring	6	Brown bullhead	7
1987	3	Spring	7	Pumpkinseed	85
1987	3	Spring	8	Black crappie	0
1987	3	Spring	9	Common carp	0
1987	3	Spring	10	American eel	15
1987	3	Spring	11	Goldfish	3
1987	3	Spring	12	Golden shiner	7

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	3	Spring	13	Hogchoker	2,154
1987	3	Spring	14	Tessellated darter	0
1987	3	Spring	15	Banded killifish	14
1987	3	Spring	16	Emerald shiner	0
1987	3	Spring	17	Largemouth bass	0
1987	3	Spring	18	Mummichog	0
1987	3	Spring	19	Atlantic menhaden	41
1987	3	Spring	21	Chain pickerel	0
1987	3	Spring	22	Blueback herring	177
1987	3	Spring	23	White sucker	0
1987	3	Spring	24	Atlantic silverside	9
1987	3	Spring	25	Rainbow smelt	360
1987	3	Spring	26	Smallmouth bass	0
1987	3	Spring	27	Shortnose sturgeon	1.63
1987	3	Spring	28	Spottail shiner	65
1987	3	Spring	29	Atlantic sturgeon	0.00
1987	3	Spring	30	Striped bass	87
1987	3	Spring	31	Fourspine stickleback	36
1987	3	Spring	32	Atlantic tomcod	99
1987	3	Spring	34	White catfish	56
1987	3	Spring	35	White perch	19,572
1987	3	Spring	36	Yellow perch	29
1987	3	Spring	37	Satinfin shiner	0
1987	3	Spring	38	Rock bass	0
1987	3	Spring	39	Northern pipefish	5
1987	3	Spring	40	Redbreast sunfish	0
1987	3	Spring	41	Atlantic needlefish	0
1987	3	Spring	42	Crevalle jack	0
1987	3	Spring	45	Weakfish	0
1987	3	Spring	47	Common shiner	0
1987	3	Spring	49	Lookdown	0
1987	3	Spring	50	Herring family	0
1987	3	Spring	54	Lined seahorse	0
1987	3	Spring	55	Logperch	0
1987	3	Spring	58	Fathead minnow	0
1987	3	Spring	59	Carp and minnow family	0
1987	3	Spring	60	Morone species	0
1987	3	Spring	62	Tautog	0
1987	3	Spring	63	Fourbeard rockling	0
1987	3	Spring	64	Striped cusk-eel	0
1987	3	Spring	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	3	Spring	68	Atlantic moonfish	0
1987	3	Spring	71	Scup	0
1987	3	Spring	72	Winter flounder	3
1987	3	Spring	73	Inland silverside	0
1987	3	Spring	74	Sea lamprey	0
1987	3	Spring	75	Gizzard shad	0
1987	3	Spring	76	Silver hake	0
1987	3	Spring	77	Striped mullet	0
1987	3	Spring	78	Threespine stickleback	3
1987	3	Spring	79	Brown trout	3
1987	3	Spring	80	Butterfish	0
1987	3	Spring	81	White crappie	0
1987	3	Spring	83	Northern pike	0
1987	3	Spring	84	Green sunfish	0
1987	3	Spring	85	Silver perch	0
1987	3	Spring	86	Northern puffer	0
1987	3	Spring	96	Sunfish family	0
1987	3	Spring	98	Red hake	0
1987	3	Spring	100	Central mudminnow	0
1987	3	Spring	101	Grubby	0
1987	3	Spring	102	Eastern mudminnow	0
1987	3	Spring	103	White bass	0
1987	3	Spring	104	Rough silverside	0
1987	3	Spring	105	Longear sunfish	0
1987	3	Spring	106	Summer flounder	0
1987	3	Spring	108	Creek chub	0
1987	3	Spring	109	Black bullhead	0
1987	3	Spring	110	Striped searobin	0
1987	3	Spring	111	Northern searobin	0
1987	3	Spring	113	Atlantic croaker	0
1987	3	Spring	114	Longhorn sculpin	0
1987	3	Spring	116	Hickory shad	0
1987	3	Spring	120	Conger eel	0
1987	3	Spring	122	Warmouth	0
1987	3	Spring	125	White mullet	0
1987	3	Spring	126	Yellow bullhead	0
1987	3	Spring	127	Channel catfish	0
1987	3	Spring	130	Naked goby	0
1987	3	Spring	132	Windowpane	0
1987	3	Spring	133	Spotted hake	0
1987	3	Spring	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	3	Spring	137	American sand lance	0
1987	3	Spring	139	Fourspot flounder	0
1987	3	Spring	140	Atlantic mackerel	0
1987	3	Spring	141	Black sea bass	0
1987	3	Spring	142	Smallmouth flounder	0
1987	3	Spring	143	Rock gunnel	0
1987	3	Spring	144	Inshore lizardfish	0
1987	3	Spring	146	Silver lamprey	0
1987	3	Spring	150	Goby family	0
1987	3	Spring	157	New World silverside family	0
1987	3	Spring	159	Sand flounder family	0
1987	3	Spring	161	Pipefish family	0
1987	3	Spring	162	Mackerel scad	0
1987	3	Spring	164	Cunner	0
1987	3	Spring	169	Gray snapper	0
1987	3	Spring	172	Bigeye scad	0
1987	3	Spring	173	Striped burrfish	0
1987	3	Spring	177	Spotfin butterflyfish	0
1987	3	Spring	179	Planehead filefish	0
1987	3	Spring	180	Atlantic cutlassfish	0
1987	3	Spring	181	Pigfish	0
1987	3	Spring	184	Freckled blenny	0
1987	3	Spring	187	Margined madtom	0
1987	3	Spring	205	Freshwater drum	0
1987	3	Spring	206	King mackerel	0
1987	3	Spring	209	Highfin goby	0
1987	3	Spring	213	Oyster toadfish	0
1987	3	Spring	754	Blue crab	0
1987	3	Spring	999	All fish taxa	22,930.63
1987	3	Summer	1	Alewife	392
1987	3	Summer	2	Bay anchovy	4,467
1987	3	Summer	3	American shad	329
1987	3	Summer	4	Bluefish	615
1987	3	Summer	5	Bluegill	35
1987	3	Summer	6	Brown bullhead	3
1987	3	Summer	7	Pumpkinseed	9
1987	3	Summer	8	Black crappie	6
1987	3	Summer	9	Common carp	0
1987	3	Summer	10	American eel	84
1987	3	Summer	11	Goldfish	0
1987	3	Summer	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	3	Summer	13	Hogchoker	3,642
1987	3	Summer	14	Tessellated darter	0
1987	3	Summer	15	Banded killifish	0
1987	3	Summer	16	Emerald shiner	0
1987	3	Summer	17	Largemouth bass	0
1987	3	Summer	18	Mummichog	0
1987	3	Summer	19	Atlantic menhaden	82
1987	3	Summer	21	Chain pickerel	0
1987	3	Summer	22	Blueback herring	955
1987	3	Summer	23	White sucker	0
1987	3	Summer	24	Atlantic silverside	3
1987	3	Summer	25	Rainbow smelt	120
1987	3	Summer	26	Smallmouth bass	0
1987	3	Summer	27	Shortnose sturgeon	0.00
1987	3	Summer	28	Spottail shiner	0
1987	3	Summer	29	Atlantic sturgeon	1.79
1987	3	Summer	30	Striped bass	553
1987	3	Summer	31	Fourspine stickleback	0
1987	3	Summer	32	Atlantic tomcod	285
1987	3	Summer	34	White catfish	27
1987	3	Summer	35	White perch	1,981
1987	3	Summer	36	Yellow perch	0
1987	3	Summer	37	Satinfin shiner	0
1987	3	Summer	38	Rock bass	3
1987	3	Summer	39	Northern pipefish	40
1987	3	Summer	40	Redbreast sunfish	6
1987	3	Summer	41	Atlantic needlefish	0
1987	3	Summer	42	Crevalle jack	3
1987	3	Summer	45	Weakfish	30
1987	3	Summer	47	Common shiner	0
1987	3	Summer	49	Lookdown	0
1987	3	Summer	50	Herring family	0
1987	3	Summer	54	Lined seahorse	0
1987	3	Summer	55	Logperch	0
1987	3	Summer	58	Fathead minnow	0
1987	3	Summer	59	Carp and minnow family	0
1987	3	Summer	60	Morone species	0
1987	3	Summer	62	Tautog	0
1987	3	Summer	63	Fourbeard rockling	0
1987	3	Summer	64	Striped cusk-eel	0
1987	3	Summer	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	3	Summer	68	Atlantic moonfish	0
1987	3	Summer	71	Scup	0
1987	3	Summer	72	Winter flounder	6
1987	3	Summer	73	Inland silverside	0
1987	3	Summer	74	Sea lamprey	0
1987	3	Summer	75	Gizzard shad	0
1987	3	Summer	76	Silver hake	0
1987	3	Summer	77	Striped mullet	0
1987	3	Summer	78	Threespine stickleback	0
1987	3	Summer	79	Brown trout	0
1987	3	Summer	80	Butterfish	36
1987	3	Summer	81	White crappie	52
1987	3	Summer	83	Northern pike	0
1987	3	Summer	84	Green sunfish	70
1987	3	Summer	85	Silver perch	0
1987	3	Summer	86	Northern puffer	0
1987	3	Summer	96	Sunfish family	3
1987	3	Summer	98	Red hake	0
1987	3	Summer	100	Central mudminnow	0
1987	3	Summer	101	Grubby	0
1987	3	Summer	102	Eastern mudminnow	0
1987	3	Summer	103	White bass	0
1987	3	Summer	104	Rough silverside	0
1987	3	Summer	105	Longear sunfish	0
1987	3	Summer	106	Summer flounder	6
1987	3	Summer	108	Creek chub	0
1987	3	Summer	109	Black bullhead	3
1987	3	Summer	110	Striped searobin	0
1987	3	Summer	111	Northern searobin	0
1987	3	Summer	113	Atlantic croaker	0
1987	3	Summer	114	Longhorn sculpin	0
1987	3	Summer	116	Hickory shad	3
1987	3	Summer	120	Conger eel	0
1987	3	Summer	122	Warmouth	0
1987	3	Summer	125	White mullet	0
1987	3	Summer	126	Yellow bullhead	0
1987	3	Summer	127	Channel catfish	0
1987	3	Summer	130	Naked goby	0
1987	3	Summer	132	Windowpane	0
1987	3	Summer	133	Spotted hake	0
1987	3	Summer	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	3	Summer	137	American sand lance	0
1987	3	Summer	139	Fourspot flounder	0
1987	3	Summer	140	Atlantic mackerel	0
1987	3	Summer	141	Black sea bass	0
1987	3	Summer	142	Smallmouth flounder	0
1987	3	Summer	143	Rock gunnel	0
1987	3	Summer	144	Inshore lizardfish	0
1987	3	Summer	146	Silver lamprey	0
1987	3	Summer	150	Goby family	0
1987	3	Summer	157	New World silverside family	0
1987	3	Summer	159	Sand flounder family	0
1987	3	Summer	161	Pipefish family	0
1987	3	Summer	162	Mackerel scad	0
1987	3	Summer	164	Cunner	0
1987	3	Summer	169	Gray snapper	0
1987	3	Summer	172	Bigeye scad	0
1987	3	Summer	173	Striped burrfish	0
1987	3	Summer	177	Spotfin butterflyfish	0
1987	3	Summer	179	Planehead filefish	0
1987	3	Summer	180	Atlantic cutlassfish	0
1987	3	Summer	181	Pigfish	0
1987	3	Summer	184	Freckled blenny	0
1987	3	Summer	187	Margined madtom	0
1987	3	Summer	205	Freshwater drum	0
1987	3	Summer	206	King mackerel	0
1987	3	Summer	209	Highfin goby	0
1987	3	Summer	213	Oyster toadfish	0
1987	3	Summer	754	Blue crab	287
1987	3	Summer	999	All fish taxa	13,850.79
1987	3	Fall	1	Alewife	705
1987	3	Fall	2	Bay anchovy	1,533
1987	3	Fall	3	American shad	1,369
1987	3	Fall	4	Bluefish	130
1987	3	Fall	5	Bluegill	242
1987	3	Fall	6	Brown bullhead	0
1987	3	Fall	7	Pumpkinseed	161
1987	3	Fall	8	Black crappie	8
1987	3	Fall	9	Common carp	0
1987	3	Fall	10	American eel	65
1987	3	Fall	11	Goldfish	0
1987	3	Fall	12	Golden shiner	8

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	3	Fall	13	Hogchoker	3,534
1987	3	Fall	14	Tessellated darter	4
1987	3	Fall	15	Banded killifish	96
1987	3	Fall	16	Emerald shiner	0
1987	3	Fall	17	Largemouth bass	19
1987	3	Fall	18	Mummichog	0
1987	3	Fall	19	Atlantic menhaden	23
1987	3	Fall	21	Chain pickerel	0
1987	3	Fall	22	Blueback herring	61,322
1987	3	Fall	23	White sucker	0
1987	3	Fall	24	Atlantic silverside	0
1987	3	Fall	25	Rainbow smelt	790
1987	3	Fall	26	Smallmouth bass	0
1987	3	Fall	27	Shortnose sturgeon	0.00
1987	3	Fall	28	Spottail shiner	27
1987	3	Fall	29	Atlantic sturgeon	0.00
1987	3	Fall	30	Striped bass	1,832
1987	3	Fall	31	Fourspine stickleback	8
1987	3	Fall	32	Atlantic tomcod	196
1987	3	Fall	34	White catfish	529
1987	3	Fall	35	White perch	20,290
1987	3	Fall	36	Yellow perch	15
1987	3	Fall	37	Satinfin shiner	0
1987	3	Fall	38	Rock bass	0
1987	3	Fall	39	Northern pipefish	8
1987	3	Fall	40	Redbreast sunfish	0
1987	3	Fall	41	Atlantic needlefish	0
1987	3	Fall	42	Crevalle jack	130
1987	3	Fall	45	Weakfish	280
1987	3	Fall	47	Common shiner	0
1987	3	Fall	49	Lookdown	8
1987	3	Fall	50	Herring family	0
1987	3	Fall	54	Lined seahorse	0
1987	3	Fall	55	Logperch	0
1987	3	Fall	58	Fathead minnow	0
1987	3	Fall	59	Carp and minnow family	0
1987	3	Fall	60	Morone species	0
1987	3	Fall	62	Tautog	8
1987	3	Fall	63	Fourbeard rockling	4
1987	3	Fall	64	Striped cusk-eel	0
1987	3	Fall	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	3	Fall	68	Atlantic moonfish	0
1987	3	Fall	71	Scup	0
1987	3	Fall	72	Winter flounder	0
1987	3	Fall	73	Inland silverside	0
1987	3	Fall	74	Sea lamprey	0
1987	3	Fall	75	Gizzard shad	567
1987	3	Fall	76	Silver hake	0
1987	3	Fall	77	Striped mullet	0
1987	3	Fall	78	Threespine stickleback	0
1987	3	Fall	79	Brown trout	0
1987	3	Fall	80	Butterfish	50
1987	3	Fall	81	White crappie	42
1987	3	Fall	83	Northern pike	0
1987	3	Fall	84	Green sunfish	0
1987	3	Fall	85	Silver perch	0
1987	3	Fall	86	Northern puffer	0
1987	3	Fall	96	Sunfish family	0
1987	3	Fall	98	Red hake	12
1987	3	Fall	100	Central mudminnow	0
1987	3	Fall	101	Grubby	0
1987	3	Fall	102	Eastern mudminnow	8
1987	3	Fall	103	White bass	0
1987	3	Fall	104	Rough silverside	0
1987	3	Fall	105	Longear sunfish	0
1987	3	Fall	106	Summer flounder	0
1987	3	Fall	108	Creek chub	0
1987	3	Fall	109	Black bullhead	0
1987	3	Fall	110	Striped searobin	19
1987	3	Fall	111	Northern searobin	0
1987	3	Fall	113	Atlantic croaker	0
1987	3	Fall	114	Longhorn sculpin	0
1987	3	Fall	116	Hickory shad	0
1987	3	Fall	120	Conger eel	0
1987	3	Fall	122	Warmouth	23
1987	3	Fall	125	White mullet	0
1987	3	Fall	126	Yellow bullhead	0
1987	3	Fall	127	Channel catfish	0
1987	3	Fall	130	Naked goby	0
1987	3	Fall	132	Windowpane	0
1987	3	Fall	133	Spotted hake	0
1987	3	Fall	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1987	3	Fall	137	American sand lance	0
1987	3	Fall	139	Fourspot flounder	0
1987	3	Fall	140	Atlantic mackerel	0
1987	3	Fall	141	Black sea bass	0
1987	3	Fall	142	Smallmouth flounder	0
1987	3	Fall	143	Rock gunnel	0
1987	3	Fall	144	Inshore lizardfish	0
1987	3	Fall	146	Silver lamprey	0
1987	3	Fall	150	Goby family	0
1987	3	Fall	157	New World silverside family	0
1987	3	Fall	159	Sand flounder family	0
1987	3	Fall	161	Pipefish family	0
1987	3	Fall	162	Mackerel scad	0
1987	3	Fall	164	Cunner	0
1987	3	Fall	169	Gray snapper	0
1987	3	Fall	172	Bigeye scad	0
1987	3	Fall	173	Striped burrfish	0
1987	3	Fall	177	Spotfin butterflyfish	0
1987	3	Fall	179	Planehead filefish	0
1987	3	Fall	180	Atlantic cutlassfish	0
1987	3	Fall	181	Pigfish	0
1987	3	Fall	184	Freckled blenny	0
1987	3	Fall	187	Margined madtom	0
1987	3	Fall	205	Freshwater drum	0
1987	3	Fall	206	King mackerel	0
1987	3	Fall	209	Highfin goby	0
1987	3	Fall	213	Oyster toadfish	0
1987	3	Fall	754	Blue crab	700
1987	3	Fall	999	All fish taxa	94,065.00
1988	2	Winter	1	Alewife	78
1988	2	Winter	2	Bay anchovy	0
1988	2	Winter	3	American shad	0
1988	2	Winter	4	Bluefish	0
1988	2	Winter	5	Bluegill	11
1988	2	Winter	6	Brown bullhead	32
1988	2	Winter	7	Pumpkinseed	449
1988	2	Winter	8	Black crappie	0
1988	2	Winter	9	Common carp	0
1988	2	Winter	10	American eel	164
1988	2	Winter	11	Goldfish	39
1988	2	Winter	12	Golden shiner	93

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	2	Winter	13	Hogchoker	282
1988	2	Winter	14	Tessellated darter	18
1988	2	Winter	15	Banded killifish	271
1988	2	Winter	16	Emerald shiner	0
1988	2	Winter	17	Largemouth bass	0
1988	2	Winter	18	Mummichog	0
1988	2	Winter	19	Atlantic menhaden	0
1988	2	Winter	21	Chain pickerel	0
1988	2	Winter	22	Blueback herring	96
1988	2	Winter	23	White sucker	0
1988	2	Winter	24	Atlantic silverside	0
1988	2	Winter	25	Rainbow smelt	1,341
1988	2	Winter	26	Smallmouth bass	0
1988	2	Winter	27	Shortnose sturgeon	1.98
1988	2	Winter	28	Spottail shiner	941
1988	2	Winter	29	Atlantic sturgeon	2.11
1988	2	Winter	30	Striped bass	41,813
1988	2	Winter	31	Fourspine stickleback	0
1988	2	Winter	32	Atlantic tomcod	645
1988	2	Winter	34	White catfish	1,219
1988	2	Winter	35	White perch	337,116
1988	2	Winter	36	Yellow perch	135
1988	2	Winter	37	Satinfin shiner	0
1988	2	Winter	38	Rock bass	0
1988	2	Winter	39	Northern pipefish	0
1988	2	Winter	40	Redbreast sunfish	0
1988	2	Winter	41	Atlantic needlefish	0
1988	2	Winter	42	Crevalle jack	0
1988	2	Winter	45	Weakfish	0
1988	2	Winter	47	Common shiner	0
1988	2	Winter	49	Lookdown	0
1988	2	Winter	50	Herring family	0
1988	2	Winter	54	Lined seahorse	0
1988	2	Winter	55	Logperch	0
1988	2	Winter	58	Fathead minnow	0
1988	2	Winter	59	Carp and minnow family	0
1988	2	Winter	60	Morone species	0
1988	2	Winter	62	Tautog	0
1988	2	Winter	63	Fourbeard rockling	0
1988	2	Winter	64	Striped cusk-eel	0
1988	2	Winter	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	2	Winter	68	Atlantic moonfish	0
1988	2	Winter	71	Scup	4
1988	2	Winter	72	Winter flounder	29
1988	2	Winter	73	Inland silverside	4
1988	2	Winter	74	Sea lamprey	4
1988	2	Winter	75	Gizzard shad	3,590
1988	2	Winter	76	Silver hake	0
1988	2	Winter	77	Striped mullet	0
1988	2	Winter	78	Threespine stickleback	1,437
1988	2	Winter	79	Brown trout	0
1988	2	Winter	80	Butterfish	0
1988	2	Winter	81	White crappie	14
1988	2	Winter	83	Northern pike	0
1988	2	Winter	84	Green sunfish	0
1988	2	Winter	85	Silver perch	0
1988	2	Winter	86	Northern puffer	0
1988	2	Winter	96	Sunfish family	0
1988	2	Winter	98	Red hake	11
1988	2	Winter	100	Central mudminnow	0
1988	2	Winter	101	Grubby	0
1988	2	Winter	102	Eastern mudminnow	4
1988	2	Winter	103	White bass	0
1988	2	Winter	104	Rough silverside	0
1988	2	Winter	105	Longear sunfish	0
1988	2	Winter	106	Summer flounder	0
1988	2	Winter	108	Creek chub	0
1988	2	Winter	109	Black bullhead	0
1988	2	Winter	110	Striped searobin	4
1988	2	Winter	111	Northern searobin	0
1988	2	Winter	113	Atlantic croaker	0
1988	2	Winter	114	Longhorn sculpin	0
1988	2	Winter	116	Hickory shad	0
1988	2	Winter	120	Conger eel	0
1988	2	Winter	122	Warmouth	0
1988	2	Winter	125	White mullet	0
1988	2	Winter	126	Yellow bullhead	0
1988	2	Winter	127	Channel catfish	0
1988	2	Winter	130	Naked goby	4
1988	2	Winter	132	Windowpane	0
1988	2	Winter	133	Spotted hake	0
1988	2	Winter	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	2	Winter	137	American sand lance	0
1988	2	Winter	139	Fourspot flounder	0
1988	2	Winter	140	Atlantic mackerel	0
1988	2	Winter	141	Black sea bass	0
1988	2	Winter	142	Smallmouth flounder	0
1988	2	Winter	143	Rock gunnel	0
1988	2	Winter	144	Inshore lizardfish	0
1988	2	Winter	146	Silver lamprey	0
1988	2	Winter	150	Goby family	0
1988	2	Winter	157	New World silverside family	0
1988	2	Winter	159	Sand flounder family	0
1988	2	Winter	161	Pipefish family	0
1988	2	Winter	162	Mackerel scad	0
1988	2	Winter	164	Cunner	0
1988	2	Winter	169	Gray snapper	0
1988	2	Winter	172	Bigeye scad	0
1988	2	Winter	173	Striped burrfish	0
1988	2	Winter	177	Spotfin butterflyfish	0
1988	2	Winter	179	Planehead filefish	0
1988	2	Winter	180	Atlantic cutlassfish	0
1988	2	Winter	181	Pigfish	0
1988	2	Winter	184	Freckled blenny	0
1988	2	Winter	187	Margined madtom	0
1988	2	Winter	205	Freshwater drum	0
1988	2	Winter	206	King mackerel	0
1988	2	Winter	209	Highfin goby	0
1988	2	Winter	213	Oyster toadfish	0
1988	2	Winter	754	Blue crab	1
1988	2	Winter	999	All fish taxa	389,852.09
1988	2	Spring	1	Alewife	415
1988	2	Spring	2	Bay anchovy	0
1988	2	Spring	3	American shad	30
1988	2	Spring	4	Bluefish	0
1988	2	Spring	5	Bluegill	91
1988	2	Spring	6	Brown bullhead	30
1988	2	Spring	7	Pumpkinseed	101
1988	2	Spring	8	Black crappie	0
1988	2	Spring	9	Common carp	0
1988	2	Spring	10	American eel	536
1988	2	Spring	11	Goldfish	30
1988	2	Spring	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	2	Spring	13	Hogchoker	19,221
1988	2	Spring	14	Tessellated darter	0
1988	2	Spring	15	Banded killifish	30
1988	2	Spring	16	Emerald shiner	0
1988	2	Spring	17	Largemouth bass	0
1988	2	Spring	18	Mummichog	0
1988	2	Spring	19	Atlantic menhaden	0
1988	2	Spring	21	Chain pickerel	0
1988	2	Spring	22	Blueback herring	738
1988	2	Spring	23	White sucker	30
1988	2	Spring	24	Atlantic silverside	30
1988	2	Spring	25	Rainbow smelt	647
1988	2	Spring	26	Smallmouth bass	0
1988	2	Spring	27	Shortnose sturgeon	2.52
1988	2	Spring	28	Spottail shiner	30
1988	2	Spring	29	Atlantic sturgeon	0.00
1988	2	Spring	30	Striped bass	1,213
1988	2	Spring	31	Fourspine stickleback	0
1988	2	Spring	32	Atlantic tomcod	6,714
1988	2	Spring	34	White catfish	2,194
1988	2	Spring	35	White perch	76,855
1988	2	Spring	36	Yellow perch	51
1988	2	Spring	37	Satinfin shiner	0
1988	2	Spring	38	Rock bass	0
1988	2	Spring	39	Northern pipefish	162
1988	2	Spring	40	Redbreast sunfish	0
1988	2	Spring	41	Atlantic needlefish	0
1988	2	Spring	42	Crevalle jack	0
1988	2	Spring	45	Weakfish	30
1988	2	Spring	47	Common shiner	0
1988	2	Spring	49	Lookdown	0
1988	2	Spring	50	Herring family	0
1988	2	Spring	54	Lined seahorse	0
1988	2	Spring	55	Logperch	0
1988	2	Spring	58	Fathead minnow	0
1988	2	Spring	59	Carp and minnow family	0
1988	2	Spring	60	Morone species	0
1988	2	Spring	62	Tautog	51
1988	2	Spring	63	Fourbeard rockling	0
1988	2	Spring	64	Striped cusk-eel	30
1988	2	Spring	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	2	Spring	68	Atlantic moonfish	0
1988	2	Spring	71	Scup	0
1988	2	Spring	72	Winter flounder	30
1988	2	Spring	73	Inland silverside	0
1988	2	Spring	74	Sea lamprey	0
1988	2	Spring	75	Gizzard shad	0
1988	2	Spring	76	Silver hake	0
1988	2	Spring	77	Striped mullet	0
1988	2	Spring	78	Threespine stickleback	0
1988	2	Spring	79	Brown trout	0
1988	2	Spring	80	Butterfish	0
1988	2	Spring	81	White crappie	0
1988	2	Spring	83	Northern pike	0
1988	2	Spring	84	Green sunfish	0
1988	2	Spring	85	Silver perch	0
1988	2	Spring	86	Northern puffer	0
1988	2	Spring	96	Sunfish family	0
1988	2	Spring	98	Red hake	81
1988	2	Spring	100	Central mudminnow	0
1988	2	Spring	101	Grubby	30
1988	2	Spring	102	Eastern mudminnow	0
1988	2	Spring	103	White bass	0
1988	2	Spring	104	Rough silverside	0
1988	2	Spring	105	Longear sunfish	0
1988	2	Spring	106	Summer flounder	91
1988	2	Spring	108	Creek chub	0
1988	2	Spring	109	Black bullhead	0
1988	2	Spring	110	Striped searobin	0
1988	2	Spring	111	Northern searobin	0
1988	2	Spring	113	Atlantic croaker	0
1988	2	Spring	114	Longhorn sculpin	0
1988	2	Spring	116	Hickory shad	0
1988	2	Spring	120	Conger eel	0
1988	2	Spring	122	Warmouth	0
1988	2	Spring	125	White mullet	0
1988	2	Spring	126	Yellow bullhead	0
1988	2	Spring	127	Channel catfish	0
1988	2	Spring	130	Naked goby	61
1988	2	Spring	132	Windowpane	30
1988	2	Spring	133	Spotted hake	1,183
1988	2	Spring	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	2	Spring	137	American sand lance	0
1988	2	Spring	139	Fourspot flounder	0
1988	2	Spring	140	Atlantic mackerel	0
1988	2	Spring	141	Black sea bass	0
1988	2	Spring	142	Smallmouth flounder	0
1988	2	Spring	143	Rock gunnel	0
1988	2	Spring	144	Inshore lizardfish	0
1988	2	Spring	146	Silver lamprey	0
1988	2	Spring	150	Goby family	0
1988	2	Spring	157	New World silverside family	0
1988	2	Spring	159	Sand flounder family	0
1988	2	Spring	161	Pipefish family	0
1988	2	Spring	162	Mackerel scad	0
1988	2	Spring	164	Cunner	30
1988	2	Spring	169	Gray snapper	0
1988	2	Spring	172	Bigeye scad	0
1988	2	Spring	173	Striped burrfish	0
1988	2	Spring	177	Spotfin butterflyfish	0
1988	2	Spring	179	Planehead filefish	0
1988	2	Spring	180	Atlantic cutlassfish	0
1988	2	Spring	181	Pigfish	0
1988	2	Spring	184	Freckled blenny	0
1988	2	Spring	187	Margined madtom	0
1988	2	Spring	205	Freshwater drum	0
1988	2	Spring	206	King mackerel	0
1988	2	Spring	209	Highfin goby	0
1988	2	Spring	213	Oyster toadfish	0
1988	2	Spring	754	Blue crab	1,304
1988	2	Spring	999	All fish taxa	110,797.52
1988	2	Summer	1	Alewife	460
1988	2	Summer	2	Bay anchovy	18,091
1988	2	Summer	3	American shad	84
1988	2	Summer	4	Bluefish	2,952
1988	2	Summer	5	Bluegill	59
1988	2	Summer	6	Brown bullhead	0
1988	2	Summer	7	Pumpkinseed	42
1988	2	Summer	8	Black crappie	0
1988	2	Summer	9	Common carp	0
1988	2	Summer	10	American eel	2,024
1988	2	Summer	11	Goldfish	0
1988	2	Summer	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	2	Summer	13	Hogchoker	49,429
1988	2	Summer	14	Tessellated darter	0
1988	2	Summer	15	Banded killifish	25
1988	2	Summer	16	Emerald shiner	0
1988	2	Summer	17	Largemouth bass	0
1988	2	Summer	18	Mummichog	0
1988	2	Summer	19	Atlantic menhaden	142
1988	2	Summer	21	Chain pickerel	0
1988	2	Summer	22	Blueback herring	1,556
1988	2	Summer	23	White sucker	0
1988	2	Summer	24	Atlantic silverside	25
1988	2	Summer	25	Rainbow smelt	3,529
1988	2	Summer	26	Smallmouth bass	0
1988	2	Summer	27	Shortnose sturgeon	0.00
1988	2	Summer	28	Spottail shiner	0
1988	2	Summer	29	Atlantic sturgeon	0.00
1988	2	Summer	30	Striped bass	10,003
1988	2	Summer	31	Fourspine stickleback	0
1988	2	Summer	32	Atlantic tomcod	2,066
1988	2	Summer	34	White catfish	109
1988	2	Summer	35	White perch	84,239
1988	2	Summer	36	Yellow perch	0
1988	2	Summer	37	Satinfin shiner	0
1988	2	Summer	38	Rock bass	0
1988	2	Summer	39	Northern pipefish	33
1988	2	Summer	40	Redbreast sunfish	0
1988	2	Summer	41	Atlantic needlefish	0
1988	2	Summer	42	Crevalle jack	192
1988	2	Summer	45	Weakfish	18,024
1988	2	Summer	47	Common shiner	0
1988	2	Summer	49	Lookdown	0
1988	2	Summer	50	Herring family	0
1988	2	Summer	54	Lined seahorse	0
1988	2	Summer	55	Logperch	0
1988	2	Summer	58	Fathead minnow	0
1988	2	Summer	59	Carp and minnow family	0
1988	2	Summer	60	Morone species	0
1988	2	Summer	62	Tautog	0
1988	2	Summer	63	Fourbeard rockling	0
1988	2	Summer	64	Striped cusk-eel	0
1988	2	Summer	67	Spot	284

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	2	Summer	68	Atlantic moonfish	0
1988	2	Summer	71	Scup	0
1988	2	Summer	72	Winter flounder	0
1988	2	Summer	73	Inland silverside	0
1988	2	Summer	74	Sea lamprey	0
1988	2	Summer	75	Gizzard shad	0
1988	2	Summer	76	Silver hake	0
1988	2	Summer	77	Striped mullet	0
1988	2	Summer	78	Threespine stickleback	0
1988	2	Summer	79	Brown trout	0
1988	2	Summer	80	Butterfish	151
1988	2	Summer	81	White crappie	0
1988	2	Summer	83	Northern pike	0
1988	2	Summer	84	Green sunfish	0
1988	2	Summer	85	Silver perch	0
1988	2	Summer	86	Northern puffer	0
1988	2	Summer	96	Sunfish family	0
1988	2	Summer	98	Red hake	0
1988	2	Summer	100	Central mudminnow	0
1988	2	Summer	101	Grubby	0
1988	2	Summer	102	Eastern mudminnow	25
1988	2	Summer	103	White bass	0
1988	2	Summer	104	Rough silverside	0
1988	2	Summer	105	Longear sunfish	0
1988	2	Summer	106	Summer flounder	84
1988	2	Summer	108	Creek chub	0
1988	2	Summer	109	Black bullhead	0
1988	2	Summer	110	Striped searobin	0
1988	2	Summer	111	Northern searobin	50
1988	2	Summer	113	Atlantic croaker	0
1988	2	Summer	114	Longhorn sculpin	0
1988	2	Summer	116	Hickory shad	0
1988	2	Summer	120	Conger eel	0
1988	2	Summer	122	Warmouth	0
1988	2	Summer	125	White mullet	0
1988	2	Summer	126	Yellow bullhead	0
1988	2	Summer	127	Channel catfish	0
1988	2	Summer	130	Naked goby	25
1988	2	Summer	132	Windowpane	50
1988	2	Summer	133	Spotted hake	0
1988	2	Summer	136	Northern stargazer	84

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	2	Summer	137	American sand lance	0
1988	2	Summer	139	Fourspot flounder	0
1988	2	Summer	140	Atlantic mackerel	0
1988	2	Summer	141	Black sea bass	0
1988	2	Summer	142	Smallmouth flounder	0
1988	2	Summer	143	Rock gunnel	0
1988	2	Summer	144	Inshore lizardfish	0
1988	2	Summer	146	Silver lamprey	0
1988	2	Summer	150	Goby family	0
1988	2	Summer	157	New World silverside family	0
1988	2	Summer	159	Sand flounder family	0
1988	2	Summer	161	Pipefish family	0
1988	2	Summer	162	Mackerel scad	0
1988	2	Summer	164	Cunner	0
1988	2	Summer	169	Gray snapper	0
1988	2	Summer	172	Bigeye scad	0
1988	2	Summer	173	Striped burrfish	0
1988	2	Summer	177	Spotfin butterflyfish	0
1988	2	Summer	179	Planehead filefish	0
1988	2	Summer	180	Atlantic cutlassfish	0
1988	2	Summer	181	Pigfish	0
1988	2	Summer	184	Freckled blenny	0
1988	2	Summer	187	Margined madtom	0
1988	2	Summer	205	Freshwater drum	0
1988	2	Summer	206	King mackerel	0
1988	2	Summer	209	Highfin goby	0
1988	2	Summer	213	Oyster toadfish	0
1988	2	Summer	754	Blue crab	16,220
1988	2	Summer	999	All fish taxa	193,837.00
1988	2	Fall	1	Alewife	392
1988	2	Fall	2	Bay anchovy	13,133
1988	2	Fall	3	American shad	242
1988	2	Fall	4	Bluefish	204
1988	2	Fall	5	Bluegill	995
1988	2	Fall	6	Brown bullhead	28
1988	2	Fall	7	Pumpkinseed	651
1988	2	Fall	8	Black crappie	3
1988	2	Fall	9	Common carp	0
1988	2	Fall	10	American eel	157
1988	2	Fall	11	Goldfish	17
1988	2	Fall	12	Golden shiner	6

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	2	Fall	13	Hogchoker	3,584
1988	2	Fall	14	Tessellated darter	192
1988	2	Fall	15	Banded killifish	532
1988	2	Fall	16	Emerald shiner	0
1988	2	Fall	17	Largemouth bass	6
1988	2	Fall	18	Mummichog	3
1988	2	Fall	19	Atlantic menhaden	20
1988	2	Fall	21	Chain pickerel	0
1988	2	Fall	22	Blueback herring	21,306
1988	2	Fall	23	White sucker	0
1988	2	Fall	24	Atlantic silverside	215
1988	2	Fall	25	Rainbow smelt	134
1988	2	Fall	26	Smallmouth bass	0
1988	2	Fall	27	Shortnose sturgeon	2.52
1988	2	Fall	28	Spottail shiner	304
1988	2	Fall	29	Atlantic sturgeon	0.00
1988	2	Fall	30	Striped bass	17,940
1988	2	Fall	31	Fourspine stickleback	0
1988	2	Fall	32	Atlantic tomcod	375
1988	2	Fall	34	White catfish	2,025
1988	2	Fall	35	White perch	160,588
1988	2	Fall	36	Yellow perch	48
1988	2	Fall	37	Satinfin shiner	0
1988	2	Fall	38	Rock bass	0
1988	2	Fall	39	Northern pipefish	539
1988	2	Fall	40	Redbreast sunfish	3
1988	2	Fall	41	Atlantic needlefish	0
1988	2	Fall	42	Crevalle jack	177
1988	2	Fall	45	Weakfish	4,222
1988	2	Fall	47	Common shiner	0
1988	2	Fall	49	Lookdown	81
1988	2	Fall	50	Herring family	0
1988	2	Fall	54	Lined seahorse	4
1988	2	Fall	55	Logperch	0
1988	2	Fall	58	Fathead minnow	0
1988	2	Fall	59	Carp and minnow family	0
1988	2	Fall	60	Morone species	0
1988	2	Fall	62	Tautog	0
1988	2	Fall	63	Fourbeard rockling	0
1988	2	Fall	64	Striped cusk-eel	0
1988	2	Fall	67	Spot	67

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	2	Fall	68	Atlantic moonfish	8
1988	2	Fall	71	Scup	0
1988	2	Fall	72	Winter flounder	0
1988	2	Fall	73	Inland silverside	34
1988	2	Fall	74	Sea lamprey	3
1988	2	Fall	75	Gizzard shad	149
1988	2	Fall	76	Silver hake	48
1988	2	Fall	77	Striped mullet	0
1988	2	Fall	78	Threespine stickleback	0
1988	2	Fall	79	Brown trout	0
1988	2	Fall	80	Butterfish	239
1988	2	Fall	81	White crappie	3
1988	2	Fall	83	Northern pike	0
1988	2	Fall	84	Green sunfish	0
1988	2	Fall	85	Silver perch	0
1988	2	Fall	86	Northern puffer	0
1988	2	Fall	96	Sunfish family	0
1988	2	Fall	98	Red hake	8
1988	2	Fall	100	Central mudminnow	0
1988	2	Fall	101	Grubby	0
1988	2	Fall	102	Eastern mudminnow	0
1988	2	Fall	103	White bass	0
1988	2	Fall	104	Rough silverside	0
1988	2	Fall	105	Longear sunfish	0
1988	2	Fall	106	Summer flounder	8
1988	2	Fall	108	Creek chub	0
1988	2	Fall	109	Black bullhead	0
1988	2	Fall	110	Striped searobin	110
1988	2	Fall	111	Northern searobin	0
1988	2	Fall	113	Atlantic croaker	0
1988	2	Fall	114	Longhorn sculpin	0
1988	2	Fall	116	Hickory shad	0
1988	2	Fall	120	Conger eel	0
1988	2	Fall	122	Warmouth	14
1988	2	Fall	125	White mullet	0
1988	2	Fall	126	Yellow bullhead	0
1988	2	Fall	127	Channel catfish	0
1988	2	Fall	130	Naked goby	45
1988	2	Fall	132	Windowpane	137
1988	2	Fall	133	Spotted hake	3
1988	2	Fall	136	Northern stargazer	4

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	2	Fall	137	American sand lance	3
1988	2	Fall	139	Fourspot flounder	8
1988	2	Fall	140	Atlantic mackerel	0
1988	2	Fall	141	Black sea bass	8
1988	2	Fall	142	Smallmouth flounder	0
1988	2	Fall	143	Rock gunnel	0
1988	2	Fall	144	Inshore lizardfish	0
1988	2	Fall	146	Silver lamprey	0
1988	2	Fall	150	Goby family	0
1988	2	Fall	157	New World silverside family	0
1988	2	Fall	159	Sand flounder family	0
1988	2	Fall	161	Pipefish family	0
1988	2	Fall	162	Mackerel scad	0
1988	2	Fall	164	Cunner	28
1988	2	Fall	169	Gray snapper	0
1988	2	Fall	172	Bigeye scad	0
1988	2	Fall	173	Striped burrfish	0
1988	2	Fall	177	Spotfin butterflyfish	0
1988	2	Fall	179	Planehead filefish	0
1988	2	Fall	180	Atlantic cutlassfish	0
1988	2	Fall	181	Pigfish	0
1988	2	Fall	184	Freckled blenny	0
1988	2	Fall	187	Margined madtom	0
1988	2	Fall	205	Freshwater drum	0
1988	2	Fall	206	King mackerel	0
1988	2	Fall	209	Highfin goby	0
1988	2	Fall	213	Oyster toadfish	0
1988	2	Fall	754	Blue crab	23,838
1988	2	Fall	999	All fish taxa	229,055.52
1988	3	Winter	1	Alewife	36
1988	3	Winter	2	Bay anchovy	8
1988	3	Winter	3	American shad	0
1988	3	Winter	4	Bluefish	0
1988	3	Winter	5	Bluegill	5
1988	3	Winter	6	Brown bullhead	10
1988	3	Winter	7	Pumpkinseed	153
1988	3	Winter	8	Black crappie	5
1988	3	Winter	9	Common carp	0
1988	3	Winter	10	American eel	57
1988	3	Winter	11	Goldfish	29
1988	3	Winter	12	Golden shiner	34

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	3	Winter	13	Hogchoker	702
1988	3	Winter	14	Tessellated darter	0
1988	3	Winter	15	Banded killifish	29
1988	3	Winter	16	Emerald shiner	0
1988	3	Winter	17	Largemouth bass	18
1988	3	Winter	18	Mummichog	0
1988	3	Winter	19	Atlantic menhaden	3
1988	3	Winter	21	Chain pickerel	0
1988	3	Winter	22	Blueback herring	86
1988	3	Winter	23	White sucker	0
1988	3	Winter	24	Atlantic silverside	3
1988	3	Winter	25	Rainbow smelt	341
1988	3	Winter	26	Smallmouth bass	0
1988	3	Winter	27	Shortnose sturgeon	0.00
1988	3	Winter	28	Spottail shiner	351
1988	3	Winter	29	Atlantic sturgeon	0.00
1988	3	Winter	30	Striped bass	14,589
1988	3	Winter	31	Fourspine stickleback	0
1988	3	Winter	32	Atlantic tomcod	429
1988	3	Winter	34	White catfish	861
1988	3	Winter	35	White perch	104,395
1988	3	Winter	36	Yellow perch	18
1988	3	Winter	37	Satinfin shiner	0
1988	3	Winter	38	Rock bass	0
1988	3	Winter	39	Northern pipefish	0
1988	3	Winter	40	Redbreast sunfish	0
1988	3	Winter	41	Atlantic needlefish	0
1988	3	Winter	42	Crevalle jack	0
1988	3	Winter	45	Weakfish	0
1988	3	Winter	47	Common shiner	0
1988	3	Winter	49	Lookdown	0
1988	3	Winter	50	Herring family	0
1988	3	Winter	54	Lined seahorse	0
1988	3	Winter	55	Logperch	0
1988	3	Winter	58	Fathead minnow	0
1988	3	Winter	59	Carp and minnow family	0
1988	3	Winter	60	Morone species	0
1988	3	Winter	62	Tautog	0
1988	3	Winter	63	Fourbeard rockling	3
1988	3	Winter	64	Striped cusk-eel	0
1988	3	Winter	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	3	Winter	68	Atlantic moonfish	0
1988	3	Winter	71	Scup	0
1988	3	Winter	72	Winter flounder	3
1988	3	Winter	73	Inland silverside	0
1988	3	Winter	74	Sea lamprey	0
1988	3	Winter	75	Gizzard shad	11,513
1988	3	Winter	76	Silver hake	0
1988	3	Winter	77	Striped mullet	0
1988	3	Winter	78	Threespine stickleback	159
1988	3	Winter	79	Brown trout	0
1988	3	Winter	80	Butterfish	0
1988	3	Winter	81	White crappie	23
1988	3	Winter	83	Northern pike	0
1988	3	Winter	84	Green sunfish	0
1988	3	Winter	85	Silver perch	0
1988	3	Winter	86	Northern puffer	0
1988	3	Winter	96	Sunfish family	0
1988	3	Winter	98	Red hake	29
1988	3	Winter	100	Central mudminnow	0
1988	3	Winter	101	Grubby	0
1988	3	Winter	102	Eastern mudminnow	3
1988	3	Winter	103	White bass	0
1988	3	Winter	104	Rough silverside	0
1988	3	Winter	105	Longear sunfish	0
1988	3	Winter	106	Summer flounder	0
1988	3	Winter	108	Creek chub	0
1988	3	Winter	109	Black bullhead	0
1988	3	Winter	110	Striped searobin	0
1988	3	Winter	111	Northern searobin	0
1988	3	Winter	113	Atlantic croaker	0
1988	3	Winter	114	Longhorn sculpin	0
1988	3	Winter	116	Hickory shad	0
1988	3	Winter	120	Conger eel	0
1988	3	Winter	122	Warmouth	0
1988	3	Winter	125	White mullet	0
1988	3	Winter	126	Yellow bullhead	0
1988	3	Winter	127	Channel catfish	0
1988	3	Winter	130	Naked goby	0
1988	3	Winter	132	Windowpane	0
1988	3	Winter	133	Spotted hake	3
1988	3	Winter	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	3	Winter	137	American sand lance	0
1988	3	Winter	139	Fourspot flounder	0
1988	3	Winter	140	Atlantic mackerel	0
1988	3	Winter	141	Black sea bass	0
1988	3	Winter	142	Smallmouth flounder	0
1988	3	Winter	143	Rock gunnel	0
1988	3	Winter	144	Inshore lizardfish	0
1988	3	Winter	146	Silver lamprey	0
1988	3	Winter	150	Goby family	0
1988	3	Winter	157	New World silverside family	0
1988	3	Winter	159	Sand flounder family	0
1988	3	Winter	161	Pipefish family	0
1988	3	Winter	162	Mackerel scad	0
1988	3	Winter	164	Cunner	0
1988	3	Winter	169	Gray snapper	0
1988	3	Winter	172	Bigeye scad	0
1988	3	Winter	173	Striped burrfish	0
1988	3	Winter	177	Spotfin butterflyfish	0
1988	3	Winter	179	Planehead filefish	0
1988	3	Winter	180	Atlantic cutlassfish	0
1988	3	Winter	181	Pigfish	0
1988	3	Winter	184	Freckled blenny	0
1988	3	Winter	187	Margined madtom	0
1988	3	Winter	205	Freshwater drum	0
1988	3	Winter	206	King mackerel	0
1988	3	Winter	209	Highfin goby	0
1988	3	Winter	213	Oyster toadfish	0
1988	3	Winter	754	Blue crab	0
1988	3	Winter	999	All fish taxa	133,898.00
1988	3	Spring	1	Alewife	354
1988	3	Spring	2	Bay anchovy	89
1988	3	Spring	3	American shad	50
1988	3	Spring	4	Bluefish	50
1988	3	Spring	5	Bluegill	23
1988	3	Spring	6	Brown bullhead	8
1988	3	Spring	7	Pumpkinseed	69
1988	3	Spring	8	Black crappie	0
1988	3	Spring	9	Common carp	0
1988	3	Spring	10	American eel	108
1988	3	Spring	11	Goldfish	8
1988	3	Spring	12	Golden shiner	8

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	3	Spring	13	Hogchoker	3,708
1988	3	Spring	14	Tessellated darter	0
1988	3	Spring	15	Banded killifish	0
1988	3	Spring	16	Emerald shiner	0
1988	3	Spring	17	Largemouth bass	0
1988	3	Spring	18	Mummichog	0
1988	3	Spring	19	Atlantic menhaden	0
1988	3	Spring	21	Chain pickerel	0
1988	3	Spring	22	Blueback herring	874
1988	3	Spring	23	White sucker	0
1988	3	Spring	24	Atlantic silverside	0
1988	3	Spring	25	Rainbow smelt	989
1988	3	Spring	26	Smallmouth bass	0
1988	3	Spring	27	Shortnose sturgeon	0.00
1988	3	Spring	28	Spottail shiner	8
1988	3	Spring	29	Atlantic sturgeon	0.00
1988	3	Spring	30	Striped bass	470
1988	3	Spring	31	Fourspine stickleback	0
1988	3	Spring	32	Atlantic tomcod	4,816
1988	3	Spring	34	White catfish	404
1988	3	Spring	35	White perch	29,583
1988	3	Spring	36	Yellow perch	0
1988	3	Spring	37	Satinfin shiner	0
1988	3	Spring	38	Rock bass	0
1988	3	Spring	39	Northern pipefish	58
1988	3	Spring	40	Redbreast sunfish	0
1988	3	Spring	41	Atlantic needlefish	0
1988	3	Spring	42	Crevalle jack	0
1988	3	Spring	45	Weakfish	0
1988	3	Spring	47	Common shiner	0
1988	3	Spring	49	Lookdown	0
1988	3	Spring	50	Herring family	0
1988	3	Spring	54	Lined seahorse	0
1988	3	Spring	55	Logperch	0
1988	3	Spring	58	Fathead minnow	0
1988	3	Spring	59	Carp and minnow family	0
1988	3	Spring	60	Morone species	0
1988	3	Spring	62	Tautog	23
1988	3	Spring	63	Fourbeard rockling	0
1988	3	Spring	64	Striped cusk-eel	8
1988	3	Spring	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	3	Spring	68	Atlantic moonfish	0
1988	3	Spring	71	Scup	0
1988	3	Spring	72	Winter flounder	8
1988	3	Spring	73	Inland silverside	0
1988	3	Spring	74	Sea lamprey	0
1988	3	Spring	75	Gizzard shad	0
1988	3	Spring	76	Silver hake	0
1988	3	Spring	77	Striped mullet	0
1988	3	Spring	78	Threespine stickleback	31
1988	3	Spring	79	Brown trout	0
1988	3	Spring	80	Butterfish	0
1988	3	Spring	81	White crappie	0
1988	3	Spring	83	Northern pike	0
1988	3	Spring	84	Green sunfish	0
1988	3	Spring	85	Silver perch	0
1988	3	Spring	86	Northern puffer	0
1988	3	Spring	96	Sunfish family	0
1988	3	Spring	98	Red hake	8
1988	3	Spring	100	Central mudminnow	0
1988	3	Spring	101	Grubby	0
1988	3	Spring	102	Eastern mudminnow	0
1988	3	Spring	103	White bass	0
1988	3	Spring	104	Rough silverside	0
1988	3	Spring	105	Longear sunfish	0
1988	3	Spring	106	Summer flounder	27
1988	3	Spring	108	Creek chub	0
1988	3	Spring	109	Black bullhead	0
1988	3	Spring	110	Striped searobin	0
1988	3	Spring	111	Northern searobin	0
1988	3	Spring	113	Atlantic croaker	0
1988	3	Spring	114	Longhorn sculpin	0
1988	3	Spring	116	Hickory shad	0
1988	3	Spring	120	Conger eel	0
1988	3	Spring	122	Warmouth	0
1988	3	Spring	125	White mullet	0
1988	3	Spring	126	Yellow bullhead	0
1988	3	Spring	127	Channel catfish	0
1988	3	Spring	130	Naked goby	0
1988	3	Spring	132	Windowpane	0
1988	3	Spring	133	Spotted hake	400
1988	3	Spring	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	3	Spring	137	American sand lance	0
1988	3	Spring	139	Fourspot flounder	0
1988	3	Spring	140	Atlantic mackerel	0
1988	3	Spring	141	Black sea bass	0
1988	3	Spring	142	Smallmouth flounder	0
1988	3	Spring	143	Rock gunnel	0
1988	3	Spring	144	Inshore lizardfish	0
1988	3	Spring	146	Silver lamprey	0
1988	3	Spring	150	Goby family	0
1988	3	Spring	157	New World silverside family	0
1988	3	Spring	159	Sand flounder family	0
1988	3	Spring	161	Pipefish family	0
1988	3	Spring	162	Mackerel scad	0
1988	3	Spring	164	Cunner	8
1988	3	Spring	169	Gray snapper	0
1988	3	Spring	172	Bigeye scad	0
1988	3	Spring	173	Striped burrfish	0
1988	3	Spring	177	Spotfin butterflyfish	0
1988	3	Spring	179	Planehead filefish	0
1988	3	Spring	180	Atlantic cutlassfish	0
1988	3	Spring	181	Pigfish	0
1988	3	Spring	184	Freckled blenny	0
1988	3	Spring	187	Margined madtom	0
1988	3	Spring	205	Freshwater drum	0
1988	3	Spring	206	King mackerel	0
1988	3	Spring	209	Highfin goby	0
1988	3	Spring	213	Oyster toadfish	0
1988	3	Spring	754	Blue crab	1,207
1988	3	Spring	999	All fish taxa	42,190.00
1988	3	Summer	1	Alewife	300
1988	3	Summer	2	Bay anchovy	3,846
1988	3	Summer	3	American shad	83
1988	3	Summer	4	Bluefish	418
1988	3	Summer	5	Bluegill	12
1988	3	Summer	6	Brown bullhead	6
1988	3	Summer	7	Pumpkinseed	6
1988	3	Summer	8	Black crappie	0
1988	3	Summer	9	Common carp	0
1988	3	Summer	10	American eel	74
1988	3	Summer	11	Goldfish	0
1988	3	Summer	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	3	Summer	13	Hogchoker	9,455
1988	3	Summer	14	Tessellated darter	0
1988	3	Summer	15	Banded killifish	0
1988	3	Summer	16	Emerald shiner	0
1988	3	Summer	17	Largemouth bass	0
1988	3	Summer	18	Mummichog	0
1988	3	Summer	19	Atlantic menhaden	24
1988	3	Summer	21	Chain pickerel	0
1988	3	Summer	22	Blueback herring	1,445
1988	3	Summer	23	White sucker	0
1988	3	Summer	24	Atlantic silverside	0
1988	3	Summer	25	Rainbow smelt	383
1988	3	Summer	26	Smallmouth bass	0
1988	3	Summer	27	Shortnose sturgeon	2.02
1988	3	Summer	28	Spottail shiner	0
1988	3	Summer	29	Atlantic sturgeon	0.00
1988	3	Summer	30	Striped bass	861
1988	3	Summer	31	Fourspine stickleback	0
1988	3	Summer	32	Atlantic tomcod	3,535
1988	3	Summer	34	White catfish	42
1988	3	Summer	35	White perch	4,647
1988	3	Summer	36	Yellow perch	6
1988	3	Summer	37	Satinfin shiner	0
1988	3	Summer	38	Rock bass	0
1988	3	Summer	39	Northern pipefish	6
1988	3	Summer	40	Redbreast sunfish	0
1988	3	Summer	41	Atlantic needlefish	6
1988	3	Summer	42	Crevalle jack	12
1988	3	Summer	45	Weakfish	3,164
1988	3	Summer	47	Common shiner	0
1988	3	Summer	49	Lookdown	6
1988	3	Summer	50	Herring family	0
1988	3	Summer	54	Lined seahorse	0
1988	3	Summer	55	Logperch	0
1988	3	Summer	58	Fathead minnow	0
1988	3	Summer	59	Carp and minnow family	0
1988	3	Summer	60	Morone species	0
1988	3	Summer	62	Tautog	0
1988	3	Summer	63	Fourbeard rockling	6
1988	3	Summer	64	Striped cusk-eel	0
1988	3	Summer	67	Spot	18

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	3	Summer	68	Atlantic moonfish	0
1988	3	Summer	71	Scup	0
1988	3	Summer	72	Winter flounder	0
1988	3	Summer	73	Inland silverside	0
1988	3	Summer	74	Sea lamprey	0
1988	3	Summer	75	Gizzard shad	0
1988	3	Summer	76	Silver hake	0
1988	3	Summer	77	Striped mullet	0
1988	3	Summer	78	Threespine stickleback	0
1988	3	Summer	79	Brown trout	0
1988	3	Summer	80	Butterfish	223
1988	3	Summer	81	White crappie	0
1988	3	Summer	83	Northern pike	0
1988	3	Summer	84	Green sunfish	0
1988	3	Summer	85	Silver perch	0
1988	3	Summer	86	Northern puffer	0
1988	3	Summer	96	Sunfish family	0
1988	3	Summer	98	Red hake	0
1988	3	Summer	100	Central mudminnow	0
1988	3	Summer	101	Grubby	0
1988	3	Summer	102	Eastern mudminnow	6
1988	3	Summer	103	White bass	0
1988	3	Summer	104	Rough silverside	0
1988	3	Summer	105	Longear sunfish	0
1988	3	Summer	106	Summer flounder	24
1988	3	Summer	108	Creek chub	0
1988	3	Summer	109	Black bullhead	0
1988	3	Summer	110	Striped searobin	0
1988	3	Summer	111	Northern searobin	0
1988	3	Summer	113	Atlantic croaker	0
1988	3	Summer	114	Longhorn sculpin	0
1988	3	Summer	116	Hickory shad	0
1988	3	Summer	120	Conger eel	0
1988	3	Summer	122	Warmouth	0
1988	3	Summer	125	White mullet	0
1988	3	Summer	126	Yellow bullhead	0
1988	3	Summer	127	Channel catfish	0
1988	3	Summer	130	Naked goby	0
1988	3	Summer	132	Windowpane	6
1988	3	Summer	133	Spotted hake	12
1988	3	Summer	136	Northern stargazer	6

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	3	Summer	137	American sand lance	0
1988	3	Summer	139	Fourspot flounder	0
1988	3	Summer	140	Atlantic mackerel	0
1988	3	Summer	141	Black sea bass	0
1988	3	Summer	142	Smallmouth flounder	0
1988	3	Summer	143	Rock gunnel	0
1988	3	Summer	144	Inshore lizardfish	0
1988	3	Summer	146	Silver lamprey	0
1988	3	Summer	150	Goby family	0
1988	3	Summer	157	New World silverside family	0
1988	3	Summer	159	Sand flounder family	0
1988	3	Summer	161	Pipefish family	0
1988	3	Summer	162	Mackerel scad	0
1988	3	Summer	164	Cunner	0
1988	3	Summer	169	Gray snapper	0
1988	3	Summer	172	Bigeye scad	0
1988	3	Summer	173	Striped burrfish	0
1988	3	Summer	177	Spotfin butterflyfish	0
1988	3	Summer	179	Planehead filefish	0
1988	3	Summer	180	Atlantic cutlassfish	0
1988	3	Summer	181	Pigfish	0
1988	3	Summer	184	Freckled blenny	0
1988	3	Summer	187	Margined madtom	0
1988	3	Summer	205	Freshwater drum	0
1988	3	Summer	206	King mackerel	0
1988	3	Summer	209	Highfin goby	0
1988	3	Summer	213	Oyster toadfish	0
1988	3	Summer	754	Blue crab	12,250
1988	3	Summer	999	All fish taxa	28,640.02
1988	3	Fall	1	Alewife	8
1988	3	Fall	2	Bay anchovy	276
1988	3	Fall	3	American shad	15
1988	3	Fall	4	Bluefish	42
1988	3	Fall	5	Bluegill	35
1988	3	Fall	6	Brown bullhead	8
1988	3	Fall	7	Pumpkinseed	0
1988	3	Fall	8	Black crappie	0
1988	3	Fall	9	Common carp	0
1988	3	Fall	10	American eel	8
1988	3	Fall	11	Goldfish	0
1988	3	Fall	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	3	Fall	13	Hogchoker	104
1988	3	Fall	14	Tessellated darter	0
1988	3	Fall	15	Banded killifish	15
1988	3	Fall	16	Emerald shiner	0
1988	3	Fall	17	Largemouth bass	8
1988	3	Fall	18	Mummichog	0
1988	3	Fall	19	Atlantic menhaden	0
1988	3	Fall	21	Chain pickerel	0
1988	3	Fall	22	Blueback herring	203
1988	3	Fall	23	White sucker	0
1988	3	Fall	24	Atlantic silverside	8
1988	3	Fall	25	Rainbow smelt	0
1988	3	Fall	26	Smallmouth bass	0
1988	3	Fall	27	Shortnose sturgeon	0.00
1988	3	Fall	28	Spottail shiner	42
1988	3	Fall	29	Atlantic sturgeon	0.00
1988	3	Fall	30	Striped bass	169
1988	3	Fall	31	Fourspine stickleback	0
1988	3	Fall	32	Atlantic tomcod	27
1988	3	Fall	34	White catfish	38
1988	3	Fall	35	White perch	5,930
1988	3	Fall	36	Yellow perch	0
1988	3	Fall	37	Satinfin shiner	0
1988	3	Fall	38	Rock bass	0
1988	3	Fall	39	Northern pipefish	15
1988	3	Fall	40	Redbreast sunfish	0
1988	3	Fall	41	Atlantic needlefish	0
1988	3	Fall	42	Crevalle jack	15
1988	3	Fall	45	Weakfish	230
1988	3	Fall	47	Common shiner	0
1988	3	Fall	49	Lookdown	0
1988	3	Fall	50	Herring family	0
1988	3	Fall	54	Lined seahorse	0
1988	3	Fall	55	Logperch	0
1988	3	Fall	58	Fathead minnow	0
1988	3	Fall	59	Carp and minnow family	0
1988	3	Fall	60	Morone species	0
1988	3	Fall	62	Tautog	0
1988	3	Fall	63	Fourbeard rockling	0
1988	3	Fall	64	Striped cusk-eel	0
1988	3	Fall	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	3	Fall	68	Atlantic moonfish	0
1988	3	Fall	71	Scup	0
1988	3	Fall	72	Winter flounder	0
1988	3	Fall	73	Inland silverside	0
1988	3	Fall	74	Sea lamprey	0
1988	3	Fall	75	Gizzard shad	38
1988	3	Fall	76	Silver hake	0
1988	3	Fall	77	Striped mullet	0
1988	3	Fall	78	Threespine stickleback	0
1988	3	Fall	79	Brown trout	0
1988	3	Fall	80	Butterfish	46
1988	3	Fall	81	White crappie	0
1988	3	Fall	83	Northern pike	0
1988	3	Fall	84	Green sunfish	0
1988	3	Fall	85	Silver perch	0
1988	3	Fall	86	Northern puffer	0
1988	3	Fall	96	Sunfish family	0
1988	3	Fall	98	Red hake	0
1988	3	Fall	100	Central mudminnow	0
1988	3	Fall	101	Grubby	0
1988	3	Fall	102	Eastern mudminnow	8
1988	3	Fall	103	White bass	0
1988	3	Fall	104	Rough silverside	0
1988	3	Fall	105	Longear sunfish	8
1988	3	Fall	106	Summer flounder	0
1988	3	Fall	108	Creek chub	0
1988	3	Fall	109	Black bullhead	0
1988	3	Fall	110	Striped searobin	0
1988	3	Fall	111	Northern searobin	0
1988	3	Fall	113	Atlantic croaker	0
1988	3	Fall	114	Longhorn sculpin	0
1988	3	Fall	116	Hickory shad	0
1988	3	Fall	120	Conger eel	0
1988	3	Fall	122	Warmouth	0
1988	3	Fall	125	White mullet	0
1988	3	Fall	126	Yellow bullhead	0
1988	3	Fall	127	Channel catfish	0
1988	3	Fall	130	Naked goby	0
1988	3	Fall	132	Windowpane	15
1988	3	Fall	133	Spotted hake	0
1988	3	Fall	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1988	3	Fall	137	American sand lance	0
1988	3	Fall	139	Fourspot flounder	0
1988	3	Fall	140	Atlantic mackerel	0
1988	3	Fall	141	Black sea bass	0
1988	3	Fall	142	Smallmouth flounder	0
1988	3	Fall	143	Rock gunnel	0
1988	3	Fall	144	Inshore lizardfish	0
1988	3	Fall	146	Silver lamprey	0
1988	3	Fall	150	Goby family	0
1988	3	Fall	157	New World silverside family	0
1988	3	Fall	159	Sand flounder family	0
1988	3	Fall	161	Pipefish family	0
1988	3	Fall	162	Mackerel scad	0
1988	3	Fall	164	Cunner	0
1988	3	Fall	169	Gray snapper	0
1988	3	Fall	172	Bigeye scad	0
1988	3	Fall	173	Striped burrfish	0
1988	3	Fall	177	Spotfin butterflyfish	0
1988	3	Fall	179	Planehead filefish	0
1988	3	Fall	180	Atlantic cutlassfish	0
1988	3	Fall	181	Pigfish	0
1988	3	Fall	184	Freckled blenny	0
1988	3	Fall	187	Margined madtom	0
1988	3	Fall	205	Freshwater drum	0
1988	3	Fall	206	King mackerel	0
1988	3	Fall	209	Highfin goby	0
1988	3	Fall	213	Oyster toadfish	0
1988	3	Fall	754	Blue crab	1,776
1988	3	Fall	999	All fish taxa	7,311.00
1989	2	Winter	1	Alewife	4
1989	2	Winter	2	Bay anchovy	359
1989	2	Winter	3	American shad	8
1989	2	Winter	4	Bluefish	0
1989	2	Winter	5	Bluegill	132
1989	2	Winter	6	Brown bullhead	235
1989	2	Winter	7	Pumpkinseed	647
1989	2	Winter	8	Black crappie	4
1989	2	Winter	9	Common carp	23
1989	2	Winter	10	American eel	159
1989	2	Winter	11	Goldfish	174
1989	2	Winter	12	Golden shiner	19

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	2	Winter	13	Hogchoker	4,596
1989	2	Winter	14	Tessellated darter	91
1989	2	Winter	15	Banded killifish	1,630
1989	2	Winter	16	Emerald shiner	0
1989	2	Winter	17	Largemouth bass	0
1989	2	Winter	18	Mummichog	19
1989	2	Winter	19	Atlantic menhaden	0
1989	2	Winter	21	Chain pickerel	0
1989	2	Winter	22	Blueback herring	45
1989	2	Winter	23	White sucker	0
1989	2	Winter	24	Atlantic silverside	0
1989	2	Winter	25	Rainbow smelt	242
1989	2	Winter	26	Smallmouth bass	0
1989	2	Winter	27	Shortnose sturgeon	0.00
1989	2	Winter	28	Spottail shiner	1,729
1989	2	Winter	29	Atlantic sturgeon	0.00
1989	2	Winter	30	Striped bass	9,290
1989	2	Winter	31	Fourspine stickleback	19
1989	2	Winter	32	Atlantic tomcod	469
1989	2	Winter	34	White catfish	1,468
1989	2	Winter	35	White perch	372,655
1989	2	Winter	36	Yellow perch	189
1989	2	Winter	37	Satinfin shiner	0
1989	2	Winter	38	Rock bass	0
1989	2	Winter	39	Northern pipefish	0
1989	2	Winter	40	Redbreast sunfish	68
1989	2	Winter	41	Atlantic needlefish	0
1989	2	Winter	42	Crevalle jack	0
1989	2	Winter	45	Weakfish	0
1989	2	Winter	47	Common shiner	0
1989	2	Winter	49	Lookdown	0
1989	2	Winter	50	Herring family	0
1989	2	Winter	54	Lined seahorse	0
1989	2	Winter	55	Logperch	0
1989	2	Winter	58	Fathead minnow	0
1989	2	Winter	59	Carp and minnow family	0
1989	2	Winter	60	Morone species	0
1989	2	Winter	62	Tautog	4
1989	2	Winter	63	Fourbeard rockling	11
1989	2	Winter	64	Striped cusk-eel	0
1989	2	Winter	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	2	Winter	68	Atlantic moonfish	0
1989	2	Winter	71	Scup	0
1989	2	Winter	72	Winter flounder	11
1989	2	Winter	73	Inland silverside	15
1989	2	Winter	74	Sea lamprey	23
1989	2	Winter	75	Gizzard shad	3,351
1989	2	Winter	76	Silver hake	102
1989	2	Winter	77	Striped mullet	0
1989	2	Winter	78	Threespine stickleback	499
1989	2	Winter	79	Brown trout	0
1989	2	Winter	80	Butterfish	0
1989	2	Winter	81	White crappie	0
1989	2	Winter	83	Northern pike	0
1989	2	Winter	84	Green sunfish	0
1989	2	Winter	85	Silver perch	0
1989	2	Winter	86	Northern puffer	0
1989	2	Winter	96	Sunfish family	8
1989	2	Winter	98	Red hake	98
1989	2	Winter	100	Central mudminnow	0
1989	2	Winter	101	Grubby	8
1989	2	Winter	102	Eastern mudminnow	0
1989	2	Winter	103	White bass	0
1989	2	Winter	104	Rough silverside	0
1989	2	Winter	105	Longear sunfish	0
1989	2	Winter	106	Summer flounder	0
1989	2	Winter	108	Creek chub	0
1989	2	Winter	109	Black bullhead	0
1989	2	Winter	110	Striped searobin	0
1989	2	Winter	111	Northern searobin	0
1989	2	Winter	113	Atlantic croaker	4
1989	2	Winter	114	Longhorn sculpin	0
1989	2	Winter	116	Hickory shad	0
1989	2	Winter	120	Conger eel	0
1989	2	Winter	122	Warmouth	0
1989	2	Winter	125	White mullet	0
1989	2	Winter	126	Yellow bullhead	0
1989	2	Winter	127	Channel catfish	0
1989	2	Winter	130	Naked goby	4
1989	2	Winter	132	Windowpane	0
1989	2	Winter	133	Spotted hake	0
1989	2	Winter	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	2	Winter	137	American sand lance	0
1989	2	Winter	139	Fourspot flounder	0
1989	2	Winter	140	Atlantic mackerel	0
1989	2	Winter	141	Black sea bass	0
1989	2	Winter	142	Smallmouth flounder	0
1989	2	Winter	143	Rock gunnel	0
1989	2	Winter	144	Inshore lizardfish	0
1989	2	Winter	146	Silver lamprey	0
1989	2	Winter	150	Goby family	0
1989	2	Winter	157	New World silverside family	0
1989	2	Winter	159	Sand flounder family	0
1989	2	Winter	161	Pipefish family	0
1989	2	Winter	162	Mackerel scad	0
1989	2	Winter	164	Cunner	0
1989	2	Winter	169	Gray snapper	0
1989	2	Winter	172	Bigeye scad	0
1989	2	Winter	173	Striped burrfish	0
1989	2	Winter	177	Spotfin butterflyfish	0
1989	2	Winter	179	Planehead filefish	0
1989	2	Winter	180	Atlantic cutlassfish	0
1989	2	Winter	181	Pigfish	0
1989	2	Winter	184	Freckled blenny	0
1989	2	Winter	187	Margined madtom	0
1989	2	Winter	205	Freshwater drum	0
1989	2	Winter	206	King mackerel	0
1989	2	Winter	209	Highfin goby	0
1989	2	Winter	213	Oyster toadfish	0
1989	2	Winter	754	Blue crab	0
1989	2	Winter	999	All fish taxa	398,412.00
1989	2	Spring	1	Alewife	
1989	2	Spring	2	Bay anchovy	
1989	2	Spring	3	American shad	
1989	2	Spring	4	Bluefish	
1989	2	Spring	5	Bluegill	
1989	2	Spring	6	Brown bullhead	
1989	2	Spring	7	Pumpkinseed	
1989	2	Spring	8	Black crappie	
1989	2	Spring	9	Common carp	
1989	2	Spring	10	American eel	
1989	2	Spring	11	Goldfish	
1989	2	Spring	12	Golden shiner	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	2	Spring	13	Hogchoker	
1989	2	Spring	14	Tessellated darter	
1989	2	Spring	15	Banded killifish	
1989	2	Spring	16	Emerald shiner	
1989	2	Spring	17	Largemouth bass	
1989	2	Spring	18	Mummichog	
1989	2	Spring	19	Atlantic menhaden	
1989	2	Spring	21	Chain pickerel	
1989	2	Spring	22	Blueback herring	
1989	2	Spring	23	White sucker	
1989	2	Spring	24	Atlantic silverside	
1989	2	Spring	25	Rainbow smelt	
1989	2	Spring	26	Smallmouth bass	
1989	2	Spring	27	Shortnose sturgeon	
1989	2	Spring	28	Spottail shiner	
1989	2	Spring	29	Atlantic sturgeon	
1989	2	Spring	30	Striped bass	
1989	2	Spring	31	Fourspine stickleback	
1989	2	Spring	32	Atlantic tomcod	
1989	2	Spring	34	White catfish	
1989	2	Spring	35	White perch	
1989	2	Spring	36	Yellow perch	
1989	2	Spring	37	Satinfin shiner	
1989	2	Spring	38	Rock bass	
1989	2	Spring	39	Northern pipefish	
1989	2	Spring	40	Redbreast sunfish	
1989	2	Spring	41	Atlantic needlefish	
1989	2	Spring	42	Crevalle jack	
1989	2	Spring	45	Weakfish	
1989	2	Spring	47	Common shiner	
1989	2	Spring	49	Lookdown	
1989	2	Spring	50	Herring family	
1989	2	Spring	54	Lined seahorse	
1989	2	Spring	55	Logperch	
1989	2	Spring	58	Fathead minnow	
1989	2	Spring	59	Carp and minnow family	
1989	2	Spring	60	Morone species	
1989	2	Spring	62	Tautog	
1989	2	Spring	63	Fourbeard rockling	
1989	2	Spring	64	Striped cusk-eel	
1989	2	Spring	67	Spot	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	2	Spring	68	Atlantic moonfish	
1989	2	Spring	71	Scup	
1989	2	Spring	72	Winter flounder	
1989	2	Spring	73	Inland silverside	
1989	2	Spring	74	Sea lamprey	
1989	2	Spring	75	Gizzard shad	
1989	2	Spring	76	Silver hake	
1989	2	Spring	77	Striped mullet	
1989	2	Spring	78	Threespine stickleback	
1989	2	Spring	79	Brown trout	
1989	2	Spring	80	Butterfish	
1989	2	Spring	81	White crappie	
1989	2	Spring	83	Northern pike	
1989	2	Spring	84	Green sunfish	
1989	2	Spring	85	Silver perch	
1989	2	Spring	86	Northern puffer	
1989	2	Spring	96	Sunfish family	
1989	2	Spring	98	Red hake	
1989	2	Spring	100	Central mudminnow	
1989	2	Spring	101	Grubby	
1989	2	Spring	102	Eastern mudminnow	
1989	2	Spring	103	White bass	
1989	2	Spring	104	Rough silverside	
1989	2	Spring	105	Longear sunfish	
1989	2	Spring	106	Summer flounder	
1989	2	Spring	108	Creek chub	
1989	2	Spring	109	Black bullhead	
1989	2	Spring	110	Striped searobin	
1989	2	Spring	111	Northern searobin	
1989	2	Spring	113	Atlantic croaker	
1989	2	Spring	114	Longhorn sculpin	
1989	2	Spring	116	Hickory shad	
1989	2	Spring	120	Conger eel	
1989	2	Spring	122	Warmouth	
1989	2	Spring	125	White mullet	
1989	2	Spring	126	Yellow bullhead	
1989	2	Spring	127	Channel catfish	
1989	2	Spring	130	Naked goby	
1989	2	Spring	132	Windowpane	
1989	2	Spring	133	Spotted hake	
1989	2	Spring	136	Northern stargazer	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	2	Spring	137	American sand lance	
1989	2	Spring	139	Fourspot flounder	
1989	2	Spring	140	Atlantic mackerel	
1989	2	Spring	141	Black sea bass	
1989	2	Spring	142	Smallmouth flounder	
1989	2	Spring	143	Rock gunnel	
1989	2	Spring	144	Inshore lizardfish	
1989	2	Spring	146	Silver lamprey	
1989	2	Spring	150	Goby family	
1989	2	Spring	157	New World silverside family	
1989	2	Spring	159	Sand flounder family	
1989	2	Spring	161	Pipefish family	
1989	2	Spring	162	Mackerel scad	
1989	2	Spring	164	Cunner	
1989	2	Spring	169	Gray snapper	
1989	2	Spring	172	Bigeye scad	
1989	2	Spring	173	Striped burrfish	
1989	2	Spring	177	Spotfin butterflyfish	
1989	2	Spring	179	Planehead filefish	
1989	2	Spring	180	Atlantic cutlassfish	
1989	2	Spring	181	Pigfish	
1989	2	Spring	184	Freckled blenny	
1989	2	Spring	187	Margined madtom	
1989	2	Spring	205	Freshwater drum	
1989	2	Spring	206	King mackerel	
1989	2	Spring	209	Highfin goby	
1989	2	Spring	213	Oyster toadfish	
1989	2	Spring	754	Blue crab	
1989	2	Spring	999	All fish taxa	
1989	2	Summer	1	Alewife	68
1989	2	Summer	2	Bay anchovy	313
1989	2	Summer	3	American shad	1,270
1989	2	Summer	4	Bluefish	598
1989	2	Summer	5	Bluegill	248
1989	2	Summer	6	Brown bullhead	0
1989	2	Summer	7	Pumpkinseed	74
1989	2	Summer	8	Black crappie	0
1989	2	Summer	9	Common carp	0
1989	2	Summer	10	American eel	368
1989	2	Summer	11	Goldfish	0
1989	2	Summer	12	Golden shiner	46

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	2	Summer	13	Hogchoker	38,769
1989	2	Summer	14	Tessellated darter	46
1989	2	Summer	15	Banded killifish	193
1989	2	Summer	16	Emerald shiner	0
1989	2	Summer	17	Largemouth bass	46
1989	2	Summer	18	Mummichog	0
1989	2	Summer	19	Atlantic menhaden	147
1989	2	Summer	21	Chain pickerel	0
1989	2	Summer	22	Blueback herring	230
1989	2	Summer	23	White sucker	0
1989	2	Summer	24	Atlantic silverside	0
1989	2	Summer	25	Rainbow smelt	0
1989	2	Summer	26	Smallmouth bass	0
1989	2	Summer	27	Shortnose sturgeon	0.00
1989	2	Summer	28	Spottail shiner	96
1989	2	Summer	29	Atlantic sturgeon	0.00
1989	2	Summer	30	Striped bass	4,664
1989	2	Summer	31	Fourspine stickleback	0
1989	2	Summer	32	Atlantic tomcod	708
1989	2	Summer	34	White catfish	304
1989	2	Summer	35	White perch	10,148
1989	2	Summer	36	Yellow perch	0
1989	2	Summer	37	Satinfin shiner	0
1989	2	Summer	38	Rock bass	0
1989	2	Summer	39	Northern pipefish	0
1989	2	Summer	40	Redbreast sunfish	37
1989	2	Summer	41	Atlantic needlefish	0
1989	2	Summer	42	Crevalle jack	64
1989	2	Summer	45	Weakfish	4,839
1989	2	Summer	47	Common shiner	0
1989	2	Summer	49	Lookdown	0
1989	2	Summer	50	Herring family	37
1989	2	Summer	54	Lined seahorse	0
1989	2	Summer	55	Logperch	0
1989	2	Summer	58	Fathead minnow	0
1989	2	Summer	59	Carp and minnow family	0
1989	2	Summer	60	Morone species	0
1989	2	Summer	62	Tautog	0
1989	2	Summer	63	Fourbeard rockling	0
1989	2	Summer	64	Striped cusk-eel	0
1989	2	Summer	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	2	Summer	68	Atlantic moonfish	0
1989	2	Summer	71	Scup	0
1989	2	Summer	72	Winter flounder	0
1989	2	Summer	73	Inland silverside	0
1989	2	Summer	74	Sea lamprey	0
1989	2	Summer	75	Gizzard shad	0
1989	2	Summer	76	Silver hake	0
1989	2	Summer	77	Striped mullet	0
1989	2	Summer	78	Threespine stickleback	0
1989	2	Summer	79	Brown trout	0
1989	2	Summer	80	Butterfish	28
1989	2	Summer	81	White crappie	0
1989	2	Summer	83	Northern pike	0
1989	2	Summer	84	Green sunfish	0
1989	2	Summer	85	Silver perch	0
1989	2	Summer	86	Northern puffer	0
1989	2	Summer	96	Sunfish family	0
1989	2	Summer	98	Red hake	0
1989	2	Summer	100	Central mudminnow	0
1989	2	Summer	101	Grubby	0
1989	2	Summer	102	Eastern mudminnow	0
1989	2	Summer	103	White bass	0
1989	2	Summer	104	Rough silverside	0
1989	2	Summer	105	Longear sunfish	0
1989	2	Summer	106	Summer flounder	0
1989	2	Summer	108	Creek chub	0
1989	2	Summer	109	Black bullhead	0
1989	2	Summer	110	Striped searobin	0
1989	2	Summer	111	Northern searobin	0
1989	2	Summer	113	Atlantic croaker	0
1989	2	Summer	114	Longhorn sculpin	0
1989	2	Summer	116	Hickory shad	0
1989	2	Summer	120	Conger eel	0
1989	2	Summer	122	Warmouth	0
1989	2	Summer	125	White mullet	0
1989	2	Summer	126	Yellow bullhead	0
1989	2	Summer	127	Channel catfish	0
1989	2	Summer	130	Naked goby	0
1989	2	Summer	132	Windowpane	0
1989	2	Summer	133	Spotted hake	0
1989	2	Summer	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	2	Summer	137	American sand lance	0
1989	2	Summer	139	Fourspot flounder	0
1989	2	Summer	140	Atlantic mackerel	0
1989	2	Summer	141	Black sea bass	0
1989	2	Summer	142	Smallmouth flounder	0
1989	2	Summer	143	Rock gunnel	0
1989	2	Summer	144	Inshore lizardfish	0
1989	2	Summer	146	Silver lamprey	0
1989	2	Summer	150	Goby family	0
1989	2	Summer	157	New World silverside family	0
1989	2	Summer	159	Sand flounder family	0
1989	2	Summer	161	Pipefish family	0
1989	2	Summer	162	Mackerel scad	0
1989	2	Summer	164	Cunner	0
1989	2	Summer	169	Gray snapper	0
1989	2	Summer	172	Bigeye scad	0
1989	2	Summer	173	Striped burrfish	0
1989	2	Summer	177	Spotfin butterflyfish	0
1989	2	Summer	179	Planehead filefish	0
1989	2	Summer	180	Atlantic cutlassfish	0
1989	2	Summer	181	Pigfish	0
1989	2	Summer	184	Freckled blenny	0
1989	2	Summer	187	Margined madtom	0
1989	2	Summer	205	Freshwater drum	0
1989	2	Summer	206	King mackerel	0
1989	2	Summer	209	Highfin goby	0
1989	2	Summer	213	Oyster toadfish	0
1989	2	Summer	754	Blue crab	80,446
1989	2	Summer	999	All fish taxa	63,941.00
1989	2	Fall	1	Alewife	12
1989	2	Fall	2	Bay anchovy	824
1989	2	Fall	3	American shad	2,160
1989	2	Fall	4	Bluefish	29
1989	2	Fall	5	Bluegill	866
1989	2	Fall	6	Brown bullhead	64
1989	2	Fall	7	Pumpkinseed	1,095
1989	2	Fall	8	Black crappie	28
1989	2	Fall	9	Common carp	9
1989	2	Fall	10	American eel	767
1989	2	Fall	11	Goldfish	32
1989	2	Fall	12	Golden shiner	39

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	2	Fall	13	Hogchoker	43,512
1989	2	Fall	14	Tessellated darter	150
1989	2	Fall	15	Banded killifish	165
1989	2	Fall	16	Emerald shiner	0
1989	2	Fall	17	Largemouth bass	23
1989	2	Fall	18	Mummichog	3
1989	2	Fall	19	Atlantic menhaden	12
1989	2	Fall	21	Chain pickerel	3
1989	2	Fall	22	Blueback herring	22,958
1989	2	Fall	23	White sucker	4
1989	2	Fall	24	Atlantic silverside	0
1989	2	Fall	25	Rainbow smelt	64
1989	2	Fall	26	Smallmouth bass	0
1989	2	Fall	27	Shortnose sturgeon	0.00
1989	2	Fall	28	Spottail shiner	1,684
1989	2	Fall	29	Atlantic sturgeon	0.00
1989	2	Fall	30	Striped bass	7,093
1989	2	Fall	31	Fourspine stickleback	0
1989	2	Fall	32	Atlantic tomcod	4,905
1989	2	Fall	34	White catfish	7,744
1989	2	Fall	35	White perch	218,542
1989	2	Fall	36	Yellow perch	485
1989	2	Fall	37	Satinfin shiner	0
1989	2	Fall	38	Rock bass	0
1989	2	Fall	39	Northern pipefish	0
1989	2	Fall	40	Redbreast sunfish	28
1989	2	Fall	41	Atlantic needlefish	0
1989	2	Fall	42	Crevalle jack	39
1989	2	Fall	45	Weakfish	1,288
1989	2	Fall	47	Common shiner	0
1989	2	Fall	49	Lookdown	0
1989	2	Fall	50	Herring family	66
1989	2	Fall	54	Lined seahorse	0
1989	2	Fall	55	Logperch	0
1989	2	Fall	58	Fathead minnow	0
1989	2	Fall	59	Carp and minnow family	0
1989	2	Fall	60	Morone species	0
1989	2	Fall	62	Tautog	6
1989	2	Fall	63	Fourbeard rockling	0
1989	2	Fall	64	Striped cusk-eel	0
1989	2	Fall	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	2	Fall	68	Atlantic moonfish	4
1989	2	Fall	71	Scup	0
1989	2	Fall	72	Winter flounder	41
1989	2	Fall	73	Inland silverside	15
1989	2	Fall	74	Sea lamprey	6
1989	2	Fall	75	Gizzard shad	9,789
1989	2	Fall	76	Silver hake	166
1989	2	Fall	77	Striped mullet	0
1989	2	Fall	78	Threespine stickleback	0
1989	2	Fall	79	Brown trout	0
1989	2	Fall	80	Butterfish	0
1989	2	Fall	81	White crappie	3
1989	2	Fall	83	Northern pike	0
1989	2	Fall	84	Green sunfish	0
1989	2	Fall	85	Silver perch	0
1989	2	Fall	86	Northern puffer	4
1989	2	Fall	96	Sunfish family	108
1989	2	Fall	98	Red hake	188
1989	2	Fall	100	Central mudminnow	0
1989	2	Fall	101	Grubby	3
1989	2	Fall	102	Eastern mudminnow	0
1989	2	Fall	103	White bass	0
1989	2	Fall	104	Rough silverside	0
1989	2	Fall	105	Longear sunfish	0
1989	2	Fall	106	Summer flounder	19
1989	2	Fall	108	Creek chub	0
1989	2	Fall	109	Black bullhead	0
1989	2	Fall	110	Striped searobin	70
1989	2	Fall	111	Northern searobin	0
1989	2	Fall	113	Atlantic croaker	6
1989	2	Fall	114	Longhorn sculpin	0
1989	2	Fall	116	Hickory shad	0
1989	2	Fall	120	Conger eel	0
1989	2	Fall	122	Warmouth	0
1989	2	Fall	125	White mullet	3
1989	2	Fall	126	Yellow bullhead	0
1989	2	Fall	127	Channel catfish	0
1989	2	Fall	130	Naked goby	48
1989	2	Fall	132	Windowpane	0
1989	2	Fall	133	Spotted hake	0
1989	2	Fall	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	2	Fall	137	American sand lance	0
1989	2	Fall	139	Fourspot flounder	0
1989	2	Fall	140	Atlantic mackerel	0
1989	2	Fall	141	Black sea bass	0
1989	2	Fall	142	Smallmouth flounder	0
1989	2	Fall	143	Rock gunnel	0
1989	2	Fall	144	Inshore lizardfish	4
1989	2	Fall	146	Silver lamprey	0
1989	2	Fall	150	Goby family	0
1989	2	Fall	157	New World silverside family	0
1989	2	Fall	159	Sand flounder family	0
1989	2	Fall	161	Pipefish family	0
1989	2	Fall	162	Mackerel scad	0
1989	2	Fall	164	Cunner	0
1989	2	Fall	169	Gray snapper	13
1989	2	Fall	172	Bigeye scad	0
1989	2	Fall	173	Striped burrfish	0
1989	2	Fall	177	Spotfin butterflyfish	0
1989	2	Fall	179	Planehead filefish	0
1989	2	Fall	180	Atlantic cutlassfish	0
1989	2	Fall	181	Pigfish	0
1989	2	Fall	184	Freckled blenny	0
1989	2	Fall	187	Margined madtom	0
1989	2	Fall	205	Freshwater drum	25
1989	2	Fall	206	King mackerel	0
1989	2	Fall	209	Highfin goby	0
1989	2	Fall	213	Oyster toadfish	0
1989	2	Fall	754	Blue crab	12,986
1989	2	Fall	999	All fish taxa	325,414.00
1989	3	Winter	1	Alewife	0
1989	3	Winter	2	Bay anchovy	127
1989	3	Winter	3	American shad	0
1989	3	Winter	4	Bluefish	0
1989	3	Winter	5	Bluegill	34
1989	3	Winter	6	Brown bullhead	15
1989	3	Winter	7	Pumpkinseed	168
1989	3	Winter	8	Black crappie	4
1989	3	Winter	9	Common carp	2
1989	3	Winter	10	American eel	22
1989	3	Winter	11	Goldfish	34
1989	3	Winter	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	3	Winter	13	Hogchoker	1,253
1989	3	Winter	14	Tessellated darter	0
1989	3	Winter	15	Banded killifish	77
1989	3	Winter	16	Emerald shiner	0
1989	3	Winter	17	Largemouth bass	0
1989	3	Winter	18	Mummichog	0
1989	3	Winter	19	Atlantic menhaden	2
1989	3	Winter	21	Chain pickerel	0
1989	3	Winter	22	Blueback herring	24
1989	3	Winter	23	White sucker	0
1989	3	Winter	24	Atlantic silverside	0
1989	3	Winter	25	Rainbow smelt	30
1989	3	Winter	26	Smallmouth bass	0
1989	3	Winter	27	Shortnose sturgeon	0.00
1989	3	Winter	28	Spottail shiner	151
1989	3	Winter	29	Atlantic sturgeon	0.00
1989	3	Winter	30	Striped bass	1,892
1989	3	Winter	31	Fourspine stickleback	2
1989	3	Winter	32	Atlantic tomcod	90
1989	3	Winter	34	White catfish	163
1989	3	Winter	35	White perch	72,085
1989	3	Winter	36	Yellow perch	9
1989	3	Winter	37	Satinfin shiner	0
1989	3	Winter	38	Rock bass	0
1989	3	Winter	39	Northern pipefish	0
1989	3	Winter	40	Redbreast sunfish	4
1989	3	Winter	41	Atlantic needlefish	0
1989	3	Winter	42	Crevalle jack	0
1989	3	Winter	45	Weakfish	0
1989	3	Winter	47	Common shiner	0
1989	3	Winter	49	Lookdown	0
1989	3	Winter	50	Herring family	0
1989	3	Winter	54	Lined seahorse	0
1989	3	Winter	55	Logperch	0
1989	3	Winter	58	Fathead minnow	0
1989	3	Winter	59	Carp and minnow family	0
1989	3	Winter	60	Morone species	0
1989	3	Winter	62	Tautog	0
1989	3	Winter	63	Fourbeard rockling	0
1989	3	Winter	64	Striped cusk-eel	0
1989	3	Winter	67	Spot	2

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	3	Winter	68	Atlantic moonfish	0
1989	3	Winter	71	Scup	0
1989	3	Winter	72	Winter flounder	0
1989	3	Winter	73	Inland silverside	6
1989	3	Winter	74	Sea lamprey	2
1989	3	Winter	75	Gizzard shad	4,287
1989	3	Winter	76	Silver hake	17
1989	3	Winter	77	Striped mullet	0
1989	3	Winter	78	Threespine stickleback	9
1989	3	Winter	79	Brown trout	0
1989	3	Winter	80	Butterfish	0
1989	3	Winter	81	White crappie	0
1989	3	Winter	83	Northern pike	0
1989	3	Winter	84	Green sunfish	0
1989	3	Winter	85	Silver perch	0
1989	3	Winter	86	Northern puffer	0
1989	3	Winter	96	Sunfish family	0
1989	3	Winter	98	Red hake	26
1989	3	Winter	100	Central mudminnow	0
1989	3	Winter	101	Grubby	0
1989	3	Winter	102	Eastern mudminnow	0
1989	3	Winter	103	White bass	0
1989	3	Winter	104	Rough silverside	0
1989	3	Winter	105	Longear sunfish	0
1989	3	Winter	106	Summer flounder	0
1989	3	Winter	108	Creek chub	0
1989	3	Winter	109	Black bullhead	0
1989	3	Winter	110	Striped searobin	0
1989	3	Winter	111	Northern searobin	0
1989	3	Winter	113	Atlantic croaker	0
1989	3	Winter	114	Longhorn sculpin	0
1989	3	Winter	116	Hickory shad	0
1989	3	Winter	120	Conger eel	0
1989	3	Winter	122	Warmouth	0
1989	3	Winter	125	White mullet	0
1989	3	Winter	126	Yellow bullhead	0
1989	3	Winter	127	Channel catfish	0
1989	3	Winter	130	Naked goby	0
1989	3	Winter	132	Windowpane	0
1989	3	Winter	133	Spotted hake	0
1989	3	Winter	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	3	Winter	137	American sand lance	0
1989	3	Winter	139	Fourspot flounder	0
1989	3	Winter	140	Atlantic mackerel	0
1989	3	Winter	141	Black sea bass	0
1989	3	Winter	142	Smallmouth flounder	0
1989	3	Winter	143	Rock gunnel	0
1989	3	Winter	144	Inshore lizardfish	0
1989	3	Winter	146	Silver lamprey	0
1989	3	Winter	150	Goby family	0
1989	3	Winter	157	New World silverside family	0
1989	3	Winter	159	Sand flounder family	0
1989	3	Winter	161	Pipefish family	0
1989	3	Winter	162	Mackerel scad	0
1989	3	Winter	164	Cunner	0
1989	3	Winter	169	Gray snapper	0
1989	3	Winter	172	Bigeye scad	0
1989	3	Winter	173	Striped burrfish	0
1989	3	Winter	177	Spotfin butterflyfish	0
1989	3	Winter	179	Planehead filefish	0
1989	3	Winter	180	Atlantic cutlassfish	0
1989	3	Winter	181	Pigfish	0
1989	3	Winter	184	Freckled blenny	0
1989	3	Winter	187	Margined madtom	0
1989	3	Winter	205	Freshwater drum	0
1989	3	Winter	206	King mackerel	0
1989	3	Winter	209	Highfin goby	0
1989	3	Winter	213	Oyster toadfish	0
1989	3	Winter	754	Blue crab	0
1989	3	Winter	999	All fish taxa	80,537.00
1989	3	Spring	1	Alewife	
1989	3	Spring	2	Bay anchovy	
1989	3	Spring	3	American shad	
1989	3	Spring	4	Bluefish	
1989	3	Spring	5	Bluegill	
1989	3	Spring	6	Brown bullhead	
1989	3	Spring	7	Pumpkinseed	
1989	3	Spring	8	Black crappie	
1989	3	Spring	9	Common carp	
1989	3	Spring	10	American eel	
1989	3	Spring	11	Goldfish	
1989	3	Spring	12	Golden shiner	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	3	Spring	13	Hogchoker	
1989	3	Spring	14	Tessellated darter	
1989	3	Spring	15	Banded killifish	
1989	3	Spring	16	Emerald shiner	
1989	3	Spring	17	Largemouth bass	
1989	3	Spring	18	Mummichog	
1989	3	Spring	19	Atlantic menhaden	
1989	3	Spring	21	Chain pickerel	
1989	3	Spring	22	Blueback herring	
1989	3	Spring	23	White sucker	
1989	3	Spring	24	Atlantic silverside	
1989	3	Spring	25	Rainbow smelt	
1989	3	Spring	26	Smallmouth bass	
1989	3	Spring	27	Shortnose sturgeon	
1989	3	Spring	28	Spottail shiner	
1989	3	Spring	29	Atlantic sturgeon	
1989	3	Spring	30	Striped bass	
1989	3	Spring	31	Fourspine stickleback	
1989	3	Spring	32	Atlantic tomcod	
1989	3	Spring	34	White catfish	
1989	3	Spring	35	White perch	
1989	3	Spring	36	Yellow perch	
1989	3	Spring	37	Satinfin shiner	
1989	3	Spring	38	Rock bass	
1989	3	Spring	39	Northern pipefish	
1989	3	Spring	40	Redbreast sunfish	
1989	3	Spring	41	Atlantic needlefish	
1989	3	Spring	42	Crevalle jack	
1989	3	Spring	45	Weakfish	
1989	3	Spring	47	Common shiner	
1989	3	Spring	49	Lookdown	
1989	3	Spring	50	Herring family	
1989	3	Spring	54	Lined seahorse	
1989	3	Spring	55	Logperch	
1989	3	Spring	58	Fathead minnow	
1989	3	Spring	59	Carp and minnow family	
1989	3	Spring	60	Morone species	
1989	3	Spring	62	Tautog	
1989	3	Spring	63	Fourbeard rockling	
1989	3	Spring	64	Striped cusk-eel	
1989	3	Spring	67	Spot	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	3	Spring	68	Atlantic moonfish	
1989	3	Spring	71	Scup	
1989	3	Spring	72	Winter flounder	
1989	3	Spring	73	Inland silverside	
1989	3	Spring	74	Sea lamprey	
1989	3	Spring	75	Gizzard shad	
1989	3	Spring	76	Silver hake	
1989	3	Spring	77	Striped mullet	
1989	3	Spring	78	Threespine stickleback	
1989	3	Spring	79	Brown trout	
1989	3	Spring	80	Butterfish	
1989	3	Spring	81	White crappie	
1989	3	Spring	83	Northern pike	
1989	3	Spring	84	Green sunfish	
1989	3	Spring	85	Silver perch	
1989	3	Spring	86	Northern puffer	
1989	3	Spring	96	Sunfish family	
1989	3	Spring	98	Red hake	
1989	3	Spring	100	Central mudminnow	
1989	3	Spring	101	Grubby	
1989	3	Spring	102	Eastern mudminnow	
1989	3	Spring	103	White bass	
1989	3	Spring	104	Rough silverside	
1989	3	Spring	105	Longear sunfish	
1989	3	Spring	106	Summer flounder	
1989	3	Spring	108	Creek chub	
1989	3	Spring	109	Black bullhead	
1989	3	Spring	110	Striped searobin	
1989	3	Spring	111	Northern searobin	
1989	3	Spring	113	Atlantic croaker	
1989	3	Spring	114	Longhorn sculpin	
1989	3	Spring	116	Hickory shad	
1989	3	Spring	120	Conger eel	
1989	3	Spring	122	Warmouth	
1989	3	Spring	125	White mullet	
1989	3	Spring	126	Yellow bullhead	
1989	3	Spring	127	Channel catfish	
1989	3	Spring	130	Naked goby	
1989	3	Spring	132	Windowpane	
1989	3	Spring	133	Spotted hake	
1989	3	Spring	136	Northern stargazer	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	3	Spring	137	American sand lance	
1989	3	Spring	139	Fourspot flounder	
1989	3	Spring	140	Atlantic mackerel	
1989	3	Spring	141	Black sea bass	
1989	3	Spring	142	Smallmouth flounder	
1989	3	Spring	143	Rock gunnel	
1989	3	Spring	144	Inshore lizardfish	
1989	3	Spring	146	Silver lamprey	
1989	3	Spring	150	Goby family	
1989	3	Spring	157	New World silverside family	
1989	3	Spring	159	Sand flounder family	
1989	3	Spring	161	Pipefish family	
1989	3	Spring	162	Mackerel scad	
1989	3	Spring	164	Cunner	
1989	3	Spring	169	Gray snapper	
1989	3	Spring	172	Bigeye scad	
1989	3	Spring	173	Striped burrfish	
1989	3	Spring	177	Spotfin butterflyfish	
1989	3	Spring	179	Planehead filefish	
1989	3	Spring	180	Atlantic cutlassfish	
1989	3	Spring	181	Pigfish	
1989	3	Spring	184	Freckled blenny	
1989	3	Spring	187	Margined madtom	
1989	3	Spring	205	Freshwater drum	
1989	3	Spring	206	King mackerel	
1989	3	Spring	209	Highfin goby	
1989	3	Spring	213	Oyster toadfish	
1989	3	Spring	754	Blue crab	
1989	3	Spring	999	All fish taxa	
1989	3	Summer	1	Alewife	656
1989	3	Summer	2	Bay anchovy	3,689
1989	3	Summer	3	American shad	2,588
1989	3	Summer	4	Bluefish	597
1989	3	Summer	5	Bluegill	74
1989	3	Summer	6	Brown bullhead	24
1989	3	Summer	7	Pumpkinseed	12
1989	3	Summer	8	Black crappie	0
1989	3	Summer	9	Common carp	0
1989	3	Summer	10	American eel	89
1989	3	Summer	11	Goldfish	0
1989	3	Summer	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	3	Summer	13	Hogchoker	24,576
1989	3	Summer	14	Tessellated darter	0
1989	3	Summer	15	Banded killifish	12
1989	3	Summer	16	Emerald shiner	0
1989	3	Summer	17	Largemouth bass	6
1989	3	Summer	18	Mummichog	0
1989	3	Summer	19	Atlantic menhaden	71
1989	3	Summer	21	Chain pickerel	0
1989	3	Summer	22	Blueback herring	2,119
1989	3	Summer	23	White sucker	0
1989	3	Summer	24	Atlantic silverside	0
1989	3	Summer	25	Rainbow smelt	30
1989	3	Summer	26	Smallmouth bass	0
1989	3	Summer	27	Shortnose sturgeon	0.00
1989	3	Summer	28	Spottail shiner	6
1989	3	Summer	29	Atlantic sturgeon	0.00
1989	3	Summer	30	Striped bass	1,015
1989	3	Summer	31	Fourspine stickleback	0
1989	3	Summer	32	Atlantic tomcod	1,416
1989	3	Summer	34	White catfish	113
1989	3	Summer	35	White perch	3,247
1989	3	Summer	36	Yellow perch	6
1989	3	Summer	37	Satinfin shiner	0
1989	3	Summer	38	Rock bass	0
1989	3	Summer	39	Northern pipefish	18
1989	3	Summer	40	Redbreast sunfish	0
1989	3	Summer	41	Atlantic needlefish	0
1989	3	Summer	42	Crevalle jack	89
1989	3	Summer	45	Weakfish	31,354
1989	3	Summer	47	Common shiner	0
1989	3	Summer	49	Lookdown	12
1989	3	Summer	50	Herring family	573
1989	3	Summer	54	Lined seahorse	0
1989	3	Summer	55	Logperch	0
1989	3	Summer	58	Fathead minnow	0
1989	3	Summer	59	Carp and minnow family	0
1989	3	Summer	60	Morone species	0
1989	3	Summer	62	Tautog	0
1989	3	Summer	63	Fourbeard rockling	0
1989	3	Summer	64	Striped cusk-eel	0
1989	3	Summer	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	3	Summer	68	Atlantic moonfish	0
1989	3	Summer	71	Scup	0
1989	3	Summer	72	Winter flounder	0
1989	3	Summer	73	Inland silverside	0
1989	3	Summer	74	Sea lamprey	0
1989	3	Summer	75	Gizzard shad	6
1989	3	Summer	76	Silver hake	0
1989	3	Summer	77	Striped mullet	0
1989	3	Summer	78	Threespine stickleback	0
1989	3	Summer	79	Brown trout	0
1989	3	Summer	80	Butterfish	157
1989	3	Summer	81	White crappie	0
1989	3	Summer	83	Northern pike	0
1989	3	Summer	84	Green sunfish	0
1989	3	Summer	85	Silver perch	0
1989	3	Summer	86	Northern puffer	0
1989	3	Summer	96	Sunfish family	0
1989	3	Summer	98	Red hake	0
1989	3	Summer	100	Central mudminnow	0
1989	3	Summer	101	Grubby	0
1989	3	Summer	102	Eastern mudminnow	0
1989	3	Summer	103	White bass	0
1989	3	Summer	104	Rough silverside	0
1989	3	Summer	105	Longear sunfish	0
1989	3	Summer	106	Summer flounder	77
1989	3	Summer	108	Creek chub	0
1989	3	Summer	109	Black bullhead	0
1989	3	Summer	110	Striped searobin	0
1989	3	Summer	111	Northern searobin	0
1989	3	Summer	113	Atlantic croaker	0
1989	3	Summer	114	Longhorn sculpin	0
1989	3	Summer	116	Hickory shad	0
1989	3	Summer	120	Conger eel	0
1989	3	Summer	122	Warmouth	0
1989	3	Summer	125	White mullet	0
1989	3	Summer	126	Yellow bullhead	0
1989	3	Summer	127	Channel catfish	0
1989	3	Summer	130	Naked goby	0
1989	3	Summer	132	Windowpane	24
1989	3	Summer	133	Spotted hake	0
1989	3	Summer	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	3	Summer	137	American sand lance	0
1989	3	Summer	139	Fourspot flounder	0
1989	3	Summer	140	Atlantic mackerel	0
1989	3	Summer	141	Black sea bass	0
1989	3	Summer	142	Smallmouth flounder	0
1989	3	Summer	143	Rock gunnel	0
1989	3	Summer	144	Inshore lizardfish	0
1989	3	Summer	146	Silver lamprey	0
1989	3	Summer	150	Goby family	0
1989	3	Summer	157	New World silverside family	0
1989	3	Summer	159	Sand flounder family	0
1989	3	Summer	161	Pipefish family	0
1989	3	Summer	162	Mackerel scad	0
1989	3	Summer	164	Cunner	0
1989	3	Summer	169	Gray snapper	0
1989	3	Summer	172	Bigeye scad	0
1989	3	Summer	173	Striped burrfish	0
1989	3	Summer	177	Spotfin butterflyfish	0
1989	3	Summer	179	Planehead filefish	0
1989	3	Summer	180	Atlantic cutlassfish	0
1989	3	Summer	181	Pigfish	0
1989	3	Summer	184	Freckled blenny	0
1989	3	Summer	187	Margined madtom	0
1989	3	Summer	205	Freshwater drum	0
1989	3	Summer	206	King mackerel	6
1989	3	Summer	209	Highfin goby	0
1989	3	Summer	213	Oyster toadfish	0
1989	3	Summer	754	Blue crab	85,272
1989	3	Summer	999	All fish taxa	72,662.00
1989	3	Fall	1	Alewife	204
1989	3	Fall	2	Bay anchovy	756
1989	3	Fall	3	American shad	3,280
1989	3	Fall	4	Bluefish	8
1989	3	Fall	5	Bluegill	416
1989	3	Fall	6	Brown bullhead	12
1989	3	Fall	7	Pumpkinseed	64
1989	3	Fall	8	Black crappie	8
1989	3	Fall	9	Common carp	20
1989	3	Fall	10	American eel	104
1989	3	Fall	11	Goldfish	16
1989	3	Fall	12	Golden shiner	12

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	3	Fall	13	Hogchoker	8,572
1989	3	Fall	14	Tessellated darter	32
1989	3	Fall	15	Banded killifish	48
1989	3	Fall	16	Emerald shiner	0
1989	3	Fall	17	Largemouth bass	8
1989	3	Fall	18	Mummichog	0
1989	3	Fall	19	Atlantic menhaden	16
1989	3	Fall	21	Chain pickerel	0
1989	3	Fall	22	Blueback herring	30,592
1989	3	Fall	23	White sucker	0
1989	3	Fall	24	Atlantic silverside	0
1989	3	Fall	25	Rainbow smelt	24
1989	3	Fall	26	Smallmouth bass	0
1989	3	Fall	27	Shortnose sturgeon	1.82
1989	3	Fall	28	Spottail shiner	240
1989	3	Fall	29	Atlantic sturgeon	0.00
1989	3	Fall	30	Striped bass	840
1989	3	Fall	31	Fourspine stickleback	0
1989	3	Fall	32	Atlantic tomcod	916
1989	3	Fall	34	White catfish	1,620
1989	3	Fall	35	White perch	72,380
1989	3	Fall	36	Yellow perch	48
1989	3	Fall	37	Satinfin shiner	0
1989	3	Fall	38	Rock bass	0
1989	3	Fall	39	Northern pipefish	0
1989	3	Fall	40	Redbreast sunfish	0
1989	3	Fall	41	Atlantic needlefish	0
1989	3	Fall	42	Crevalle jack	8
1989	3	Fall	45	Weakfish	548
1989	3	Fall	47	Common shiner	0
1989	3	Fall	49	Lookdown	0
1989	3	Fall	50	Herring family	0
1989	3	Fall	54	Lined seahorse	0
1989	3	Fall	55	Logperch	0
1989	3	Fall	58	Fathead minnow	0
1989	3	Fall	59	Carp and minnow family	0
1989	3	Fall	60	Morone species	0
1989	3	Fall	62	Tautog	20
1989	3	Fall	63	Fourbeard rockling	0
1989	3	Fall	64	Striped cusk-eel	0
1989	3	Fall	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	3	Fall	68	Atlantic moonfish	0
1989	3	Fall	71	Scup	0
1989	3	Fall	72	Winter flounder	8
1989	3	Fall	73	Inland silverside	0
1989	3	Fall	74	Sea lamprey	0
1989	3	Fall	75	Gizzard shad	3,192
1989	3	Fall	76	Silver hake	16
1989	3	Fall	77	Striped mullet	0
1989	3	Fall	78	Threespine stickleback	0
1989	3	Fall	79	Brown trout	0
1989	3	Fall	80	Butterfish	0
1989	3	Fall	81	White crappie	0
1989	3	Fall	83	Northern pike	0
1989	3	Fall	84	Green sunfish	0
1989	3	Fall	85	Silver perch	0
1989	3	Fall	86	Northern puffer	0
1989	3	Fall	96	Sunfish family	16
1989	3	Fall	98	Red hake	44
1989	3	Fall	100	Central mudminnow	0
1989	3	Fall	101	Grubby	0
1989	3	Fall	102	Eastern mudminnow	0
1989	3	Fall	103	White bass	0
1989	3	Fall	104	Rough silverside	0
1989	3	Fall	105	Longear sunfish	0
1989	3	Fall	106	Summer flounder	8
1989	3	Fall	108	Creek chub	0
1989	3	Fall	109	Black bullhead	0
1989	3	Fall	110	Striped searobin	56
1989	3	Fall	111	Northern searobin	0
1989	3	Fall	113	Atlantic croaker	8
1989	3	Fall	114	Longhorn sculpin	0
1989	3	Fall	116	Hickory shad	0
1989	3	Fall	120	Conger eel	0
1989	3	Fall	122	Warmouth	0
1989	3	Fall	125	White mullet	0
1989	3	Fall	126	Yellow bullhead	0
1989	3	Fall	127	Channel catfish	0
1989	3	Fall	130	Naked goby	16
1989	3	Fall	132	Windowpane	0
1989	3	Fall	133	Spotted hake	0
1989	3	Fall	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1989	3	Fall	137	American sand lance	0
1989	3	Fall	139	Fourspot flounder	0
1989	3	Fall	140	Atlantic mackerel	0
1989	3	Fall	141	Black sea bass	0
1989	3	Fall	142	Smallmouth flounder	0
1989	3	Fall	143	Rock gunnel	0
1989	3	Fall	144	Inshore lizardfish	0
1989	3	Fall	146	Silver lamprey	0
1989	3	Fall	150	Goby family	0
1989	3	Fall	157	New World silverside family	0
1989	3	Fall	159	Sand flounder family	0
1989	3	Fall	161	Pipefish family	0
1989	3	Fall	162	Mackerel scad	0
1989	3	Fall	164	Cunner	0
1989	3	Fall	169	Gray snapper	8
1989	3	Fall	172	Bigeye scad	0
1989	3	Fall	173	Striped burrfish	0
1989	3	Fall	177	Spotfin butterflyfish	0
1989	3	Fall	179	Planehead filefish	0
1989	3	Fall	180	Atlantic cutlassfish	0
1989	3	Fall	181	Pigfish	0
1989	3	Fall	184	Freckled blenny	0
1989	3	Fall	187	Margined madtom	0
1989	3	Fall	205	Freshwater drum	20
1989	3	Fall	206	King mackerel	0
1989	3	Fall	209	Highfin goby	0
1989	3	Fall	213	Oyster toadfish	0
1989	3	Fall	754	Blue crab	17,497
1989	3	Fall	999	All fish taxa	124,205.82
1990	2	Winter	1	Alewife	68
1990	2	Winter	2	Bay anchovy	0
1990	2	Winter	3	American shad	0
1990	2	Winter	4	Bluefish	0
1990	2	Winter	5	Bluegill	38
1990	2	Winter	6	Brown bullhead	30
1990	2	Winter	7	Pumpkinseed	428
1990	2	Winter	8	Black crappie	0
1990	2	Winter	9	Common carp	30
1990	2	Winter	10	American eel	330
1990	2	Winter	11	Goldfish	53
1990	2	Winter	12	Golden shiner	90

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	2	Winter	13	Hogchoker	5,453
1990	2	Winter	14	Tessellated darter	15
1990	2	Winter	15	Banded killifish	53
1990	2	Winter	16	Emerald shiner	0
1990	2	Winter	17	Largemouth bass	0
1990	2	Winter	18	Mummichog	0
1990	2	Winter	19	Atlantic menhaden	0
1990	2	Winter	21	Chain pickerel	8
1990	2	Winter	22	Blueback herring	0
1990	2	Winter	23	White sucker	0
1990	2	Winter	24	Atlantic silverside	0
1990	2	Winter	25	Rainbow smelt	75
1990	2	Winter	26	Smallmouth bass	0
1990	2	Winter	27	Shortnose sturgeon	0.00
1990	2	Winter	28	Spottail shiner	2,213
1990	2	Winter	29	Atlantic sturgeon	0.00
1990	2	Winter	30	Striped bass	6,840
1990	2	Winter	31	Fourspine stickleback	0
1990	2	Winter	32	Atlantic tomcod	2,670
1990	2	Winter	34	White catfish	1,905
1990	2	Winter	35	White perch	516,210
1990	2	Winter	36	Yellow perch	683
1990	2	Winter	37	Satinfin shiner	0
1990	2	Winter	38	Rock bass	0
1990	2	Winter	39	Northern pipefish	0
1990	2	Winter	40	Redbreast sunfish	8
1990	2	Winter	41	Atlantic needlefish	0
1990	2	Winter	42	Crevalle jack	0
1990	2	Winter	45	Weakfish	0
1990	2	Winter	47	Common shiner	0
1990	2	Winter	49	Lookdown	0
1990	2	Winter	50	Herring family	0
1990	2	Winter	54	Lined seahorse	0
1990	2	Winter	55	Logperch	0
1990	2	Winter	58	Fathead minnow	0
1990	2	Winter	59	Carp and minnow family	0
1990	2	Winter	60	Morone species	0
1990	2	Winter	62	Tautog	0
1990	2	Winter	63	Fourbeard rockling	0
1990	2	Winter	64	Striped cusk-eel	0
1990	2	Winter	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	2	Winter	68	Atlantic moonfish	0
1990	2	Winter	71	Scup	0
1990	2	Winter	72	Winter flounder	30
1990	2	Winter	73	Inland silverside	0
1990	2	Winter	74	Sea lamprey	23
1990	2	Winter	75	Gizzard shad	2,235
1990	2	Winter	76	Silver hake	0
1990	2	Winter	77	Striped mullet	0
1990	2	Winter	78	Threespine stickleback	135
1990	2	Winter	79	Brown trout	0
1990	2	Winter	80	Butterfish	0
1990	2	Winter	81	White crappie	0
1990	2	Winter	83	Northern pike	0
1990	2	Winter	84	Green sunfish	0
1990	2	Winter	85	Silver perch	0
1990	2	Winter	86	Northern puffer	0
1990	2	Winter	96	Sunfish family	0
1990	2	Winter	98	Red hake	8
1990	2	Winter	100	Central mudminnow	0
1990	2	Winter	101	Grubby	0
1990	2	Winter	102	Eastern mudminnow	0
1990	2	Winter	103	White bass	0
1990	2	Winter	104	Rough silverside	0
1990	2	Winter	105	Longear sunfish	0
1990	2	Winter	106	Summer flounder	0
1990	2	Winter	108	Creek chub	8
1990	2	Winter	109	Black bullhead	0
1990	2	Winter	110	Striped searobin	0
1990	2	Winter	111	Northern searobin	0
1990	2	Winter	113	Atlantic croaker	0
1990	2	Winter	114	Longhorn sculpin	0
1990	2	Winter	116	Hickory shad	0
1990	2	Winter	120	Conger eel	0
1990	2	Winter	122	Warmouth	0
1990	2	Winter	125	White mullet	0
1990	2	Winter	126	Yellow bullhead	0
1990	2	Winter	127	Channel catfish	0
1990	2	Winter	130	Naked goby	0
1990	2	Winter	132	Windowpane	0
1990	2	Winter	133	Spotted hake	0
1990	2	Winter	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	2	Winter	137	American sand lance	0
1990	2	Winter	139	Fourspot flounder	0
1990	2	Winter	140	Atlantic mackerel	0
1990	2	Winter	141	Black sea bass	0
1990	2	Winter	142	Smallmouth flounder	0
1990	2	Winter	143	Rock gunnel	0
1990	2	Winter	144	Inshore lizardfish	0
1990	2	Winter	146	Silver lamprey	0
1990	2	Winter	150	Goby family	0
1990	2	Winter	157	New World silverside family	0
1990	2	Winter	159	Sand flounder family	0
1990	2	Winter	161	Pipefish family	0
1990	2	Winter	162	Mackerel scad	0
1990	2	Winter	164	Cunner	0
1990	2	Winter	169	Gray snapper	0
1990	2	Winter	172	Bigeye scad	0
1990	2	Winter	173	Striped burrfish	0
1990	2	Winter	177	Spotfin butterflyfish	0
1990	2	Winter	179	Planehead filefish	0
1990	2	Winter	180	Atlantic cutlassfish	0
1990	2	Winter	181	Pigfish	0
1990	2	Winter	184	Freckled blenny	0
1990	2	Winter	187	Margined madtom	23
1990	2	Winter	205	Freshwater drum	0
1990	2	Winter	206	King mackerel	0
1990	2	Winter	209	Highfin goby	0
1990	2	Winter	213	Oyster toadfish	0
1990	2	Winter	754	Blue crab	0
1990	2	Winter	999	All fish taxa	539,662.00
1990	2	Spring	1	Alewife	260
1990	2	Spring	2	Bay anchovy	78
1990	2	Spring	3	American shad	0
1990	2	Spring	4	Bluefish	4,212
1990	2	Spring	5	Bluegill	0
1990	2	Spring	6	Brown bullhead	46
1990	2	Spring	7	Pumpkinseed	91
1990	2	Spring	8	Black crappie	0
1990	2	Spring	9	Common carp	0
1990	2	Spring	10	American eel	1,560
1990	2	Spring	11	Goldfish	0
1990	2	Spring	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	2	Spring	13	Hogchoker	10,205
1990	2	Spring	14	Tessellated darter	0
1990	2	Spring	15	Banded killifish	46
1990	2	Spring	16	Emerald shiner	0
1990	2	Spring	17	Largemouth bass	0
1990	2	Spring	18	Mummichog	0
1990	2	Spring	19	Atlantic menhaden	288
1990	2	Spring	21	Chain pickerel	0
1990	2	Spring	22	Blueback herring	286
1990	2	Spring	23	White sucker	0
1990	2	Spring	24	Atlantic silverside	0
1990	2	Spring	25	Rainbow smelt	195
1990	2	Spring	26	Smallmouth bass	0
1990	2	Spring	27	Shortnose sturgeon	0.00
1990	2	Spring	28	Spottail shiner	0
1990	2	Spring	29	Atlantic sturgeon	0.00
1990	2	Spring	30	Striped bass	442
1990	2	Spring	31	Fourspine stickleback	0
1990	2	Spring	32	Atlantic tomcod	51,168
1990	2	Spring	34	White catfish	819
1990	2	Spring	35	White perch	47,359
1990	2	Spring	36	Yellow perch	0
1990	2	Spring	37	Satinfin shiner	0
1990	2	Spring	38	Rock bass	0
1990	2	Spring	39	Northern pipefish	0
1990	2	Spring	40	Redbreast sunfish	0
1990	2	Spring	41	Atlantic needlefish	0
1990	2	Spring	42	Crevalle jack	0
1990	2	Spring	45	Weakfish	0
1990	2	Spring	47	Common shiner	0
1990	2	Spring	49	Lookdown	0
1990	2	Spring	50	Herring family	197
1990	2	Spring	54	Lined seahorse	0
1990	2	Spring	55	Logperch	0
1990	2	Spring	58	Fathead minnow	0
1990	2	Spring	59	Carp and minnow family	0
1990	2	Spring	60	Morone species	0
1990	2	Spring	62	Tautog	0
1990	2	Spring	63	Fourbeard rockling	0
1990	2	Spring	64	Striped cusk-eel	0
1990	2	Spring	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	2	Spring	68	Atlantic moonfish	0
1990	2	Spring	71	Scup	0
1990	2	Spring	72	Winter flounder	0
1990	2	Spring	73	Inland silverside	0
1990	2	Spring	74	Sea lamprey	0
1990	2	Spring	75	Gizzard shad	0
1990	2	Spring	76	Silver hake	0
1990	2	Spring	77	Striped mullet	0
1990	2	Spring	78	Threespine stickleback	0
1990	2	Spring	79	Brown trout	0
1990	2	Spring	80	Butterfish	0
1990	2	Spring	81	White crappie	0
1990	2	Spring	83	Northern pike	0
1990	2	Spring	84	Green sunfish	0
1990	2	Spring	85	Silver perch	0
1990	2	Spring	86	Northern puffer	0
1990	2	Spring	96	Sunfish family	0
1990	2	Spring	98	Red hake	0
1990	2	Spring	100	Central mudminnow	0
1990	2	Spring	101	Grubby	0
1990	2	Spring	102	Eastern mudminnow	0
1990	2	Spring	103	White bass	0
1990	2	Spring	104	Rough silverside	0
1990	2	Spring	105	Longear sunfish	0
1990	2	Spring	106	Summer flounder	0
1990	2	Spring	108	Creek chub	0
1990	2	Spring	109	Black bullhead	0
1990	2	Spring	110	Striped searobin	0
1990	2	Spring	111	Northern searobin	0
1990	2	Spring	113	Atlantic croaker	0
1990	2	Spring	114	Longhorn sculpin	0
1990	2	Spring	116	Hickory shad	0
1990	2	Spring	120	Conger eel	0
1990	2	Spring	122	Warmouth	0
1990	2	Spring	125	White mullet	0
1990	2	Spring	126	Yellow bullhead	0
1990	2	Spring	127	Channel catfish	0
1990	2	Spring	130	Naked goby	0
1990	2	Spring	132	Windowpane	0
1990	2	Spring	133	Spotted hake	0
1990	2	Spring	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	2	Spring	137	American sand lance	0
1990	2	Spring	139	Fourspot flounder	0
1990	2	Spring	140	Atlantic mackerel	0
1990	2	Spring	141	Black sea bass	0
1990	2	Spring	142	Smallmouth flounder	0
1990	2	Spring	143	Rock gunnel	0
1990	2	Spring	144	Inshore lizardfish	0
1990	2	Spring	146	Silver lamprey	0
1990	2	Spring	150	Goby family	0
1990	2	Spring	157	New World silverside family	0
1990	2	Spring	159	Sand flounder family	0
1990	2	Spring	161	Pipefish family	0
1990	2	Spring	162	Mackerel scad	0
1990	2	Spring	164	Cunner	0
1990	2	Spring	169	Gray snapper	0
1990	2	Spring	172	Bigeye scad	0
1990	2	Spring	173	Striped burrfish	0
1990	2	Spring	177	Spotfin butterflyfish	0
1990	2	Spring	179	Planehead filefish	0
1990	2	Spring	180	Atlantic cutlassfish	0
1990	2	Spring	181	Pigfish	0
1990	2	Spring	184	Freckled blenny	0
1990	2	Spring	187	Margined madtom	0
1990	2	Spring	205	Freshwater drum	0
1990	2	Spring	206	King mackerel	0
1990	2	Spring	209	Highfin goby	0
1990	2	Spring	213	Oyster toadfish	0
1990	2	Spring	754	Blue crab	446
1990	2	Spring	999	All fish taxa	117,252.00
1990	2	Summer	1	Alewife	414
1990	2	Summer	2	Bay anchovy	13,409
1990	2	Summer	3	American shad	1,280
1990	2	Summer	4	Bluefish	1,572
1990	2	Summer	5	Bluegill	491
1990	2	Summer	6	Brown bullhead	23
1990	2	Summer	7	Pumpkinseed	84
1990	2	Summer	8	Black crappie	0
1990	2	Summer	9	Common carp	0
1990	2	Summer	10	American eel	169
1990	2	Summer	11	Goldfish	0
1990	2	Summer	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	2	Summer	13	Hogchoker	8,847
1990	2	Summer	14	Tessellated darter	0
1990	2	Summer	15	Banded killifish	38
1990	2	Summer	16	Emerald shiner	0
1990	2	Summer	17	Largemouth bass	84
1990	2	Summer	18	Mummichog	0
1990	2	Summer	19	Atlantic menhaden	368
1990	2	Summer	21	Chain pickerel	0
1990	2	Summer	22	Blueback herring	1,066
1990	2	Summer	23	White sucker	0
1990	2	Summer	24	Atlantic silverside	0
1990	2	Summer	25	Rainbow smelt	69
1990	2	Summer	26	Smallmouth bass	0
1990	2	Summer	27	Shortnose sturgeon	3.37
1990	2	Summer	28	Spottail shiner	192
1990	2	Summer	29	Atlantic sturgeon	0.00
1990	2	Summer	30	Striped bass	5,811
1990	2	Summer	31	Fourspine stickleback	0
1990	2	Summer	32	Atlantic tomcod	42,887
1990	2	Summer	34	White catfish	981
1990	2	Summer	35	White perch	13,777
1990	2	Summer	36	Yellow perch	0
1990	2	Summer	37	Satinfin shiner	0
1990	2	Summer	38	Rock bass	0
1990	2	Summer	39	Northern pipefish	0
1990	2	Summer	40	Redbreast sunfish	0
1990	2	Summer	41	Atlantic needlefish	0
1990	2	Summer	42	Crevalle jack	330
1990	2	Summer	45	Weakfish	2,898
1990	2	Summer	47	Common shiner	0
1990	2	Summer	49	Lookdown	0
1990	2	Summer	50	Herring family	130
1990	2	Summer	54	Lined seahorse	0
1990	2	Summer	55	Logperch	0
1990	2	Summer	58	Fathead minnow	0
1990	2	Summer	59	Carp and minnow family	0
1990	2	Summer	60	Morone species	0
1990	2	Summer	62	Tautog	0
1990	2	Summer	63	Fourbeard rockling	0
1990	2	Summer	64	Striped cusk-eel	0
1990	2	Summer	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	2	Summer	68	Atlantic moonfish	0
1990	2	Summer	71	Scup	0
1990	2	Summer	72	Winter flounder	0
1990	2	Summer	73	Inland silverside	0
1990	2	Summer	74	Sea lamprey	0
1990	2	Summer	75	Gizzard shad	23
1990	2	Summer	76	Silver hake	0
1990	2	Summer	77	Striped mullet	0
1990	2	Summer	78	Threespine stickleback	0
1990	2	Summer	79	Brown trout	0
1990	2	Summer	80	Butterfish	0
1990	2	Summer	81	White crappie	0
1990	2	Summer	83	Northern pike	0
1990	2	Summer	84	Green sunfish	0
1990	2	Summer	85	Silver perch	0
1990	2	Summer	86	Northern puffer	0
1990	2	Summer	96	Sunfish family	0
1990	2	Summer	98	Red hake	0
1990	2	Summer	100	Central mudminnow	0
1990	2	Summer	101	Grubby	0
1990	2	Summer	102	Eastern mudminnow	0
1990	2	Summer	103	White bass	0
1990	2	Summer	104	Rough silverside	0
1990	2	Summer	105	Longear sunfish	0
1990	2	Summer	106	Summer flounder	115
1990	2	Summer	108	Creek chub	0
1990	2	Summer	109	Black bullhead	0
1990	2	Summer	110	Striped searobin	23
1990	2	Summer	111	Northern searobin	0
1990	2	Summer	113	Atlantic croaker	0
1990	2	Summer	114	Longhorn sculpin	0
1990	2	Summer	116	Hickory shad	0
1990	2	Summer	120	Conger eel	0
1990	2	Summer	122	Warmouth	0
1990	2	Summer	125	White mullet	0
1990	2	Summer	126	Yellow bullhead	0
1990	2	Summer	127	Channel catfish	0
1990	2	Summer	130	Naked goby	23
1990	2	Summer	132	Windowpane	61
1990	2	Summer	133	Spotted hake	0
1990	2	Summer	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	2	Summer	137	American sand lance	0
1990	2	Summer	139	Fourspot flounder	0
1990	2	Summer	140	Atlantic mackerel	0
1990	2	Summer	141	Black sea bass	0
1990	2	Summer	142	Smallmouth flounder	0
1990	2	Summer	143	Rock gunnel	0
1990	2	Summer	144	Inshore lizardfish	0
1990	2	Summer	146	Silver lamprey	0
1990	2	Summer	150	Goby family	0
1990	2	Summer	157	New World silverside family	0
1990	2	Summer	159	Sand flounder family	0
1990	2	Summer	161	Pipefish family	23
1990	2	Summer	162	Mackerel scad	0
1990	2	Summer	164	Cunner	0
1990	2	Summer	169	Gray snapper	0
1990	2	Summer	172	Bigeye scad	0
1990	2	Summer	173	Striped burrfish	0
1990	2	Summer	177	Spotfin butterflyfish	0
1990	2	Summer	179	Planehead filefish	0
1990	2	Summer	180	Atlantic cutlassfish	0
1990	2	Summer	181	Pigfish	0
1990	2	Summer	184	Freckled blenny	0
1990	2	Summer	187	Margined madtom	0
1990	2	Summer	205	Freshwater drum	38
1990	2	Summer	206	King mackerel	0
1990	2	Summer	209	Highfin goby	0
1990	2	Summer	213	Oyster toadfish	0
1990	2	Summer	754	Blue crab	19,756
1990	2	Summer	999	All fish taxa	95,229.37
1990	2	Fall	1	Alewife	361
1990	2	Fall	2	Bay anchovy	1,224
1990	2	Fall	3	American shad	170
1990	2	Fall	4	Bluefish	21
1990	2	Fall	5	Bluegill	861
1990	2	Fall	6	Brown bullhead	39
1990	2	Fall	7	Pumpkinseed	125
1990	2	Fall	8	Black crappie	14
1990	2	Fall	9	Common carp	14
1990	2	Fall	10	American eel	125
1990	2	Fall	11	Goldfish	0
1990	2	Fall	12	Golden shiner	14

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	2	Fall	13	Hogchoker	3,517
1990	2	Fall	14	Tessellated darter	85
1990	2	Fall	15	Banded killifish	0
1990	2	Fall	16	Emerald shiner	0
1990	2	Fall	17	Largemouth bass	0
1990	2	Fall	18	Mummichog	0
1990	2	Fall	19	Atlantic menhaden	92
1990	2	Fall	21	Chain pickerel	0
1990	2	Fall	22	Blueback herring	16,595
1990	2	Fall	23	White sucker	0
1990	2	Fall	24	Atlantic silverside	21
1990	2	Fall	25	Rainbow smelt	92
1990	2	Fall	26	Smallmouth bass	0
1990	2	Fall	27	Shortnose sturgeon	0.00
1990	2	Fall	28	Spottail shiner	262
1990	2	Fall	29	Atlantic sturgeon	0.00
1990	2	Fall	30	Striped bass	6,277
1990	2	Fall	31	Fourspine stickleback	0
1990	2	Fall	32	Atlantic tomcod	149
1990	2	Fall	34	White catfish	594
1990	2	Fall	35	White perch	45,409
1990	2	Fall	36	Yellow perch	99
1990	2	Fall	37	Satinfin shiner	0
1990	2	Fall	38	Rock bass	0
1990	2	Fall	39	Northern pipefish	0
1990	2	Fall	40	Redbreast sunfish	0
1990	2	Fall	41	Atlantic needlefish	21
1990	2	Fall	42	Crevalle jack	57
1990	2	Fall	45	Weakfish	0
1990	2	Fall	47	Common shiner	0
1990	2	Fall	49	Lookdown	21
1990	2	Fall	50	Herring family	0
1990	2	Fall	54	Lined seahorse	0
1990	2	Fall	55	Logperch	0
1990	2	Fall	58	Fathead minnow	0
1990	2	Fall	59	Carp and minnow family	0
1990	2	Fall	60	Morone species	0
1990	2	Fall	62	Tautog	0
1990	2	Fall	63	Fourbeard rockling	0
1990	2	Fall	64	Striped cusk-eel	0
1990	2	Fall	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	2	Fall	68	Atlantic moonfish	0
1990	2	Fall	71	Scup	0
1990	2	Fall	72	Winter flounder	14
1990	2	Fall	73	Inland silverside	0
1990	2	Fall	74	Sea lamprey	0
1990	2	Fall	75	Gizzard shad	657
1990	2	Fall	76	Silver hake	0
1990	2	Fall	77	Striped mullet	0
1990	2	Fall	78	Threespine stickleback	0
1990	2	Fall	79	Brown trout	0
1990	2	Fall	80	Butterfish	21
1990	2	Fall	81	White crappie	0
1990	2	Fall	83	Northern pike	0
1990	2	Fall	84	Green sunfish	0
1990	2	Fall	85	Silver perch	0
1990	2	Fall	86	Northern puffer	0
1990	2	Fall	96	Sunfish family	0
1990	2	Fall	98	Red hake	0
1990	2	Fall	100	Central mudminnow	0
1990	2	Fall	101	Grubby	0
1990	2	Fall	102	Eastern mudminnow	0
1990	2	Fall	103	White bass	0
1990	2	Fall	104	Rough silverside	0
1990	2	Fall	105	Longear sunfish	0
1990	2	Fall	106	Summer flounder	106
1990	2	Fall	108	Creek chub	0
1990	2	Fall	109	Black bullhead	0
1990	2	Fall	110	Striped searobin	0
1990	2	Fall	111	Northern searobin	0
1990	2	Fall	113	Atlantic croaker	0
1990	2	Fall	114	Longhorn sculpin	0
1990	2	Fall	116	Hickory shad	0
1990	2	Fall	120	Conger eel	0
1990	2	Fall	122	Warmouth	0
1990	2	Fall	125	White mullet	0
1990	2	Fall	126	Yellow bullhead	0
1990	2	Fall	127	Channel catfish	0
1990	2	Fall	130	Naked goby	14
1990	2	Fall	132	Windowpane	0
1990	2	Fall	133	Spotted hake	0
1990	2	Fall	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	2	Fall	137	American sand lance	0
1990	2	Fall	139	Fourspot flounder	0
1990	2	Fall	140	Atlantic mackerel	0
1990	2	Fall	141	Black sea bass	0
1990	2	Fall	142	Smallmouth flounder	0
1990	2	Fall	143	Rock gunnel	0
1990	2	Fall	144	Inshore lizardfish	0
1990	2	Fall	146	Silver lamprey	0
1990	2	Fall	150	Goby family	0
1990	2	Fall	157	New World silverside family	0
1990	2	Fall	159	Sand flounder family	0
1990	2	Fall	161	Pipefish family	0
1990	2	Fall	162	Mackerel scad	0
1990	2	Fall	164	Cunner	0
1990	2	Fall	169	Gray snapper	14
1990	2	Fall	172	Bigeye scad	0
1990	2	Fall	173	Striped burrfish	0
1990	2	Fall	177	Spotfin butterflyfish	0
1990	2	Fall	179	Planehead filefish	0
1990	2	Fall	180	Atlantic cutlassfish	0
1990	2	Fall	181	Pigfish	0
1990	2	Fall	184	Freckled blenny	0
1990	2	Fall	187	Margined madtom	0
1990	2	Fall	205	Freshwater drum	0
1990	2	Fall	206	King mackerel	0
1990	2	Fall	209	Highfin goby	14
1990	2	Fall	213	Oyster toadfish	0
1990	2	Fall	754	Blue crab	3,463
1990	2	Fall	999	All fish taxa	77,099.00
1990	3	Winter	1	Alewife	74
1990	3	Winter	2	Bay anchovy	0
1990	3	Winter	3	American shad	0
1990	3	Winter	4	Bluefish	0
1990	3	Winter	5	Bluegill	6
1990	3	Winter	6	Brown bullhead	36
1990	3	Winter	7	Pumpkinseed	102
1990	3	Winter	8	Black crappie	0
1990	3	Winter	9	Common carp	3
1990	3	Winter	10	American eel	39
1990	3	Winter	11	Goldfish	30
1990	3	Winter	12	Golden shiner	41

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	3	Winter	13	Hogchoker	853
1990	3	Winter	14	Tessellated darter	0
1990	3	Winter	15	Banded killifish	19
1990	3	Winter	16	Emerald shiner	0
1990	3	Winter	17	Largemouth bass	6
1990	3	Winter	18	Mummichog	0
1990	3	Winter	19	Atlantic menhaden	0
1990	3	Winter	21	Chain pickerel	8
1990	3	Winter	22	Blueback herring	3
1990	3	Winter	23	White sucker	0
1990	3	Winter	24	Atlantic silverside	3
1990	3	Winter	25	Rainbow smelt	3
1990	3	Winter	26	Smallmouth bass	3
1990	3	Winter	27	Shortnose sturgeon	0.00
1990	3	Winter	28	Spottail shiner	355
1990	3	Winter	29	Atlantic sturgeon	1.49
1990	3	Winter	30	Striped bass	1,356
1990	3	Winter	31	Fourspine stickleback	0
1990	3	Winter	32	Atlantic tomcod	396
1990	3	Winter	34	White catfish	327
1990	3	Winter	35	White perch	142,857
1990	3	Winter	36	Yellow perch	30
1990	3	Winter	37	Satinfin shiner	0
1990	3	Winter	38	Rock bass	0
1990	3	Winter	39	Northern pipefish	0
1990	3	Winter	40	Redbreast sunfish	0
1990	3	Winter	41	Atlantic needlefish	0
1990	3	Winter	42	Crevalle jack	0
1990	3	Winter	45	Weakfish	0
1990	3	Winter	47	Common shiner	0
1990	3	Winter	49	Lookdown	0
1990	3	Winter	50	Herring family	3
1990	3	Winter	54	Lined seahorse	0
1990	3	Winter	55	Logperch	0
1990	3	Winter	58	Fathead minnow	0
1990	3	Winter	59	Carp and minnow family	0
1990	3	Winter	60	Morone species	0
1990	3	Winter	62	Tautog	0
1990	3	Winter	63	Fourbeard rockling	0
1990	3	Winter	64	Striped cusk-eel	0
1990	3	Winter	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	3	Winter	68	Atlantic moonfish	0
1990	3	Winter	71	Scup	0
1990	3	Winter	72	Winter flounder	8
1990	3	Winter	73	Inland silverside	0
1990	3	Winter	74	Sea lamprey	0
1990	3	Winter	75	Gizzard shad	3,006
1990	3	Winter	76	Silver hake	0
1990	3	Winter	77	Striped mullet	0
1990	3	Winter	78	Threespine stickleback	50
1990	3	Winter	79	Brown trout	0
1990	3	Winter	80	Butterfish	0
1990	3	Winter	81	White crappie	0
1990	3	Winter	83	Northern pike	0
1990	3	Winter	84	Green sunfish	0
1990	3	Winter	85	Silver perch	0
1990	3	Winter	86	Northern puffer	0
1990	3	Winter	96	Sunfish family	0
1990	3	Winter	98	Red hake	11
1990	3	Winter	100	Central mudminnow	0
1990	3	Winter	101	Grubby	0
1990	3	Winter	102	Eastern mudminnow	0
1990	3	Winter	103	White bass	0
1990	3	Winter	104	Rough silverside	0
1990	3	Winter	105	Longear sunfish	0
1990	3	Winter	106	Summer flounder	0
1990	3	Winter	108	Creek chub	0
1990	3	Winter	109	Black bullhead	0
1990	3	Winter	110	Striped searobin	0
1990	3	Winter	111	Northern searobin	0
1990	3	Winter	113	Atlantic croaker	0
1990	3	Winter	114	Longhorn sculpin	0
1990	3	Winter	116	Hickory shad	0
1990	3	Winter	120	Conger eel	0
1990	3	Winter	122	Warmouth	0
1990	3	Winter	125	White mullet	0
1990	3	Winter	126	Yellow bullhead	0
1990	3	Winter	127	Channel catfish	6
1990	3	Winter	130	Naked goby	0
1990	3	Winter	132	Windowpane	0
1990	3	Winter	133	Spotted hake	0
1990	3	Winter	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	3	Winter	137	American sand lance	0
1990	3	Winter	139	Fourspot flounder	0
1990	3	Winter	140	Atlantic mackerel	0
1990	3	Winter	141	Black sea bass	0
1990	3	Winter	142	Smallmouth flounder	0
1990	3	Winter	143	Rock gunnel	0
1990	3	Winter	144	Inshore lizardfish	0
1990	3	Winter	146	Silver lamprey	0
1990	3	Winter	150	Goby family	0
1990	3	Winter	157	New World silverside family	0
1990	3	Winter	159	Sand flounder family	0
1990	3	Winter	161	Pipefish family	0
1990	3	Winter	162	Mackerel scad	0
1990	3	Winter	164	Cunner	0
1990	3	Winter	169	Gray snapper	0
1990	3	Winter	172	Bigeye scad	0
1990	3	Winter	173	Striped burrfish	0
1990	3	Winter	177	Spotfin butterflyfish	0
1990	3	Winter	179	Planehead filefish	0
1990	3	Winter	180	Atlantic cutlassfish	0
1990	3	Winter	181	Pigfish	0
1990	3	Winter	184	Freckled blenny	0
1990	3	Winter	187	Margined madtom	3
1990	3	Winter	205	Freshwater drum	0
1990	3	Winter	206	King mackerel	0
1990	3	Winter	209	Highfin goby	0
1990	3	Winter	213	Oyster toadfish	0
1990	3	Winter	754	Blue crab	1
1990	3	Winter	999	All fish taxa	149,638.49
1990	3	Spring	1	Alewife	219
1990	3	Spring	2	Bay anchovy	50
1990	3	Spring	3	American shad	79
1990	3	Spring	4	Bluefish	1,489
1990	3	Spring	5	Bluegill	25
1990	3	Spring	6	Brown bullhead	41
1990	3	Spring	7	Pumpkinseed	25
1990	3	Spring	8	Black crappie	0
1990	3	Spring	9	Common carp	0
1990	3	Spring	10	American eel	199
1990	3	Spring	11	Goldfish	21
1990	3	Spring	12	Golden shiner	25

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	3	Spring	13	Hogchoker	4,050
1990	3	Spring	14	Tessellated darter	29
1990	3	Spring	15	Banded killifish	0
1990	3	Spring	16	Emerald shiner	0
1990	3	Spring	17	Largemouth bass	8
1990	3	Spring	18	Mummichog	0
1990	3	Spring	19	Atlantic menhaden	41
1990	3	Spring	21	Chain pickerel	0
1990	3	Spring	22	Blueback herring	451
1990	3	Spring	23	White sucker	0
1990	3	Spring	24	Atlantic silverside	0
1990	3	Spring	25	Rainbow smelt	132
1990	3	Spring	26	Smallmouth bass	0
1990	3	Spring	27	Shortnose sturgeon	0.00
1990	3	Spring	28	Spottail shiner	83
1990	3	Spring	29	Atlantic sturgeon	1.59
1990	3	Spring	30	Striped bass	124
1990	3	Spring	31	Fourspine stickleback	0
1990	3	Spring	32	Atlantic tomcod	6,614
1990	3	Spring	34	White catfish	467
1990	3	Spring	35	White perch	23,722
1990	3	Spring	36	Yellow perch	8
1990	3	Spring	37	Satinfin shiner	0
1990	3	Spring	38	Rock bass	0
1990	3	Spring	39	Northern pipefish	0
1990	3	Spring	40	Redbreast sunfish	0
1990	3	Spring	41	Atlantic needlefish	0
1990	3	Spring	42	Crevalle jack	0
1990	3	Spring	45	Weakfish	0
1990	3	Spring	47	Common shiner	0
1990	3	Spring	49	Lookdown	0
1990	3	Spring	50	Herring family	33
1990	3	Spring	54	Lined seahorse	0
1990	3	Spring	55	Logperch	0
1990	3	Spring	58	Fathead minnow	0
1990	3	Spring	59	Carp and minnow family	0
1990	3	Spring	60	Morone species	0
1990	3	Spring	62	Tautog	0
1990	3	Spring	63	Fourbeard rockling	0
1990	3	Spring	64	Striped cusk-eel	0
1990	3	Spring	67	Spot	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	3	Spring	68	Atlantic moonfish	0
1990	3	Spring	71	Scup	0
1990	3	Spring	72	Winter flounder	0
1990	3	Spring	73	Inland silverside	0
1990	3	Spring	74	Sea lamprey	0
1990	3	Spring	75	Gizzard shad	25
1990	3	Spring	76	Silver hake	0
1990	3	Spring	77	Striped mullet	0
1990	3	Spring	78	Threespine stickleback	0
1990	3	Spring	79	Brown trout	0
1990	3	Spring	80	Butterfish	0
1990	3	Spring	81	White crappie	0
1990	3	Spring	83	Northern pike	0
1990	3	Spring	84	Green sunfish	0
1990	3	Spring	85	Silver perch	0
1990	3	Spring	86	Northern puffer	0
1990	3	Spring	96	Sunfish family	0
1990	3	Spring	98	Red hake	0
1990	3	Spring	100	Central mudminnow	0
1990	3	Spring	101	Grubby	0
1990	3	Spring	102	Eastern mudminnow	0
1990	3	Spring	103	White bass	0
1990	3	Spring	104	Rough silverside	0
1990	3	Spring	105	Longear sunfish	0
1990	3	Spring	106	Summer flounder	0
1990	3	Spring	108	Creek chub	0
1990	3	Spring	109	Black bullhead	0
1990	3	Spring	110	Striped searobin	0
1990	3	Spring	111	Northern searobin	0
1990	3	Spring	113	Atlantic croaker	0
1990	3	Spring	114	Longhorn sculpin	0
1990	3	Spring	116	Hickory shad	0
1990	3	Spring	120	Conger eel	0
1990	3	Spring	122	Warmouth	0
1990	3	Spring	125	White mullet	0
1990	3	Spring	126	Yellow bullhead	0
1990	3	Spring	127	Channel catfish	0
1990	3	Spring	130	Naked goby	0
1990	3	Spring	132	Windowpane	8
1990	3	Spring	133	Spotted hake	0
1990	3	Spring	136	Northern stargazer	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	3	Spring	137	American sand lance	0
1990	3	Spring	139	Fourspot flounder	0
1990	3	Spring	140	Atlantic mackerel	0
1990	3	Spring	141	Black sea bass	0
1990	3	Spring	142	Smallmouth flounder	0
1990	3	Spring	143	Rock gunnel	0
1990	3	Spring	144	Inshore lizardfish	0
1990	3	Spring	146	Silver lamprey	0
1990	3	Spring	150	Goby family	0
1990	3	Spring	157	New World silverside family	0
1990	3	Spring	159	Sand flounder family	0
1990	3	Spring	161	Pipefish family	0
1990	3	Spring	162	Mackerel scad	0
1990	3	Spring	164	Cunner	0
1990	3	Spring	169	Gray snapper	0
1990	3	Spring	172	Bigeye scad	0
1990	3	Spring	173	Striped burrfish	0
1990	3	Spring	177	Spotfin butterflyfish	0
1990	3	Spring	179	Planehead filefish	0
1990	3	Spring	180	Atlantic cutlassfish	0
1990	3	Spring	181	Pigfish	0
1990	3	Spring	184	Freckled blenny	0
1990	3	Spring	187	Margined madtom	0
1990	3	Spring	205	Freshwater drum	0
1990	3	Spring	206	King mackerel	0
1990	3	Spring	209	Highfin goby	0
1990	3	Spring	213	Oyster toadfish	0
1990	3	Spring	754	Blue crab	346
1990	3	Spring	999	All fish taxa	37,969.59
1990	3	Summer	1	Alewife	604
1990	3	Summer	2	Bay anchovy	6,897
1990	3	Summer	3	American shad	1,489
1990	3	Summer	4	Bluefish	1,539
1990	3	Summer	5	Bluegill	35
1990	3	Summer	6	Brown bullhead	0
1990	3	Summer	7	Pumpkinseed	6
1990	3	Summer	8	Black crappie	0
1990	3	Summer	9	Common carp	0
1990	3	Summer	10	American eel	59
1990	3	Summer	11	Goldfish	0
1990	3	Summer	12	Golden shiner	0

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	3	Summer	13	Hogchoker	7,310
1990	3	Summer	14	Tessellated darter	0
1990	3	Summer	15	Banded killifish	0
1990	3	Summer	16	Emerald shiner	0
1990	3	Summer	17	Largemouth bass	23
1990	3	Summer	18	Mummichog	0
1990	3	Summer	19	Atlantic menhaden	346
1990	3	Summer	21	Chain pickerel	0
1990	3	Summer	22	Blueback herring	2,313
1990	3	Summer	23	White sucker	0
1990	3	Summer	24	Atlantic silverside	0
1990	3	Summer	25	Rainbow smelt	756
1990	3	Summer	26	Smallmouth bass	0
1990	3	Summer	27	Shortnose sturgeon	0.00
1990	3	Summer	28	Spottail shiner	6
1990	3	Summer	29	Atlantic sturgeon	0.00
1990	3	Summer	30	Striped bass	1,131
1990	3	Summer	31	Fourspine stickleback	0
1990	3	Summer	32	Atlantic tomcod	18,026
1990	3	Summer	34	White catfish	152
1990	3	Summer	35	White perch	5,912
1990	3	Summer	36	Yellow perch	6
1990	3	Summer	37	Satinfin shiner	0
1990	3	Summer	38	Rock bass	0
1990	3	Summer	39	Northern pipefish	0
1990	3	Summer	40	Redbreast sunfish	6
1990	3	Summer	41	Atlantic needlefish	0
1990	3	Summer	42	Crevalle jack	94
1990	3	Summer	45	Weakfish	1,477
1990	3	Summer	47	Common shiner	0
1990	3	Summer	49	Lookdown	0
1990	3	Summer	50	Herring family	243
1990	3	Summer	54	Lined seahorse	0
1990	3	Summer	55	Logperch	0
1990	3	Summer	58	Fathead minnow	0
1990	3	Summer	59	Carp and minnow family	0
1990	3	Summer	60	Morone species	0
1990	3	Summer	62	Tautog	0
1990	3	Summer	63	Fourbeard rockling	0
1990	3	Summer	64	Striped cusk-eel	0
1990	3	Summer	67	Spot	18

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	3	Summer	68	Atlantic moonfish	0
1990	3	Summer	71	Scup	0
1990	3	Summer	72	Winter flounder	6
1990	3	Summer	73	Inland silverside	0
1990	3	Summer	74	Sea lamprey	0
1990	3	Summer	75	Gizzard shad	0
1990	3	Summer	76	Silver hake	0
1990	3	Summer	77	Striped mullet	0
1990	3	Summer	78	Threespine stickleback	0
1990	3	Summer	79	Brown trout	0
1990	3	Summer	80	Butterfish	686
1990	3	Summer	81	White crappie	0
1990	3	Summer	83	Northern pike	0
1990	3	Summer	84	Green sunfish	0
1990	3	Summer	85	Silver perch	0
1990	3	Summer	86	Northern puffer	0
1990	3	Summer	96	Sunfish family	6
1990	3	Summer	98	Red hake	0
1990	3	Summer	100	Central mudminnow	0
1990	3	Summer	101	Grubby	0
1990	3	Summer	102	Eastern mudminnow	0
1990	3	Summer	103	White bass	0
1990	3	Summer	104	Rough silverside	0
1990	3	Summer	105	Longear sunfish	0
1990	3	Summer	106	Summer flounder	141
1990	3	Summer	108	Creek chub	0
1990	3	Summer	109	Black bullhead	0
1990	3	Summer	110	Striped searobin	0
1990	3	Summer	111	Northern searobin	6
1990	3	Summer	113	Atlantic croaker	0
1990	3	Summer	114	Longhorn sculpin	0
1990	3	Summer	116	Hickory shad	6
1990	3	Summer	120	Conger eel	0
1990	3	Summer	122	Warmouth	0
1990	3	Summer	125	White mullet	0
1990	3	Summer	126	Yellow bullhead	0
1990	3	Summer	127	Channel catfish	0
1990	3	Summer	130	Naked goby	0
1990	3	Summer	132	Windowpane	217
1990	3	Summer	133	Spotted hake	0
1990	3	Summer	136	Northern stargazer	6

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	3	Summer	137	American sand lance	0
1990	3	Summer	139	Fourspot flounder	0
1990	3	Summer	140	Atlantic mackerel	0
1990	3	Summer	141	Black sea bass	0
1990	3	Summer	142	Smallmouth flounder	0
1990	3	Summer	143	Rock gunnel	0
1990	3	Summer	144	Inshore lizardfish	0
1990	3	Summer	146	Silver lamprey	0
1990	3	Summer	150	Goby family	53
1990	3	Summer	157	New World silverside family	0
1990	3	Summer	159	Sand flounder family	0
1990	3	Summer	161	Pipefish family	0
1990	3	Summer	162	Mackerel scad	0
1990	3	Summer	164	Cunner	0
1990	3	Summer	169	Gray snapper	0
1990	3	Summer	172	Bigeye scad	0
1990	3	Summer	173	Striped burrfish	0
1990	3	Summer	177	Spotfin butterflyfish	0
1990	3	Summer	179	Planehead filefish	0
1990	3	Summer	180	Atlantic cutlassfish	0
1990	3	Summer	181	Pigfish	0
1990	3	Summer	184	Freckled blenny	0
1990	3	Summer	187	Margined madtom	0
1990	3	Summer	205	Freshwater drum	0
1990	3	Summer	206	King mackerel	0
1990	3	Summer	209	Highfin goby	0
1990	3	Summer	213	Oyster toadfish	0
1990	3	Summer	754	Blue crab	26,792
1990	3	Summer	999	All fish taxa	49,575.00
1990	3	Fall	1	Alewife	
1990	3	Fall	2	Bay anchovy	
1990	3	Fall	3	American shad	
1990	3	Fall	4	Bluefish	
1990	3	Fall	5	Bluegill	
1990	3	Fall	6	Brown bullhead	
1990	3	Fall	7	Pumpkinseed	
1990	3	Fall	8	Black crappie	
1990	3	Fall	9	Common carp	
1990	3	Fall	10	American eel	
1990	3	Fall	11	Goldfish	
1990	3	Fall	12	Golden shiner	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	3	Fall	13	Hogchoker	
1990	3	Fall	14	Tessellated darter	
1990	3	Fall	15	Banded killifish	
1990	3	Fall	16	Emerald shiner	
1990	3	Fall	17	Largemouth bass	
1990	3	Fall	18	Mummichog	
1990	3	Fall	19	Atlantic menhaden	
1990	3	Fall	21	Chain pickerel	
1990	3	Fall	22	Blueback herring	
1990	3	Fall	23	White sucker	
1990	3	Fall	24	Atlantic silverside	
1990	3	Fall	25	Rainbow smelt	
1990	3	Fall	26	Smallmouth bass	
1990	3	Fall	27	Shortnose sturgeon	
1990	3	Fall	28	Spottail shiner	
1990	3	Fall	29	Atlantic sturgeon	
1990	3	Fall	30	Striped bass	
1990	3	Fall	31	Fourspine stickleback	
1990	3	Fall	32	Atlantic tomcod	
1990	3	Fall	34	White catfish	
1990	3	Fall	35	White perch	
1990	3	Fall	36	Yellow perch	
1990	3	Fall	37	Satinfin shiner	
1990	3	Fall	38	Rock bass	
1990	3	Fall	39	Northern pipefish	
1990	3	Fall	40	Redbreast sunfish	
1990	3	Fall	41	Atlantic needlefish	
1990	3	Fall	42	Crevalle jack	
1990	3	Fall	45	Weakfish	
1990	3	Fall	47	Common shiner	
1990	3	Fall	49	Lookdown	
1990	3	Fall	50	Herring family	
1990	3	Fall	54	Lined seahorse	
1990	3	Fall	55	Logperch	
1990	3	Fall	58	Fathead minnow	
1990	3	Fall	59	Carp and minnow family	
1990	3	Fall	60	Morone species	
1990	3	Fall	62	Tautog	
1990	3	Fall	63	Fourbeard rockling	
1990	3	Fall	64	Striped cusk-eel	
1990	3	Fall	67	Spot	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	3	Fall	68	Atlantic moonfish	
1990	3	Fall	71	Scup	
1990	3	Fall	72	Winter flounder	
1990	3	Fall	73	Inland silverside	
1990	3	Fall	74	Sea lamprey	
1990	3	Fall	75	Gizzard shad	
1990	3	Fall	76	Silver hake	
1990	3	Fall	77	Striped mullet	
1990	3	Fall	78	Threespine stickleback	
1990	3	Fall	79	Brown trout	
1990	3	Fall	80	Butterfish	
1990	3	Fall	81	White crappie	
1990	3	Fall	83	Northern pike	
1990	3	Fall	84	Green sunfish	
1990	3	Fall	85	Silver perch	
1990	3	Fall	86	Northern puffer	
1990	3	Fall	96	Sunfish family	
1990	3	Fall	98	Red hake	
1990	3	Fall	100	Central mudminnow	
1990	3	Fall	101	Grubby	
1990	3	Fall	102	Eastern mudminnow	
1990	3	Fall	103	White bass	
1990	3	Fall	104	Rough silverside	
1990	3	Fall	105	Longear sunfish	
1990	3	Fall	106	Summer flounder	
1990	3	Fall	108	Creek chub	
1990	3	Fall	109	Black bullhead	
1990	3	Fall	110	Striped searobin	
1990	3	Fall	111	Northern searobin	
1990	3	Fall	113	Atlantic croaker	
1990	3	Fall	114	Longhorn sculpin	
1990	3	Fall	116	Hickory shad	
1990	3	Fall	120	Conger eel	
1990	3	Fall	122	Warmouth	
1990	3	Fall	125	White mullet	
1990	3	Fall	126	Yellow bullhead	
1990	3	Fall	127	Channel catfish	
1990	3	Fall	130	Naked goby	
1990	3	Fall	132	Windowpane	
1990	3	Fall	133	Spotted hake	
1990	3	Fall	136	Northern stargazer	

1981-1990 Indian Point Impingement Estimates by Year, Unit, and Stratum

Year	Unit	Strata	Taxon	Common_Name	EstComb
1990	3	Fall	137	American sand lance	
1990	3	Fall	139	Fourspot flounder	
1990	3	Fall	140	Atlantic mackerel	
1990	3	Fall	141	Black sea bass	
1990	3	Fall	142	Smallmouth flounder	
1990	3	Fall	143	Rock gunnel	
1990	3	Fall	144	Inshore lizardfish	
1990	3	Fall	146	Silver lamprey	
1990	3	Fall	150	Goby family	
1990	3	Fall	157	New World silverside family	
1990	3	Fall	159	Sand flounder family	
1990	3	Fall	161	Pipefish family	
1990	3	Fall	162	Mackerel scad	
1990	3	Fall	164	Cunner	
1990	3	Fall	169	Gray snapper	
1990	3	Fall	172	Bigeye scad	
1990	3	Fall	173	Striped burrfish	
1990	3	Fall	177	Spotfin butterflyfish	
1990	3	Fall	179	Planehead filefish	
1990	3	Fall	180	Atlantic cutlassfish	
1990	3	Fall	181	Pigfish	
1990	3	Fall	184	Freckled blenny	
1990	3	Fall	187	Margined madtom	
1990	3	Fall	205	Freshwater drum	
1990	3	Fall	206	King mackerel	
1990	3	Fall	209	Highfin goby	
1990	3	Fall	213	Oyster toadfish	
1990	3	Fall	754	Blue crab	
1990	3	Fall	999	All fish taxa	

Annual 1981-1990 Indian Point Impingement Estimates
by Year and Unit

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1981	2	Annual	1	Alewife	53,364	53,365	23,419	43.9
1981	2	Annual	2	Bay anchovy	1,218,744	1,218,744	472,818	38.8
1981	2	Annual	3	American shad	207,599	207,598	48,678	23.4
1981	2	Annual	4	Bluefish	9,914	9,914	1,904	19.2
1981	2	Annual	5	Bluegill	147	148	13	8.8
1981	2	Annual	6	Brown bullhead	609	609	275	45.2
1981	2	Annual	7	Pumpkinseed	10,459	10,459	968	9.3
1981	2	Annual	8	Black crappie	11	10	0	0
1981	2	Annual	9	Common carp	4	4	0	0
1981	2	Annual	10	American eel	1,957	1,957	158	8.1
1981	2	Annual	11	Goldfish	292	291	4	1.5
1981	2	Annual	12	Golden shiner	72	72	2	3.2
1981	2	Annual	13	Hogchoker	23,322	23,322	1,392	6
1981	2	Annual	14	Tessellated darter	192	192	16	8.5
1981	2	Annual	15	Banded killifish	757	757	62	8.1
1981	2	Annual	16	Emerald shiner	0			
1981	2	Annual	17	Largemouth bass	40	40	3	8.6
1981	2	Annual	18	Mummichog	23	22	4	15.9
1981	2	Annual	19	Atlantic menhaden	3,185	3,185	2,342	73.5
1981	2	Annual	21	Chain pickerel	0			
1981	2	Annual	22	Blueback herring	233,232	233,232	34,267	14.7
1981	2	Annual	23	White sucker	11	11	0	0
1981	2	Annual	24	Atlantic silverside	21	21	4	19.4
1981	2	Annual	25	Rainbow smelt	668	668	55	8.3
1981	2	Annual	26	Smallmouth bass	3	3	2	54.6
1981	2	Annual	27	Shortnose sturgeon	0.00			
1981	2	Annual	28	Spottail shiner	1,047	1,047	54	5.2
1981	2	Annual	29	Atlantic sturgeon	8.01			
1981	2	Annual	30	Striped bass	55,254	55,255	7,761	14
1981	2	Annual	31	Fourspine stickleback	34	34	2	6.7
1981	2	Annual	32	Atlantic tomcod	350,607	350,606	45,411	13
1981	2	Annual	34	White catfish	934	935	86	9.2
1981	2	Annual	35	White perch	1,327,336	1,327,335	84,899	6.4
1981	2	Annual	36	Yellow perch	597	597	20	3.3
1981	2	Annual	37	Satinfin shiner	19	19	9	48.3
1981	2	Annual	38	Rock bass	4	4	0	0
1981	2	Annual	39	Northern pipefish	1,390	1,390	260	18.7
1981	2	Annual	40	Redbreast sunfish	27	27	3	12.2
1981	2	Annual	41	Atlantic needlefish	24	24	22	92.6
1981	2	Annual	42	Crevalle jack	369	368	61	16.5

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1981	2	Annual	45	Weakfish	50,038	50,037	21,860	43.7
1981	2	Annual	47	Common shiner	0			
1981	2	Annual	49	Lookdown	20	20	19	92.6
1981	2	Annual	50	Herring family	15,314	15,313	13,182	86.1
1981	2	Annual	54	Lined seahorse	4	4	2	54.6
1981	2	Annual	55	Logperch	0			
1981	2	Annual	58	Fathead minnow	2	2	0	0
1981	2	Annual	59	Carp and minnow family	0			
1981	2	Annual	60	Morone species	0			
1981	2	Annual	62	Tautog	10	10	2	15.2
1981	2	Annual	63	Fourbeard rockling	0			
1981	2	Annual	64	Striped cusk-eel	0			
1981	2	Annual	67	Spot	3	3	2	54.6
1981	2	Annual	68	Atlantic moonfish	0			
1981	2	Annual	71	Scup	0			
1981	2	Annual	72	Winter flounder	70	69	29	42
1981	2	Annual	73	Inland silverside	10	10	3	31
1981	2	Annual	74	Sea lamprey	9	8	0	0
1981	2	Annual	75	Gizzard shad	650	650	78	12
1981	2	Annual	76	Silver hake	5	5	0	0
1981	2	Annual	77	Striped mullet	0			
1981	2	Annual	78	Threespine stickleback	54	54	3	6.2
1981	2	Annual	79	Brown trout	0			
1981	2	Annual	80	Butterfish	0			
1981	2	Annual	81	White crappie	8	8	0	0
1981	2	Annual	83	Northern pike	0			
1981	2	Annual	84	Green sunfish	0			
1981	2	Annual	85	Silver perch	0			
1981	2	Annual	86	Northern puffer	4	4	2	54.6
1981	2	Annual	96	Sunfish family	92	92	10	11.1
1981	2	Annual	98	Red hake	11	11	3	24.3
1981	2	Annual	100	Central mudminnow	0			
1981	2	Annual	101	Grubby	0			
1981	2	Annual	102	Eastern mudminnow	0			
1981	2	Annual	103	White bass	0			
1981	2	Annual	104	Rough silverside	0			
1981	2	Annual	105	Longear sunfish	0			
1981	2	Annual	106	Summer flounder	38	38	19	50.2
1981	2	Annual	108	Creek chub	0			
1981	2	Annual	109	Black bullhead	18	18	7	37.3

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1981	2	Annual	110	Striped searobin	4,449	4,449	954	21.4
1981	2	Annual	111	Northern searobin	0			
1981	2	Annual	113	Atlantic croaker	0			
1981	2	Annual	114	Longhorn sculpin	0			
1981	2	Annual	116	Hickory shad	0			
1981	2	Annual	120	Conger eel	0			
1981	2	Annual	122	Warmouth	0			
1981	2	Annual	125	White mullet	0			
1981	2	Annual	126	Yellow bullhead	0			
1981	2	Annual	127	Channel catfish	0			
1981	2	Annual	130	Naked goby	0			
1981	2	Annual	132	Windowpane	0			
1981	2	Annual	133	Spotted hake	3	3	0	0
1981	2	Annual	136	Northern stargazer	0			
1981	2	Annual	137	American sand lance	2	2	0	0
1981	2	Annual	139	Fourspot flounder	0			
1981	2	Annual	140	Atlantic mackerel	2	2	0	0
1981	2	Annual	141	Black sea bass	4	4	2	54.6
1981	2	Annual	142	Smallmouth flounder	5	5	0	0
1981	2	Annual	143	Rock gunnel	0			
1981	2	Annual	144	Inshore lizardfish	0			
1981	2	Annual	146	Silver lamprey	0			
1981	2	Annual	150	Goby family	0			
1981	2	Annual	157	New World silverside family	0			
1981	2	Annual	159	Sand flounder family	0			
1981	2	Annual	161	Pipefish family	0			
1981	2	Annual	162	Mackerel scad	0			
1981	2	Annual	164	Cunner	3	3	2	54.6
1981	2	Annual	169	Gray snapper	0			
1981	2	Annual	172	Bigeye scad	0			
1981	2	Annual	173	Striped burrfish	0			
1981	2	Annual	177	Spotfin butterflyfish	0			
1981	2	Annual	179	Planehead filefish	0			
1981	2	Annual	180	Atlantic cutlassfish	0			
1981	2	Annual	181	Pigfish	0			
1981	2	Annual	184	Freckled blenny	0			
1981	2	Annual	187	Margined madtom	0			
1981	2	Annual	205	Freshwater drum	0			
1981	2	Annual	206	King mackerel	0			
1981	2	Annual	209	Highfin goby	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1981	2	Annual	213	Oyster toadfish	0			
1981	2	Annual	999	All fish taxa	3,573,100.01	3,573,103	568,282	15.9
1981	3	Annual	1	Alewife	8,814	8,814	1,807	20.5
1981	3	Annual	2	Bay anchovy	113,878	113,878	17,220	15.1
1981	3	Annual	3	American shad	21,709	21,709	3,725	17.2
1981	3	Annual	4	Bluefish	8,042	8,041	1,483	18.4
1981	3	Annual	5	Bluegill	295	295	16	5.3
1981	3	Annual	6	Brown bullhead	243	243	29	12.1
1981	3	Annual	7	Pumpkinseed	5,440	5,438	830	15.3
1981	3	Annual	8	Black crappie	45	45	2	3.8
1981	3	Annual	9	Common carp	33	34	2	6.8
1981	3	Annual	10	American eel	1,645	1,646	59	3.6
1981	3	Annual	11	Goldfish	270	271	2	0.9
1981	3	Annual	12	Golden shiner	39	39	2	6.1
1981	3	Annual	13	Hogchoker	22,625	22,625	3,424	15.1
1981	3	Annual	14	Tessellated darter	86	87	9	10.2
1981	3	Annual	15	Banded killifish	495	494	55	11.1
1981	3	Annual	16	Emerald shiner	2	2	0	0
1981	3	Annual	17	Largemouth bass	63	63	3	4.5
1981	3	Annual	18	Mummichog	22	22	3	12.9
1981	3	Annual	19	Atlantic menhaden	1,910	1,910	295	15.4
1981	3	Annual	21	Chain pickerel	1	1	0	0
1981	3	Annual	22	Blueback herring	15,276	15,276	2,814	18.4
1981	3	Annual	23	White sucker	18	18	0	0
1981	3	Annual	24	Atlantic silverside	18	18	3	15.7
1981	3	Annual	25	Rainbow smelt	927	927	13	1.4
1981	3	Annual	26	Smallmouth bass	1	1	0	0
1981	3	Annual	27	Shortnose sturgeon	0.00			
1981	3	Annual	28	Spottail shiner	497	497	31	6.2
1981	3	Annual	29	Atlantic sturgeon	7.46			
1981	3	Annual	30	Striped bass	25,940	25,939	2,262	8.7
1981	3	Annual	31	Fourspine stickleback	21	21	2	8
1981	3	Annual	32	Atlantic tomcod	75,893	75,892	10,056	13.3
1981	3	Annual	34	White catfish	934	935	63	6.8
1981	3	Annual	35	White perch	673,225	673,225	59,030	8.8
1981	3	Annual	36	Yellow perch	304	303	34	11.2
1981	3	Annual	37	Satinfin shiner	0			
1981	3	Annual	38	Rock bass	1	1	0	0
1981	3	Annual	39	Northern pipefish	326	326	25	7.5
1981	3	Annual	40	Redbreast sunfish	76	75	18	24.3

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1981	3	Annual	41	Atlantic needlefish	2	2	0	0
1981	3	Annual	42	Crevalle jack	28	28	18	65.7
1981	3	Annual	45	Weakfish	11,690	11,691	3,022	25.8
1981	3	Annual	47	Common shiner	0			
1981	3	Annual	49	Lookdown	0			
1981	3	Annual	50	Herring family	1,394	1,393	813	58.3
1981	3	Annual	54	Lined seahorse	5	5	0	0
1981	3	Annual	55	Logperch	0			
1981	3	Annual	58	Fathead minnow	2	2	0	0
1981	3	Annual	59	Carp and minnow family	13	13	8	65
1981	3	Annual	60	Morone species	0			
1981	3	Annual	62	Tautog	3	3	0	0
1981	3	Annual	63	Fourbeard rockling	3	3	0	0
1981	3	Annual	64	Striped cusk-eel	0			
1981	3	Annual	67	Spot	0			
1981	3	Annual	68	Atlantic moonfish	0			
1981	3	Annual	71	Scup	0			
1981	3	Annual	72	Winter flounder	9	9	2	19.6
1981	3	Annual	73	Inland silverside	1	1	0	0
1981	3	Annual	74	Sea lamprey	0			
1981	3	Annual	75	Gizzard shad	2,463	2,463	86	3.5
1981	3	Annual	76	Silver hake	7	7	0	0
1981	3	Annual	77	Striped mullet	0			
1981	3	Annual	78	Threespine stickleback	60	60	2	2.8
1981	3	Annual	79	Brown trout	0			
1981	3	Annual	80	Butterfish	80	80	33	41.6
1981	3	Annual	81	White crappie	9	9	0	0
1981	3	Annual	83	Northern pike	0			
1981	3	Annual	84	Green sunfish	0			
1981	3	Annual	85	Silver perch	0			
1981	3	Annual	86	Northern puffer	7	7	6	83.8
1981	3	Annual	96	Sunfish family	57	57	0	0
1981	3	Annual	98	Red hake	35	34	5	15.3
1981	3	Annual	100	Central mudminnow	0			
1981	3	Annual	101	Grubby	14	14	0	0
1981	3	Annual	102	Eastern mudminnow	0			
1981	3	Annual	103	White bass	0			
1981	3	Annual	104	Rough silverside	20	20	9	46.3
1981	3	Annual	105	Longear sunfish	0			
1981	3	Annual	106	Summer flounder	72	72	18	25

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1981	3	Annual	108	Creek chub	0			
1981	3	Annual	109	Black bullhead	15	15	7	46.8
1981	3	Annual	110	Striped searobin	5	4	2	110.6
1981	3	Annual	111	Northern searobin	13	13	11	83.8
1981	3	Annual	113	Atlantic croaker	0			
1981	3	Annual	114	Longhorn sculpin	3	3	2	65
1981	3	Annual	116	Hickory shad	0			
1981	3	Annual	120	Conger eel	0			
1981	3	Annual	122	Warmouth	0			
1981	3	Annual	125	White mullet	0			
1981	3	Annual	126	Yellow bullhead	0			
1981	3	Annual	127	Channel catfish	0			
1981	3	Annual	130	Naked goby	0			
1981	3	Annual	132	Windowpane	15	15	6	37.3
1981	3	Annual	133	Spotted hake	0			
1981	3	Annual	136	Northern stargazer	0			
1981	3	Annual	137	American sand lance	0			
1981	3	Annual	139	Fourspot flounder	0			
1981	3	Annual	140	Atlantic mackerel	0			
1981	3	Annual	141	Black sea bass	0			
1981	3	Annual	142	Smallmouth flounder	7	7	0	0
1981	3	Annual	143	Rock gunnel	0			
1981	3	Annual	144	Inshore lizardfish	0			
1981	3	Annual	146	Silver lamprey	0			
1981	3	Annual	150	Goby family	0			
1981	3	Annual	157	New World silverside family	0			
1981	3	Annual	159	Sand flounder family	0			
1981	3	Annual	161	Pipefish family	0			
1981	3	Annual	162	Mackerel scad	0			
1981	3	Annual	164	Cunner	0			
1981	3	Annual	169	Gray snapper	0			
1981	3	Annual	172	Bigeye scad	7	7	6	83.8
1981	3	Annual	173	Striped burrfish	7	7	6	83.8
1981	3	Annual	177	Spotfin butterflyfish	0			
1981	3	Annual	179	Planehead filefish	0			
1981	3	Annual	180	Atlantic cutlassfish	0			
1981	3	Annual	181	Pigfish	0			
1981	3	Annual	184	Freckled blenny	0			
1981	3	Annual	187	Margined madtom	0			
1981	3	Annual	205	Freshwater drum	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1981	3	Annual	206	King mackerel	0			
1981	3	Annual	209	Highfin goby	0			
1981	3	Annual	213	Oyster toadfish	0			
1981	3	Annual	999	All fish taxa	995,161.46	995,163	69,657	7
1982	2	Annual	1	Alewife	2,223	2,223	1,375	61.9
1982	2	Annual	2	Bay anchovy	113,550	113,550	31,898	28.1
1982	2	Annual	3	American shad	1,492	1,492	507	34
1982	2	Annual	4	Bluefish	1,453	1,453	585	40.2
1982	2	Annual	5	Bluegill	157	158	103	65.1
1982	2	Annual	6	Brown bullhead	56	56	28	49.2
1982	2	Annual	7	Pumpkinseed	1,370	1,370	215	15.7
1982	2	Annual	8	Black crappie	6	6	5	81.6
1982	2	Annual	9	Common carp	0			
1982	2	Annual	10	American eel	1,142	1,143	176	15.4
1982	2	Annual	11	Goldfish	34	34	22	64.5
1982	2	Annual	12	Golden shiner	12	12	7	56.8
1982	2	Annual	13	Hogchoker	56,240	56,240	21,838	38.8
1982	2	Annual	14	Tessellated darter	229	229	81	35.3
1982	2	Annual	15	Banded killifish	523	522	127	24.4
1982	2	Annual	16	Emerald shiner	0			
1982	2	Annual	17	Largemouth bass	6	6	5	81.6
1982	2	Annual	18	Mummichog	24	24	20	81.6
1982	2	Annual	19	Atlantic menhaden	88	88	40	45
1982	2	Annual	21	Chain pickerel	0			
1982	2	Annual	22	Blueback herring	1,082	1,081	364	33.7
1982	2	Annual	23	White sucker	0			
1982	2	Annual	24	Atlantic silverside	0			
1982	2	Annual	25	Rainbow smelt	1,212	1,212	554	45.7
1982	2	Annual	26	Smallmouth bass	24	24	12	48.7
1982	2	Annual	27	Shortnose sturgeon	0.00			
1982	2	Annual	28	Spottail shiner	697	697	134	19.2
1982	2	Annual	29	Atlantic sturgeon	2.39			
1982	2	Annual	30	Striped bass	8,258	8,258	1,047	12.7
1982	2	Annual	31	Fourspine stickleback	70	70	34	48.3
1982	2	Annual	32	Atlantic tomcod	118,015	118,015	49,881	42.3
1982	2	Annual	34	White catfish	549	549	134	24.4
1982	2	Annual	35	White perch	577,871	577,872	61,161	10.6
1982	2	Annual	36	Yellow perch	315	316	76	24.2
1982	2	Annual	37	Satinfin shiner	0			
1982	2	Annual	38	Rock bass	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1982	2	Annual	39	Northern pipefish	368	368	270	73.5
1982	2	Annual	40	Redbreast sunfish	0			
1982	2	Annual	41	Atlantic needlefish	0			
1982	2	Annual	42	Crevalle jack	0			
1982	2	Annual	45	Weakfish	17,413	17,413	8,885	51
1982	2	Annual	47	Common shiner	0			
1982	2	Annual	49	Lookdown	0			
1982	2	Annual	50	Herring family	189	189	177	93.8
1982	2	Annual	50	Herring family	52	52	49	93.8
1982	2	Annual	54	Lined seahorse	0			
1982	2	Annual	55	Loggerhead	0			
1982	2	Annual	58	Fathead minnow	0			
1982	2	Annual	59	Carp and minnow family	0			
1982	2	Annual	60	Morone species	600	600	442	73.6
1982	2	Annual	62	Tautog	0			
1982	2	Annual	63	Fourbeard rockling	0			
1982	2	Annual	64	Striped cusk-eel	24	24	22	911.3
1982	2	Annual	67	Spot	0			
1982	2	Annual	68	Atlantic moonfish	0			
1982	2	Annual	71	Scup	0			
1982	2	Annual	72	Winter flounder	0			
1982	2	Annual	73	Inland silverside	0			
1982	2	Annual	74	Sea lamprey	12	12	7	56.7
1982	2	Annual	75	Gizzard shad	335	335	82	24.6
1982	2	Annual	76	Silver hake	0			
1982	2	Annual	77	Striped mullet	0			
1982	2	Annual	78	Threespine stickleback	79	79	22	28
1982	2	Annual	79	Brown trout	0			
1982	2	Annual	80	Butterfish	56	56	35	63.1
1982	2	Annual	81	White crappie	0			
1982	2	Annual	83	Northern pike	0			
1982	2	Annual	84	Green sunfish	0			
1982	2	Annual	85	Silver perch	0			
1982	2	Annual	86	Northern puffer	0			
1982	2	Annual	96	Sunfish family	784	784	233	29.7
1982	2	Annual	98	Red hake	0			
1982	2	Annual	100	Central mudminnow	0			
1982	2	Annual	101	Grubby	0			
1982	2	Annual	102	Eastern mudminnow	0			
1982	2	Annual	103	White bass	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1982	2	Annual	104	Rough silverside	0			
1982	2	Annual	105	Longear sunfish	0			
1982	2	Annual	106	Summer flounder	90	90	55	60.7
1982	2	Annual	108	Creek chub	0			
1982	2	Annual	109	Black bullhead	0			
1982	2	Annual	110	Striped searobin	0			
1982	2	Annual	111	Northern searobin	0			
1982	2	Annual	113	Atlantic croaker	0			
1982	2	Annual	114	Longhorn sculpin	0			
1982	2	Annual	116	Hickory shad	0			
1982	2	Annual	120	Conger eel	0			
1982	2	Annual	122	Warmouth	0			
1982	2	Annual	125	White mullet	0			
1982	2	Annual	126	Yellow bullhead	0			
1982	2	Annual	127	Channel catfish	0			
1982	2	Annual	130	Naked goby	0			
1982	2	Annual	132	Windowpane	0			
1982	2	Annual	133	Spotted hake	0			
1982	2	Annual	136	Northern stargazer	0			
1982	2	Annual	137	American sand lance	0			
1982	2	Annual	139	Fourspot flounder	8	8	6	78.3
1982	2	Annual	140	Atlantic mackerel	0			
1982	2	Annual	141	Black sea bass	0			
1982	2	Annual	142	Smallmouth flounder	0			
1982	2	Annual	143	Rock gunnel	0			
1982	2	Annual	144	Inshore lizardfish	0			
1982	2	Annual	146	Silver lamprey	0			
1982	2	Annual	150	Goby family	0			
1982	2	Annual	157	New World silverside family	0			
1982	2	Annual	159	Sand flounder family	0			
1982	2	Annual	161	Pipefish family	0			
1982	2	Annual	162	Mackerel scad	0			
1982	2	Annual	164	Cunner	0			
1982	2	Annual	169	Gray snapper	0			
1982	2	Annual	172	Bigeye scad	0			
1982	2	Annual	173	Striped burrfish	0			
1982	2	Annual	177	Spotfin butterflyfish	0			
1982	2	Annual	179	Planehead filefish	0			
1982	2	Annual	180	Atlantic cutlassfish	0			
1982	2	Annual	181	Pigfish	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1982	2	Annual	184	Freckled blenny	0			
1982	2	Annual	187	Margined madtom	0			
1982	2	Annual	205	Freshwater drum	0			
1982	2	Annual	206	King mackerel	0			
1982	2	Annual	209	Highfin goby	0			
1982	2	Annual	213	Oyster toadfish	0			
1982	2	Annual	999	All fish taxa	906,708.39	906,729	92,974	10.3
1982	3	Annual	1	Alewife	0			
1982	3	Annual	2	Bay anchovy	72	72	49	67.5
1982	3	Annual	3	American shad	5	5	4	83.7
1982	3	Annual	4	Bluefish	0			
1982	3	Annual	5	Bluegill	85	85	32	37.4
1982	3	Annual	6	Brown bullhead	48	48	15	32.3
1982	3	Annual	7	Pumpkinseed	1,551	1,551	254	16.4
1982	3	Annual	8	Black crappie	9	9	8	83.7
1982	3	Annual	9	Common carp	5	5	4	83.7
1982	3	Annual	10	American eel	220	220	43	19.5
1982	3	Annual	11	Goldfish	29	29	9	30.7
1982	3	Annual	12	Golden shiner	34	34	9	27.7
1982	3	Annual	13	Hogchoker	449	449	132	29.5
1982	3	Annual	14	Tessellated darter	15	15	7	46.4
1982	3	Annual	15	Banded killifish	187	187	35	18.7
1982	3	Annual	16	Emerald shiner	0			
1982	3	Annual	17	Largemouth bass	29	29	9	30.7
1982	3	Annual	18	Mummichog	5	5	4	83.7
1982	3	Annual	19	Atlantic menhaden	0			
1982	3	Annual	21	Chain pickerel	0			
1982	3	Annual	22	Blueback herring	111	111	44	39.5
1982	3	Annual	23	White sucker	0			
1982	3	Annual	24	Atlantic silverside	5	5	4	83.7
1982	3	Annual	25	Rainbow smelt	68	68	16	23.3
1982	3	Annual	26	Smallmouth bass	33	33	17	50.4
1982	3	Annual	27	Shortnose sturgeon	0.00			
1982	3	Annual	28	Spottail shiner	361	361	57	15.8
1982	3	Annual	29	Atlantic sturgeon	1.41			
1982	3	Annual	30	Striped bass	49,365	49,365	31,413	63.6
1982	3	Annual	31	Fourspine stickleback	0			
1982	3	Annual	32	Atlantic tomcod	977	976	230	23.6
1982	3	Annual	34	White catfish	292	292	74	25.3
1982	3	Annual	35	White perch	639,490	639,491	98,048	15.3

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1982	3	Annual	36	Yellow perch	230	230	47	20.4
1982	3	Annual	37	Satinfin shiner	0			
1982	3	Annual	38	Rock bass	0			
1982	3	Annual	39	Northern pipefish	0			
1982	3	Annual	40	Redbreast sunfish	0			
1982	3	Annual	41	Atlantic needlefish	0			
1982	3	Annual	42	Crevalle jack	0			
1982	3	Annual	45	Weakfish	0			
1982	3	Annual	47	Common shiner	0			
1982	3	Annual	49	Lookdown	0			
1982	3	Annual	50	Herring family	0			
1982	3	Annual	54	Lined seahorse	0			
1982	3	Annual	55	Logperch	0			
1982	3	Annual	58	Fathead minnow	0			
1982	3	Annual	59	Carp and minnow family	0			
1982	3	Annual	60	Morone species	0			
1982	3	Annual	62	Tautog	0			
1982	3	Annual	63	Fourbeard rockling	0			
1982	3	Annual	64	Striped cusk-eel	0			
1982	3	Annual	67	Spot	0			
1982	3	Annual	68	Atlantic moonfish	0			
1982	3	Annual	71	Scup	0			
1982	3	Annual	72	Winter flounder	29	29	12	41.9
1982	3	Annual	73	Inland silverside	0			
1982	3	Annual	74	Sea lamprey	5	5	4	83.7
1982	3	Annual	75	Gizzard shad	1,961	1,961	568	29
1982	3	Annual	76	Silver hake	0			
1982	3	Annual	77	Striped mullet	0			
1982	3	Annual	78	Threespine stickleback	150	150	39	25.8
1982	3	Annual	79	Brown trout	0			
1982	3	Annual	80	Butterfish	0			
1982	3	Annual	81	White crappie	0			
1982	3	Annual	83	Northern pike	0			
1982	3	Annual	84	Green sunfish	0			
1982	3	Annual	85	Silver perch	0			
1982	3	Annual	86	Northern puffer	0			
1982	3	Annual	96	Sunfish family	310	310	66	21.2
1982	3	Annual	98	Red hake	10	10	6	58
1982	3	Annual	100	Central mudminnow	0			
1982	3	Annual	101	Grubby	5	5	4	83.7

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1982	3	Annual	102	Eastern mudminnow	0			
1982	3	Annual	103	White bass	0			
1982	3	Annual	104	Rough silverside	0			
1982	3	Annual	105	Longear sunfish	0			
1982	3	Annual	106	Summer flounder	5	5	4	83.7
1982	3	Annual	108	Creek chub	0			
1982	3	Annual	109	Black bullhead	10	10	6	58
1982	3	Annual	110	Striped searobin	0			
1982	3	Annual	111	Northern searobin	0			
1982	3	Annual	113	Atlantic croaker	0			
1982	3	Annual	114	Longhorn sculpin	0			
1982	3	Annual	116	Hickory shad	0			
1982	3	Annual	120	Conger eel	0			
1982	3	Annual	122	Warmouth	0			
1982	3	Annual	125	White mullet	0			
1982	3	Annual	126	Yellow bullhead	0			
1982	3	Annual	127	Channel catfish	0			
1982	3	Annual	130	Naked goby	0			
1982	3	Annual	132	Windowpane	0			
1982	3	Annual	133	Spotted hake	0			
1982	3	Annual	136	Northern stargazer	0			
1982	3	Annual	137	American sand lance	0			
1982	3	Annual	139	Fourspot flounder	0			
1982	3	Annual	140	Atlantic mackerel	0			
1982	3	Annual	141	Black sea bass	0			
1982	3	Annual	142	Smallmouth flounder	0			
1982	3	Annual	143	Rock gunnel	0			
1982	3	Annual	144	Inshore lizardfish	0			
1982	3	Annual	146	Silver lamprey	0			
1982	3	Annual	150	Goby family	0			
1982	3	Annual	157	New World silverside family	0			
1982	3	Annual	159	Sand flounder family	0			
1982	3	Annual	161	Pipefish family	0			
1982	3	Annual	162	Mackerel scad	0			
1982	3	Annual	164	Cunner	0			
1982	3	Annual	169	Gray snapper	0			
1982	3	Annual	172	Bigeye scad	0			
1982	3	Annual	173	Striped burrfish	0			
1982	3	Annual	177	Spotfin butterflyfish	0			
1982	3	Annual	179	Planehead filefish	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1982	3	Annual	180	Atlantic cutlassfish	0			
1982	3	Annual	181	Pigfish	0			
1982	3	Annual	184	Freckled blenny	0			
1982	3	Annual	187	Margined madtom	0			
1982	3	Annual	205	Freshwater drum	0			
1982	3	Annual	206	King mackerel	0			
1982	3	Annual	209	Highfin goby	0			
1982	3	Annual	213	Oyster toadfish	0			
1982	3	Annual	999	All fish taxa	696,157.41	696,161	98,486	14.1
1983	2	Annual	1	Alewife	4,549	4,549	2,243	49.3
1983	2	Annual	2	Bay anchovy	128,627	128,626	54,742	42.6
1983	2	Annual	3	American shad	8,504	8,504	3,629	42.7
1983	2	Annual	4	Bluefish	7,269	7,269	3,054	42
1983	2	Annual	5	Bluegill	285	285	43	15.2
1983	2	Annual	6	Brown bullhead	528	528	378	71.5
1983	2	Annual	7	Pumpkinseed	590	591	94	15.9
1983	2	Annual	8	Black crappie	10	10	2	20.6
1983	2	Annual	9	Common carp	25	25	22	85.5
1983	2	Annual	10	American eel	1,179	1,180	163	13.8
1983	2	Annual	11	Goldfish	3	3	1	42.2
1983	2	Annual	12	Golden shiner	17	17	3	18.9
1983	2	Annual	13	Hogchoker	22,176	22,176	13,061	58.9
1983	2	Annual	14	Tessellated darter	346	347	116	33.5
1983	2	Annual	15	Banded killifish	259	259	59	22.7
1983	2	Annual	16	Emerald shiner	0			
1983	2	Annual	17	Largemouth bass	34	34	6	17.2
1983	2	Annual	18	Mummichog	27	28	24	85.5
1983	2	Annual	19	Atlantic menhaden	136	136	67	49.4
1983	2	Annual	21	Chain pickerel	0			
1983	2	Annual	22	Blueback herring	46,854	46,854	26,865	57.3
1983	2	Annual	23	White sucker	0			
1983	2	Annual	24	Atlantic silverside	0			
1983	2	Annual	25	Rainbow smelt	2,195	2,196	693	31.6
1983	2	Annual	26	Smallmouth bass	0			
1983	2	Annual	27	Shortnose sturgeon	0.00			
1983	2	Annual	28	Spottail shiner	1,096	1,096	98	8.9
1983	2	Annual	29	Atlantic sturgeon	6.11			
1983	2	Annual	30	Striped bass	19,023	19,023	3,477	18.3
1983	2	Annual	31	Fourspine stickleback	36	36	23	63.9
1983	2	Annual	32	Atlantic tomcod	117,234	117,234	43,413	37

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1983	2	Annual	34	White catfish	1,693	1,692	187	11
1983	2	Annual	35	White perch	274,898	274,899	27,303	9.9
1983	2	Annual	36	Yellow perch	104	104	25	23.7
1983	2	Annual	37	Satinfin shiner	0			
1983	2	Annual	38	Rock bass	0			
1983	2	Annual	39	Northern pipefish	2,812	2,812	431	15.3
1983	2	Annual	40	Redbreast sunfish	29	29	27	93.8
1983	2	Annual	41	Atlantic needlefish	0			
1983	2	Annual	42	Crevalle jack	35	35	5	14
1983	2	Annual	45	Weakfish	174,991	174,991	109,654	62.7
1983	2	Annual	47	Common shiner	0			
1983	2	Annual	49	Lookdown	0			
1983	2	Annual	50	Herring family	1,007	1,008	582	57.7
1983	2	Annual	54	Lined seahorse	0			
1983	2	Annual	55	Logperch	0			
1983	2	Annual	58	Fathead minnow	0			
1983	2	Annual	59	Carp and minnow family	0			
1983	2	Annual	60	Morone species	0			
1983	2	Annual	62	Tautog	6	6	5	80.2
1983	2	Annual	63	Fourbeard rockling	0			
1983	2	Annual	64	Striped cusk-eel	0			
1983	2	Annual	67	Spot	0			
1983	2	Annual	68	Atlantic moonfish	3	3	1	42.2
1983	2	Annual	71	Scup	0			
1983	2	Annual	72	Winter flounder	6	6	2	29.6
1983	2	Annual	73	Inland silverside	85	85	8	9.1
1983	2	Annual	74	Sea lamprey	17	17	7	40.3
1983	2	Annual	75	Gizzard shad	1,816	1,817	202	11.1
1983	2	Annual	76	Silver hake	35	35	17	48.8
1983	2	Annual	77	Striped mullet	0			
1983	2	Annual	78	Threespine stickleback	17	17	10	59.1
1983	2	Annual	79	Brown trout	0			
1983	2	Annual	80	Butterfish	1,753	1,753	982	56
1983	2	Annual	81	White crappie	0			
1983	2	Annual	83	Northern pike	0			
1983	2	Annual	84	Green sunfish	0			
1983	2	Annual	85	Silver perch	0			
1983	2	Annual	86	Northern puffer	0			
1983	2	Annual	96	Sunfish family	166	166	54	32.7
1983	2	Annual	98	Red hake	90	90	58	64.5

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1983	2	Annual	100	Central mudminnow	0			
1983	2	Annual	101	Grubby	0			
1983	2	Annual	102	Eastern mudminnow	0			
1983	2	Annual	103	White bass	0			
1983	2	Annual	104	Rough silverside	0			
1983	2	Annual	105	Longear sunfish	0			
1983	2	Annual	106	Summer flounder	0			
1983	2	Annual	108	Creek chub	0			
1983	2	Annual	109	Black bullhead	0			
1983	2	Annual	110	Striped searobin	15	15	3	21.6
1983	2	Annual	111	Northern searobin	0			
1983	2	Annual	113	Atlantic croaker	13	13	5	42.2
1983	2	Annual	114	Longhorn sculpin	0			
1983	2	Annual	116	Hickory shad	0			
1983	2	Annual	120	Conger eel	0			
1983	2	Annual	122	Warmouth	0			
1983	2	Annual	125	White mullet	3	3	1	42.2
1983	2	Annual	126	Yellow bullhead	0			
1983	2	Annual	127	Channel catfish	0			
1983	2	Annual	130	Naked goby	0			
1983	2	Annual	132	Windowpane	0			
1983	2	Annual	133	Spotted hake	0			
1983	2	Annual	136	Northern stargazer	0			
1983	2	Annual	137	American sand lance	0			
1983	2	Annual	139	Fourspot flounder	0			
1983	2	Annual	140	Atlantic mackerel	0			
1983	2	Annual	141	Black sea bass	19	19	5	26.1
1983	2	Annual	142	Smallmouth flounder	0			
1983	2	Annual	143	Rock gunnel	0			
1983	2	Annual	144	Inshore lizardfish	0			
1983	2	Annual	146	Silver lamprey	0			
1983	2	Annual	150	Goby family	0			
1983	2	Annual	157	New World silverside family	0			
1983	2	Annual	159	Sand flounder family	0			
1983	2	Annual	161	Pipefish family	0			
1983	2	Annual	162	Mackerel scad	0			
1983	2	Annual	164	Cunner	0			
1983	2	Annual	169	Gray snapper	0			
1983	2	Annual	172	Bigeye scad	0			
1983	2	Annual	173	Striped burrfish	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1983	2	Annual	177	Spotfin butterflyfish	0			
1983	2	Annual	179	Planehead filefish	0			
1983	2	Annual	180	Atlantic cutlassfish	0			
1983	2	Annual	181	Pigfish	0			
1983	2	Annual	184	Freckled blenny	0			
1983	2	Annual	187	Margined madtom	0			
1983	2	Annual	205	Freshwater drum	0			
1983	2	Annual	206	King mackerel	0			
1983	2	Annual	209	Highfin goby	0			
1983	2	Annual	213	Oyster toadfish	0			
1983	2	Annual	754	Blue crab	790	790		
1983	2	Annual	999	All fish taxa	820,622.11	820,624	239,651	29.2
1983	3	Annual	1	Alewife	211	212	32	15
1983	3	Annual	2	Bay anchovy	404	404	85	21
1983	3	Annual	3	American shad	10	10	5	49.2
1983	3	Annual	4	Bluefish	550	550	66	12.1
1983	3	Annual	5	Bluegill	3	3	2	67.4
1983	3	Annual	6	Brown bullhead	3	3	2	67.4
1983	3	Annual	7	Pumpkinseed	50	50	9	17.6
1983	3	Annual	8	Black crappie	0			
1983	3	Annual	9	Common carp	0			
1983	3	Annual	10	American eel	222	222	38	17.2
1983	3	Annual	11	Goldfish	0			
1983	3	Annual	12	Golden shiner	0			
1983	3	Annual	13	Hogchoker	817	817	140	17.1
1983	3	Annual	14	Tessellated darter	7	7	3	46.3
1983	3	Annual	15	Banded killifish	7	7	3	46.3
1983	3	Annual	16	Emerald shiner	0			
1983	3	Annual	17	Largemouth bass	0			
1983	3	Annual	18	Mummichog	0			
1983	3	Annual	19	Atlantic menhaden	4	4	2	67.4
1983	3	Annual	21	Chain pickerel	0			
1983	3	Annual	22	Blueback herring	2,878	2,878	422	14.7
1983	3	Annual	23	White sucker	0			
1983	3	Annual	24	Atlantic silverside	0			
1983	3	Annual	25	Rainbow smelt	132	132	30	22.7
1983	3	Annual	26	Smallmouth bass	0			
1983	3	Annual	27	Shortnose sturgeon	0.00			
1983	3	Annual	28	Spottail shiner	30	31	14	43.7
1983	3	Annual	29	Atlantic sturgeon	0.00			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1983	3	Annual	30	Striped bass	67	67	14	21.4
1983	3	Annual	31	Fourspine stickleback	7	7	3	46.3
1983	3	Annual	32	Atlantic tomcod	12,361	12,361	3,262	26.4
1983	3	Annual	34	White catfish	40	40	9	21.6
1983	3	Annual	35	White perch	11,633	11,633	1,593	13.7
1983	3	Annual	36	Yellow perch	0			
1983	3	Annual	37	Satinfin shiner	0			
1983	3	Annual	38	Rock bass	0			
1983	3	Annual	39	Northern pipefish	0			
1983	3	Annual	40	Redbreast sunfish	0			
1983	3	Annual	41	Atlantic needlefish	0			
1983	3	Annual	42	Crevalle jack	0			
1983	3	Annual	45	Weakfish	0			
1983	3	Annual	47	Common shiner	0			
1983	3	Annual	49	Lookdown	0			
1983	3	Annual	50	Herring family	0			
1983	3	Annual	54	Lined seahorse	0			
1983	3	Annual	55	Logperch	0			
1983	3	Annual	58	Fathead minnow	0			
1983	3	Annual	59	Carp and minnow family	0			
1983	3	Annual	60	Morone species	0			
1983	3	Annual	62	Tautog	0			
1983	3	Annual	63	Fourbeard rockling	0			
1983	3	Annual	64	Striped cusk-eel	0			
1983	3	Annual	67	Spot	0			
1983	3	Annual	68	Atlantic moonfish	0			
1983	3	Annual	71	Scup	0			
1983	3	Annual	72	Winter flounder	0			
1983	3	Annual	73	Inland silverside	0			
1983	3	Annual	74	Sea lamprey	0			
1983	3	Annual	75	Gizzard shad	0			
1983	3	Annual	76	Silver hake	0			
1983	3	Annual	77	Striped mullet	0			
1983	3	Annual	78	Threespine stickleback	0			
1983	3	Annual	79	Brown trout	0			
1983	3	Annual	80	Butterfish	0			
1983	3	Annual	81	White crappie	0			
1983	3	Annual	83	Northern pike	0			
1983	3	Annual	84	Green sunfish	0			
1983	3	Annual	85	Silver perch	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1983	3	Annual	86	Northern puffer	0			
1983	3	Annual	96	Sunfish family	10	10	4	36.6
1983	3	Annual	98	Red hake	0			
1983	3	Annual	100	Central mudminnow	0			
1983	3	Annual	101	Grubby	0			
1983	3	Annual	102	Eastern mudminnow	0			
1983	3	Annual	103	White bass	0			
1983	3	Annual	104	Rough silverside	3	3	2	67.4
1983	3	Annual	105	Longear sunfish	0			
1983	3	Annual	106	Summer flounder	0			
1983	3	Annual	108	Creek chub	0			
1983	3	Annual	109	Black bullhead	0			
1983	3	Annual	110	Striped searobin	0			
1983	3	Annual	111	Northern searobin	0			
1983	3	Annual	113	Atlantic croaker	0			
1983	3	Annual	114	Longhorn sculpin	0			
1983	3	Annual	116	Hickory shad	0			
1983	3	Annual	120	Conger eel	0			
1983	3	Annual	122	Warmouth	3	3	2	67.4
1983	3	Annual	125	White mullet	0			
1983	3	Annual	126	Yellow bullhead	0			
1983	3	Annual	127	Channel catfish	0			
1983	3	Annual	130	Naked goby	0			
1983	3	Annual	132	Windowpane	0			
1983	3	Annual	133	Spotted hake	0			
1983	3	Annual	136	Northern stargazer	0			
1983	3	Annual	137	American sand lance	0			
1983	3	Annual	139	Fourspot flounder	0			
1983	3	Annual	140	Atlantic mackerel	0			
1983	3	Annual	141	Black sea bass	0			
1983	3	Annual	142	Smallmouth flounder	0			
1983	3	Annual	143	Rock gunnel	0			
1983	3	Annual	144	Inshore lizardfish	0			
1983	3	Annual	146	Silver lamprey	0			
1983	3	Annual	150	Goby family	0			
1983	3	Annual	157	New World silverside family	0			
1983	3	Annual	159	Sand flounder family	0			
1983	3	Annual	161	Pipefish family	0			
1983	3	Annual	162	Mackerel scad	0			
1983	3	Annual	164	Cunner	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1983	3	Annual	169	Gray snapper	0			
1983	3	Annual	172	Bigeye scad	0			
1983	3	Annual	173	Striped burrfish	0			
1983	3	Annual	177	Spotfin butterflyfish	0			
1983	3	Annual	179	Planehead filefish	0			
1983	3	Annual	180	Atlantic cutlassfish	0			
1983	3	Annual	181	Pigfish	0			
1983	3	Annual	184	Freckled blenny	0			
1983	3	Annual	187	Margined madtom	0			
1983	3	Annual	205	Freshwater drum	0			
1983	3	Annual	206	King mackerel	0			
1983	3	Annual	209	Highfin goby	0			
1983	3	Annual	213	Oyster toadfish	0			
1983	3	Annual	754	Blue crab	31	31		
1983	3	Annual	999	All fish taxa	29,453.00	29,453	5,057	17.2
1984	2	Annual	1	Alewife	3,310	3,310	443	13.4
1984	2	Annual	2	Bay anchovy	3,684	3,684	789	21.4
1984	2	Annual	3	American shad	242	242	49	20.3
1984	2	Annual	4	Bluefish	30	30	10	32.5
1984	2	Annual	5	Bluegill	222	222	48	21.8
1984	2	Annual	6	Brown bullhead	24	24	17	71.6
1984	2	Annual	7	Pumpkinseed	899	898	102	11.3
1984	2	Annual	8	Black crappie	4	4	2	59.8
1984	2	Annual	9	Common carp	6	6	4	79.3
1984	2	Annual	10	American eel	390	390	67	17.2
1984	2	Annual	11	Goldfish	85	85	23	27
1984	2	Annual	12	Golden shiner	33	33	15	44.4
1984	2	Annual	13	Hogchoker	1,985	1,985	742	37.4
1984	2	Annual	14	Tessellated darter	35	35	19	55.6
1984	2	Annual	15	Banded killifish	101	101	24	23.7
1984	2	Annual	16	Emerald shiner	0			
1984	2	Annual	17	Largemouth bass	5	5	4	79.3
1984	2	Annual	18	Mummichog	17	17	16	91.9
1984	2	Annual	19	Atlantic menhaden	8	8	3	41.9
1984	2	Annual	21	Chain pickerel	0			
1984	2	Annual	22	Blueback herring	3,251	3,251	456	14
1984	2	Annual	23	White sucker	17	17	16	91.9
1984	2	Annual	24	Atlantic silverside	4	4	2	59.8
1984	2	Annual	25	Rainbow smelt	843	844	131	15.5
1984	2	Annual	26	Smallmouth bass	6	6	4	79.3

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1984	2	Annual	27	Shortnose sturgeon	2.75			
1984	2	Annual	28	Spottail shiner	1,015	1,015	117	11.5
1984	2	Annual	29	Atlantic sturgeon	6.44			
1984	2	Annual	30	Striped bass	4,550	4,551	675	14.8
1984	2	Annual	31	Fourspine stickleback	21	21	13	61.6
1984	2	Annual	32	Atlantic tomcod	2,709	2,709	906	33.4
1984	2	Annual	34	White catfish	2,217	2,216	263	11.9
1984	2	Annual	35	White perch	310,335	310,336	43,872	14.1
1984	2	Annual	36	Yellow perch	182	182	48	26.5
1984	2	Annual	37	Satinfin shiner	0			
1984	2	Annual	38	Rock bass	6	6	4	79.3
1984	2	Annual	39	Northern pipefish	112	112	16	14.3
1984	2	Annual	40	Redbreast sunfish	3	3	2	59.8
1984	2	Annual	41	Atlantic needlefish	0			
1984	2	Annual	42	Crevalle jack	36	36	7	20.4
1984	2	Annual	45	Weakfish	1,358	1,358	224	16.5
1984	2	Annual	47	Common shiner	0			
1984	2	Annual	49	Lookdown	21	21	8	35.1
1984	2	Annual	50	Herring family	0			
1984	2	Annual	54	Lined seahorse	0			
1984	2	Annual	55	Logperch	0			
1984	2	Annual	58	Fathead minnow	0			
1984	2	Annual	59	Carp and minnow family	0			
1984	2	Annual	60	Morone species	0			
1984	2	Annual	62	Tautog	0			
1984	2	Annual	63	Fourbeard rockling	0			
1984	2	Annual	64	Striped cusk-eel	0			
1984	2	Annual	67	Spot	0			
1984	2	Annual	68	Atlantic moonfish	0			
1984	2	Annual	71	Scup	0			
1984	2	Annual	72	Winter flounder	6	6	4	79.3
1984	2	Annual	73	Inland silverside	0			
1984	2	Annual	74	Sea lamprey	0			
1984	2	Annual	75	Gizzard shad	1,474	1,474	324	21.9
1984	2	Annual	76	Silver hake	54	54	20	36.6
1984	2	Annual	77	Striped mullet	0			
1984	2	Annual	78	Threespine stickleback	72	72	19	25.8
1984	2	Annual	79	Brown trout	0			
1984	2	Annual	80	Butterfish	127	127	22	17.5
1984	2	Annual	81	White crappie	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1984	2	Annual	83	Northern pike	0			
1984	2	Annual	84	Green sunfish	0			
1984	2	Annual	85	Silver perch	0			
1984	2	Annual	86	Northern puffer	0			
1984	2	Annual	96	Sunfish family	50	50	33	65.1
1984	2	Annual	98	Red hake	253	253	126	50
1984	2	Annual	100	Central mudminnow	0			
1984	2	Annual	101	Grubby	0			
1984	2	Annual	102	Eastern mudminnow	0			
1984	2	Annual	103	White bass	0			
1984	2	Annual	104	Rough silverside	0			
1984	2	Annual	105	Longear sunfish	0			
1984	2	Annual	106	Summer flounder	6	6	4	79.3
1984	2	Annual	108	Creek chub	0			
1984	2	Annual	109	Black bullhead	0			
1984	2	Annual	110	Striped searobin	4	4	3	59.8
1984	2	Annual	111	Northern searobin	0			
1984	2	Annual	113	Atlantic croaker	0			
1984	2	Annual	114	Longhorn sculpin	0			
1984	2	Annual	116	Hickory shad	0			
1984	2	Annual	120	Conger eel	0			
1984	2	Annual	122	Warmouth	0			
1984	2	Annual	125	White mullet	0			
1984	2	Annual	126	Yellow bullhead	0			
1984	2	Annual	127	Channel catfish	18	18	16	91.9
1984	2	Annual	130	Naked goby	0			
1984	2	Annual	132	Windowpane	0			
1984	2	Annual	133	Spotted hake	0			
1984	2	Annual	136	Northern stargazer	0			
1984	2	Annual	137	American sand lance	0			
1984	2	Annual	139	Fourspot flounder	0			
1984	2	Annual	140	Atlantic mackerel	0			
1984	2	Annual	141	Black sea bass	0			
1984	2	Annual	142	Smallmouth flounder	0			
1984	2	Annual	143	Rock gunnel	0			
1984	2	Annual	144	Inshore lizardfish	0			
1984	2	Annual	146	Silver lamprey	0			
1984	2	Annual	150	Goby family	0			
1984	2	Annual	157	New World silverside family	0			
1984	2	Annual	159	Sand flounder family	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1984	2	Annual	161	Pipefish family	0			
1984	2	Annual	162	Mackerel scad	0			
1984	2	Annual	164	Cunner	0			
1984	2	Annual	169	Gray snapper	0			
1984	2	Annual	172	Bigeye scad	0			
1984	2	Annual	173	Striped burrfish	0			
1984	2	Annual	177	Spotfin butterflyfish	0			
1984	2	Annual	179	Planehead filefish	0			
1984	2	Annual	180	Atlantic cutlassfish	0			
1984	2	Annual	181	Pigfish	0			
1984	2	Annual	184	Freckled blenny	0			
1984	2	Annual	187	Margined madtom	0			
1984	2	Annual	205	Freshwater drum	0			
1984	2	Annual	206	King mackerel	0			
1984	2	Annual	209	Highfin goby	0			
1984	2	Annual	213	Oyster toadfish	0			
1984	2	Annual	754	Blue crab	20	20		
1984	2	Annual	999	All fish taxa	339,835.19	339,859	44,280	13
1984	3	Annual	1	Alewife	4,704	4,704	586	12.5
1984	3	Annual	2	Bay anchovy	109,086	109,086	17,421	16
1984	3	Annual	3	American shad	459	458	96	21
1984	3	Annual	4	Bluefish	6,463	6,464	966	14.9
1984	3	Annual	5	Bluegill	427	426	99	23.3
1984	3	Annual	6	Brown bullhead	168	168	43	25.1
1984	3	Annual	7	Pumpkinseed	2,210	2,210	245	11.1
1984	3	Annual	8	Black crappie	3	3	3	76.9
1984	3	Annual	9	Common carp	6	6	3	50.8
1984	3	Annual	10	American eel	1,699	1,699	149	8.6
1984	3	Annual	11	Goldfish	143	143	31	21.4
1984	3	Annual	12	Golden shiner	117	116	31	27
1984	3	Annual	13	Hogchoker	9,448	9,447	2,427	25.7
1984	3	Annual	14	Tessellated darter	30	29	11	37.2
1984	3	Annual	15	Banded killifish	186	186	45	24
1984	3	Annual	16	Emerald shiner	0			
1984	3	Annual	17	Largemouth bass	3	3	3	76.9
1984	3	Annual	18	Mummichog	6	6	5	82.3
1984	3	Annual	19	Atlantic menhaden	23	23	11	48.7
1984	3	Annual	21	Chain pickerel	4	4	3	76.9
1984	3	Annual	22	Blueback herring	10,215	10,216	1,904	18.6
1984	3	Annual	23	White sucker	18	18	11	61.4

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1984	3	Annual	24	Atlantic silverside	6	6	5	82.3
1984	3	Annual	25	Rainbow smelt	733	733	133	18.2
1984	3	Annual	26	Smallmouth bass	4	4	3	76.9
1984	3	Annual	27	Shortnose sturgeon	1.69			
1984	3	Annual	28	Spottail shiner	1,263	1,263	179	14.2
1984	3	Annual	29	Atlantic sturgeon	9.75			
1984	3	Annual	30	Striped bass	6,415	6,414	779	12.1
1984	3	Annual	31	Fourspine stickleback	0			
1984	3	Annual	32	Atlantic tomcod	95,854	95,855	22,262	23.2
1984	3	Annual	34	White catfish	11,359	11,360	2,756	24.3
1984	3	Annual	35	White perch	234,299	234,299	26,810	11.4
1984	3	Annual	36	Yellow perch	227	227	39	17.3
1984	3	Annual	37	Satinfin shiner	0			
1984	3	Annual	38	Rock bass	0			
1984	3	Annual	39	Northern pipefish	38	38	17	46
1984	3	Annual	40	Redbreast sunfish	52	51	13	25.7
1984	3	Annual	41	Atlantic needlefish	6	6	5	82.3
1984	3	Annual	42	Creville jack	57	57	14	24.1
1984	3	Annual	45	Weakfish	10,193	10,193	3,162	31
1984	3	Annual	47	Common shiner	0			
1984	3	Annual	49	Lookdown	21	20	7	35.1
1984	3	Annual	50	Herring family	0			
1984	3	Annual	54	Lined seahorse	0			
1984	3	Annual	55	Logperch	0			
1984	3	Annual	58	Fathead minnow	0			
1984	3	Annual	59	Carp and minnow family	0			
1984	3	Annual	60	Morone species	0			
1984	3	Annual	62	Tautog	6	6	5	82.3
1984	3	Annual	63	Fourbeard rockling	3	3	2	63.5
1984	3	Annual	64	Striped cusk-eel	0			
1984	3	Annual	67	Spot	0			
1984	3	Annual	68	Atlantic moonfish	0			
1984	3	Annual	71	Scup	0			
1984	3	Annual	72	Winter flounder	6	6	5	82.3
1984	3	Annual	73	Inland silverside	426	426	381	89.6
1984	3	Annual	74	Sea lamprey	0			
1984	3	Annual	75	Gizzard shad	82	81	17	20.4
1984	3	Annual	76	Silver hake	9	9	8	89.6
1984	3	Annual	77	Striped mullet	0			
1984	3	Annual	78	Threespine stickleback	135	135	24	17.1

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1984	3	Annual	79	Brown trout	0			
1984	3	Annual	80	Butterfish	1,794	1,794	357	19.9
1984	3	Annual	81	White crappie	0			
1984	3	Annual	83	Northern pike	0			
1984	3	Annual	84	Green sunfish	0			
1984	3	Annual	85	Silver perch	0			
1984	3	Annual	86	Northern puffer	0			
1984	3	Annual	96	Sunfish family	256	256	141	55
1984	3	Annual	98	Red hake	0			
1984	3	Annual	100	Central mudminnow	0			
1984	3	Annual	101	Grubby	0			
1984	3	Annual	102	Eastern mudminnow	0			
1984	3	Annual	103	White bass	4	4	3	76.9
1984	3	Annual	104	Rough silverside	0			
1984	3	Annual	105	Longear sunfish	0			
1984	3	Annual	106	Summer flounder	15	14	9	62.8
1984	3	Annual	108	Creek chub	0			
1984	3	Annual	109	Black bullhead	0			
1984	3	Annual	110	Striped searobin	0			
1984	3	Annual	111	Northern searobin	0			
1984	3	Annual	113	Atlantic croaker	0			
1984	3	Annual	114	Longhorn sculpin	0			
1984	3	Annual	116	Hickory shad	3	3	2	63.5
1984	3	Annual	120	Conger eel	0			
1984	3	Annual	122	Warmouth	0			
1984	3	Annual	125	White mullet	0			
1984	3	Annual	126	Yellow bullhead	37	37	13	33.9
1984	3	Annual	127	Channel catfish	0			
1984	3	Annual	130	Naked goby	0			
1984	3	Annual	132	Windowpane	0			
1984	3	Annual	133	Spotted hake	0			
1984	3	Annual	136	Northern stargazer	0			
1984	3	Annual	137	American sand lance	0			
1984	3	Annual	139	Fourspot flounder	6	6	5	82.3
1984	3	Annual	140	Atlantic mackerel	0			
1984	3	Annual	141	Black sea bass	0			
1984	3	Annual	142	Smallmouth flounder	0			
1984	3	Annual	143	Rock gunnel	0			
1984	3	Annual	144	Inshore lizardfish	0			
1984	3	Annual	146	Silver lamprey	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1984	3	Annual	150	Goby family	0			
1984	3	Annual	157	New World silverside family	0			
1984	3	Annual	159	Sand flounder family	0			
1984	3	Annual	161	Pipefish family	0			
1984	3	Annual	162	Mackerel scad	0			
1984	3	Annual	164	Cunner	0			
1984	3	Annual	169	Gray snapper	0			
1984	3	Annual	172	Bigeye scad	0			
1984	3	Annual	173	Striped burrfish	0			
1984	3	Annual	177	Spotfin butterflyfish	0			
1984	3	Annual	179	Planehead filefish	0			
1984	3	Annual	180	Atlantic cutlassfish	0			
1984	3	Annual	181	Pigfish	0			
1984	3	Annual	184	Freckled blenny	0			
1984	3	Annual	187	Margined madtom	0			
1984	3	Annual	205	Freshwater drum	0			
1984	3	Annual	206	King mackerel	0			
1984	3	Annual	209	Highfin goby	0			
1984	3	Annual	213	Oyster toadfish	0			
1984	3	Annual	754	Blue crab	328	328		
1984	3	Annual	999	All fish taxa	508,731.44	508,759	47,991	9.4
1985	2	Annual	1	Alewife	2,342	2,343	214	9.1
1985	2	Annual	2	Bay anchovy	8,686	8,686	1,024	11.8
1985	2	Annual	3	American shad	1,341	1,340	13	0.9
1985	2	Annual	4	Bluefish	582	582	50	8.5
1985	2	Annual	5	Bluegill	1,295	1,296	132	10.2
1985	2	Annual	6	Brown bullhead	168	168	19	11.2
1985	2	Annual	7	Pumpkinseed	1,219	1,219	51	4.2
1985	2	Annual	8	Black crappie	61	61	7	10.7
1985	2	Annual	9	Common carp	20	20	1	3.4
1985	2	Annual	10	American eel	2,273	2,274	184	8.1
1985	2	Annual	11	Goldfish	13	13	1	9.8
1985	2	Annual	12	Golden shiner	71	71	5	7.2
1985	2	Annual	13	Hogchoker	26,315	26,314	1,198	4.6
1985	2	Annual	14	Tessellated darter	694	694	122	17.6
1985	2	Annual	15	Banded killifish	526	525	10	2
1985	2	Annual	16	Emerald shiner	0			
1985	2	Annual	17	Largemouth bass	51	51	7	14.3
1985	2	Annual	18	Mummichog	21	21	3	13.8
1985	2	Annual	19	Atlantic menhaden	366	367	23	6.4

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1985	2	Annual	21	Chain pickerel	0			
1985	2	Annual	22	Blueback herring	8,337	8,337	88	1.1
1985	2	Annual	23	White sucker	2	2	1	29.8
1985	2	Annual	24	Atlantic silverside	28	27	4	14.8
1985	2	Annual	25	Rainbow smelt	3,551	3,552	235	6.6
1985	2	Annual	26	Smallmouth bass	21	21	3	16.5
1985	2	Annual	27	Shortnose sturgeon	0.00			
1985	2	Annual	28	Spottail shiner	1,973	1,974	90	4.5
1985	2	Annual	29	Atlantic sturgeon	19.23			
1985	2	Annual	30	Striped bass	53,451	53,451	1,945	3.6
1985	2	Annual	31	Fourspine stickleback	32	32	9	29
1985	2	Annual	32	Atlantic tomcod	39,558	39,558	6,846	17.3
1985	2	Annual	34	White catfish	4,980	4,980	204	4.1
1985	2	Annual	35	White perch	543,274	543,274	28,069	5.2
1985	2	Annual	36	Yellow perch	194	194	29	14.9
1985	2	Annual	37	Satinfin shiner	0			
1985	2	Annual	38	Rock bass	0			
1985	2	Annual	39	Northern pipefish	987	988	50	5.1
1985	2	Annual	40	Redbreast sunfish	24	24	7	27.9
1985	2	Annual	41	Atlantic needlefish	8	8	2	28.7
1985	2	Annual	42	Crevalle jack	122	121	3	2.8
1985	2	Annual	45	Weakfish	8,399	8,399	743	8.8
1985	2	Annual	47	Common shiner	5	5	1	0
1985	2	Annual	49	Lookdown	141	141	10	6.8
1985	2	Annual	50	Herring family	65	66	4	5.7
1985	2	Annual	54	Lined seahorse	8	8	6	83.9
1985	2	Annual	55	Logperch	0			
1985	2	Annual	58	Fathead minnow	0			
1985	2	Annual	59	Carp and minnow family	0			
1985	2	Annual	60	Morone species	0			
1985	2	Annual	62	Tautog	10	11	7	65
1985	2	Annual	63	Fourbeard rockling	14	14	1	10.6
1985	2	Annual	64	Striped cusk-eel	31	31	16	50
1985	2	Annual	67	Spot	3	3	1	0
1985	2	Annual	68	Atlantic moonfish	80	80	2	2.9
1985	2	Annual	71	Scup	0			
1985	2	Annual	72	Winter flounder	116	116	6	5.6
1985	2	Annual	73	Inland silverside	17	18	2	13.1
1985	2	Annual	74	Sea lamprey	29	29	3	9.5
1985	2	Annual	75	Gizzard shad	1,646	1,646	45	2.7

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1985	2	Annual	76	Silver hake	77	77	11	14.1
1985	2	Annual	77	Striped mullet	0			
1985	2	Annual	78	Threespine stickleback	732	732	46	6.4
1985	2	Annual	79	Brown trout	0			
1985	2	Annual	80	Butterfish	1,901	1,901	251	13.2
1985	2	Annual	81	White crappie	3	3	1	29.8
1985	2	Annual	83	Northern pike	0			
1985	2	Annual	84	Green sunfish	2	2	1	0
1985	2	Annual	85	Silver perch	40	40	1	0
1985	2	Annual	86	Northern puffer	29	29	6	20.5
1985	2	Annual	96	Sunfish family	12	12	2	13.7
1985	2	Annual	98	Red hake	431	431	35	8
1985	2	Annual	100	Central mudminnow	3	3	1	0
1985	2	Annual	101	Grubby	13	13	2	11.8
1985	2	Annual	102	Eastern mudminnow	0			
1985	2	Annual	103	White bass	0			
1985	2	Annual	104	Rough silverside	0			
1985	2	Annual	105	Longear sunfish	0			
1985	2	Annual	106	Summer flounder	137	137	12	8.7
1985	2	Annual	108	Creek chub	0			
1985	2	Annual	109	Black bullhead	5	5	1	0
1985	2	Annual	110	Striped searobin	104	104	18	17
1985	2	Annual	111	Northern searobin	30	30	11	35.6
1985	2	Annual	113	Atlantic croaker	2	2	1	0
1985	2	Annual	114	Longhorn sculpin	0			
1985	2	Annual	116	Hickory shad	0			
1985	2	Annual	120	Conger eel	4	4	2	40.9
1985	2	Annual	122	Warmouth	0			
1985	2	Annual	125	White mullet	0			
1985	2	Annual	126	Yellow bullhead	0			
1985	2	Annual	127	Channel catfish	0			
1985	2	Annual	130	Naked goby	136	136	1	0
1985	2	Annual	132	Windowpane	102	102	23	22.6
1985	2	Annual	133	Spotted hake	219	220	47	21.4
1985	2	Annual	136	Northern stargazer	8	8	2	28.7
1985	2	Annual	137	American sand lance	0			
1985	2	Annual	139	Fourspot flounder	180	180	30	16.6
1985	2	Annual	140	Atlantic mackerel	0			
1985	2	Annual	141	Black sea bass	18	18	1	0
1985	2	Annual	142	Smallmouth flounder	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1985	2	Annual	143	Rock gunnel	15	15	7	44.5
1985	2	Annual	144	Inshore lizardfish	0			
1985	2	Annual	146	Silver lamprey	0			
1985	2	Annual	150	Goby family	0			
1985	2	Annual	157	New World silverside family	0			
1985	2	Annual	159	Sand flounder family	0			
1985	2	Annual	161	Pipefish family	0			
1985	2	Annual	162	Mackerel scad	4	4	2	40.9
1985	2	Annual	164	Cunner	10	10	6	64.3
1985	2	Annual	169	Gray snapper	107	107	1	0
1985	2	Annual	172	Bigeye scad	0			
1985	2	Annual	173	Striped burrfish	0			
1985	2	Annual	177	Spotfin butterflyfish	3	3	1	0
1985	2	Annual	179	Planehead filefish	8	8	2	28.7
1985	2	Annual	180	Atlantic cutlassfish	4	4	2	40.9
1985	2	Annual	181	Pigfish	0			
1985	2	Annual	184	Freckled blenny	2	2	1	0
1985	2	Annual	187	Margined madtom	0			
1985	2	Annual	205	Freshwater drum	0			
1985	2	Annual	206	King mackerel	0			
1985	2	Annual	209	Highfin goby	0			
1985	2	Annual	213	Oyster toadfish	0			
1985	2	Annual	754	Blue crab	11,805	11,805		
1985	2	Annual	999	All fish taxa	716,808.23	716,805	30,376	4.2
1985	3	Annual	1	Alewife	2,824	2,824	634	22.4
1985	3	Annual	2	Bay anchovy	4,743	4,743	1,028	21.7
1985	3	Annual	3	American shad	1,657	1,656	456	27.6
1985	3	Annual	4	Bluefish	27	27	14	50.7
1985	3	Annual	5	Bluegill	385	384	100	25.9
1985	3	Annual	6	Brown bullhead	77	77	21	26.8
1985	3	Annual	7	Pumpkinseed	584	584	70	11.9
1985	3	Annual	8	Black crappie	57	58	35	61.3
1985	3	Annual	9	Common carp	46	46	19	41.5
1985	3	Annual	10	American eel	1,357	1,358	210	15.4
1985	3	Annual	11	Goldfish	8	8	4	54.5
1985	3	Annual	12	Golden shiner	39	39	14	35.4
1985	3	Annual	13	Hogchoker	13,145	13,145	3,589	27.3
1985	3	Annual	14	Tessellated darter	114	113	24	21.4
1985	3	Annual	15	Banded killifish	115	115	56	48.4
1985	3	Annual	16	Emerald shiner	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1985	3	Annual	17	Largemouth bass	20	19	11	56.1
1985	3	Annual	18	Mummichog	4	4	3	78.2
1985	3	Annual	19	Atlantic menhaden	47	47	15	32.9
1985	3	Annual	21	Chain pickerel	0			
1985	3	Annual	22	Blueback herring	47,550	47,551	15,190	31.9
1985	3	Annual	23	White sucker	5	5	4	78.2
1985	3	Annual	24	Atlantic silverside	6	6	5	86
1985	3	Annual	25	Rainbow smelt	1,806	1,806	323	17.9
1985	3	Annual	26	Smallmouth bass	0			
1985	3	Annual	27	Shortnose sturgeon	0.00			
1985	3	Annual	28	Spottail shiner	559	558	103	18.4
1985	3	Annual	29	Atlantic sturgeon	25.00			
1985	3	Annual	30	Striped bass	27,012	27,011	3,888	14.4
1985	3	Annual	31	Fourspine stickleback	9	9	8	89.4
1985	3	Annual	32	Atlantic tomcod	9,722	9,723	3,711	38.2
1985	3	Annual	34	White catfish	1,606	1,606	222	13.9
1985	3	Annual	35	White perch	239,912	239,912	38,094	15.9
1985	3	Annual	36	Yellow perch	94	94	26	27.4
1985	3	Annual	37	Satinfin shiner	0			
1985	3	Annual	38	Rock bass	0			
1985	3	Annual	39	Northern pipefish	414	414	124	30
1985	3	Annual	40	Redbreast sunfish	4	4	3	78.2
1985	3	Annual	41	Atlantic needlefish	0			
1985	3	Annual	42	Crevalle jack	92	92	33	36.1
1985	3	Annual	45	Weakfish	510	510	180	35.4
1985	3	Annual	47	Common shiner	0			
1985	3	Annual	49	Lookdown	26	26	11	40.1
1985	3	Annual	50	Herring family	0			
1985	3	Annual	54	Lined seahorse	17	17	10	60.8
1985	3	Annual	55	Logperch	0			
1985	3	Annual	58	Fathead minnow	0			
1985	3	Annual	59	Carp and minnow family	0			
1985	3	Annual	60	Morone species	0			
1985	3	Annual	62	Tautog	9	9	8	89.4
1985	3	Annual	63	Fourbeard rockling	11	11	5	43.8
1985	3	Annual	64	Striped cusk-eel	361	361	95	26.4
1985	3	Annual	67	Spot	0			
1985	3	Annual	68	Atlantic moonfish	91	91	42	46.8
1985	3	Annual	71	Scup	0			
1985	3	Annual	72	Winter flounder	30	30	11	34.7

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1985	3	Annual	73	Inland silverside	11	11	5	43.8
1985	3	Annual	74	Sea lamprey	0			
1985	3	Annual	75	Gizzard shad	3,993	3,993	1,333	33.4
1985	3	Annual	76	Silver hake	130	130	38	29
1985	3	Annual	77	Striped mullet	0			
1985	3	Annual	78	Threespine stickleback	600	600	111	18.4
1985	3	Annual	79	Brown trout	0			
1985	3	Annual	80	Butterfish	134	134	52	38.9
1985	3	Annual	81	White crappie	0			
1985	3	Annual	83	Northern pike	0			
1985	3	Annual	84	Green sunfish	0			
1985	3	Annual	85	Silver perch	13	13	11	86
1985	3	Annual	86	Northern puffer	0			
1985	3	Annual	96	Sunfish family	0			
1985	3	Annual	98	Red hake	466	465	153	32.9
1985	3	Annual	100	Central mudminnow	0			
1985	3	Annual	101	Grubby	0			
1985	3	Annual	102	Eastern mudminnow	0			
1985	3	Annual	103	White bass	0			
1985	3	Annual	104	Rough silverside	0			
1985	3	Annual	105	Longear sunfish	0			
1985	3	Annual	106	Summer flounder	13	13	8	59.5
1985	3	Annual	108	Creek chub	0			
1985	3	Annual	109	Black bullhead	0			
1985	3	Annual	110	Striped searobin	26	26	13	50.7
1985	3	Annual	111	Northern searobin	8	8	8	89.4
1985	3	Annual	113	Atlantic croaker	0			
1985	3	Annual	114	Longhorn sculpin	0			
1985	3	Annual	116	Hickory shad	0			
1985	3	Annual	120	Conger eel	0			
1985	3	Annual	122	Warmouth	0			
1985	3	Annual	125	White mullet	0			
1985	3	Annual	126	Yellow bullhead	0			
1985	3	Annual	127	Channel catfish	0			
1985	3	Annual	130	Naked goby	7	7	6	86
1985	3	Annual	132	Windowpane	639	639	216	33.8
1985	3	Annual	133	Spotted hake	92	92	31	34.2
1985	3	Annual	136	Northern stargazer	0			
1985	3	Annual	137	American sand lance	0			
1985	3	Annual	139	Fourspot flounder	18	18	11	60.8

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1985	3	Annual	140	Atlantic mackerel	0			
1985	3	Annual	141	Black sea bass	26	26	17	67
1985	3	Annual	142	Smallmouth flounder	0			
1985	3	Annual	143	Rock gunnel	0			
1985	3	Annual	144	Inshore lizardfish	0			
1985	3	Annual	146	Silver lamprey	0			
1985	3	Annual	150	Goby family	0			
1985	3	Annual	157	New World silverside family	0			
1985	3	Annual	159	Sand flounder family	27	27	13	47.5
1985	3	Annual	161	Pipefish family	0			
1985	3	Annual	162	Mackerel scad	0			
1985	3	Annual	164	Cunner	9	9	8	89.4
1985	3	Annual	169	Gray snapper	38	38	18	47.6
1985	3	Annual	172	Bigeye scad	0			
1985	3	Annual	173	Striped burrfish	0			
1985	3	Annual	177	Spotfin butterflyfish	0			
1985	3	Annual	179	Planehead filefish	0			
1985	3	Annual	180	Atlantic cutlassfish	0			
1985	3	Annual	181	Pigfish	7	7	6	86
1985	3	Annual	184	Freckled blenny	0			
1985	3	Annual	187	Margined madtom	0			
1985	3	Annual	205	Freshwater drum	0			
1985	3	Annual	206	King mackerel	0			
1985	3	Annual	209	Highfin goby	0			
1985	3	Annual	213	Oyster toadfish	0			
1985	3	Annual	754	Blue crab	511	511		
1985	3	Annual	999	All fish taxa	361,370.00	361,372	42,108	11.7
1986	2	Annual	1	Alewife	2,025	2,026	287	14.1
1986	2	Annual	2	Bay anchovy	85,494	85,495	13,536	15.8
1986	2	Annual	3	American shad	6,423	6,423	1,725	26.8
1986	2	Annual	4	Bluefish	4,044	4,044	1,841	45.5
1986	2	Annual	5	Bluegill	1,328	1,328	267	20.1
1986	2	Annual	6	Brown bullhead	215	215	51	23.6
1986	2	Annual	7	Pumpkinseed	2,988	2,989	345	11.5
1986	2	Annual	8	Black crappie	15	15	3	23.1
1986	2	Annual	9	Common carp	62	62	9	14.6
1986	2	Annual	10	American eel	2,201	2,202	390	17.7
1986	2	Annual	11	Goldfish	27	27	5	19.2
1986	2	Annual	12	Golden shiner	68	68	27	40.2
1986	2	Annual	13	Hogchoker	50,452	50,452	12,443	24.7

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1986	2	Annual	14	Tessellated darter	156	156	18	11.8
1986	2	Annual	15	Banded killifish	3,528	3,527	503	14.2
1986	2	Annual	16	Emerald shiner	0			
1986	2	Annual	17	Largemouth bass	70	69	26	37.3
1986	2	Annual	18	Mummichog	6	6	2	39
1986	2	Annual	19	Atlantic menhaden	6,371	6,370	1,514	23.8
1986	2	Annual	21	Chain pickerel	0			
1986	2	Annual	22	Blueback herring	7,219	7,219	749	10.4
1986	2	Annual	23	White sucker	0			
1986	2	Annual	24	Atlantic silverside	35	35	5	15.4
1986	2	Annual	25	Rainbow smelt	10,880	10,879	2,416	22.2
1986	2	Annual	26	Smallmouth bass	0			
1986	2	Annual	27	Shortnose sturgeon	0.00			
1986	2	Annual	28	Spottail shiner	591	591	59	10
1986	2	Annual	29	Atlantic sturgeon	5.54			
1986	2	Annual	30	Striped bass	8,417	8,417	1,443	17.1
1986	2	Annual	31	Fourspine stickleback	199	199	79	39.5
1986	2	Annual	32	Atlantic tomcod	117,378	117,378	59,354	50.6
1986	2	Annual	34	White catfish	2,399	2,399	203	8.4
1986	2	Annual	35	White perch	409,604	409,605	41,703	10.2
1986	2	Annual	36	Yellow perch	369	369	84	22.8
1986	2	Annual	37	Satinfin shiner	0			
1986	2	Annual	38	Rock bass	0			
1986	2	Annual	39	Northern pipefish	71	72	33	46.1
1986	2	Annual	40	Redbreast sunfish	317	317	105	33
1986	2	Annual	41	Atlantic needlefish	30	30	27	89.8
1986	2	Annual	42	Crevalle jack	77	77	14	18.3
1986	2	Annual	45	Weakfish	6,591	6,592	2,429	36.8
1986	2	Annual	47	Common shiner	0			
1986	2	Annual	49	Lookdown	44	44	24	54.5
1986	2	Annual	50	Herring family	344	344	253	73.7
1986	2	Annual	54	Lined seahorse	0			
1986	2	Annual	55	Logperch	70	70	35	50
1986	2	Annual	58	Fathead minnow	0			
1986	2	Annual	59	Carp and minnow family	0			
1986	2	Annual	60	Morone species	0			
1986	2	Annual	62	Tautog	0			
1986	2	Annual	63	Fourbeard rockling	0			
1986	2	Annual	64	Striped cusk-eel	0			
1986	2	Annual	67	Spot	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1986	2	Annual	68	Atlantic moonfish	0			
1986	2	Annual	71	Scup	0			
1986	2	Annual	72	Winter flounder	32	32	24	73.9
1986	2	Annual	73	Inland silverside	42	42	25	58.2
1986	2	Annual	74	Sea lamprey	38	39	25	63.8
1986	2	Annual	75	Gizzard shad	1,773	1,773	281	15.9
1986	2	Annual	76	Silver hake	0			
1986	2	Annual	77	Striped mullet	6	6	2	39
1986	2	Annual	78	Threespine stickleback	25	25	9	36
1986	2	Annual	79	Brown trout	0			
1986	2	Annual	80	Butterfish	136	136	56	41.1
1986	2	Annual	81	White crappie	0			
1986	2	Annual	83	Northern pike	3	3	2	56.7
1986	2	Annual	84	Green sunfish	0			
1986	2	Annual	85	Silver perch	0			
1986	2	Annual	86	Northern puffer	0			
1986	2	Annual	96	Sunfish family	0			
1986	2	Annual	98	Red hake	0			
1986	2	Annual	100	Central mudminnow	0			
1986	2	Annual	101	Grubby	0			
1986	2	Annual	102	Eastern mudminnow	0			
1986	2	Annual	103	White bass	0			
1986	2	Annual	104	Rough silverside	26	26	23	89.8
1986	2	Annual	105	Longear sunfish	0			
1986	2	Annual	106	Summer flounder	4,404	4,404	899	20.4
1986	2	Annual	108	Creek chub	0			
1986	2	Annual	109	Black bullhead	0			
1986	2	Annual	110	Striped searobin	3	3	2	50
1986	2	Annual	111	Northern searobin	0			
1986	2	Annual	113	Atlantic croaker	30	30	24	82
1986	2	Annual	114	Longhorn sculpin	0			
1986	2	Annual	116	Hickory shad	26	26	24	89.8
1986	2	Annual	120	Conger eel	0			
1986	2	Annual	122	Warmouth	0			
1986	2	Annual	125	White mullet	0			
1986	2	Annual	126	Yellow bullhead	0			
1986	2	Annual	127	Channel catfish	0			
1986	2	Annual	130	Naked goby	87	87	9	10.5
1986	2	Annual	132	Windowpane	0			
1986	2	Annual	133	Spotted hake	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1986	2	Annual	136	Northern stargazer	0			
1986	2	Annual	137	American sand lance	0			
1986	2	Annual	139	Fourspot flounder	0			
1986	2	Annual	140	Atlantic mackerel	0			
1986	2	Annual	141	Black sea bass	10	10	3	28.4
1986	2	Annual	142	Smallmouth flounder	0			
1986	2	Annual	143	Rock gunnel	0			
1986	2	Annual	144	Inshore lizardfish	0			
1986	2	Annual	146	Silver lamprey	3	3	2	50
1986	2	Annual	150	Goby family	0			
1986	2	Annual	157	New World silverside family	26	26	23	89.8
1986	2	Annual	159	Sand flounder family	0			
1986	2	Annual	161	Pipefish family	0			
1986	2	Annual	162	Mackerel scad	0			
1986	2	Annual	164	Cunner	0			
1986	2	Annual	169	Gray snapper	4	4	2	50
1986	2	Annual	172	Bigeye scad	0			
1986	2	Annual	173	Striped burrfish	0			
1986	2	Annual	177	Spotfin butterflyfish	0			
1986	2	Annual	179	Planehead filefish	0			
1986	2	Annual	180	Atlantic cutlassfish	0			
1986	2	Annual	181	Pigfish	0			
1986	2	Annual	184	Freckled blenny	0			
1986	2	Annual	187	Margined madtom	0			
1986	2	Annual	205	Freshwater drum	0			
1986	2	Annual	206	King mackerel	0			
1986	2	Annual	209	Highfin goby	0			
1986	2	Annual	213	Oyster toadfish	3	3	2	50
1986	2	Annual	754	Blue crab	4,430	4,430		
1986	2	Annual	999	All fish taxa	736,796.54	736,821	90,035	12.2
1986	3	Annual	1	Alewife	1,416	1,416	212	15
1986	3	Annual	2	Bay anchovy	16,665	16,665	3,639	21.8
1986	3	Annual	3	American shad	4,903	4,904	1,273	26
1986	3	Annual	4	Bluefish	1,515	1,515	425	28
1986	3	Annual	5	Bluegill	232	232	46	20
1986	3	Annual	6	Brown bullhead	99	100	19	19.4
1986	3	Annual	7	Pumpkinseed	1,182	1,182	124	10.5
1986	3	Annual	8	Black crappie	46	46	12	25.4
1986	3	Annual	9	Common carp	64	64	16	24.5
1986	3	Annual	10	American eel	574	575	62	10.7

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1986	3	Annual	11	Goldfish	61	61	14	22.6
1986	3	Annual	12	Golden shiner	130	130	29	22.6
1986	3	Annual	13	Hogchoker	22,876	22,875	6,236	27.3
1986	3	Annual	14	Tessellated darter	0			
1986	3	Annual	15	Banded killifish	269	269	48	17.9
1986	3	Annual	16	Emerald shiner	0			
1986	3	Annual	17	Largemouth bass	20	20	7	35.2
1986	3	Annual	18	Mummichog	12	12	8	64.6
1986	3	Annual	19	Atlantic menhaden	3,297	3,296	889	27
1986	3	Annual	21	Chain pickerel	0			
1986	3	Annual	22	Blueback herring	10,640	10,640	2,228	20.9
1986	3	Annual	23	White sucker	4	4	3	78.2
1986	3	Annual	24	Atlantic silverside	27	27	10	36.8
1986	3	Annual	25	Rainbow smelt	2,776	2,776	1,001	36
1986	3	Annual	26	Smallmouth bass	17	17	10	60.9
1986	3	Annual	27	Shortnose sturgeon	0.00			
1986	3	Annual	28	Spottail shiner	663	663	102	15.4
1986	3	Annual	29	Atlantic sturgeon	5.79			
1986	3	Annual	30	Striped bass	2,306	2,305	323	14
1986	3	Annual	31	Fourspine stickleback	7	7	6	87.8
1986	3	Annual	32	Atlantic tomcod	13,602	13,602	3,181	23.4
1986	3	Annual	34	White catfish	1,079	1,078	120	11.1
1986	3	Annual	35	White perch	259,986	259,986	26,294	10.1
1986	3	Annual	36	Yellow perch	187	187	49	26.4
1986	3	Annual	37	Satinfin shiner	0			
1986	3	Annual	38	Rock bass	0			
1986	3	Annual	39	Northern pipefish	46	46	20	44.5
1986	3	Annual	40	Redbreast sunfish	11	12	7	59.1
1986	3	Annual	41	Atlantic needlefish	6	6	5	81.4
1986	3	Annual	42	Crevalle jack	100	100	28	28.1
1986	3	Annual	45	Weakfish	1,802	1,802	581	32.2
1986	3	Annual	47	Common shiner	0			
1986	3	Annual	49	Lookdown	12	12	7	58.7
1986	3	Annual	50	Herring family	24	24	21	87.8
1986	3	Annual	54	Lined seahorse	7	7	6	87.8
1986	3	Annual	55	Logperch	0			
1986	3	Annual	58	Fathead minnow	0			
1986	3	Annual	59	Carp and minnow family	0			
1986	3	Annual	60	Morone species	4	4	3	78.2
1986	3	Annual	62	Tautog	8	8	7	87.8

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1986	3	Annual	63	Fourbeard rockling	0			
1986	3	Annual	64	Striped cusk-eel	0			
1986	3	Annual	67	Spot	0			
1986	3	Annual	68	Atlantic moonfish	6	6	5	84.7
1986	3	Annual	71	Scup	0			
1986	3	Annual	72	Winter flounder	11	11	5	43.8
1986	3	Annual	73	Inland silverside	28	28	12	43
1986	3	Annual	74	Sea lamprey	4	4	3	78.2
1986	3	Annual	75	Gizzard shad	7,735	7,735	2,235	28.9
1986	3	Annual	76	Silver hake	0			
1986	3	Annual	77	Striped mullet	4	4	3	78.2
1986	3	Annual	78	Threespine stickleback	118	118	33	27.6
1986	3	Annual	79	Brown trout	0			
1986	3	Annual	80	Butterfish	87	87	29	33.5
1986	3	Annual	81	White crappie	0			
1986	3	Annual	83	Northern pike	0			
1986	3	Annual	84	Green sunfish	0			
1986	3	Annual	85	Silver perch	0			
1986	3	Annual	86	Northern puffer	0			
1986	3	Annual	96	Sunfish family	0			
1986	3	Annual	98	Red hake	110	109	52	47.9
1986	3	Annual	100	Central mudminnow	0			
1986	3	Annual	101	Grubby	0			
1986	3	Annual	102	Eastern mudminnow	0			
1986	3	Annual	103	White bass	0			
1986	3	Annual	104	Rough silverside	0			
1986	3	Annual	105	Longear sunfish	0			
1986	3	Annual	106	Summer flounder	316	316	66	20.9
1986	3	Annual	108	Creek chub	0			
1986	3	Annual	109	Black bullhead	0			
1986	3	Annual	110	Striped searobin	6	6	5	84.7
1986	3	Annual	111	Northern searobin	7	7	6	87.8
1986	3	Annual	113	Atlantic croaker	21	20	15	73.3
1986	3	Annual	114	Longhorn sculpin	0			
1986	3	Annual	116	Hickory shad	6	6	5	81.4
1986	3	Annual	120	Conger eel	0			
1986	3	Annual	122	Warmouth	0			
1986	3	Annual	125	White mullet	0			
1986	3	Annual	126	Yellow bullhead	0			
1986	3	Annual	127	Channel catfish	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1986	3	Annual	130	Naked goby	0			
1986	3	Annual	132	Windowpane	0			
1986	3	Annual	133	Spotted hake	12	12	7	56.6
1986	3	Annual	136	Northern stargazer	0			
1986	3	Annual	137	American sand lance	0			
1986	3	Annual	139	Fourspot flounder	0			
1986	3	Annual	140	Atlantic mackerel	0			
1986	3	Annual	141	Black sea bass	0			
1986	3	Annual	142	Smallmouth flounder	0			
1986	3	Annual	143	Rock gunnel	0			
1986	3	Annual	144	Inshore lizardfish	0			
1986	3	Annual	146	Silver lamprey	0			
1986	3	Annual	150	Goby family	0			
1986	3	Annual	157	New World silverside family	0			
1986	3	Annual	159	Sand flounder family	0			
1986	3	Annual	161	Pipefish family	0			
1986	3	Annual	162	Mackerel scad	0			
1986	3	Annual	164	Cunner	0			
1986	3	Annual	169	Gray snapper	0			
1986	3	Annual	172	Bigeye scad	0			
1986	3	Annual	173	Striped burrfish	0			
1986	3	Annual	177	Spotfin butterflyfish	0			
1986	3	Annual	179	Planehead filefish	0			
1986	3	Annual	180	Atlantic cutlassfish	0			
1986	3	Annual	181	Pigfish	0			
1986	3	Annual	184	Freckled blenny	0			
1986	3	Annual	187	Margined madtom	0			
1986	3	Annual	205	Freshwater drum	0			
1986	3	Annual	206	King mackerel	0			
1986	3	Annual	209	Highfin goby	0			
1986	3	Annual	213	Oyster toadfish	0			
1986	3	Annual	754	Blue crab	775	775		
1986	3	Annual	999	All fish taxa	355,146.79	355,145	30,014	8.5
1987	2	Annual	1	Alewife	3,562	3,562	539	15.1
1987	2	Annual	2	Bay anchovy	24,786	24,786	9,503	38.3
1987	2	Annual	3	American shad	2,639	2,639	833	31.6
1987	2	Annual	4	Bluefish	6,028	6,028	2,245	37.2
1987	2	Annual	5	Bluegill	813	813	333	41
1987	2	Annual	6	Brown bullhead	243	243	90	37
1987	2	Annual	7	Pumpkinseed	1,117	1,117	202	18.1

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1987	2	Annual	8	Black crappie	218	218	135	61.9
1987	2	Annual	9	Common carp	11	11	10	90.9
1987	2	Annual	10	American eel	4,241	4,241	713	16.8
1987	2	Annual	11	Goldfish	79	79	27	34.2
1987	2	Annual	12	Golden shiner	123	123	43	35
1987	2	Annual	13	Hogchoker	34,818	34,818	7,106	20.4
1987	2	Annual	14	Tessellated darter	289	289	101	34.9
1987	2	Annual	15	Banded killifish	2,067	2,067	655	31.7
1987	2	Annual	16	Emerald shiner	0			
1987	2	Annual	17	Largemouth bass	10	10	7	70
1987	2	Annual	18	Mummichog	152	152	102	67.1
1987	2	Annual	19	Atlantic menhaden	800	800	298	37.2
1987	2	Annual	21	Chain pickerel	0			
1987	2	Annual	22	Blueback herring	35,259	35,259	16,190	45.9
1987	2	Annual	23	White sucker	0			
1987	2	Annual	24	Atlantic silverside	24	24	9	37.5
1987	2	Annual	25	Rainbow smelt	7,280	7,280	2,064	28.4
1987	2	Annual	26	Smallmouth bass	66	66	55	83.3
1987	2	Annual	27	Shortnose sturgeon	4.11			
1987	2	Annual	28	Spottail shiner	2,198	2,198	429	19.5
1987	2	Annual	29	Atlantic sturgeon	6.01			
1987	2	Annual	30	Striped bass	24,879	24,879	6,039	24.3
1987	2	Annual	31	Fourspine stickleback	598	598	258	43.1
1987	2	Annual	32	Atlantic tomcod	684,568	684,568	358,694	52.4
1987	2	Annual	34	White catfish	1,480	1,480	206	13.9
1987	2	Annual	35	White perch	432,422	432,422	59,284	13.7
1987	2	Annual	36	Yellow perch	350	350	70	20
1987	2	Annual	37	Satinfin shiner	0			
1987	2	Annual	38	Rock bass	167	167	95	56.9
1987	2	Annual	39	Northern pipefish	276	276	98	35.5
1987	2	Annual	40	Redbreast sunfish	4	4	3	75
1987	2	Annual	41	Atlantic needlefish	0			
1987	2	Annual	42	Crevalle jack	0	0	0	0
1987	2	Annual	45	Weakfish	2,688	2,688	960	35.7
1987	2	Annual	47	Common shiner	0			
1987	2	Annual	49	Lookdown	0	0	0	
1987	2	Annual	50	Herring family	50	50	47	94
1987	2	Annual	54	Lined seahorse	0			
1987	2	Annual	55	Logperch	0			
1987	2	Annual	58	Fathead minnow	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1987	2	Annual	59	Carp and minnow family	0			
1987	2	Annual	60	Morone species	0			
1987	2	Annual	62	Tautog	0	0	0	0
1987	2	Annual	63	Fourbeard rockling	0	0	0	0
1987	2	Annual	64	Striped cusk-eel	34	34	33	97.1
1987	2	Annual	67	Spot	0			
1987	2	Annual	68	Atlantic moonfish	0			
1987	2	Annual	71	Scup	0			
1987	2	Annual	72	Winter flounder	478	478	267	55.9
1987	2	Annual	73	Inland silverside	4	4	2	50
1987	2	Annual	74	Sea lamprey	0			
1987	2	Annual	75	Gizzard shad	280	280	78	27.9
1987	2	Annual	76	Silver hake	68	68	65	95.6
1987	2	Annual	77	Striped mullet	0			
1987	2	Annual	78	Threespine stickleback	583	583	157	26.9
1987	2	Annual	79	Brown trout	34	34	33	97.1
1987	2	Annual	80	Butterfish	624	624	145	23.2
1987	2	Annual	81	White crappie	84	84	51	60.7
1987	2	Annual	83	Northern pike	0			
1987	2	Annual	84	Green sunfish	0	0	0	0
1987	2	Annual	85	Silver perch	0			
1987	2	Annual	86	Northern puffer	0			
1987	2	Annual	96	Sunfish family	0	0	0	0
1987	2	Annual	98	Red hake	11	11	7	63.6
1987	2	Annual	100	Central mudminnow	0			
1987	2	Annual	101	Grubby	0			
1987	2	Annual	102	Eastern mudminnow	54	54	32	59.3
1987	2	Annual	103	White bass	0			
1987	2	Annual	104	Rough silverside	0			
1987	2	Annual	105	Longear sunfish	0			
1987	2	Annual	106	Summer flounder	25	25	24	96
1987	2	Annual	108	Creek chub	0			
1987	2	Annual	109	Black bullhead	0	0	0	0
1987	2	Annual	110	Striped searobin	0	0	0	0
1987	2	Annual	111	Northern searobin	0			
1987	2	Annual	113	Atlantic croaker	0			
1987	2	Annual	114	Longhorn sculpin	0			
1987	2	Annual	116	Hickory shad	0	0	0	0
1987	2	Annual	120	Conger eel	0			
1987	2	Annual	122	Warmouth	61	61	21	34.4

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1987	2	Annual	125	White mullet	0			
1987	2	Annual	126	Yellow bullhead	25	25	24	96
1987	2	Annual	127	Channel catfish	0			
1987	2	Annual	130	Naked goby	114	114	62	54.4
1987	2	Annual	132	Windowpane	34	34	33	97.1
1987	2	Annual	133	Spotted hake	0			
1987	2	Annual	136	Northern stargazer	0			
1987	2	Annual	137	American sand lance	0			
1987	2	Annual	139	Fourspot flounder	0			
1987	2	Annual	140	Atlantic mackerel	0			
1987	2	Annual	141	Black sea bass	0			
1987	2	Annual	142	Smallmouth flounder	0			
1987	2	Annual	143	Rock gunnel	0			
1987	2	Annual	144	Inshore lizardfish	0			
1987	2	Annual	146	Silver lamprey	0			
1987	2	Annual	150	Goby family	0			
1987	2	Annual	157	New World silverside family	0			
1987	2	Annual	159	Sand flounder family	0			
1987	2	Annual	161	Pipefish family	0			
1987	2	Annual	162	Mackerel scad	0			
1987	2	Annual	164	Cunner	34	34	33	97.1
1987	2	Annual	169	Gray snapper	0			
1987	2	Annual	172	Bigeye scad	0			
1987	2	Annual	173	Striped burrfish	0			
1987	2	Annual	177	Spotfin butterflyfish	0			
1987	2	Annual	179	Planehead filefish	0			
1987	2	Annual	180	Atlantic cutlassfish	0			
1987	2	Annual	181	Pigfish	0			
1987	2	Annual	184	Freckled blenny	0			
1987	2	Annual	187	Margined madtom	0			
1987	2	Annual	205	Freshwater drum	0			
1987	2	Annual	206	King mackerel	0			
1987	2	Annual	209	Highfin goby	0			
1987	2	Annual	213	Oyster toadfish	0			
1987	2	Annual	754	Blue crab	971	971		
1987	2	Annual	999	All fish taxa	1,276,862.12	1,276,856	365,006	28.6
1987	3	Annual	1	Alewife	1,166	1,166	211	18.1
1987	3	Annual	2	Bay anchovy	6,082	6,082	1,375	22.6
1987	3	Annual	3	American shad	1,730	1,730	363	21
1987	3	Annual	4	Bluefish	745	745	125	16.8

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1987	3	Annual	5	Bluegill	316	316	80	25.3
1987	3	Annual	6	Brown bullhead	43	43	12	27.9
1987	3	Annual	7	Pumpkinseed	787	787	146	18.6
1987	3	Annual	8	Black crappie	17	17	8	47.1
1987	3	Annual	9	Common carp	31	31	11	35.5
1987	3	Annual	10	American eel	259	259	31	12
1987	3	Annual	11	Goldfish	54	54	14	25.9
1987	3	Annual	12	Golden shiner	38	38	9	23.7
1987	3	Annual	13	Hogchoker	9,585	9,585	1,736	18.1
1987	3	Annual	14	Tessellated darter	7	7	4	57.1
1987	3	Annual	15	Banded killifish	449	449	109	24.3
1987	3	Annual	16	Emerald shiner	0			
1987	3	Annual	17	Largemouth bass	29	29	11	37.9
1987	3	Annual	18	Mummichog	0	0	0	0
1987	3	Annual	19	Atlantic menhaden	146	146	24	16.4
1987	3	Annual	21	Chain pickerel	0			
1987	3	Annual	22	Blueback herring	62,467	62,467	16,666	26.7
1987	3	Annual	23	White sucker	0			
1987	3	Annual	24	Atlantic silverside	17	17	6	35.3
1987	3	Annual	25	Rainbow smelt	1,782	1,782	339	19
1987	3	Annual	26	Smallmouth bass	0	0	0	0
1987	3	Annual	27	Shortnose sturgeon	1.63			
1987	3	Annual	28	Spottail shiner	421	421	49	11.6
1987	3	Annual	29	Atlantic sturgeon	1.79			
1987	3	Annual	30	Striped bass	3,794	3,794	428	11.3
1987	3	Annual	31	Fourspine stickleback	57	57	12	21.1
1987	3	Annual	32	Atlantic tomcod	1,097	1,097	147	13.4
1987	3	Annual	34	White catfish	887	887	132	14.9
1987	3	Annual	35	White perch	168,015	168,015	18,877	11.2
1987	3	Annual	36	Yellow perch	98	98	17	17.3
1987	3	Annual	37	Satinfin shiner	0			
1987	3	Annual	38	Rock bass	3	3	2	66.7
1987	3	Annual	39	Northern pipefish	53	53	14	26.4
1987	3	Annual	40	Redbreast sunfish	16	16	8	50
1987	3	Annual	41	Atlantic needlefish	0			
1987	3	Annual	42	Crevalle jack	133	133	54	40.6
1987	3	Annual	45	Weakfish	310	310	109	35.2
1987	3	Annual	47	Common shiner	0			
1987	3	Annual	49	Lookdown	8	8	7	87.5
1987	3	Annual	50	Herring family	0	0	0	0

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1987	3	Annual	54	Lined seahorse	0			
1987	3	Annual	55	Logperch	0			
1987	3	Annual	58	Fathead minnow	0			
1987	3	Annual	59	Carp and minnow family	0			
1987	3	Annual	60	Morone species	0			
1987	3	Annual	62	Tautog	8	8	7	87.5
1987	3	Annual	63	Fourbeard rockling	4	4	3	75
1987	3	Annual	64	Striped cusk-eel	0	0	0	0
1987	3	Annual	67	Spot	0			
1987	3	Annual	68	Atlantic moonfish	0			
1987	3	Annual	71	Scup	0			
1987	3	Annual	72	Winter flounder	12	12	4	33.3
1987	3	Annual	73	Inland silverside	3	3	2	66.7
1987	3	Annual	74	Sea lamprey	0			
1987	3	Annual	75	Gizzard shad	1,056	1,056	211	20
1987	3	Annual	76	Silver hake	0	0	0	0
1987	3	Annual	77	Striped mullet	0			
1987	3	Annual	78	Threespine stickleback	242	242	41	16.9
1987	3	Annual	79	Brown trout	3	3	2	66.7
1987	3	Annual	80	Butterfish	86	86	27	31.4
1987	3	Annual	81	White crappie	94	94	34	36.2
1987	3	Annual	83	Northern pike	0			
1987	3	Annual	84	Green sunfish	70	70	38	54.3
1987	3	Annual	85	Silver perch	0			
1987	3	Annual	86	Northern puffer	0			
1987	3	Annual	96	Sunfish family	3	3	2	66.7
1987	3	Annual	98	Red hake	15	15	10	66.7
1987	3	Annual	100	Central mudminnow	0			
1987	3	Annual	101	Grubby	0			
1987	3	Annual	102	Eastern mudminnow	8	8	7	87.5
1987	3	Annual	103	White bass	0			
1987	3	Annual	104	Rough silverside	0			
1987	3	Annual	105	Longear sunfish	0			
1987	3	Annual	106	Summer flounder	6	6	3	50
1987	3	Annual	108	Creek chub	0			
1987	3	Annual	109	Black bullhead	3	3	2	66.7
1987	3	Annual	110	Striped searobin	19	19	12	63.2
1987	3	Annual	111	Northern searobin	0			
1987	3	Annual	113	Atlantic croaker	0			
1987	3	Annual	114	Longhorn sculpin	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1987	3	Annual	116	Hickory shad	3	3	2	66.7
1987	3	Annual	120	Conger eel	0			
1987	3	Annual	122	Warmouth	23	23	11	47.8
1987	3	Annual	125	White mullet	0			
1987	3	Annual	126	Yellow bullhead	0	0	0	0
1987	3	Annual	127	Channel catfish	0			
1987	3	Annual	130	Naked goby	0	0	0	0
1987	3	Annual	132	Windowpane	0	0	0	0
1987	3	Annual	133	Spotted hake	0			
1987	3	Annual	136	Northern stargazer	0			
1987	3	Annual	137	American sand lance	0			
1987	3	Annual	139	Fourspot flounder	0			
1987	3	Annual	140	Atlantic mackerel	0			
1987	3	Annual	141	Black sea bass	0			
1987	3	Annual	142	Smallmouth flounder	0			
1987	3	Annual	143	Rock gunnel	0			
1987	3	Annual	144	Inshore lizardfish	0			
1987	3	Annual	146	Silver lamprey	0			
1987	3	Annual	150	Goby family	0			
1987	3	Annual	157	New World silverside family	0			
1987	3	Annual	159	Sand flounder family	0			
1987	3	Annual	161	Pipefish family	0			
1987	3	Annual	162	Mackerel scad	0			
1987	3	Annual	164	Cunner	0	0	0	0
1987	3	Annual	169	Gray snapper	0			
1987	3	Annual	172	Bigeye scad	0			
1987	3	Annual	173	Striped burrfish	0			
1987	3	Annual	177	Spotfin butterflyfish	0			
1987	3	Annual	179	Planehead filefish	0			
1987	3	Annual	180	Atlantic cutlassfish	0			
1987	3	Annual	181	Pigfish	0			
1987	3	Annual	184	Freckled blenny	0			
1987	3	Annual	187	Margined madtom	0			
1987	3	Annual	205	Freshwater drum	0			
1987	3	Annual	206	King mackerel	0			
1987	3	Annual	209	Highfin goby	0			
1987	3	Annual	213	Oyster toadfish	0			
1987	3	Annual	754	Blue crab	987	987		
1987	3	Annual	999	All fish taxa	262,303.42	262,306	27,280	10.4
1988	2	Annual	1	Alewife	1,345	1,345	208	15.5

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1988	2	Annual	2	Bay anchovy	31,224	31,224	12,865	41.2
1988	2	Annual	3	American shad	356	356	91	25.6
1988	2	Annual	4	Bluefish	3,156	3,156	1,370	43.4
1988	2	Annual	5	Bluegill	1,156	1,156	167	14.4
1988	2	Annual	6	Brown bullhead	90	90	34	37.8
1988	2	Annual	7	Pumpkinseed	1,243	1,243	153	12.3
1988	2	Annual	8	Black crappie	3	3	1	33.3
1988	2	Annual	9	Common carp	0			
1988	2	Annual	10	American eel	2,881	2,881	779	27
1988	2	Annual	11	Goldfish	86	86	32	37.2
1988	2	Annual	12	Golden shiner	99	99	23	23.2
1988	2	Annual	13	Hogchoker	72,516	72,516	19,633	27.1
1988	2	Annual	14	Tessellated darter	210	210	24	11.4
1988	2	Annual	15	Banded killifish	858	858	115	13.4
1988	2	Annual	16	Emerald shiner	0			
1988	2	Annual	17	Largemouth bass	6	6	2	33.3
1988	2	Annual	18	Mummichog	3	3	1	33.3
1988	2	Annual	19	Atlantic menhaden	162	162	133	82.1
1988	2	Annual	21	Chain pickerel	0			
1988	2	Annual	22	Blueback herring	23,696	23,696	2,660	11.2
1988	2	Annual	23	White sucker	30	30	29	96.7
1988	2	Annual	24	Atlantic silverside	270	270	46	17
1988	2	Annual	25	Rainbow smelt	5,651	5,651	3,288	58.2
1988	2	Annual	26	Smallmouth bass	0			
1988	2	Annual	27	Shortnose sturgeon	7.02			
1988	2	Annual	28	Spottail shiner	1,275	1,275	228	17.9
1988	2	Annual	29	Atlantic sturgeon	2.11			
1988	2	Annual	30	Striped bass	70,969	70,969	9,926	14
1988	2	Annual	31	Fourspine stickleback	0			
1988	2	Annual	32	Atlantic tomcod	9,800	9,800	4,225	43.1
1988	2	Annual	34	White catfish	5,547	5,547	1,238	22.3
1988	2	Annual	35	White perch	658,798	658,798	58,095	8.8
1988	2	Annual	36	Yellow perch	234	234	49	20.9
1988	2	Annual	37	Satinfin shiner	0			
1988	2	Annual	38	Rock bass	0			
1988	2	Annual	39	Northern pipefish	734	734	128	17.4
1988	2	Annual	40	Redbreast sunfish	3	3	1	33.3
1988	2	Annual	41	Atlantic needlefish	0	0	0	0
1988	2	Annual	42	Crevalle jack	369	369	158	42.8
1988	2	Annual	45	Weakfish	22,276	22,276	9,580	43

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1988	2	Annual	47	Common shiner	0			
1988	2	Annual	49	Lookdown	81	81	13	16
1988	2	Annual	50	Herring family	0			
1988	2	Annual	54	Lined seahorse	4	4	2	50
1988	2	Annual	55	Logperch	0			
1988	2	Annual	58	Fathead minnow	0			
1988	2	Annual	59	Carp and minnow family	0			
1988	2	Annual	60	Morone species	0			
1988	2	Annual	62	Tautog	51	51	48	94.1
1988	2	Annual	63	Fourbeard rockling	0	0	0	0
1988	2	Annual	64	Striped cusk-eel	30	30	29	96.7
1988	2	Annual	67	Spot	351	351	267	76.1
1988	2	Annual	68	Atlantic moonfish	8	8	3	37.5
1988	2	Annual	71	Scup	4	4	3	75
1988	2	Annual	72	Winter flounder	59	59	33	55.9
1988	2	Annual	73	Inland silverside	38	38	10	26.3
1988	2	Annual	74	Sea lamprey	7	7	3	42.9
1988	2	Annual	75	Gizzard shad	3,739	3,739	1	34.8
1988	2	Annual	76	Silver hake	48	48	12	25
1988	2	Annual	77	Striped mullet	0			
1988	2	Annual	78	Threespine stickleback	1,437	1,437	233	16.2
1988	2	Annual	79	Brown trout	0			
1988	2	Annual	80	Butterfish	390	390	72	18.5
1988	2	Annual	81	White crappie	17	17	7	41.2
1988	2	Annual	83	Northern pike	0			
1988	2	Annual	84	Green sunfish	0			
1988	2	Annual	85	Silver perch	0			
1988	2	Annual	86	Northern puffer	0			
1988	2	Annual	96	Sunfish family	0			
1988	2	Annual	98	Red hake	100	100	53	53
1988	2	Annual	100	Central mudminnow	0			
1988	2	Annual	101	Grubby	30	30	29	96.7
1988	2	Annual	102	Eastern mudminnow	29	29	24	82.8
1988	2	Annual	103	White bass	0			
1988	2	Annual	104	Rough silverside	0			
1988	2	Annual	105	Longear sunfish	0	0	0	0
1988	2	Annual	106	Summer flounder	183	183	72	39.3
1988	2	Annual	108	Creek chub	0			
1988	2	Annual	109	Black bullhead	0			
1988	2	Annual	110	Striped searobin	114	114	14	12.3

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1988	2	Annual	111	Northern searobin	50	50	47	94
1988	2	Annual	113	Atlantic croaker	0			
1988	2	Annual	114	Longhorn sculpin	0			
1988	2	Annual	116	Hickory shad	0			
1988	2	Annual	120	Conger eel	0			
1988	2	Annual	122	Warmouth	14	14	4	28.6
1988	2	Annual	125	White mullet	0			
1988	2	Annual	126	Yellow bullhead	0			
1988	2	Annual	127	Channel catfish	0			
1988	2	Annual	130	Naked goby	135	135	46	34.1
1988	2	Annual	132	Windowpane	217	217	50	23
1988	2	Annual	133	Spotted hake	1,186	1,186	821	69.2
1988	2	Annual	136	Northern stargazer	88	88	53	60.2
1988	2	Annual	137	American sand lance	3	3	1	33.3
1988	2	Annual	139	Fourspot flounder	8	8	3	37.5
1988	2	Annual	140	Atlantic mackerel	0			
1988	2	Annual	141	Black sea bass	8	8	3	37.5
1988	2	Annual	142	Smallmouth flounder	0			
1988	2	Annual	143	Rock gunnel	0			
1988	2	Annual	144	Inshore lizardfish	0			
1988	2	Annual	146	Silver lamprey	0			
1988	2	Annual	150	Goby family	0			
1988	2	Annual	157	New World silverside family	0			
1988	2	Annual	159	Sand flounder family	0			
1988	2	Annual	161	Pipefish family	0			
1988	2	Annual	162	Mackerel scad	0			
1988	2	Annual	164	Cunner	58	58	30	51.7
1988	2	Annual	169	Gray snapper	0			
1988	2	Annual	172	Bigeye scad	0			
1988	2	Annual	173	Striped burrfish	0			
1988	2	Annual	177	Spotfin butterflyfish	0			
1988	2	Annual	179	Planehead filefish	0			
1988	2	Annual	180	Atlantic cutlassfish	0			
1988	2	Annual	181	Pigfish	0			
1988	2	Annual	184	Freckled blenny	0			
1988	2	Annual	187	Margined madtom	0			
1988	2	Annual	205	Freshwater drum	0			
1988	2	Annual	206	King mackerel	0			
1988	2	Annual	209	Highfin goby	0			
1988	2	Annual	213	Oyster toadfish	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1988	2	Annual	754	Blue crab	41,363	41,363		
1988	2	Annual	999	All fish taxa	923,542.13	923,533	79,907	8.7
1988	3	Annual	1	Alewife	698	698	113	16.2
1988	3	Annual	2	Bay anchovy	4,219	4,219	835	19.8
1988	3	Annual	3	American shad	148	148	31	20.9
1988	3	Annual	4	Bluefish	510	510	81	15.9
1988	3	Annual	5	Bluegill	75	75	24	32
1988	3	Annual	6	Brown bullhead	32	32	12	37.5
1988	3	Annual	7	Pumpkinseed	228	228	36	15.8
1988	3	Annual	8	Black crappie	5	5	3	60
1988	3	Annual	9	Common carp	0			
1988	3	Annual	10	American eel	247	247	47	19
1988	3	Annual	11	Goldfish	37	37	11	29.7
1988	3	Annual	12	Golden shiner	42	42	11	26.2
1988	3	Annual	13	Hogchoker	13,969	13,969	3,932	28.1
1988	3	Annual	14	Tessellated darter	0	0	0	0
1988	3	Annual	15	Banded killifish	44	44	13	29.5
1988	3	Annual	16	Emerald shiner	0			
1988	3	Annual	17	Largemouth bass	26	26	11	42.3
1988	3	Annual	18	Mummichog	0	0	0	
1988	3	Annual	19	Atlantic menhaden	27	27	12	44.4
1988	3	Annual	21	Chain pickerel	0			
1988	3	Annual	22	Blueback herring	2,608	2,608	358	13.7
1988	3	Annual	23	White sucker	0	0	0	0
1988	3	Annual	24	Atlantic silverside	11	11	7	63.6
1988	3	Annual	25	Rainbow smelt	1,713	1,713	356	20.8
1988	3	Annual	26	Smallmouth bass	0			
1988	3	Annual	27	Shortnose sturgeon	2.02			
1988	3	Annual	28	Spottail shiner	401	401	65	16.2
1988	3	Annual	29	Atlantic sturgeon	0.00			
1988	3	Annual	30	Striped bass	16,089	16,089	2,681	16.7
1988	3	Annual	31	Fourspine stickleback	0			
1988	3	Annual	32	Atlantic tomcod	8,807	8,807	2,148	24.4
1988	3	Annual	34	White catfish	1,345	1,345	142	10.6
1988	3	Annual	35	White perch	144,555	144,555	13,345	9.2
1988	3	Annual	36	Yellow perch	24	24	7	29.2
1988	3	Annual	37	Satinfin shiner	0			
1988	3	Annual	38	Rock bass	0			
1988	3	Annual	39	Northern pipefish	79	79	19	24.1
1988	3	Annual	40	Redbreast sunfish	0	0	0	0

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1988	3	Annual	41	Atlantic needlefish	6	6	5	83.3
1988	3	Annual	42	Crevalle jack	27	27	11	40.7
1988	3	Annual	45	Weakfish	3,394	3,394	915	27
1988	3	Annual	47	Common shiner	0			
1988	3	Annual	49	Lookdown	6	6	5	83.3
1988	3	Annual	50	Herring family	0			
1988	3	Annual	54	Lined seahorse	0	0	0	0
1988	3	Annual	55	Logperch	0			
1988	3	Annual	58	Fathead minnow	0			
1988	3	Annual	59	Carp and minnow family	0			
1988	3	Annual	60	Morone species	0			
1988	3	Annual	62	Tautog	23	23	11	47.8
1988	3	Annual	63	Fourbeard rockling	9	9	5	55.6
1988	3	Annual	64	Striped cusk-eel	8	8	7	87.5
1988	3	Annual	67	Spot	18	18	8	44.4
1988	3	Annual	68	Atlantic moonfish	0	0	0	0
1988	3	Annual	71	Scup	0	0	0	0
1988	3	Annual	72	Winter flounder	11	11	7	63.6
1988	3	Annual	73	Inland silverside	0	0	0	0
1988	3	Annual	74	Sea lamprey	0	0	0	0
1988	3	Annual	75	Gizzard shad	11,551	11,551	1,995	17.3
1988	3	Annual	76	Silver hake	0	0	0	0
1988	3	Annual	77	Striped mullet	0			
1988	3	Annual	78	Threespine stickleback	190	190	38	20
1988	3	Annual	79	Brown trout	0			
1988	3	Annual	80	Butterfish	269	269	83	30.9
1988	3	Annual	81	White crappie	23	23	9	39.1
1988	3	Annual	83	Northern pike	0			
1988	3	Annual	84	Green sunfish	0			
1988	3	Annual	85	Silver perch	0			
1988	3	Annual	86	Northern puffer	0			
1988	3	Annual	96	Sunfish family	0			
1988	3	Annual	98	Red hake	37	37	13	35.1
1988	3	Annual	100	Central mudminnow	0			
1988	3	Annual	101	Grubby	0	0	0	0
1988	3	Annual	102	Eastern mudminnow	17	17	8	47.1
1988	3	Annual	103	White bass	0			
1988	3	Annual	104	Rough silverside	0			
1988	3	Annual	105	Longear sunfish	8	8	7	87.5
1988	3	Annual	106	Summer flounder	51	51	17	33.3

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1988	3	Annual	108	Creek chub	0			
1988	3	Annual	109	Black bullhead	0			
1988	3	Annual	110	Striped searobin	0	0	0	0
1988	3	Annual	111	Northern searobin	0	0	0	0
1988	3	Annual	113	Atlantic croaker	0			
1988	3	Annual	114	Longhorn sculpin	0			
1988	3	Annual	116	Hickory shad	0			
1988	3	Annual	120	Conger eel	0			
1988	3	Annual	122	Warmouth	0	0	0	0
1988	3	Annual	125	White mullet	0			
1988	3	Annual	126	Yellow bullhead	0			
1988	3	Annual	127	Channel catfish	0			
1988	3	Annual	130	Naked goby	0	0	0	0
1988	3	Annual	132	Windowpane	21	21	10	47.6
1988	3	Annual	133	Spotted hake	415	415	170	41
1988	3	Annual	136	Northern stargazer	6	6	5	83.3
1988	3	Annual	137	American sand lance	0	0	0	0
1988	3	Annual	139	Fourspot flounder	0	0	0	0
1988	3	Annual	140	Atlantic mackerel	0			
1988	3	Annual	141	Black sea bass	0	0	0	0
1988	3	Annual	142	Smallmouth flounder	0			
1988	3	Annual	143	Rock gunnel	0			
1988	3	Annual	144	Inshore lizardfish	0			
1988	3	Annual	146	Silver lamprey	0			
1988	3	Annual	150	Goby family	0			
1988	3	Annual	157	New World silverside family	0			
1988	3	Annual	159	Sand flounder family	0			
1988	3	Annual	161	Pipefish family	0			
1988	3	Annual	162	Mackerel scad	0			
1988	3	Annual	164	Cunner	8	8	7	87.5
1988	3	Annual	169	Gray snapper	0			
1988	3	Annual	172	Bigeye scad	0			
1988	3	Annual	173	Striped burrfish	0			
1988	3	Annual	177	Spotfin butterflyfish	0			
1988	3	Annual	179	Planehead filefish	0			
1988	3	Annual	180	Atlantic cutlassfish	0			
1988	3	Annual	181	Pigfish	0			
1988	3	Annual	184	Freckled blenny	0			
1988	3	Annual	187	Margined madtom	0			
1988	3	Annual	205	Freshwater drum	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1988	3	Annual	206	King mackerel	0			
1988	3	Annual	209	Highfin goby	0			
1988	3	Annual	213	Oyster toadfish	0			
1988	3	Annual	754	Blue crab	15,233	15,233		
1988	3	Annual	999	All fish taxa	212,039.02	212,043	17,612	8.3
1989	2	Annual	1	Alewife	84	584	164	28.1
1989	2	Annual	2	Bay anchovy	1,496	1,496	259	17.3
1989	2	Annual	3	American shad	3,438	3,438	622	18.1
1989	2	Annual	4	Bluefish	627	627	251	40
1989	2	Annual	5	Bluegill	1,246	1,246	264	21.2
1989	2	Annual	6	Brown bullhead	299	299	92	30.8
1989	2	Annual	7	Pumpkinseed	1,816	1,816	246	13.5
1989	2	Annual	8	Black crappie	32	32	7	21.9
1989	2	Annual	9	Common carp	32	32	2	37.5
1989	2	Annual	10	American eel	1,294	1,294	160	12.4
1989	2	Annual	11	Goldfish	206	206	44	21.4
1989	2	Annual	12	Golden shiner	104	104	46	44.2
1989	2	Annual	13	Hogchoker	86,877	86,877	26,329	30.3
1989	2	Annual	14	Tessellated darter	287	287	55	19.2
1989	2	Annual	15	Banded killifish	1,988	1,988	473	23.8
1989	2	Annual	16	Emerald shiner	0			
1989	2	Annual	17	Largemouth bass	69	69	44	63.8
1989	2	Annual	18	Mummichog	22	22	12	54.5
1989	2	Annual	19	Atlantic menhaden	159	159	139	87.4
1989	2	Annual	21	Chain pickerel	3	3	2	66.7
1989	2	Annual	22	Blueback herring	23,233	23,233	3,481	15
1989	2	Annual	23	White sucker	4	4	2	50
1989	2	Annual	24	Atlantic silverside	0			
1989	2	Annual	25	Rainbow smelt	306	306	66	21.6
1989	2	Annual	26	Smallmouth bass	0			
1989	2	Annual	27	Shortnose sturgeon	0.00			
1989	2	Annual	28	Spottail shiner	3,509	3,809	676	17.7
1989	2	Annual	29	Atlantic sturgeon	0.00			
1989	2	Annual	30	Striped bass	21,047	21,047	2,841	13.5
1989	2	Annual	31	Fourspine stickleback	19	19	9	47.4
1989	2	Annual	32	Atlantic tomcod	6,082	6,082	714	11.7
1989	2	Annual	34	White catfish	9,516	9,516	689	7.2
1989	2	Annual	35	White perch	601,345	601,345	45,795	7.8
1989	2	Annual	36	Yellow perch	674	674	179	26.6
1989	2	Annual	37	Satinfin shiner	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1989	2	Annual	38	Rock bass	0			
1989	2	Annual	39	Northern pipefish	0			
1989	2	Annual	40	Redbreast sunfish	133	133	49	36.8
1989	2	Annual	41	Atlantic needlefish	0			
1989	2	Annual	42	Crevalle jack	103	103	61	59.2
1989	2	Annual	45	Weakfish	6,127	6,127	2,219	36.2
1989	2	Annual	47	Common shiner	0			
1989	2	Annual	49	Lookdown	0			
1989	2	Annual	50	Herring family	103	103	51	49.5
1989	2	Annual	54	Lined seahorse	0			
1989	2	Annual	55	Loggerhead	0			
1989	2	Annual	58	Fathead minnow	0			
1989	2	Annual	59	Carp and minnow family	0			
1989	2	Annual	60	Morone species	0			
1989	2	Annual	62	Tautog	10	10	4	40
1989	2	Annual	63	Fourbeard rockling	11	11	7	63.6
1989	2	Annual	64	Striped cusk-eel	0			
1989	2	Annual	67	Spot	0			
1989	2	Annual	68	Atlantic moonfish	4	4	2	50
1989	2	Annual	71	Scup	0			
1989	2	Annual	72	Winter flounder	52	52	9	17.3
1989	2	Annual	73	Inland silverside	30	30	10	33.3
1989	2	Annual	74	Sea lamprey	29	29	14	48.3
1989	2	Annual	75	Gizzard shad	13,140	13,140	3,507	26.7
1989	2	Annual	76	Silver hake	268	268	74	27.6
1989	2	Annual	77	Striped mullet	0			
1989	2	Annual	78	Threespine stickleback	499	499	100	20
1989	2	Annual	79	Brown trout	0			
1989	2	Annual	80	Butterfish	28	28	26	92.9
1989	2	Annual	81	White crappie	3	3	2	66.7
1989	2	Annual	83	Northern pike	0			
1989	2	Annual	84	Green sunfish	0			
1989	2	Annual	85	Silver perch	0			
1989	2	Annual	86	Northern puffer	4	4	2	50
1989	2	Annual	96	Sunfish family	116	116	19	16.4
1989	2	Annual	98	Red hake	286	286	60	21
1989	2	Annual	100	Central mudminnow	0			
1989	2	Annual	101	Grubby	11	11	7	63.6
1989	2	Annual	102	Eastern mudminnow	0			
1989	2	Annual	103	White bass	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1989	2	Annual	104	Rough silverside	0			
1989	2	Annual	105	Longear sunfish	0			
1989	2	Annual	106	Summer flounder	19	19	5	26.3
1989	2	Annual	108	Creek chub	0			
1989	2	Annual	109	Black bullhead	0			
1989	2	Annual	110	Striped searobin	70	70	17	24.3
1989	2	Annual	111	Northern searobin	0			
1989	2	Annual	113	Atlantic croaker	10	10	4	40
1989	2	Annual	114	Longhorn sculpin	0			
1989	2	Annual	116	Hickory shad	0			
1989	2	Annual	120	Conger eel	0			
1989	2	Annual	122	Warmouth	0			
1989	2	Annual	125	White mullet	3	3	2	66.7
1989	2	Annual	126	Yellow bullhead	0			
1989	2	Annual	127	Channel catfish	0			
1989	2	Annual	130	Naked goby	52	52	9	17.3
1989	2	Annual	132	Windowpane	0			
1989	2	Annual	133	Spotted hake	0			
1989	2	Annual	136	Northern stargazer	0			
1989	2	Annual	137	American sand lance	0			
1989	2	Annual	139	Fourspot flounder	0			
1989	2	Annual	140	Atlantic mackerel	0			
1989	2	Annual	141	Black sea bass	0			
1989	2	Annual	142	Smallmouth flounder	0			
1989	2	Annual	143	Rock gunnel	0			
1989	2	Annual	144	Inshore lizardfish	4	4	2	50
1989	2	Annual	146	Silver lamprey	0			
1989	2	Annual	150	Goby family	0			
1989	2	Annual	157	New World silverside family	0			
1989	2	Annual	159	Sand flounder family	0			
1989	2	Annual	161	Pipefish family	0			
1989	2	Annual	162	Mackerel scad	0			
1989	2	Annual	164	Cunner	0			
1989	2	Annual	169	Gray snapper	13	13	4	30.8
1989	2	Annual	172	Bigeye scad	0			
1989	2	Annual	173	Striped burrfish	0			
1989	2	Annual	177	Spotfin butterflyfish	0			
1989	2	Annual	179	Planehead filefish	0			
1989	2	Annual	180	Atlantic cutlassfish	0			
1989	2	Annual	181	Pigfish	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1989	2	Annual	184	Freckled blenny	0			
1989	2	Annual	187	Margined madtom	0			
1989	2	Annual	205	Freshwater drum	25	25	6	24
1989	2	Annual	206	King mackerel	0			
1989	2	Annual	209	Highfin goby	0			
1989	2	Annual	213	Oyster toadfish	0			
1989	2	Annual	754	Blue crab	93,432	93,432		
1989	2	Annual	999	All fish taxa	787,767.00	787,767	60,420	7.7
1989	3	Annual	1	Alewife	860	860	121	14.1
1989	3	Annual	2	Bay anchovy	4,572	4,572	1,205	26.4
1989	3	Annual	3	American shad	5,868	5,868	1,081	18.4
1989	3	Annual	4	Bluefish	605	605	86	14.2
1989	3	Annual	5	Bluegill	524	524	177	33.8
1989	3	Annual	6	Brown bullhead	51	51	15	29.4
1989	3	Annual	7	Pumpkinseed	244	244	39	16
1989	3	Annual	8	Black crappie	12	12	7	58.3
1989	3	Annual	9	Common carp	22	22	12	54.5
1989	3	Annual	10	American eel	215	215	34	15.8
1989	3	Annual	11	Goldfish	50	50	14	28
1989	3	Annual	12	Golden shiner	12	12	8	66.7
1989	3	Annual	13	Hogchoker	34,401	34,401	6,200	18
1989	3	Annual	14	Tessellated darter	32	32	16	50
1989	3	Annual	15	Banded killifish	137	137	26	19
1989	3	Annual	16	Emerald shiner	0			
1989	3	Annual	17	Largemouth bass	14	14	8	57.1
1989	3	Annual	18	Mummichog	0			
1989	3	Annual	19	Atlantic menhaden	89	89	28	31.5
1989	3	Annual	21	Chain pickerel	0			
1989	3	Annual	22	Blueback herring	32,735	32,735	10,818	33
1989	3	Annual	23	White sucker	0			
1989	3	Annual	24	Atlantic silverside	0			
1989	3	Annual	25	Rainbow smelt	84	84	17	20.2
1989	3	Annual	26	Smallmouth bass	0			
1989	3	Annual	27	Shortnose sturgeon	1.82			
1989	3	Annual	28	Spottail shiner	397	397	102	25.7
1989	3	Annual	29	Atlantic sturgeon	0.00			
1989	3	Annual	30	Striped bass	3,747	3,747	499	13.3
1989	3	Annual	31	Fourspine stickleback	2	2	1	50
1989	3	Annual	32	Atlantic tomcod	2,422	2,422	469	19.4
1989	3	Annual	34	White catfish	1,896	1,896	458	24.2

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1989	3	Annual	35	White perch	147,712	147,712	30,301	20.6
1989	3	Annual	36	Yellow perch	63	63	42	66.7
1989	3	Annual	37	Satinfin shiner	0			
1989	3	Annual	38	Rock bass	0			
1989	3	Annual	39	Northern pipefish	18	18	11	61.1
1989	3	Annual	40	Redbreast sunfish	4	4	2	50
1989	3	Annual	41	Atlantic needlefish	0			
1989	3	Annual	42	Crevalle jack	97	97	32	33
1989	3	Annual	45	Weakfish	31,902	31,902	11,151	35
1989	3	Annual	47	Common shiner	0			
1989	3	Annual	49	Lookdown	12	12	10	83.3
1989	3	Annual	50	Herring family	573	573	315	55
1989	3	Annual	54	Lined seahorse	0			
1989	3	Annual	55	Logperch	0			
1989	3	Annual	58	Fathead minnow	0			
1989	3	Annual	59	Carp and minnow family	0			
1989	3	Annual	60	Morone species	0			
1989	3	Annual	62	Tautog	20	20	12	60
1989	3	Annual	63	Fourbeard rockling	0			
1989	3	Annual	64	Striped cusk-eel	0			
1989	3	Annual	67	Spot	2	2	1	50
1989	3	Annual	68	Atlantic moonfish	0			
1989	3	Annual	71	Scup	0			
1989	3	Annual	72	Winter flounder	8	8	7	87.5
1989	3	Annual	73	Inland silverside	6	6	5	83.3
1989	3	Annual	74	Sea lamprey	2	2	1	50
1989	3	Annual	75	Gizzard shad	7,485	7,485	1,117	14.9
1989	3	Annual	76	Silver hake	33	33	16	48.5
1989	3	Annual	77	Striped mullet	0			
1989	3	Annual	78	Threespine stickleback	9	9	5	55.6
1989	3	Annual	79	Brown trout	0			
1989	3	Annual	80	Butterfish	157	157	47	29.9
1989	3	Annual	81	White crappie	0			
1989	3	Annual	83	Northern pike	0			
1989	3	Annual	84	Green sunfish	0			
1989	3	Annual	85	Silver perch	0			
1989	3	Annual	86	Northern puffer	0			
1989	3	Annual	96	Sunfish family	16	16	10	62.5
1989	3	Annual	98	Red hake	70	70	29	41.4
1989	3	Annual	100	Central mudminnow	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1989	3	Annual	101	Grubby	0			
1989	3	Annual	102	Eastern mudminnow	0			
1989	3	Annual	103	White bass	0			
1989	3	Annual	104	Rough silverside	0			
1989	3	Annual	105	Longear sunfish	0			
1989	3	Annual	106	Summer flounder	85	85	22	25.9
1989	3	Annual	108	Creek chub	0			
1989	3	Annual	109	Black bullhead	0			
1989	3	Annual	110	Striped searobin	56	56	35	62.5
1989	3	Annual	111	Northern searobin	0			
1989	3	Annual	113	Atlantic croaker	8	8	7	87.5
1989	3	Annual	114	Longhorn sculpin	0			
1989	3	Annual	116	Hickory shad	0			
1989	3	Annual	120	Conger eel	0			
1989	3	Annual	122	Warmouth	0			
1989	3	Annual	125	White mullet	0			
1989	3	Annual	126	Yellow bullhead	0			
1989	3	Annual	127	Channel catfish	0			
1989	3	Annual	130	Naked goby	16	16	10	62.5
1989	3	Annual	132	Windowpane	24	24	9	37.5
1989	3	Annual	133	Spotted hake	0			
1989	3	Annual	136	Northern stargazer	0			
1989	3	Annual	137	American sand lance	0			
1989	3	Annual	139	Fourspot flounder	0			
1989	3	Annual	140	Atlantic mackerel	0			
1989	3	Annual	141	Black sea bass	0			
1989	3	Annual	142	Smallmouth flounder	0			
1989	3	Annual	143	Rock gunnel	0			
1989	3	Annual	144	Inshore lizardfish	0			
1989	3	Annual	146	Silver lamprey	0			
1989	3	Annual	150	Goby family	0			
1989	3	Annual	157	New World silverside family	0			
1989	3	Annual	159	Sand flounder family	0			
1989	3	Annual	161	Pipefish family	0			
1989	3	Annual	162	Mackerel scad	0			
1989	3	Annual	164	Cunner	0			
1989	3	Annual	169	Gray snapper	8	8	7	87.5
1989	3	Annual	172	Bigeye scad	0			
1989	3	Annual	173	Striped burrfish	0			
1989	3	Annual	177	Spotfin butterflyfish	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1989	3	Annual	179	Planehead filefish	0			
1989	3	Annual	180	Atlantic cutlassfish	0			
1989	3	Annual	181	Pigfish	0			
1989	3	Annual	184	Freckled blenny	0			
1989	3	Annual	187	Margined madtom	0			
1989	3	Annual	205	Freshwater drum	20	20	10	50
1989	3	Annual	206	King mackerel	6	6	5	83.3
1989	3	Annual	209	Highfin goby	0			
1989	3	Annual	213	Oyster toadfish	0			
1989	3	Annual	754	Blue crab	102,769	102,769		
1989	3	Annual	999	All fish taxa	277,404.82	277,403	33,205	12
1990	2	Annual	1	Alewife	1,103	1,103	221	20
1990	2	Annual	2	Bay anchovy	14,711	14,711	7,030	47.8
1990	2	Annual	3	American shad	1,450	1,450	345	23.8
1990	2	Annual	4	Bluefish	5,805	5,805	1,201	20.7
1990	2	Annual	5	Bluegill	1,390	1,390	415	29.9
1990	2	Annual	6	Brown bullhead	138	138	57	41.3
1990	2	Annual	7	Pumpkinseed	728	728	139	19.1
1990	2	Annual	8	Black crappie	14	14	13	92.9
1990	2	Annual	9	Common carp	44	44	31	70.5
1990	2	Annual	10	American eel	2,184	2,184	601	27.5
1990	2	Annual	11	Goldfish	53	53	28	52.8
1990	2	Annual	12	Golden shiner	104	104	35	33.7
1990	2	Annual	13	Hogchoker	28,022	28,022	4,158	14.8
1990	2	Annual	14	Tessellated darter	100	100	51	51
1990	2	Annual	15	Banded killifish	137	137	62	45.3
1990	2	Annual	16	Emerald shiner	0			
1990	2	Annual	17	Largemouth bass	84	84	79	94
1990	2	Annual	18	Mummichog	0			
1990	2	Annual	19	Atlantic menhaden	748	748	195	26.1
1990	2	Annual	21	Chain pickerel	8	8	7	87.5
1990	2	Annual	22	Blueback herring	17,947	17,947	8,734	48.7
1990	2	Annual	23	White sucker	0			
1990	2	Annual	24	Atlantic silverside	21	21	19	90.5
1990	2	Annual	25	Rainbow smelt	431	431	107	24.8
1990	2	Annual	26	Smallmouth bass	0			
1990	2	Annual	27	Shortnose sturgeon	3.37			
1990	2	Annual	28	Spottail shiner	2,667	2,667	446	16.7
1990	2	Annual	29	Atlantic sturgeon	0.00			
1990	2	Annual	30	Striped bass	19,370	19,370	5,059	26.1

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1990	2	Annual	31	Fourspine stickleback	0			
1990	2	Annual	32	Atlantic tomcod	96,874	96,874	40,485	41.8
1990	2	Annual	34	White catfish	4,299	4,299	683	15.9
1990	2	Annual	35	White perch	622,755	622,755	166,588	26.8
1990	2	Annual	36	Yellow perch	782	782	138	17.6
1990	2	Annual	37	Satinfin shiner	0			
1990	2	Annual	38	Rock bass	0			
1990	2	Annual	39	Northern pipefish	0			
1990	2	Annual	40	Redbreast sunfish	8	8	7	87.5
1990	2	Annual	41	Atlantic needlefish	21	21	19	90.5
1990	2	Annual	42	Crevalle jack	387	387	198	51.2
1990	2	Annual	45	Weakfish	2,898	2,898	1,711	59
1990	2	Annual	47	Common shiner	0			
1990	2	Annual	49	Lookdown	21	21	19	90.5
1990	2	Annual	50	Herring family	327	327	167	51.1
1990	2	Annual	54	Lined seahorse	0			
1990	2	Annual	55	Logperch	0			
1990	2	Annual	58	Fathead minnow	0			
1990	2	Annual	59	Carp and minnow family	0			
1990	2	Annual	60	Morone species,	0			
1990	2	Annual	62	Tautog	0			
1990	2	Annual	63	Fourbeard rockling	0			
1990	2	Annual	64	Striped cusk-eel	0			
1990	2	Annual	67	Spot	0			
1990	2	Annual	68	Atlantic moonfish	0			
1990	2	Annual	71	Scup	0			
1990	2	Annual	72	Winter flounder	44	44	25	56.8
1990	2	Annual	73	Inland silverside	0			
1990	2	Annual	74	Sea lamprey	23	23	11	47.8
1990	2	Annual	75	Gizzard shad	2,915	2,915	1,032	35.4
1990	2	Annual	76	Silver hake	0			
1990	2	Annual	77	Striped mullet	0			
1990	2	Annual	78	Threespine stickleback	135	135	62	45.9
1990	2	Annual	79	Brown trout	0			
1990	2	Annual	80	Butterfish	21	21	19	90.5
1990	2	Annual	81	White crappie	0			
1990	2	Annual	83	Northern pike	0			
1990	2	Annual	84	Green sunfish	0			
1990	2	Annual	85	Silver perch	0			
1990	2	Annual	86	Northern puffer	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1990	2	Annual	96	Sunfish family	0			
1990	2	Annual	98	Red hake	8	8	7	87.5
1990	2	Annual	100	Central mudminnow	0			
1990	2	Annual	101	Grubby	0			
1990	2	Annual	102	Eastern mudminnow	0			
1990	2	Annual	103	White bass	0			
1990	2	Annual	104	Rough silverside	0			
1990	2	Annual	105	Longear sunfish	0			
1990	2	Annual	106	Summer flounder	221	221	76	34.4
1990	2	Annual	108	Creek chub	8	8	7	87.5
1990	2	Annual	109	Black bullhead	0			
1990	2	Annual	110	Striped searobin	23	23	21	91.3
1990	2	Annual	111	Northern searobin	0			
1990	2	Annual	113	Atlantic croaker	0			
1990	2	Annual	114	Longhorn sculpin	0			
1990	2	Annual	116	Hickory shad	0			
1990	2	Annual	120	Conger eel	0			
1990	2	Annual	122	Warmouth	0			
1990	2	Annual	125	White mullet	0			
1990	2	Annual	126	Yellow bullhead	0			
1990	2	Annual	127	Channel catfish	0			
1990	2	Annual	130	Naked goby	37	37	25	67.6
1990	2	Annual	132	Windowpane	61	61	40	65.6
1990	2	Annual	133	Spotted hake	0			
1990	2	Annual	136	Northern stargazer	0			
1990	2	Annual	137	American sand lance	0			
1990	2	Annual	139	Fourspot flounder	0			
1990	2	Annual	140	Atlantic mackerel	0			
1990	2	Annual	141	Black sea bass	0			
1990	2	Annual	142	Smallmouth flounder	0			
1990	2	Annual	143	Rock gunnel	0			
1990	2	Annual	144	Inshore lizardfish	0			
1990	2	Annual	146	Silver lamprey	0			
1990	2	Annual	150	Goby family	0			
1990	2	Annual	157	New World silverside family	0			
1990	2	Annual	159	Sand flounder family	0			
1990	2	Annual	161	Pipefish family	23	23	21	91.3
1990	2	Annual	162	Mackerel scad	0			
1990	2	Annual	164	Cunner	0			
1990	2	Annual	169	Gray snapper	14	14	13	92.9

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1990	2	Annual	172	Bigeye scad	0			
1990	2	Annual	173	Striped burrfish	0			
1990	2	Annual	177	Spotfin butterflyfish	0			
1990	2	Annual	179	Planehead filefish	0			
1990	2	Annual	180	Atlantic cutlassfish	0			
1990	2	Annual	181	Pigfish	0			
1990	2	Annual	184	Freckled blenny	0			
1990	2	Annual	187	Margined madtom	23	23	15	65.2
1990	2	Annual	205	Freshwater drum	38	38	36	94.7
1990	2	Annual	206	King mackerel	0			
1990	2	Annual	209	Highfin goby	14	14	13	92.9
1990	2	Annual	213	Oyster toadfish	0			
1990	2	Annual	754	Blue crab	23,665	23,664		
1990	2	Annual	999	All fish taxa	829,242.37	829,239	181,800	21.9
1990	3	Annual	1	Alewife	897	897	167	18.6
1990	3	Annual	2	Bay anchovy	6,947	6,947	989	14.2
1990	3	Annual	3	American shad	1,568	1,568	316	20.2
1990	3	Annual	4	Bluefish	3,028	3,028	733	24.2
1990	3	Annual	5	Bluegill	66	66	18	27.3
1990	3	Annual	6	Brown bullhead	77	77	26	33.8
1990	3	Annual	7	Pumpkinseed	133	133	35	26.3
1990	3	Annual	8	Black crappie	0			
1990	3	Annual	9	Common carp	3	3	2	66.7
1990	3	Annual	10	American eel	297	297	57	19.2
1990	3	Annual	11	Goldfish	51	51	16	31.4
1990	3	Annual	12	Golden shiner	66	66	24	36.4
1990	3	Annual	13	Hogchoker	12,213	12,213	1,513	12.4
1990	3	Annual	14	Tessellated darter	29	29	15	51.7
1990	3	Annual	15	Banded killifish	19	19	9	47.4
1990	3	Annual	16	Emerald shiner	0			
1990	3	Annual	17	Largemouth bass	37	37	14	37.8
1990	3	Annual	18	Mummichog	0			
1990	3	Annual	19	Atlantic menhaden	387	387	64	16.5
1990	3	Annual	21	Chain pickerel	8	8	4	50
1990	3	Annual	22	Blueback herring	2,767	2,767	625	22.6
1990	3	Annual	23	White sucker	0			
1990	3	Annual	24	Atlantic silverside	3	3	2	66.7
1990	3	Annual	25	Rainbow smelt	891	891	345	38.7
1990	3	Annual	26	Smallmouth bass	3	3	2	66.7
1990	3	Annual	27	Shortnose sturgeon	0.00			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1990	3	Annual	28	Spottail shiner	444	444	65	14.6
1990	3	Annual	29	Atlantic sturgeon	3.08			
1990	3	Annual	30	Striped bass	2,611	2,611	427	16.4
1990	3	Annual	31	Fourspine stickleback	0			
1990	3	Annual	32	Atlantic tomcod	25,036	25,036	6,468	25.8
1990	3	Annual	34	White catfish	946	946	88	9.3
1990	3	Annual	35	White perch	172,491	172,491	27,565	16
1990	3	Annual	36	Yellow perch	44	44	15	34.1
1990	3	Annual	37	Satinfin shiner	0			
1990	3	Annual	38	Rock bass	0			
1990	3	Annual	39	Northern pipefish	0			
1990	3	Annual	40	Redbreast sunfish	6	6	5	83.3
1990	3	Annual	41	Atlantic needlefish	0			
1990	3	Annual	42	Crevalle jack	94	94	30	31.9
1990	3	Annual	45	Weakfish	1,477	1,477	342	23.2
1990	3	Annual	47	Common shiner	0			
1990	3	Annual	49	Lookdown	0			
1990	3	Annual	50	Herring family	279	279	89	31.9
1990	3	Annual	54	Lined seahorse	0			
1990	3	Annual	55	Logperch	0			
1990	3	Annual	58	Fathead minnow	0			
1990	3	Annual	59	Carp and minnow family	0			
1990	3	Annual	60	Morone species	0			
1990	3	Annual	62	Tautog	0			
1990	3	Annual	63	Fourbeard rockling	0			
1990	3	Annual	64	Striped cusk-eel	0			
1990	3	Annual	67	Spot	18	18	10	55.6
1990	3	Annual	68	Atlantic moonfish	0			
1990	3	Annual	71	Scup	0			
1990	3	Annual	72	Winter flounder	14	14	7	50
1990	3	Annual	73	Inland silverside	0			
1990	3	Annual	74	Sea lamprey	0			
1990	3	Annual	75	Gizzard shad	3,031	3,031	799	26.4
1990	3	Annual	76	Silver hake	0			
1990	3	Annual	77	Striped mullet	0			
1990	3	Annual	78	Threespine stickleback	50	50	17	34
1990	3	Annual	79	Brown trout	0			
1990	3	Annual	80	Butterfish	686	686	218	31.8
1990	3	Annual	81	White crappie	0			
1990	3	Annual	83	Northern pike	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1990	3	Annual	84	Green sunfish	0			
1990	3	Annual	85	Silver perch	0			
1990	3	Annual	86	Northern puffer	0			
1990	3	Annual	96	Sunfish family	6	6	5	83.3
1990	3	Annual	98	Red hake	11	11	5	45.5
1990	3	Annual	100	Central mudminnow	0			
1990	3	Annual	101	Grubby	0			
1990	3	Annual	102	Eastern mudminnow	0			
1990	3	Annual	103	White bass	0			
1990	3	Annual	104	Rough silverside	0			
1990	3	Annual	105	Longear sunfish	0			
1990	3	Annual	106	Summer flounder	141	141	37	26.2
1990	3	Annual	108	Creek chub	0			
1990	3	Annual	109	Black bullhead	0			
1990	3	Annual	110	Striped searobin	0			
1990	3	Annual	111	Northern searobin	6	6	5	83.3
1990	3	Annual	113	Atlantic croaker	0			
1990	3	Annual	114	Longhorn sculpin	0			
1990	3	Annual	116	Hickory shad	6	6	5	83.3
1990	3	Annual	120	Conger eel	0			
1990	3	Annual	122	Warmouth	0			
1990	3	Annual	125	White mullet	0			
1990	3	Annual	126	Yellow bullhead	0			
1990	3	Annual	127	Channel catfish	6	6	4	66.7
1990	3	Annual	130	Naked goby	0			
1990	3	Annual	132	Windowpane	225	225	86	38.2
1990	3	Annual	133	Spotted hake	0			
1990	3	Annual	136	Northern stargazer	6	6	5	83.3
1990	3	Annual	137	American sand lance	0			
1990	3	Annual	139	Fourspot flounder	0			
1990	3	Annual	140	Atlantic mackerel	0			
1990	3	Annual	141	Black sea bass	0			
1990	3	Annual	142	Smallmouth flounder	0			
1990	3	Annual	143	Rock gunnel	0			
1990	3	Annual	144	Inshore lizardfish	0			
1990	3	Annual	146	Silver lamprey	0			
1990	3	Annual	150	Goby family	53	53	43	81.1
1990	3	Annual	157	New World silverside family	0			
1990	3	Annual	159	Sand flounder family	0			
1990	3	Annual	161	Pipefish family	0			

Annual 1981-1990 Indian Point Impingement Estimates by Year and Unit

Year	Unit	Strata	Taxon	Common_Name	EstComb	Tabled_Total	SEComb	CV
1990	3	Annual	162	Mackerel scad	0			
1990	3	Annual	164	Cunner	0			
1990	3	Annual	169	Gray snapper	0			
1990	3	Annual	172	Bigeye scad	0			
1990	3	Annual	173	Striped burrfish	0			
1990	3	Annual	177	Spotfin butterflyfish	0			
1990	3	Annual	179	Planehead filefish	0			
1990	3	Annual	180	Atlantic cutlassfish	0			
1990	3	Annual	181	Pigfish	0			
1990	3	Annual	184	Freckled blenny	0			
1990	3	Annual	187	Margined madtom	3	3	2	66.7
1990	3	Annual	205	Freshwater drum	0			
1990	3	Annual	206	King mackerel	0			
1990	3	Annual	209	Highfin goby	0			
1990	3	Annual	213	Oyster toadfish	0			
1990	3	Annual	754	Blue crab	27,139	27,139		
1990	3	Annual	999	All fish taxa	237,183.08	237,180	30,267	12.8

**1981-1990 Indian Point Impingement Sampling Design
and Volumes by Year and Unit**

1981-1990 Indian Point Impingement Sampling Design and Volumes by Year and Unit

Year	Unit	Strata	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating_Days	Operating_Volume (10 ⁶ m ³)	Start_date	End_date
1981	2	Winter	51		51	28.1		
1981	2	Spring	71		71	178.2		
1981	2	Summer	10		70	308.3		
1981	2	Fall	59		84	245.4		
1981	2	Annual	191		276	760		
1981	3	Winter	77		77	143.5		
1981	3	Spring	91		91	299.3		
1981	3	Summer	25		84	310		
1981	3	Fall	26		45	103.9		
1981	3	Annual	219		297	856.7		
1982	2	Winter	30	79.1	90	251.17	3-Jan-82	29-Mar-82
1982	2	Spring	10	43.8	91	332.39	27-Apr-82	30-Jun-82
1982	2	Summer	11	43.73	92	387.94	3-Jul-82	23-Sep-82
1982	2	Fall	12	8.52	31	21.35	1-Oct-82	28-Oct-82
1982	2	Annual	63	175.15	304	992.85	3-Jan-82	28-Oct-82
1982	3	Winter	27	68.05	90	234.23	3-Jan-82	29-Mar-82
1982	3	Spring	1	0.46	10	1.8	1-Apr-82	1-Apr-82
1982	3	Summer	0	0	5	0.85		
1982	3	Fall	8	6.08	30	11.76	26-Oct-82	7-Nov-82
1982	3	Annual	36	74.59	135	248.64	3-Jan-82	7-Nov-82
1983	2	Winter	30	62.55	84	199.07	3-Jan-83	29-Mar-83
1983	2	Spring	10	39.75	91	361.17	3-Apr-83	28-Jun-83
1983	2	Summer	11	51.55	92	428.41	4-Jul-83	27-Sep-83
1983	2	Fall	60	165.42	73	214.21	3-Oct-83	31-Dec-83
1983	2	Annual	111	319.27	340	1202.86	3-Jan-83	31-Dec-83
1983	3	Winter	0	0	0	0		
1983	3	Spring	18	38.52	33	71.55	5-Jun-83	28-Jun-83
1983	3	Summer	4	3.04	15	11.85	3-Jul-83	9-Jul-83
1983	3	Fall	0	0	0	0		
1983	3	Annual	22	41.56	48	83.4	5-Jun-83	9-Jul-83
1984	2	Winter	30	73.5	81	215.4	3-Jan-84	25-Mar-84
1984	2	Spring	10	34.5	64	212.9	5-Apr-84	2-Jun-84
1984	2	Summer	0	0	9	3.2		
1984	2	Fall	51	100.7	84	194.7	14-Oct-84	30-Dec-84
1984	2	Annual	91	208.7	238	626.2	3-Jan-84	30-Dec-84
1984	3	Winter	27	70.5	66	156.6	28-Jan-84	30-Mar-84
1984	3	Spring	18	69.2	91	355.3	5-Apr-84	21-Jun-84
1984	3	Summer	31	128.3	92	413.8	2-Jul-84	21-Sep-84
1984	3	Fall	34	77.2	57	147.5	6-Oct-84	31-Dec-84

1981-1990 Indian Point Impingement Sampling Design and Volumes by Year and Unit

Year	Unit	Strata	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating_Days	Operating_Volume (10 ⁶ m ³)	Start_date	End_date
1984	3	Annual	110	345.2	306	1073.2	28-Jan-84	31-Dec-84
1985	2	Winter	82	219.36	90	252.9	3-Jan-85	31-Mar-85
1985	2	Spring	61	196.53	91	316.07	1-Apr-85	30-Jun-85
1985	2	Summer	84	351.44	91	397.31	1-Jul-85	30-Sep-85
1985	2	Fall	92	281.92	92	293.3	1-Oct-85	31-Dec-85
1985	2	Annual	319	1049.25	364	1259.58	3-Jan-85	31-Dec-85
1985	3	Winter	35	89.7	90	248.88	4-Jan-85	31-Mar-85
1985	3	Spring	39	128.54	70	213.47	1-Apr-85	7-Jun-85
1985	3	Summer	4	5.28	14	15.6	27-Sep-85	30-Sep-85
1985	3	Fall	31	66.96	92	218.63	1-Oct-85	31-Dec-85
1985	3	Annual	109	290.48	266	696.58	4-Jan-85	31-Dec-85
1986	2	Winter	19	28.84	28	50.96	2-Jan-86	31-Mar-86
1986	2	Spring	9	31.25	73	185.17	3-May-86	30-Jun-86
1986	2	Summer	11	51.84	92	421.61	14-Jul-86	23-Sep-86
1986	2	Fall	69	201.52	92	286.21	2-Oct-86	30-Dec-86
1986	2	Annual	108	313.45	285	943.95	2-Jan-86	30-Dec-86
1986	3	Winter	35	82.97	90	224.09	2-Jan-86	30-Mar-86
1986	3	Spring	19	48.24	83	224.79	2-Apr-86	30-Jun-86
1986	3	Summer	31	66.69	92	193.41	4-Jul-86	30-Sep-86
1986	3	Fall	26	80.97	92	296.61	2-Oct-86	30-Dec-86
1986	3	Annual	111	278.87	357	938.9	2-Jan-86	30-Dec-86
1987	2	Winter	23	59.74	86	231.3	2-Jan-87	26-Mar-87
1987	2	Spring	8	23.04	91	312.76	2-Apr-87	20-Jun-87
1987	2	Summer	11	47.73	92	424.14	19-Jul-87	30-Sep-87
1987	2	Fall	52	54.38	77	74.51	1-Oct-87	18-Dec-87
1987	2	Annual	94	184.89	346	1042.71	2-Jan-87	18-Dec-87
1987	3	Winter	35	88.46	90	249.2	1-Jan-87	30-Mar-87
1987	3	Spring	20	50.5	34	87.9	2-Apr-87	2-May-87
1987	3	Summer	31	90.63	49	136.15	20-Aug-87	27-Sep-87
1987	3	Fall	24	82.06	92	298.17	1-Oct-87	23-Dec-87
1987	3	Annual	110	311.65	265	771.42	1-Jan-87	23-Dec-87
1988	2	Winter	23	56.05	82	208.66	12-Jan-88	23-Mar-88
1988	2	Spring	9	25.77	91	291.49	28-Apr-88	6-Jun-88
1988	2	Summer	11	44.54	92	387	6-Jul-88	27-Sep-88
1988	2	Fall	65	204.53	92	298.47	4-Oct-88	23-Dec-88
1988	2	Annual	108	330.89	357	1185.62	12-Jan-88	23-Dec-88
1988	3	Winter	35	89.67	91	250.81	7-Jan-88	28-Mar-88
1988	3	Spring	20	62.4	77	256.31	28-Apr-88	19-Jun-88
1988	3	Summer	31	139.67	92	432.08	3-Jul-88	27-Sep-88

1981-1990 Indian Point Impingement Sampling Design and Volumes by Year and Unit

Year	Unit	Strata	Sample_Days	Sample_Volume (10 ⁶ m ³)	Operating_Days	Operating_Volume (10 ⁶ m ³)	Start_date	End_date
1988	3	Fall	24	38.96	92	197.19	3-Oct-88	6-Dec-88
1988	3	Annual	110	330.7	352	1136.39	7-Jan-88	6-Dec-88
1989	2	Winter	23	60.38	87	214.74	5-Jan-89	20-Mar-89
1989	2	Spring	0	0	31	29.75		
1989	2	Summer	10	42.37	92	412.42	10-Jul-89	19-Sep-89
1989	2	Fall	63	177.73	92	262.05	2-Oct-89	31-Dec-89
1989	2	Annual	96	280.48	302	918.96	5-Jan-89	31-Dec-89
1989	3	Winter	20	41.77	43	92.38	2-Jan-89	10-Feb-89
1989	3	Spring	0	0	74	54.92		
1989	3	Summer	31	135.59	92	412.71	2-Jul-89	25-Sep-89
1989	3	Fall	23	60.06	92	269.46	8-Oct-89	31-Dec-89
1989	3	Annual	74	237.42	301	829.47	2-Jan-89	31-Dec-89
1990	2	Winter	12	32.21	90	185.17	9-Jan-90	13-Feb-90
1990	2	Spring	6	19.02	91	134.04	14-May-90	30-Jun-90
1990	2	Summer	12	52.12	92	399.49	2-Jul-90	26-Sep-90
1990	2	Fall	14	41.44	92	300.64	2-Oct-90	29-Dec-90
1990	2	Annual	44	144.79	365	1019.34	9-Jan-90	29-Dec-90
1990	3	Winter	28	61.26	77	182.58	8-Jan-90	29-Mar-90
1990	3	Spring	21	62	91	303.42	3-Apr-90	28-Jun-90
1990	3	Summer	29	123.83	85	357.11	5-Jul-90	13-Sep-90
1990	3	Fall	0	0	19	36.67		
1990	3	Annual	78	247.09	272	879.78	8-Jan-90	13-Sep-90