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INDIAN POINT GENERATING STATION ENTRAINMENT AND NEAR FIELD RIVER STUDIES

1977 ANNUAL REPORT

Consolidated Edison Company of New York, Inc.

4 IRVING PLACE
NEW YORK, NEW YORK 10003

and

Power Authority of the State of New York

10 COLUMBUS CIRCLE
NEW YORK, NEW YORK 10019

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Prepared for:

Consolidated Edison Company of New York, Inc.
4 Irving Place
New York, New York 10003

and

Power Authority of the State of New York
10 Columbus Circle
New York, New York 10019

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December 1980

CONTENTS

	Page
CHAPTER 1: INTRODUCTION	1-1
CHAPTER 2: SITE DESCRIPTION	
2.1 The River	2-1
2.2 The Plant	2-1
CHAPTER 3: METHODS	
3.1 Near Field River Study	3-1
3.1.1 Sampling Stations	3-1
3.1.2 Sampling Procedures	3-1
3.1.2.1 Microzooplankton	3-1
3.1.2.2 Macrozooplankton and Ichthyoplankton	3-1
3.1.2.3 Water Quality Measurements	3-4
3.1.3 Analytical Procedures	3-4
3.2 Entrainment Abundance Study	3-5
3.2.1 Sampling Stations	3-5
3.2.2 Sampling Procedures	3-5
3.2.2.1 Sample Collection	3-5
3.2.2.2 Sample Sorting and Processing	3-8
3.2.2.3 Water Quality Measurements	3-8
3.2.3 Analytical Procedures	3-8
3.3 River Transect Study	3-10
3.3.1 Sampling Procedures	3-10
3.3.2 Analytical Procedures	3-12
REFERENCES	
Appendix A. Water Quality Data, Entrainment and Near Field River Studies, Indian Point Generating Station, 1977	
Appendix B. Taxa Occurrence at Standard River Stations, Indian Point Generating Station, 1971-1979	
Appendix C. Abundance of Selected Taxa Collected at Standard River Stations, Indian Point Generating Station, 1977	

Appendix D. Seasonal Abundance of Selected Taxa Collected at Standard River Stations, Indian Point Generating Station, 1977

Appendix E. Entrainment Abundance of Striped Bass Early Developmental Stages, Indian Point Generating Station, 1977

Appendix F. Seasonal Entrainment Abundance of Striped Bass Early Developmental Stages, Indian Point Generating Station, 1977

Appendix G. Entrainment Abundance of Selected Macrozooplankton Taxa, Indian Point Generating Station, 1977

Appendix H. Seasonal Entrainment Abundance of Selected Macrozooplankton Taxa, Indian Point Generating Station, 1977

Appendix I. Abundance of Striped Bass Early Developmental Stages at River Transect Stations, Indian Point Generating Station, 1977

Appendix J. Seasonal Abundance of Striped Bass Early Developmental Stages at River Transect Stations, Indian Point Generating Station, 1977

Appendix K. Length Frequency Distributions for Striped Bass Collected During Entrainment and Near Field River Studies, Indian Point Generating Station, 1977

LIST OF FIGURES

Number	Title
2-1	Location of the Indian Point Generating Station on the Hudson River Estuary.
2-2	Diagram of the Indian Point Generating Station circulating water system.
2-3	Indian Point Generating Station discharge structure.
3-1	River standard station sampling locations in the vicinity of the Indian Point Generating Station.
3-2	Diagram of the Indian Point Generating Station circulating water system showing location of sampling stations.
3-3	Stationary net sampling apparatus used to collect samples at Stations I2, I3, and D1 during the entrainment abundance study conducted at the Indian Point Generating Station, 1977.
3-4	River transect station locations in the vicinity of the Indian Point Generating Station, 1977.

LIST OF TABLES

Number	Title
2-1	Average calculated transit times for cooling water during full flow operation of Indian Point Generating Station--Units 1, 2, and 3 operating individually and simultaneously.
2-2	Estimated mean flow velocities at various locations in the Indian Point condenser cooling water system.
2-3	Predicted temperature rise of condenser cooling water at Unit 2, Indian Point Generating Station.
2-4	Predicted temperature rise of condenser cooling water at Unit 3, Indian Point Generating Station.
2-5	Circulating water flow at Unit 1, Indian Point Generating Station, 1977.
2-6	Circulating water flow at Unit 2, Indian Point Generating Station, 1977.
2-7	Circulating water flow at Unit 3, Indian Point Generating Station, 1977.
3-1	Sampling schedule for microzooplankton, macrozooplankton, and ichthyoplankton collections at standard stations in the vicinity of the Indian Point Generating Station, 1977.
3-2	Sampling dates, sampling stations, and unit operation during the 1978 entrainment abundance study at the Indian Point Generating Station, 1977.

1. INTRODUCTION

The 1977 entrainment and near field studies described herein represent the continuation of a research program conducted from 1971 through 1976, designed to evaluate the effects of the Indian Point plant on Hudson River organisms subject to entrainment. The scope of the 1977 research consisted of three principal study efforts: the near field river study, the entrainment abundance study, and the river transect study. The objectives of these study efforts were as follows:

1. The near-field river study was conducted to define the species composition, abundance, and distribution of microzooplankton, macrozooplankton, and ichthyoplankton in the vicinity of the Indian Point plant. Plankton tows were conducted at seven standard stations in the Hudson River (river miles 40.0-43.7) during the day and at night.
2. The entrainment abundance study was designed to examine diurnal variations in the densities of selected organisms (i.e., striped bass early life stages, and the macrozooplankton taxa Gammarus spp., Neomysis americana, Monoculodes edwardsi, and Chaoborus punctipennis) entrained by the Indian Point plant's cooling water systems. Sampling was conducted using stationary plankton nets located at the plant intakes and discharge canal.
3. The river transect study was designed to provide abundance information on striped bass early life stages in the immediate vicinity of the Indian Point plant for comparison with striped bass abundance data collected at plant intake and discharge stations.

During 1977, emphasis was directed towards applying sampling designs, sampling gear, and collection techniques consistent with those used in previous study years to maintain year-to-year comparability among study efforts. In this regard, plankton nets have remained the primary collection gears throughout this multiyear research program. During previous study years (1971-1976), New York University Medical Center (NYU) conducted all aspects of the study program, including field collection, sample processing, data analysis, and report production (NYU 1973, 1974, 1976(a), 1976(b), 1976(c), 1977, and 1978). However, in 1977, NYU performed all field collections, and laboratory analysis of microzooplankton and macrozooplankton samples, whereas ichthyoplankton sample processing and data tape production were conducted by Lawler, Matusky & Skelly Engineers (LMS). All collection and laboratory sample processing data were then transmitted to Ecological Analysts, Inc. (EA) for data reduction and report preparation. Additional studies were conducted by EA in 1977 to examine the survival of ichthyoplankton entrained through the condenser cooling water system of the Indian Point plant. These studies, which utilized pump/larval table collection systems designed to reduce the effects of velocity differences between plant intake and discharge stations, are described in EA 1978.

The format of this report is such that the site description and material and methods are presented in separate text chapters (Chapters 2 and 3, respectively). Study results are presented as data tables and figures in Appendix A through K, as follows:

- Appendix A contains water chemistry data for all study efforts.
- Appendixes B through D present results of the near field river study, including the occurrence of taxa collected at standard river stations from 1971 through 1977 and densities of selected microzooplankton, macrozooplankton, and ichthyoplankton collected in 1977.
- Appendixes E through H present data relative to the entrainment abundance study, including densities of striped bass (all developmental stages), Gammarus spp., Neomysis americana, Monoculodes edwardsi, and Chaoborus punctipennis collected at plant intake and discharge stations.
- Appendixes I and J provide data pertaining to the river transect study, including densities of striped bass developmental stages collected at the river transect stations, and comparison of these densities with striped bass collected at plant intake and discharge stations.
- Appendix K depicts length-frequency data for striped bass collected during all study efforts.

CHAPTER 2: SITE DESCRIPTION

2.1 THE RIVER

The Indian Point Generating Station is located on the east bank of the Hudson River, between Peekskill and Haverstraw bays, near the town of Buchanan, New York. The plant is 69 river kilometers (43 mi) north of the Battery in New York City (Figure 2-1). In the vicinity of the Indian Point plant, the Hudson River has a surface width of approximately 1,524 m (5,000 ft) and a cross-sectional area of approximately 14,865 m^2 (160,000 ft^2). Within 60 m (200 ft) of the plant, river depths range from about 3 to 12 m (10 to 40 ft) below mean sea level.

Flow rates in this section of the river are controlled predominantly by the tides. Mean tidal flows are on the order of 3,964 m^3 per second (140,000 cfs), whereas freshwater flows typically range from about 156 m^3 per second (5,500 cfs) in August to about 906 m^3 per second (32,000 cfs) in April (Con Edison 1977a, p. 2-1).

Seasonal trends in salinity are controlled primarily by freshwater flow. The salt front (0.1 ppt salinity) generally remains below Indian Point during the months of March, April, and May, when freshwater flows of more than 566 m^3 per second (20,000 cfs) are normally present. During the period of low freshwater flow, (generally July through October [see Table 2-2 in Con Edison 1977a]), the salinity in the vicinity of Indian Point may fluctuate rapidly as a function of tidal stage and height.

Ambient river temperatures in the Indian Point area typically range from 0 to 27 C over the course of a year (see Table 2-3 in Con Edison 1977a).

2.2 THE PLANT

The Indian Point Generating Station consists of three nuclear-fueled electric generating units. Unit 1, owned by Con Edison, has not been operated for commercial production since October 1974, although its circulating water and service water pumps are operated occasionally. Unit 2, owned and operated by Con Edison, has been in operation since 28 September 1973 and has a net rated capacity of 873 MWe. Unit 3, owned and operated by the Power Authority of the State of New York, has been in operation since 30 August 1976 and has a net rated capacity of 965 MWe. All three units use Hudson River water for once-through cooling.

Each unit has a separate shoreline intake structure for the withdrawal of water from the Hudson River (Figure 2-2). The intake structure for Unit 1 has four rectangular openings that extend 8.0 m (26 ft) below mean low water. The intake structures for Units 2 and 3 each have six intake openings extending 8.2 m (27 ft) below mean low water. The intakes to Units 1 and 2 are equipped with fixed screens at the entrance to the intake bays and vertical traveling screens located behind the fixed screens, whereas the intake to Unit 3 has only vertical traveling screens at the entrance to the intake bays. All screens are 9.5 mm (0.375 in.) square mesh, with the exception of an experimental fine-mesh (2.5 mm) traveling screen located at Unit 1 intake.

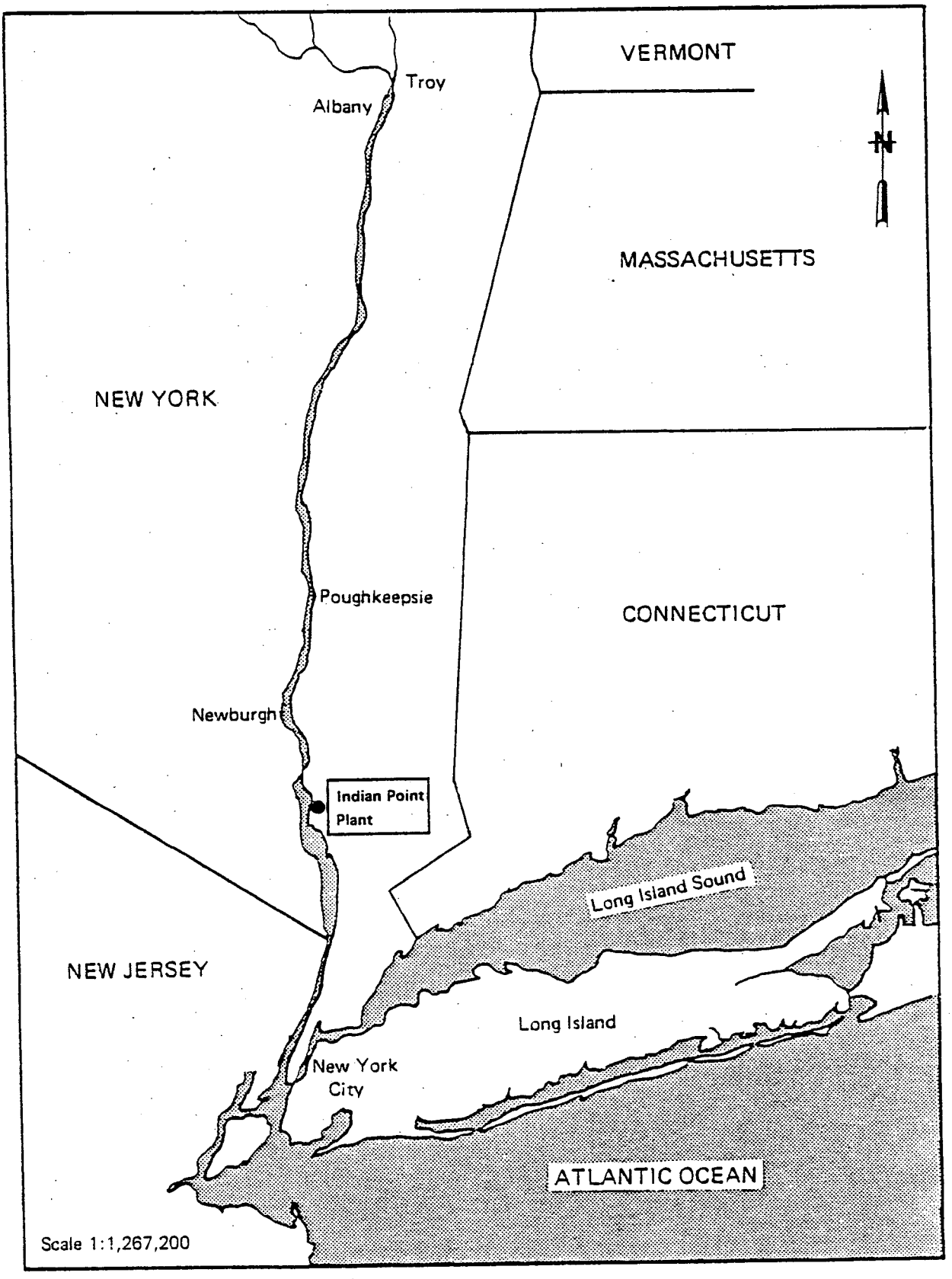

Figure 2-1. Location of the Indian Point Generating Station on the Hudson River Estuary.

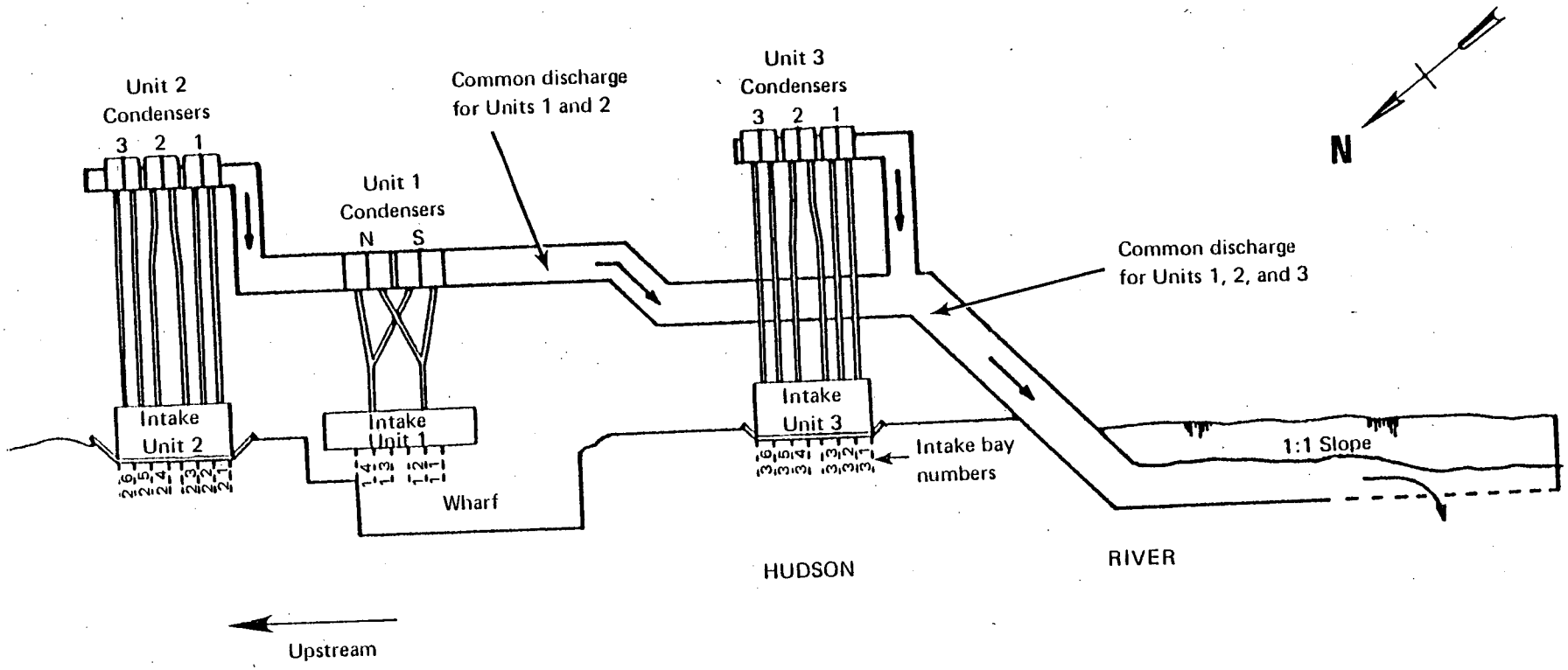

Figure 2-2. Diagram of the Indian Point Generating Station circulating water system (adapted from Con Edison 1977b).

Circulating water pumps with rated capacities of 530 m^3 per minute (140,000 gpm) are used to pump Hudson River water through the condenser cooling system of each unit. Unit 1 has two circulating water pumps with a total rated capacity of 1,060 m^3 per minute (280,000 gpm), and two service water pumps with a combined rated capacity of 144 m^3 per minute (38,000 gpm). Units 2 and 3 each have six circulating water pumps that withdraw water from separate intake bays (Figure 2-2). The circulating water systems for all units are designed to operate at either 100 or 60 percent flow. When the ambient water temperature is above 4.4 C (40 F) (spring through fall), the circulating pumps are operated so that the rated maximum cooling water flow for each unit is 3,178 m^3 per minute (840,000 gpm). During the winter, 40 percent of the cooling water is returned to the circulating pumps without passing through the condenser, reducing the rated maximum intake flow for each unit to 1,908 m^3 per minute (504,000 gpm). Service water for Units 2 and 3 is drawn through a separate intake forebay located at the center of each intake; the rated maximum total service water flow for Units 2 and 3 is 114 m^3 per minute (30,000 gpm).

The cooling water and service water from all three units flow into a common discharge canal. The combined discharge is returned to the Hudson River via an outfall structure (Figure 2-3) located downstream of Unit 3. The outfall structure consists of 12 ports submerged to a depth of 3.6 m (12 ft from center of port to water surface) at mean low water.

Calculated transit times of cooling water traveling from intake to river outfall for Units 2 and 3, when operating at full pumping capacity is 9.7 minutes for Unit 2 and 5.6 minutes for Unit 3. The calculated transit time from the intake to the condensers is about 1.5 minutes, and the calculated transit time through the condensers is 0.14 minutes for both units. Thus, much of the total transit time through the cooling water systems of Unit 2 and Unit 3 occurs in the discharge canal. Because the discharge canal receives cooling water from all three units, transit times through the canal are dependent upon the total circulating water flow through all units combined. Calculated transit times from the intake to the common discharge ports for various unit operational conditions are summarized in Table 2-1.

Estimated cross-sectional velocities of the river cooling water vary at different locations within the Indian Point plant condenser cooling water system (Table 2-2). Estimated flow velocities are lowest at the intakes, ranging from 0.57 ft/sec at Unit 1 (when circulating water pumps are operating), to 0.84 ft/sec at the intakes of Units 2 and 3. Estimated water velocities at various locations along the common discharge canal are consistently higher than velocities at the intakes, and vary according to the number of circulating pumps operating at each unit. At the submerged discharge ports, however, the estimated velocity of cooling water is 10.0 ft/sec, regardless of the number of units operating.

The temperature rise (delta-T) encountered by organisms passing through the condenser cooling systems of the Indian Point plant depends on the cooling water flow rates and levels of power output (Tables 2-3 and 2-4). At Unit 2, with six pumps operating at full flow and the unit at 100 percent capacity, the predicted condenser temperature rise ranges from 8.8 to 8.9 C (15.8-16.1 F) depending upon river temperature. During full capacity winter operation, with Unit 2 circulating pumps operating at 60 percent flow capacity (i.e.,

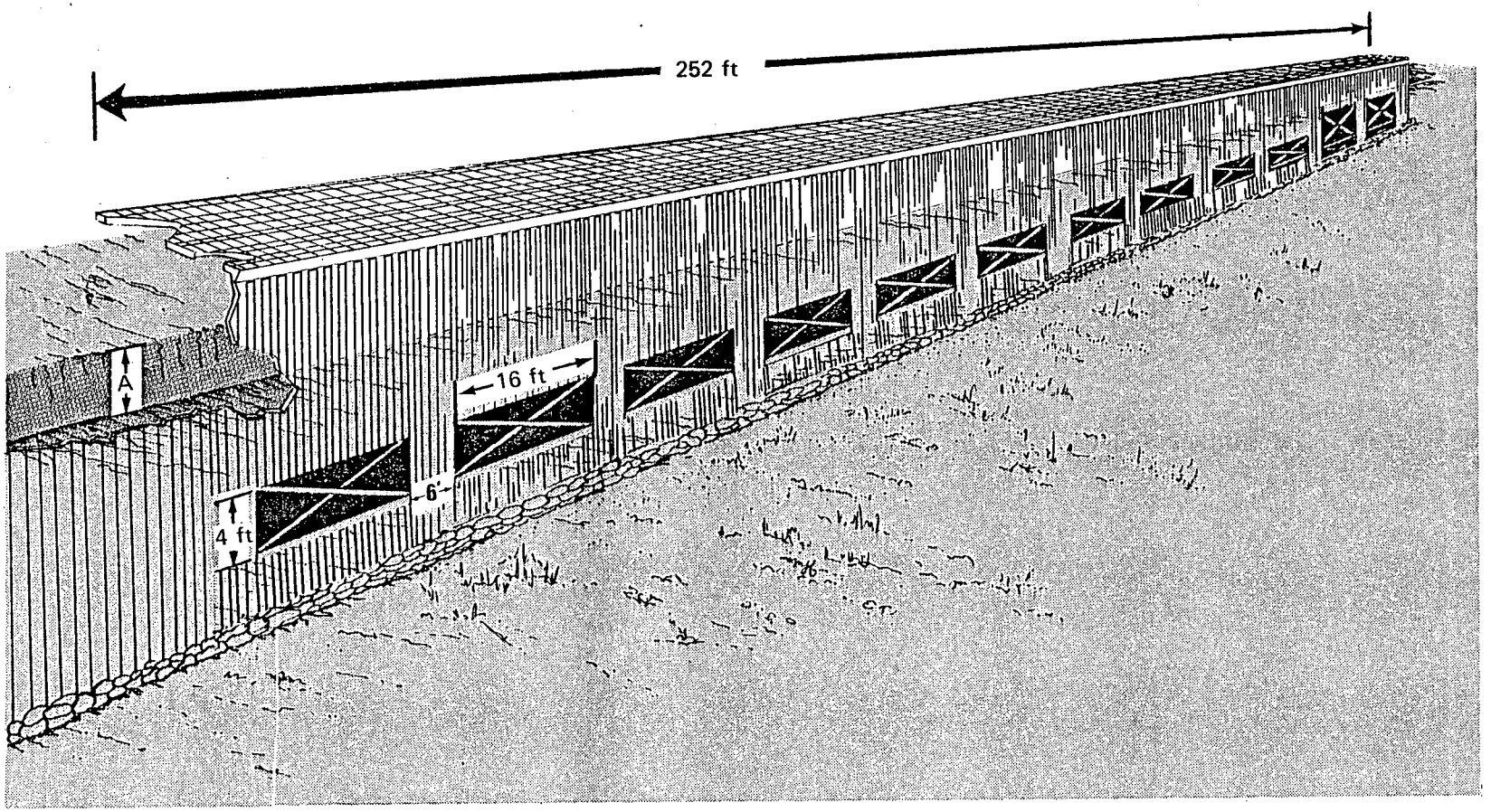

Figure 2-3. Indian Point Generating Station discharge structure (A = discharge canal water level relative to river surface).

TABLE 2-1 AVERAGE CALCULATED TRANSIT TIMES FOR COOLING WATER DURING FULL FLOW OPERATION OF INDIAN POINT GENERATING STATION--UNITS 1, 2 AND 3 OPERATING INDIVIDUALLY AND SIMULTANEOUSLY

Individual Operation (time in minutes)[a]

	Unit 1	Unit 2	Unit 3
Intake to Common Discharge Ports	33.23	12.85	8.77

Simultaneous Operation of Units 2 and 3[b]
(Unit 1 not operating)

Unit 2 Intake to Common Discharge Ports (time in minutes)

Circulating Pumps Operating at Unit 3	Circulating Pumps Operating at Unit 2			
	3	4	5	6
3	17.7	14.4	12.3	10.8
4	16.8	13.7	11.7	10.3
5	16.2	13.2	11.3	10.0
6	15.6	12.8	11.0	9.7

Unit 3 Intake to Common Discharge Ports (time in minutes)

Circulating Pumps Operating at Unit 3	Circulating Pumps Operating at Unit 2			
	3	4	5	6
3	9.6	8.3	7.4	6.7
4	8.7	7.6	6.8	6.3
5	8.0	7.1	6.4	5.9
6	7.5	6.7	6.1	5.6

(a) Source: NYU 1978, Table 1-1.
(b) Source: Personal Communication; Consolidated Edison Company of New York, Inc., 10 January 1980.

Note: Calculated transit times are based on pumps operating at 100 percent flow (312 cfs); calculated transit time through condenser: 0.14 minutes.

TABLE 2-2 ESTIMATED CROSS-SECTIONAL FLOW VELOCITIES AT VARIOUS LOCATIONS IN THE INDIAN POINT CONDENSER COOLING WATER SYSTEM[a]

Location	Flow Velocity (feet per second)						
	Generating Units Operational						
	1	2	3	1+2	1+3	2+3	1+2+3
Intakes							
Unit 1	0.57	--	--	--	--	--	--
Unit 2	--	0.84	--	--	--	--	--
Unit 3	--	--	0.84	--	--	--	--
Discharge Canal							
Discharge of Units 1 and 2[b]	1.03	2.82	--	3.85	--	--	--
Discharge of Units 1, 2, and 3[b]	0.79	2.17	2.17	2.97	2.97	4.35	5.14
Discharge Ports[c]	10.0	10.0	10.0	10.0	10.0	10.0	10.0

(a) Flow velocities presented are based on unit operation at 100 percent of design flow at mean tide level in the Hudson River. Velocities decrease by 40 percent when the units are operating at 60 percent of design flow.
(b) See Figure 2-2 for discharge locations.
(c) Passage of water through the submerged discharge ports during various plant operational modes is regulated to maintain a constant velocity.

Source: NYU (1978).

TABLE 2-3 PREDICTED TEMPEATURE RISE (C) OF CONDENSER COOLING WATER AT UNIT 2, INDIAN POINT GENERATING STATION

Plant Capacity (MWe)	River Temperature (C)	Pumps Operated with No Recirculation				Pumps Operated with 40% Recirculation			
		6 pumps	5 pumps	4 pumps	3 pumps	6 pumps	5 pumps	4 pumps	3 pumps
906 (100% load)	4.4	--	--	--	--	14.6	17.6	22.6	*
	10.0	8.8	10.4	13.1	17.9	14.7	17.7	22.7	*
	15.6	8.8	10.5	13.1	18.1	--	--	--	--
	21.1	8.9	10.6	13.2	*	--	--	--	--
	26.7	8.9	10.7	13.5	*	--	--	--	--
766 (75% load)	4.4	--	--	--	--	12.6	15.2	19.1	24.4
	10.0	7.5	9.1	11.4	15.3	12.7	15.3	19.2	24.4
	15.6	7.6	9.1	11.5	15.4	--	--	--	--
	21.1	7.6	9.2	11.6	15.7	--	--	--	--
	26.7	7.7	9.2	11.7	*	--	--	--	--
510 (50% load)	4.4	--	--	--	--	8.8	10.7	13.4	17.2
	10.0	5.2	6.4	8.1	10.8	8.9	10.8	13.5	17.2
	15.6	5.3	6.4	8.1	10.8	--	--	--	--
	21.1	5.3	6.5	8.2	11.0	--	--	--	--
	26.7	5.4	6.6	8.2	11.2	--	--	--	--

*Turbine backpressure higher than 3.5-in Hg.

Dash (--) indicates operating mode not appropriate at these temperatures.

Source: Con Edison 1977a.

TABLE 2-4 PREDICTED TEMPEATURE RISE (C) OF CONDENSER COOLING WATER AT UNIT 3, INDIAN POINT GENERATING STATION

Plant Capacity (MWe)	River Temperature (C)	Pumps Operated with No Recirculation				Pumps Operated with 40% Recirculation			
		6 pumps	5 pumps	4 pumps	3 pumps	6 pumps	5 pumps	4 pumps	3 pumps
1000 (100% load)	4.4	--	--	--	--	16.0	19.3	24.7	*
	10.0	9.5	11.5	14.3	19.6	16.2	19.4	24.8	*
	15.6	9.6	11.6	14.4	19.8	--	--	--	--
	21.1	9.6	11.6	14.5	*	--	--	--	--
	26.7	9.7	11.7	14.8	*	--	--	--	--
766 (75% load)	4.4	--	--	--	--	12.6	15.2	19.1	25.6
	10.0	7.5	9.1	11.4	15.3	12.7	15.3	19.2	25.6
	15.6	7.6	9.1	11.5	15.4	--	--	--	--
	21.1	7.6	9.2	11.6	15.7	--	--	--	--
	26.7	7.7	9.2	11.7	*	--	--	--	--
510 (50% load)	4.4	--	--	--	--	8.8	10.7	13.4	18.3
	10.0	5.2	6.4	8.1	10.8	8.9	10.8	13.5	18.3
	15.6	5.3	6.4	8.1	10.8	--	--	--	--
	21.1	5.3	6.5	8.2	11.0	--	--	--	--
	26.7	5.4	6.6	8.2	11.2	--	--	--	--

* Turbine backpressure higher than 3.5-in. Hg.

Dash (--) indicates operating mode not appropriate at these temperatures.

Source: Con Edison 1977a

40 percent recirculation), the predicted condenser temperature rise is approximately 14.7 C (26.5 F). At Unit 3, the predicted condenser temperature rise ranges from 9.5 to 9.7 C (17.1-17.4 F) for 100 percent capacity with six pumps operating at full flow; during winter operation, the predicted temperature rise is approximately 16.1 C (29 F). The higher predicted condenser temperature rise for Unit 3, compared to that for Unit 2, is due to the fact that Unit 3 has a higher rated generating capacity than Unit 2, but uses the same volume of cooling water.

During the 1977 sampling season (March through December), Unit 2 was not in operation from 14 April to 15 May, from 1 July to 7 August, from 18 to 22 August; Unit 3 did not operate from 7 to 12 April or from 9 October to 15 December. Although Unit 1 was not in operation during the sampling season, the circulating pumps were operated occasionally. A summary of the total estimated water flow (service and cooling water) through all three units during the 1977 sampling season is presented in Tables 2-5, 2-6, and 2-7.

TABLE 2-5 CIRCULATING WATER FLOW (INCLUDING SERVICE WATER) AT UNIT 1, INDIAN POINT GENERATING STATION, 1977

	Estimated Circulating Water Flow (Million Gallons per Day)											
Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	27	27	27	27	27	189	189	189	207	181	184	27
2	27	27	27	27	27	264	189	189	207	181	184	27
3	27	27	27	27	27	391	189	189	207	327	184	27
4	27	27	27	27	27	391	189	189	207	337	184	26
5	27	27	27	27	27	391	189	189	207	338	184	25
6	27	27	27	27	27	391	189	189	207	338	184	25
7	27	27	27	27	27	391	189	189	352	338	184	25
8	27	27	27	27	27	391	189	189	363	338	184	25
9	27	27	27	27	27	391	189	220	363	338	184	25
10	27	27	27	27	27	391	189	199	363	338	184	25
11	27	27	27	27	27	391	189	208	363	338	184	25
12	27	27	27	27	27	391	189	208	363	328	184	71
13	27	27	27	27	27	391	171	184	314	25	184	181
14	27	27	27	27	27	391	117	183	181	25	184	181
15	27	27	27	27	27	391	189	181	181	25	85	181
16	27	27	27	27	27	391	189	181	181	25	158	181
17	27	27	27	27	27	391	189	181	181	25	184	181
18	27	27	27	27	27	391	189	181	181	26	184	181
19	27	27	27	27	146	391	189	181	202	27	152	181
20	27	27	27	27	229	391	189	181	338	27	27	184
21	27	27	27	27	229	391	391	181	338	27	27	184
22	27	27	27	27	229	391	391	181	338	27	27	184
23	27	27	27	27	198	391	391	182	338	27	27	184
24	27	27	27	27	189	139	391	197	338	91	27	184
25	27	27	27	27	189	139	391	204	338	85	27	184
26	27	27	27	27	189	391	391	181	338	27	27	184
27	27	27	27	27	189	310	391	181	338	27	27	184
28	27	27	27	27	189	189	391	181	289	27	27	184
29	27		27	27	189	189	343	181	181	27	27	184
30	27		27	27	189	189	189	181	181	27	27	184
31	27		27		189		189	212		54		184

Source: Con Edison 1978.

TABLE 2-6 CIRCULATING WATER FLOW (INCLUDING SERVICE WATER) AT UNIT 2, INDIAN POINT GENERATING STATION, 1977

	Estimated Circulating Water Flow (Million Gallons per Day)											
Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	513	580	634	634	22	1,246	1,246	29	1,218	1,238	996	802
2	513	291	632	634	22	1,246	786	29	1,238	1,238	996	802
3	513	72	634	634	22	1,236	538	29	1,238	1,238	996	802
4	513	29	634	600	22	1,200	32	49	1,238	1,238	996	802
5	513	35	634	615	22	1,246	29	230	1,238	1,218	996	788
6	513	634	634	751	22	1,246	29	575	1,238	1,238	996	788
7	513	634	634	956	22	1,246	29	1,044	1,242	1,238	982	788
8	513	634	634	1,047	22	1,246	29	1,044	1,246	1,238	932	788
9	513	571	634	1,158	22	1,246	29	1,044	1,246	1,238	806	788
10	513	533	537	1,158	25	1,246	29	1,044	1,246	1,238	709	788
11	513	513	276	770	36	1,246	29	1,044	1,246	1,232	773	788
12	513	513	278	549	36	1,246	34	1,046	1,246	847	721	744
13	513	617	273	432	29	1,246	32	1,246	1,246	634	721	671
14	513	573	507	154	605	1,246	30	1,230	1,246	797	773	626
15	513	608	634	29	1,238	1,246	36	1,232	1,246	1,241	802	654
16	513	634	634	29	1,238	1,246	36	1,044	1,246	1,173	802	747
17	522	634	634	29	1,238	1,246	36	1,046	1,246	772	802	747
18	536	634	634	29	1,238	1,246	36	1,022	1,246	672	802	747
19	634	634	634	29	1,238	1,246	36	641	1,246	1,047	802	747
20	634	634	634	29	1,238	1,246	36	641	1,246	1,038	802	747
21	634	634	634	29	1,238	1,232	36	641	1,246	1,105	802	747
22	634	634	634	36	1,238	1,191	34	1,297	1,246	1,224	802	747
23	634	626	634	36	1,238	1,173	29	1,246	1,246	1,222	802	747
24	623	594	634	36	1,238	1,034	29	1,246	1,246	1,220	802	747
25	536	487	634	15	1,238	842	29	1,246	1,246	1,208	802	747
26	392	441	634	22	1,238	1,157	29	1,213	1,246	1,045	802	747
27	342	561	634	22	1,240	1,246	29	1,160	1,240	626	802	747
28	150	634	634	22	1,246	1,246	29	1,246	1,240	551	802	747
29	164		634	22	1,246	1,246	29	1,246	1,195	571	802	747
30	513		634	22	1,246	1,246	29	1,246	1,238	996	802	747
31	513				1,246		29	1,223		996		747

Source: Con Edison 1978.

TABLE 2-7 CIRCULATING WATER FLOW (INCLUDING SERVICE WATER) AT UNIT 3, INDIAN POINT GENERATING STATION, 1977

	Estimated Circulating Water Flow (Million Gallons per Day)											
Day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	626	626	626	747	1,238	1,238	1,238	1,246	1,246	1,246	14	22
2	626	626	626	747	1,238	1,238	1,238	1,246	1,246	1,246	14	22
3	626	626	597	747	1,192	1,223	1,238	1,246	1,246	1,246	14	22
4	599	626	626	747	1,144	1,106	1,082	1,246	1,246	1,246	14	22
5	580	626	586	747	1,228	1,187	1,004	1,246	1,246	1,246	14	29
6	595	626	626	418	1,230	1,238	1,246	1,246	1,246	1,246	14	29
7	596	626	626	138	1,235	1,238	1,246	1,246	1,246	704	14	29
8	626	626	611	74	1,223	1,240	1,246	1,246	1,246	640	14	29
9	626	626	594	143	1,231	1,246	1,246	1,246	1,246	351	14	29
10	626	626	678	143	1,223	1,246	1,246	1,246	1,246	230	14	29
11	626	626	747	205	1,231	1,246	1,246	1,246	1,246	230	14	29
12	626	626	704	670	1,231	1,246	1,246	1,246	1,246	230	14	29
13	626	626	747	729	1,231	1,168	1,109	1,246	1,135	82	14	29
14	626	626	747	850	1,231	1,077	613	1,246	1,246	27	14	117
15	628	626	747	1,031	1,231	1,238	1,246	1,246	1,246	29	14	388
16	634	626	747	1,214	1,231	1,238	1,246	1,246	1,246	29	14	726
17	634	626	748	1,238	1,231	1,231	1,246	1,246	1,246	29	14	755
18	634	626	747	1,238	1,231	1,231	1,246	1,246	1,246	29	14	755
19	629	626	708	1,154	1,231	1,231	1,246	1,246	1,246	29	14	755
20	619	536	735	1,238	1,231	1,231	1,246	1,246	1,246	29	14	694
21	619	505	747	1,238	1,231	1,193	1,246	1,246	1,246	29	14	755
22	619	505	747	1,238	1,231	1,175	1,246	1,246	1,246	26	14	755
23	619	532	710	1,238	1,235	1,168	1,246	1,246	1,246	22	14	755
24	626	626	747	1,238	1,238	1,188	1,246	1,246	1,246	22	20	755
25	624	588	747	1,238	1,238	1,071	1,246	1,246	1,246	22	22	755
26	626	527	747	1,238	1,238	835	1,246	1,246	1,246	14	22	746
27	626	626	747	1,238	1,238	1,162	1,246	1,246	1,246	14	22	734
28	626	626	747	1,238	1,238	1,238	1,246	1,246	1,246	14	22	755
29	626		747	1,184	1,238	1,238	1,131	1,208	1,246	14	22	728
30	626		747	1,238	1,238	1,238	969	1,246	1,246	14	22	755
31	626				1,238		1,159	1,246		14		755

Source: Con Edison 1978.

CHAPTER 3: METHODS

3.1 NEAR FIELD RIVER STUDY

3.1.1 Sampling Stations

The near field river study was designed to determine the temporal and spatial distribution of entrainable organisms (ichthyoplankton, macrozooplankton, and microzooplankton) in the vicinity of the Indian Point Generating Station. Sampling was conducted at seven standard river stations located between river miles 40.0 and 43.7 (64.4-70.3 km), as shown in Figure 3-1. Station locations were similar to those sampled by New York University Medical Center during studies conducted from 1971 through 1976 (NYU 1978). Samples were collected at Stations A and B to monitor the abundance of planktonic organisms in the near field area north of the plant, whereas samples were collected at Stations F and G to monitor the abundance of planktonic organisms in the near field area south of the plant. Samples collected at Stations C, D, and E provided information on the abundance of planktonic organisms in the area offshore of the plant. Each station was defined by specific north and south limits and upriver and downriver bearing axes. The depth at all station locations was approximately 15 m (50 ft).

3.1.2 Sampling Procedures

3.1.2.1 Microzooplankton

Microzooplankton samples were collected both during the day and at night at each sampling station once every 2 weeks from May through November 1977 (Table 3-1). Microzooplankton samples were collected by vertically towing a 75 μm mesh (Number 20) conical plankton net (0.5 m diameter opening, 1.8 m long) through the upper 10 m of the water column at each station.* After collection, organisms and detritus were washed into a sample container and preserved in 10 percent formalin.

Preserved samples were transported to the NYU laboratory for processing. At the laboratory, two 1 ml aliquots from each sample were placed in a Sedgwick-Rafter cell. Microzooplankton within each aliquot were counted and identified at 100X magnification.

3.1.2.2 Macrozooplankton and Ichthyoplankton

Macrozooplankton and ichthyoplankton were collected in separate duplicate samples during the 1977 sampling season. Samples were collected at each standard station during the day and at night monthly in April, weekly from May through July, and monthly from August through December (Table 3-1).

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* Replicate ("A" and "B" series) microzooplankton samples were collected at each station during all standard station sampling efforts to provide a contingency in the event that samples were voided or lost in the field. Generally, only "A" series samples were processed in the laboratory. In the case of a voided "A" series sample, however, the corresponding "B" series replicate sample was processed in its place.

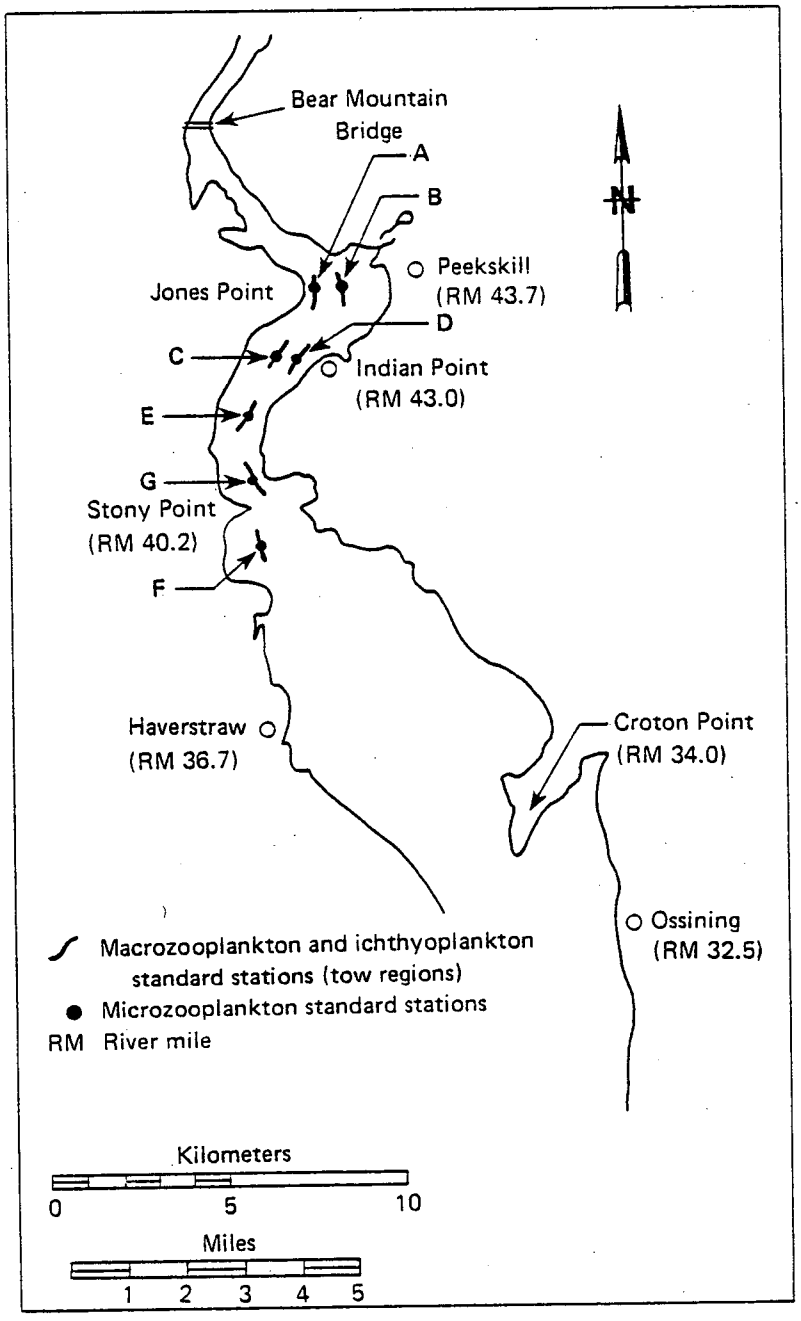


Figure 3-1. River standard station sampling locations in the vicinity of the Indian Point Generating Station.

TABLE 3-1 SAMPLING SCHEDULE FOR MICROZOOPLANKTON, MACROZOOPLANKTON, AND ICHTHYOPLANKTON COLLECTIONS AT STANDARD STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

Sampling Week	Microzooplankton	Macrozooplankton	Ichthyoplankton
12 APR		X	X
2 MAY	X	X	X
9 MAY		X	X
16 MAY	X	X	X
23 MAY		X	X
2 JUN	X	X	X
6 JUN			X
13 JUN	X	X	X
23 JUN		X	X
27 JUN	X		X
7 JUL		X	X
11 JUL	X		X
18 JUL		X	X
25 JUL	X	X	X
9 AUG	X		
15 AUG		X	X
22 AUG	X		
8 SEP	X		
14 SEP		X	X
21 SEP	X		
4 OCT	X		
13 OCT	X	X	X
1 NOV	X		
14 NOV	X	X	X
29 NOV	X		
5 DEC		X	X

Macrozooplankton and ichthyoplankton were collected using 571 μm mesh (Number 0) plankton nets (0.5 m diameter opening, 3.7 m long). Each sampling net was equipped with a standard vane General Oceanics digital flowmeter (Model 2030) to determine the volume of water sampled. Ten-minute tows were made simultaneously at the surface, middepth, and bottom, towing into the prevailing current. During slack tide, tows were conducted in an upstream direction. During all tows, boat engine speed was adjusted to approximately 2,000 rpm. At the end of each tow, organisms and detritus were washed into the removable codend of the plankton net, poured into a sample container, and preserved in 10 percent formalin.

Preserved ichthyoplankton samples were transported to the Lawler, Matusky & Skelly Engineers (LMS) laboratory for sample processing, whereas macrozooplankton samples were processed at the NYU laboratory. At both laboratories, macrozooplankton, and ichthyoplankton were sorted from the sample debris, identified, and counted. During periods of high abundance, macrozooplankton samples and those ichthyoplankton samples containing a large number of bay anchovy eggs (more than about 4,000), were subsampled using a Folsom plankton splitter. Sample splits did not exceed 1/8 of the initial sample, and a minimum of 250 macrozooplankton or fish eggs were enumerated and identified per sample. Subsampling was not conducted for ichthyoplankton larvae or juveniles. In addition, the total lengths of up to 30 striped bass larvae and juveniles collected per sample were determined to the nearest 0.1 mm.

3.1.2.3 Water Quality Measurements

Upon completion of ichthyoplankton collections at each standard station, water quality measurements were made at two sampling depths (surface and bottom). Water temperature, dissolved oxygen, conductivity, and pH were measured according to standard methods (APHA 1971).

3.1.3 Analytical Procedures

The abundance of selected microzooplankton, macrozooplankton, and ichthyoplankton taxa in the vicinity of the Indian Point plant was determined as the ratio of the number of organisms in a sample to the total volume of river water sampled (density). Because the microzooplankton samples were subsampled to obtain counts, densities of microzooplankton taxa were determined according to the following formula (modified from APHA 1975):

$$\text{river density (number/liter)} = \frac{N}{C} \times \frac{S}{V}$$

where

N = number of organisms counted
S = volume of concentrated sample (ml)
C = volume of aliquots counted (ml)
V = volume of sample collected (liters)

For macrozooplankton and ichthyoplankton samples that were subsampled during processing, densities of macrozooplankton and fish eggs were determined according to the formula:

$$\text{density (number/1,000 m}^3) = \frac{N/P}{V} \times 1{,}000$$

where

N = number of organisms counted
P = proportion of sample that was processed
V = volume of sample collected (m^3)

Before density estimates were calculated, total volume estimates of water sampled for each collection were examined to identify possible aberrant flowmeter readings, as indicated by extremely high or low volume measurements. For this analysis, all volume estimates for ichthyoplankton samples collected at the seven standard river stations and samples collected at the three river transect stations (see Section 3.3) were combined and grouped by depth (surface, middepth, or bottom samples). Samples with volume estimates more than 3.09 standard deviations from the mean (corresponding to an alpha level of 0.002) were identified and excluded from subsequent data analysis. For ichthyoplankton standard station and river transect collections, a total of two samples were excluded from the surface group, three samples were excluded from the middepth group, and two samples were excluded from the bottom group.

3.2 ENTRAINMENT ABUNDANCE STUDY

3.2.1 Sampling Stations

Ichthyoplankton and macrozooplankton were collected at two intake stations and at two discharge stations at the Indian Point plant (Figure 3-2) to determine the abundance of selected taxa. Stations I2 and I3 were located at the intakes to Unit 2 and Unit 3, respectively; Station I2 was located in forebay 25 between the trash racks and the traveling screen, whereas Station I3 was located approximately 3 m in front of the Unit 3 intake structure at forebay 34. Station D1 was located upstream of the point where discharge water from Unit 3 enters the common discharge canal, and Station D2 was located in the common discharge canal for Units 2 and 3.

3.2.2 Sampling Procedures

3.2.2.1 Sample Collection

Entrainment abundance samples were collected weekly from May through July, and monthly from August through December. Samples were collected at Stations I2, D1, and D2 when Unit 2 was online, and at Stations I3 and D2 when Unit 3 was online. Dates on which sampling was conducted at each station, together with unit operation information for those dates, are presented in Table 3-2.

Samples were collected from the surface, middepth, and bottom at the intake stations and discharge Station D1 using 571 μm mesh (Number 0) conical plankton nets (0.5 m diameter opening); however, sampling at discharge Station D2 was conducted only at the surface because of high water velocities and the consequent inability to maintain sampling frames at this location. Due to space limitations, plankton nets used at the intake stations were 1.2 m long, whereas nets used at the discharge station were 1.8 m long. Duplicate samples were collected at each sampling depth per station; samples collected from one

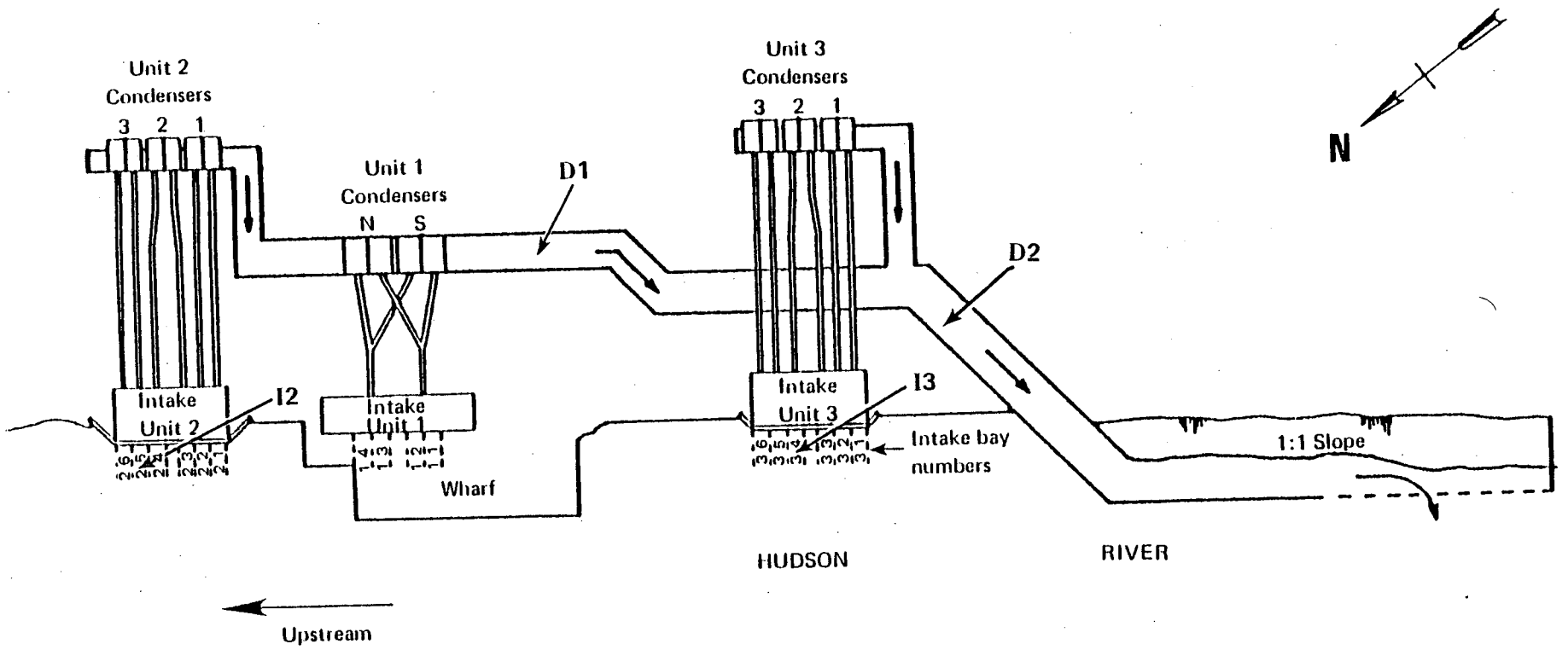


Figure 3-2. Diagram of the Indian Point Generating Station circulating water system showing location of sampling stations (adapted from Con Edison 1977b).

TABLE 3-2 SAMPLING DATES, SAMPLING STATIONS, AND UNIT OPERATION DURING THE ENTRAINMENT ABUNDANCE STUDY AT THE INDIAN POINT GENERATING STATION, 1977

Sampling Date	Units Operating	Sampling Stations
3 MAY	Unit 3	I3, D2
10 MAY	Unit 3	I3, D2
17 MAY[a]	Unit 2 and Unit 3	I3, I2, D1, D2
24 MAY[a]	Unit 2 and Unit 3	I3, I2, D1, D2
31 MAY	Unit 2 and Unit 3	I3, I2, D1, D2
7 JUN[a]	Unit 2 and Unit 3	I3, I2, D1, D2
14 JUN	Unit 2 and Unit 3	I3, I2, D1, D2
21 JUN	Unit 2 and Unit 3	I3, I2, D1, D2
28 JUN	Unit 2 and Unit 3	I3, I2, D1, D2
5 JUL	Unit 3	I3, D2
12 JUL	Unit 3	I3, D1, D2
19 JUL	Unit 3	I3, D1, D2
26 JUL	Unit 3	I3, D1, D2
16 AUG	Unit 2 and Unit 3	I3, I2, D1, D2
12 SEP	Unit 2 and Unit 3	I3, I2, D1, D2
25 OCT	Unit 2	I2, D1, D2
15 NOV	Unit 2	I2, D1, D2
6 DEC	Unit 2	I2, D1, D2

(a) Collections for ichthyoplankton during these sampling weeks was extended to 48 hours.

net were analyzed for ichthyoplankton, whereas samples collected with the other net were analyzed for macrozooplankton. The nets at Stations I2, I3, and D1 were mounted on a vertical frame that was raised and lowered by a pulley mounted on the top of the frame (Figure 3-3). Each net was equipped with a flowmeter mounted in the center of the net mouth to determine the volume of water sampled; TSK flowmeters were used to determine sample volumes at the intake stations, whereas General Oceanics digital flowmeters (Model 2030) were used for volume determinations at discharge stations.

Five-minute samples were collected simultaneously at each station with each net once every 2 hours throughout a 12-hour sampling effort, resulting in a total of 21 samples at Stations I2, I3, and D1 (7 collection periods, 3 sampling depths). Each 12-hour sampling effort was scheduled so that the fourth collection period occurred approximately at dusk. On three occasions during the 1977 sampling season, sample collection for ichthyoplankton was extended beyond the scheduled 12-hour sampling effort (Table 3-2). During these sampling efforts, sampling was conducted every 2 hours over a 48-hour period to correspond with simultaneous collections at the river transect stations (Section 3.3). After collection, organisms and detritus were carefully washed from the nets into a removable codend and preserved in 10 percent formalin.

3.2.2.2 Sample Sorting and Processing

Ichthyoplankton samples were transported to the LMS laboratory for sample processing; macrozooplankton samples were processed at the NYU laboratory. Macrozooplankton and ichthyoplankton were sorted from the samples, identified, and counted. During periods of high abundance, macrozooplankton samples and ichthyoplankton samples containing large numbers of bay anchovy eggs (more than about 4,000) were subsampled using a Folsom plankton splitter. Sample splits did not exceed 1/8 of the initial sample, and a minimum of 250 macrozooplankton or fish eggs were enumerated and identified per sample. In addition, the total lengths of up to 30 striped bass per sample were determined to the nearest 0.1 mm.

3.2.2.3 Water Quality Measurements

Measurements of surface water temperature were conducted in conjunction with all sample collections. Individual water temperature measurements were obtained at all four plant stations.

3.2.3 Analytical Procedures

Entrainment abundance was examined for five selected taxa: striped bass (all early developmental stages), *Gammarus* spp., *Neomysis americana*, *Monoculodes edwardsi*, and *Chaoborus punctipennis*. The abundance of these organisms collected at each station was determined as the ratio of the number of organisms in each sample to the volume of water sampled (number per 1,000 m^3). For samples that were subsampled during processing, abundance was determined by calculating densities according to the formula:

$$\text{density (number/1,000 m}^3) = \frac{N/P}{V} \times 1{,}000$$

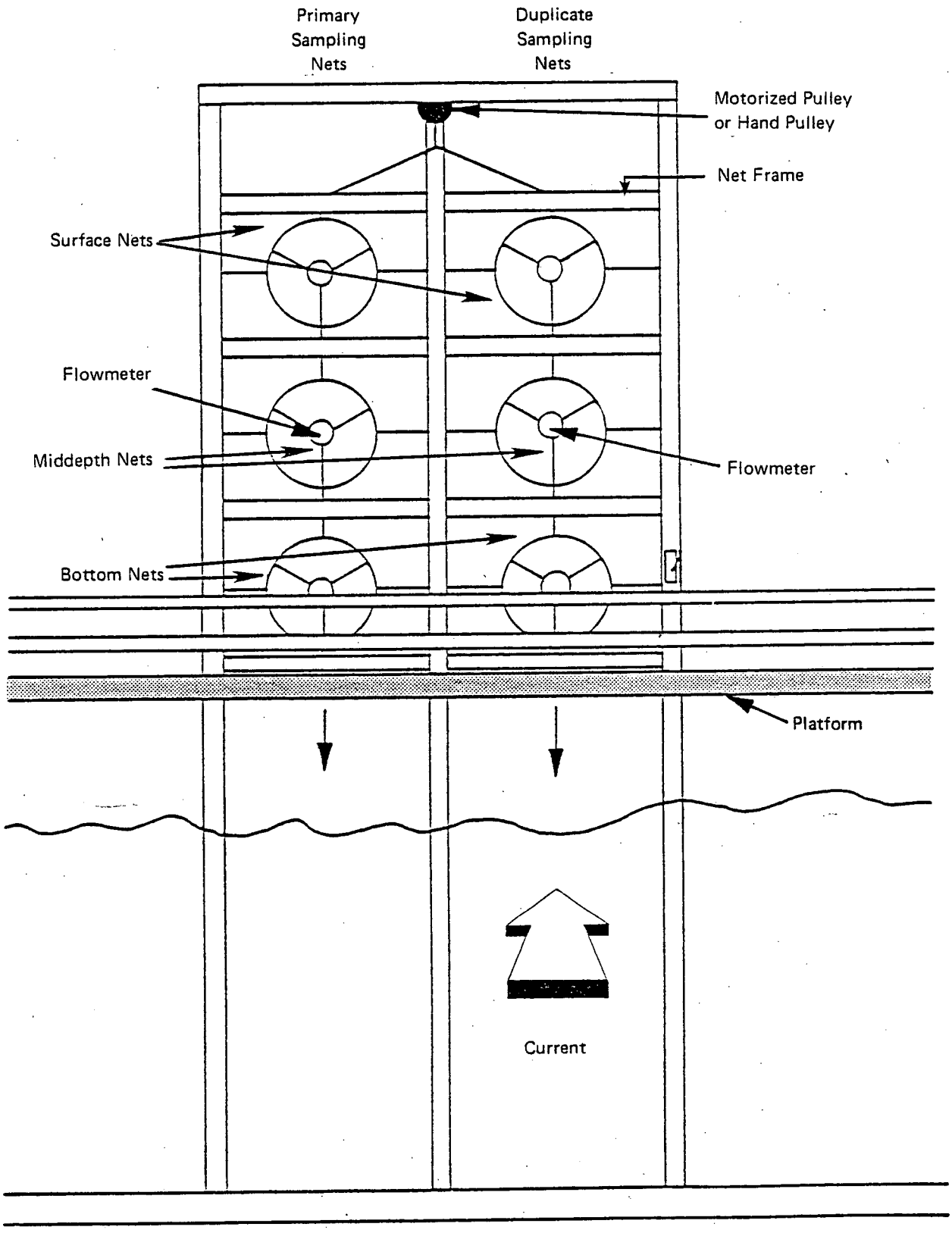


Figure 3-3. Stationary net sampling apparatus used to collect samples at Stations I2, I3, and D1 during the entrainment abundance study conducted at the Indian Point Generating Station, 1977.

where

N = number of organisms counted
P = proportion of sample that was processed
V = volume of sample collected (m^3)

Before densities were calculated, estimates of the volumes of water sampled were examined to identify possible aberrant flowmeter readings, as indicated by extremely high or low volume measurements. At the intake stations, separate analyses were conducted for each sampling depth whereas at the discharge stations, sample volumes for all sampling depths were combined before analysis because of the higher velocities and uniform flow of the water in the discharge canal. Samples with volume estimates more than 3.09 standard deviations from the mean were identified for each group and excluded from subsequent data analysis. In addition, samples collected at all stations with volumes less than 1.77 m^3 (corresponding to a velocity of 0.1 ft per sec) were excluded to eliminate density estimates based on potentially inaccurate flowmeter readings at low velocities. A total of 11 samples were excluded from the Station I3 collections, 6 samples were excluded from the Station I2 collections, 10 samples were excluded from the Station D1 collections, and 2 samples were excluded from the Station D2 collections as a result of this analysis.

3.3 RIVER TRANSECT STUDY

3.3.1 Sampling Procedures

Transect sampling was conducted weekly from May through July at three river stations paralleling the Indian Point plant (Figure 3-4). The locations of the midchannel transect (Station RC) and eastchannel transect (Station RD) were consistent with the locations of standard Stations C and D, respectively (Figure 3-1). The third transect (Station RW) was located along the west shore. At Stations RC and RD sampling was conducted along a depth contour of 15.2 m; the depth at Station RW was approximately 10.7 m.

Ichthyoplankton tows were made simultaneously along the three transects with three sampling vessels (one positioned on each transect). Each vessel was rigged to sample concurrently at the surface, middepth, and bottom with 571-µm mesh (Number 0) plankton nets (0.5-m diameter opening, 3.7 m long). All tows were of 10-minute duration and were made into the prevailing current; during slack tidal conditions, tows were made upstream against the net river flow. To maintain comparability relative to plant entrainment abundance studies, transect sampling (May through July) was scheduled to correspond with entrainment sampling (Section 3.2.2.1). At start times consistent with entrainment collections, tows were made along each transect once every 2 hours over a 12-hour period; the fourth collection period occurred approximately at dusk. On the three sampling efforts when ichthyoplankton sampling at plant stations was extended to 48 hours (i.e., 17 May, 24 May, and 7 June), concurrent ichthyoplankton sampling was also conducted for 48 hours at river transect stations.

Each sampling net was equipped with a standard vane General Oceanics digital flowmeter (Model 2030) to determine the volume of water sampled. After collection, organisms and detritus were carefully washed from the nets into

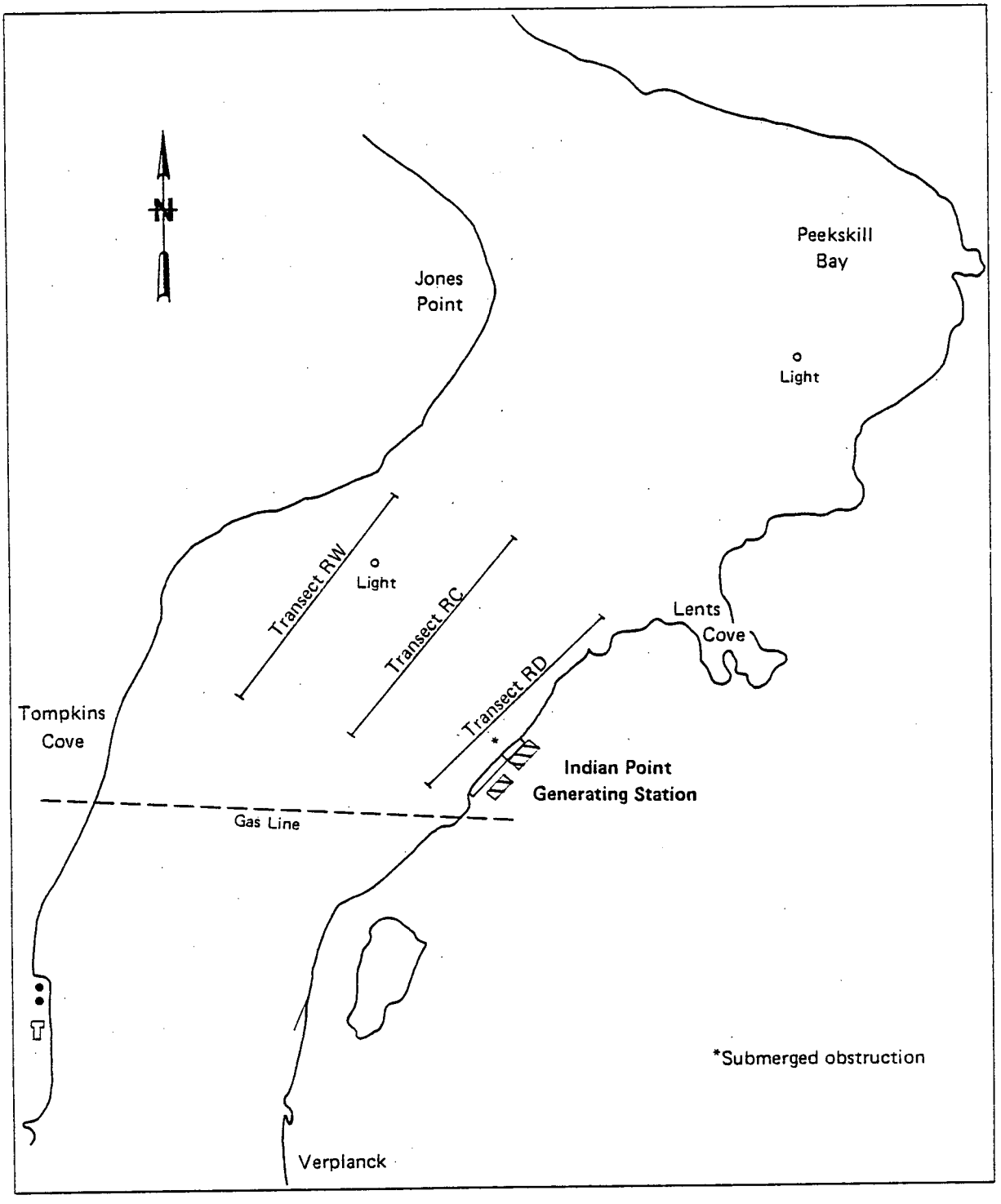


Figure 3-4. River transect station locations in the vicinity of the Indian Point Generating Station, 1977.

removable codend collection cups. The sample contents were then poured into sample containers and preserved in 10 percent formalin. Preserved samples were subsequently transported to the laboratory contractor (LMS) where ichthyoplankton in the samples were sorted, identified, and counted. Total lengths of up to 30 striped bass per sample were measured to the nearest 0.1 mm.

At the end of each set of transect tows, water quality measurements were recorded at the east shore transect (Station RD) at the surface and bottom sampling depths. Water temperature, dissolved oxygen, and conductivity, were measured according to standard methods (APHA 1971).

3.3.2 Analytical Procedures

Consistent with the procedures for estimating entrainment densities (Section 3.2.3.1), densities for striped bass life stages collected in transect samples were calculated as the ratio of the number of organisms collected in each sample to the volume of water sampled (number per 1,000 m^3).

REFERENCES

American Public Health Association (APHA). 1971. Standard Methods for the Examination of Water and Wastewater, 12th edition. APHA, Washington, D.C.

American Public Health Association (APHA). 1975. Standard Methods for the Examination of Water and Wastewater, 14th edition. APHA, Washington, D.C.

Consolidated Edison Company of New York, Inc. (Con Edison). 1977a. Indian Point Unit No. 2, Indian Point Unit No. 3. Near-Field Effects of Once-Through Cooling System Operation on Hudson River Biota. Consolidated Edison Company of New York, Inc., Power Authority of the State of New York. July 1977.

Consolidated Edison Company of New York, Inc. (Con Edison). 1977b. Routine monthly thermal monitoring report. October 1976.

Consolidated Edison Company of New York, Inc. (Con Edison). 1978. Monthly Section 401 Certification Data, January-December 1977. Prepared for the Commissioner, New York State Department of Environmental Conservation. Buchanan, N.Y.

Ecological Analysts, Inc. (EA). 1978. Indian Point Generating Station Entrainment Survival and Related Studies. 1977 Annual Report. Prepared for Consolidated Edison Company of New York, Inc.

New York University Medical Center (NYU). 1973. Effects of Entrainment by the Indian Point Power Plant on Hudson River Biota. Progress report for 1971 and 1972. Prepared for Consolidated Edison Co. of New York, Inc., by NYU Medical Center, Institute of Environmental Medicine, Laboratory for Environmental Studies.

New York University Medical Center (NYU). 1974. Hudson River Ecosystem Studies. Effects of Entrainment by the Indian Point Power Plant on Biota in the Hudson River Estuary. Progress Report for 1973. Prepared for Consolidated Edison Company of New York, Inc., by NYU Medical Center, Institute of Environmental Medicine, Laboratory for Environmental Studies.

New York University Medical Center (NYU). 1976a. Hudson River Ecosystem Studies. Effects of Entrainment by the Indian Point Power Plant on Biota in the Hudson River Estuary. Progress Report for 1974. Prepared for Consolidated Edison Company of New York, Inc., by NYU Medical Center, Institute of Environmental Medicine, Laboratory for Environmental Studies.

New York University Medical Center (NYU). 1976b. Mortality of Striped Bass Eggs and Larvae in Nets. A special report to Consolidated Edison Company of New York, Inc., by NYU Medical Center, Institute of Environmental Medicine, Laboratory for Environmental Studies.

New York University Medical Center (NYU). 1976c. Hudson River Ecosystem Studies. Effects of Entrainment by the Indian Point Power Plant on Biota in the Hudson River Estuary. Addenda to the 1973 Report. Prepared for Consolidated Edison Company of New York, Inc., by NYU Medical Center, Institute of Environmental Medicine, Laboratory for Environmental Studies.

New York University Medical Center (NYU). 1977. Hudson River Ecosystem Studies. Effects of Entrainment by the Indian Point Power Plant on Biota in the Hudson River Estuary. Progress Report for 1975. Prepared for Consolidated Edison Company of New York, Inc., by NYU Medical Center, Institute of Environmental Medicine, Laboratory for Environmental Studies.

New York University Medical Center (NYU). 1978. The Effects of Entrainment by the Indian Point Power Plant on Biota in the Hudson River Estuary. Progress Report for 1976. Prepared by NYU Medical Center, Institute of Environmental Medicine, Laboratory for Environmental Studies.

Texas Instruments, Inc., 1978. 1977 Water Quality Display. Prepared for Consolidated Edison Company of New York Inc.

APPENDIX A

WATER QUALITY DATA, ENTRAINMENT AND NEAR FIELD RIVER STUDIES, INDIAN POINT GENERATING STATION, 1977

APPENDIX A TABLES

Title	Number
A.1 NEAR FIELD RIVER STUDY	
Water Temperature (Day)	A.1-1
Water Temperature (Night)	A.1-2
Salinity (Day)	A.1-3
Salinity (Night)	A.1-4
Dissolved Oxygen (Day)	A.1-5
Dissolved Oxygen (Night)	A.1-6
Conductivity (Day)	A.1-7
Conductivity (Night)	A.1-8
pH	A.1-9
A.2 ENTRAINMENT ABUNDANCE STUDY	
Average Water Temperature	A.2-1
A.3 RIVER TRANSECT STUDY	
Average Temperature, Dissolved Oxygen, Conductivity, and Salinity	A.3-1

TABLE A.1-1 WATER TEMPERATURE (C) RECORDED DURING ICHTHYOPLANKTON SAMPLING AT STANDARD RIVER STATIONS DURING THE DAY IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				SURFACE				
12 APR 77	6.8	6.3	6.5	7.3	6.7	7.7	6.7	6.9
2 MAY 77	12.4	13.0	12.2	12.9	12.8	13.1	12.8	12.7
9 MAY 77	12.1	12.0	12.1	12.5	13.5	13.1	13.2	12.6
16 MAY 77	14.3	15.5	13.4	14.3	14.8	13.9	14.6	14.4
23 MAY 77	15.9	16.5	16.6	17.2	17.0	--	17.5	16.8
2 JUN 77	19.4	19.2	20.2	20.6	20.8	21.0	20.6	20.3
6 JUN 77	19.6	19.6	20.0	22.0	21.3	20.6	21.0	20.6
13 JUN 77	20.6	20.0	19.4	19.8	20.9	20.0	19.9	20.1
23 JUN 77	21.4	21.7	22.5	21.8	23.6	22.5	23.3	22.4
27 JUN 77	23.3	23.1	23.8	23.7	25.7	23.9	24.3	24.0
7 JUL 77	24.3	24.0	24.9	24.1	25.0	25.4	25.7	24.8
11 JUL 77	25.3	25.7	25.4	--	25.0	--	25.5	25.4
18 JUL 77	26.5	26.2	27.0	28.0	26.8	26.2	26.6	26.8
25 JUL 77	26.6	26.7	26.9	26.8	28.0	26.5	27.7	27.0
15 AUG 77	26.5	--	27.1	--	27.4	27.8	27.5	27.3
14 SEP 77	24.6	24.2	24.6	26.5	24.3	24.0	23.9	24.6
13 OCT 77	14.6	14.3	14.3	18.0	14.6	15.7	14.9	15.2
14 NOV 77	11.3	9.5	9.3	11.2	9.6	9.4	9.7	10.0
5 DEC 77	4.7	4.7	4.8	4.5	5.6	4.9	5.2	4.9
MEAN	18.4	17.9	18.5	18.3	19.1	18.6	19.0	18.5
				BOTTOM				
12 APR 77	6.7	6.3	6.5	6.8	6.5	7.0	6.6	6.6
2 MAY 77	11.9	12.2	12.2	12.5	12.7	12.6	12.8	12.4
9 MAY 77	12.2	11.9	12.3	12.4	12.3	13.0	13.0	12.4
16 MAY 77	13.2	14.0	13.2	14.2	14.4	13.7	13.8	13.8
23 MAY 77	15.9	15.9	15.8	16.0	16.2	17.7	16.6	16.3
2 JUN 77	19.0	18.9	12.0	20.3	20.0	19.6	20.3	18.6
6 JUN 77	19.7	19.6	20.0	20.6	20.2	20.4	20.3	20.1
13 JUN 77	19.5	19.2	19.3	19.1	19.6	19.6	19.6	19.4
23 JUN 77	21.8	21.8	21.8	21.8	21.6	22.2	22.6	21.9
27 JUN 77	--	--	23.3	23.9	23.3	23.3	23.0	23.4
7 JUL 77	24.4	24.2	24.6	24.2	24.8	25.0	25.1	24.6
11 JUL 77	24.6	25.0	25.1	24.6	24.9	25.1	25.1	24.9
18 JUL 77	25.7	25.7	25.9	27.1	26.7	26.2	25.9	26.2
25 JUL 77	27.0	26.7	27.2	26.9	26.9	27.0	26.7	26.9
15 AUG 77	26.4	26.4	26.6	27.0	26.8	26.4	26.8	26.6
14 SEP 77	24.3	24.2	24.4	25.6	24.0	24.0	23.8	24.3
13 OCT 77	14.6	14.2	14.7	14.7	14.7	15.4	14.7	14.7
14 NOV 77	9.4	9.3	9.4	9.8	9.6	9.4	9.5	9.5
5 DEC 77	4.5	4.7	4.8	4.6	5.1	4.9	5.2	4.8
MEAN	17.8	17.8	17.8	18.5	18.4	18.9	18.5	18.3

Note: Dashes (--) indicate data not available

TABLE A.1-2 WATER TEMPERATURE (C) RECORDED DURING ICHTHYOPLANKTON SAMPLING AT STANDARD RIVER STATIONS DURING THE NIGHT IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				SURFACE				
26 APR 77	10.9	10.5	10.4	10.4	10.6	10.3	10.5	10.5
5 MAY 77	12.7	11.9	12.3	13.9	12.3	12.8	13.2	12.7
12 MAY 77	13.0	12.9	12.7	12.7	13.9	12.8	13.6	13.1
2 JUN 77	19.7	19.8	19.9	20.6	19.9	20.3	19.9	20.0
16 JUN 77	22.2	19.4	--	--	--	--	--	20.8
23 JUN 77	22.3	22.0	22.2	22.4	24.4	23.7	23.1	22.9
30 JUN 77	23.0	23.1	24.3	24.8	24.2	24.3	24.6	24.0
7 JUL 77	24.7	24.5	25.2	24.8	25.0	25.7	25.5	25.1
14 JUL 77	25.0	--	25.3	25.5	25.1	25.8	25.1	25.3
21 JUL 77	26.8	26.6	27.3	26.9	28.6	28.2	28.1	27.5
28 JUL 77	26.5	25.9	25.8	26.2	25.7	25.5	25.8	25.9
25 AUG 77	26.0	26.2	25.9	26.2	25.4	25.3	25.4	25.8
15 SEP 77	23.9	23.8	23.7	25.3	25.4	24.6	24.0	24.4
20 OCT 77	11.8	11.7	11.6	15.0	11.8	12.3	12.2	12.3
16 NOV 77	9.8	9.8	9.8	9.4	9.4	9.8	9.8	9.7
6 DEC 77	3.9	4.0	3.8	10.8	4.2	4.4	4.9	5.1
MEAN	18.9	18.1	18.7	19.7	19.1	19.1	19.0	18.9
				BOTTOM				
26 APR 77	10.9	10.5	10.4	10.4	10.6	10.4	10.5	10.5
5 MAY 77	11.8	11.7	12.1	12.5	11.8	12.6	12.9	12.2
12 MAY 77	12.1	12.2	12.6	12.7	12.7	12.6	13.0	12.6
2 JUN 77	20.0	19.8	20.0	20.6	20.0	20.2	19.9	20.1
16 JUN 77	20.2	19.7	--	--	--	--	--	20.0
23 JUN 77	22.4	22.1	22.5	22.5	22.9	22.3	23.0	22.5
30 JUN 77	23.0	23.0	23.7	24.1	24.3	24.4	24.5	23.9
7 JUL 77	24.8	24.8	25.2	24.9	25.2	24.9	25.0	25.0
14 JUL 77	25.3	24.8	25.0	24.6	24.8	25.4	25.2	25.0
21 JUL 77	27.0	26.8	27.4	26.8	27.6	27.9	27.8	27.3
28 JUL 77	26.5	26.4	26.5	26.2	25.7	25.4	25.5	26.0
25 AUG 77	25.4	25.4	25.8	25.4	25.2	25.0	25.2	25.3
15 SEP 77	24.0	23.7	24.0	24.1	24.2	24.3	24.1	24.1
20 OCT 77	11.4	11.6	11.7	11.7	11.6	11.8	11.9	11.7
16 NOV 77	10.0	9.8	9.7	9.2	9.5	9.8	9.8	9.7
6 DEC 77	3.8	4.2	3.9	5.4	4.2	4.4	4.8	4.4
MEAN	18.7	18.9	18.7	18.7	18.7	18.8	18.9	18.8

Note: Dashes (--) indicate data not available.

TABLE A.1-3 SALINITY (ppt) RECORDED DURING ICHTHYOPLANKTON SAMPLING AT STANDARD RIVER STATIONS DURING THE DAY IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				SURFACE				
12 APR 77	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1
2 MAY 77	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
9 MAY 77	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2
16 MAY 77	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 MAY 77	0.2	0.2	0.2	0.2	0.2	--	0.2	0.2
2 JUN 77	1.0	0.8	1.4	1.5	2.0	2.5	2.2	1.6
6 JUN 77	0.7	0.7	0.9	0.9	1.2	--	1.4	1.0
13 JUN 77	2.1	1.8	1.8	0.9	1.7	2.9	2.5	2.0
23 JUN 77	1.7	2.2	1.8	2.2	1.9	2.4	2.2	2.1
27 JUN 77	2.0	1.5	2.6	2.0	2.8	3.1	2.7	2.4
7 JUL 77	1.2	1.1	1.7	1.3	1.8	2.7	2.4	1.7
11 JUL 77	2.7	2.8	2.8	--	2.1	--	3.3	2.7
18 JUL 77	3.3	2.7	3.6	4.1	3.9	3.9	3.6	3.6
25 JUL 77	3.3	3.0	3.7	3.4	4.2	4.5	4.3	3.8
15 AUG 77	0.4	--	0.4	--	0.4	0.5	0.5	0.4
14 SEP 77	5.5	5.1	5.9	6.1	6.4	7.0	6.9	6.1
13 OCT 77	0.3	0.4	0.4	0.4	0.4	0.7	0.6	0.5
14 NOV 77	0.5	0.4	0.6	0.3	0.4	0.3	0.4	0.4
5 DEC 77	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.4
MEAN	1.4	1.3	1.5	1.4	1.6	2.0	1.8	1.6
				BOTTOM				
12 APR 77	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
2 MAY 77	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
9 MAY 77	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2
16 MAY 77	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
23 MAY 77	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2 JUN 77	1.0	0.8	2.1	1.6	2.3	3.4	2.3	1.9
6 JUN 77	0.7	0.7	1.0	0.9	--	2.0	1.5	1.1
13 JUN 77	2.3	2.2	3.0	4.0	3.1	3.3	3.6	3.1
23 JUN 77	2.3	2.2	2.3	2.2	2.0	3.3	3.1	2.5
27 JUN 77	--	--	3.2	2.2	3.6	4.6	4.2	3.6
7 JUL 77	1.5	1.2	1.8	1.3	1.9	3.6	2.8	2.0
11 JUL 77	2.7	3.0	3.1	2.3	2.8	4.8	3.9	3.2
18 JUL 77	3.6	3.4	3.8	4.0	4.4	4.2	3.8	3.9
25 JUL 77	3.8	3.1	4.2	3.4	4.8	5.5	5.2	4.3
15 AUG 77	0.4	0.4	0.4	0.4	0.5	0.6	0.5	0.5
14 SEP 77	5.6	5.5	6.2	5.6	6.5	7.3	6.9	6.2
13 OCT 77	0.3	0.4	0.3	0.5	0.4	1.2	0.8	0.6
14 NOV 77	0.5	0.3	0.6	0.4	0.3	0.3	0.3	0.4
5 DEC 77	0.4	0.4	0.3	0.4	0.3	0.3	0.4	0.4
MEAN	1.4	1.4	1.8	1.6	1.9	2.4	2.1	1.8

Note: Dashes (--) indicate data not available

TABLE A.1-4 SALINITY (ppt) RECORDED DURING ICHTHYOPLANKTON SAMPLING AT STANDARD RIVER STATIONS DURING THE NIGHT IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				SURFACE				
26 APR 77	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2
5 MAY 77	0.3	0.2	0.2	0.3	0.2	0.1	0.2	0.2
12 MAY 77	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2 JUN 77	1.3	1.3	1.2	1.6	1.5	1.4	1.4	1.4
16 JUN 77	2.7	1.7	--	--	--	--	--	2.2
23 JUN 77	2.2	1.7	2.4	2.1	2.4	2.9	3.2	2.4
30 JUN 77	1.2	1.2	1.7	1.9	2.2	3.2	2.9	2.0
7 JUL 77	1.8	1.6	2.2	1.8	2.1	2.9	2.6	2.1
14 JUL 77	3.1	--	4.1	3.9	3.2	3.5	3.0	3.5
21 JUL 77	2.7	2.7	3.5	3.1	3.5	4.3	4.3	3.4
28 JUL 77	3.2	2.8	3.6	4.2	4.7	5.2	5.1	4.1
25 AUG 77	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
15 SEP 77	4.7	4.5	4.7	5.5	5.1	5.6	5.3	5.1
20 OCT 77	0.4	0.4	0.4	0.2	0.1	0.5	0.7	0.4
16 NOV 77	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.4
6 DEC 77	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.4
MEAN	1.6	1.3	1.7	1.7	1.8	2.1	2.0	1.7
				BOTTOM				
26 APR 77	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
5 MAY 77	0.2	0.2	0.2	0.2	--	0.2	0.2	0.2
12 MAY 77	--	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2 JUN 77	1.5	1.3	1.5	1.7	1.6	1.4	1.5	1.5
16 JUN 77	2.4	2.9	--	--	--	--	--	2.7
23 JUN 77	2.2	2.0	2.8	2.1	3.1	4.3	3.6	2.9
30 JUN 77	1.4	1.2	2.2	1.9	3.4	3.6	3.4	2.4
7 JUL 77	2.1	1.9	2.8	2.0	3.2	4.2	3.6	2.8
14 JUL 77	4.6	4.5	5.7	6.9	7.0	4.8	4.5	5.3
21 JUL 77	3.3	3.1	3.7	3.0	4.0	5.0	4.6	3.8
28 JUL 77	3.9	3.1	4.1	4.6	5.2	6.1	5.7	4.7
25 AUG 77	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4
15 SEP 77	4.9	4.8	5.0	5.5	5.3	5.9	5.9	5.3
20 OCT 77	0.3	0.4	0.3	0.3	0.6	0.3	0.4	0.4
16 NOV 77	0.3	0.3	0.3	0.4	0.3	0.3	0.3	0.3
6 DEC 77	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.4
MEAN	1.9	1.8	2.0	2.0	2.5	2.5	2.3	2.1

Note: Dashes (--) indicate data not available.

TABLE A.1-5 DISSOLVED OXYGEN (ppm) RECORDED DURING ICHTHYOPLANKTON SAMPLING AT STANDARD RIVER STATIONS DURING THE DAY IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

	STATION							
DATE	A	B	C	D	E	F	G	MEAN
				SURFACE				
12 APR 77	11.2	11.0	11.0	11.8	11.4	11.2	11.2	11.3
2 MAY 77	9.6	9.4	9.8	9.5	10.0	9.5	9.8	9.7
9 MAY 77	9.8	9.3	--	9.8	9.3	9.4	8.9	9.4
16 MAY 77	9.4	9.8	9.2	9.1	9.1	9.5	9.8	9.4
23 MAY 77	8.6	9.2	8.7	9.0	8.6	--	9.5	8.9
2 JUN 77	8.7	8.7	8.7	9.1	9.0	8.8	8.8	8.8
6 JUN 77	7.8	8.8	7.9	8.7	8.0	--	7.7	8.2
13 JUN 77	7.5	7.5	7.2	7.4	6.8	6.9	7.4	7.2
23 JUN 77	6.9	6.6	6.8	7.4	7.3	7.0	7.0	7.0
27 JUN 77	7.6	7.6	7.2	7.9	7.2	8.1	8.2	7.7
7 JUL 77	6.4	6.5	5.9	5.8	6.8	5.9	6.0	6.2
11 JUL 77	6.6	5.9	6.7	--	6.2	--	6.7	6.4
18 JUL 77	6.1	6.0	5.7	6.2	6.6	6.0	5.6	6.0
25 JUL 77	5.9	5.6	6.1	6.5	6.1	6.3	6.2	6.1
15 AUG 77	5.5	--	4.6	--	5.8	5.8	5.3	5.4
14 SEP 77	5.7	6.0	6.2	6.2	6.3	6.4	6.1	6.1
13 OCT 77	8.5	9.0	8.8	10.4	9.1	8.5	8.7	9.0
14 NOV 77	9.5	10.0	10.5	10.3	10.6	10.7	10.7	10.3
5 DEC 77	9.4	11.7	12.6	12.0	12.0	12.0	11.6	11.6
MEAN	7.9	8.3	8.0	8.7	8.2	8.3	8.2	8.2
				BOTTOM				
12 APR 77	11.0	11.8	11.4	11.4	11.2	11.8	11.4	11.4
2 MAY 77	10.2	9.0	9.6	10.2	9.6	9.0	--	9.6
9 MAY 77	9.5	9.7	--	9.6	9.4	9.8	9.3	9.6
16 MAY 77	9.0	9.3	9.8	9.3	9.3	9.5	9.6	9.4
23 MAY 77	9.0	--	8.9	9.0	--	8.7	8.8	8.9
2 JUN 77	7.8	8.9	8.9	8.7	8.7	7.6	7.6	8.3
6 JUN 77	7.8	7.6	7.1	7.9	--	7.5	7.7	7.6
13 JUN 77	6.7	6.9	6.8	7.1	7.1	7.2	6.6	6.9
23 JUN 77	6.7	6.7	7.4	7.4	6.4	7.4	6.9	7.0
27 JUN 77	--	--	7.7	6.8	7.5	7.2	7.3	7.3
7 JUL 77	5.7	5.8	5.1	5.7	5.7	5.7	6.2	5.7
11 JUL 77	5.4	5.3	4.7	5.1	5.9	6.8	4.7	5.4
18 JUL 77	5.1	4.7	5.0	5.1	5.3	5.7	4.8	5.1
25 JUL 77	6.2	5.7	5.6	5.7	5.5	5.0	5.3	5.6
15 AUG 77	5.0	4.8	4.8	5.0	4.8	7.0	5.2	5.2
14 SEP 77	5.6	5.6	5.8	6.1	5.6	6.1	6.1	5.8
13 OCT 77	9.3	8.6	9.0	9.4	8.4	8.0	8.3	8.7
14 NOV 77	10.4	10.0	10.6	10.6	10.8	11.0	10.6	10.6
5 DEC 77	9.0	12.9	11.6	11.8	12.3	11.5	11.3	11.5
MEAN	7.7	7.8	7.8	8.0	7.9	8.0	7.6	7.8

Note: Dashes (--) indicate data not available

TABLE A.1-6 DISSOLVED OXYGEN (ppm) RECORDED DURING ICHTHYOPLANKTON SAMPLING AT STANDARD RIVER STATIONS DURING THE NIGHT IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				SURFACE				
26 APR 77	10.0	10.4	10.0	9.8	10.6	10.5	10.0	10.2
5 MAY 77	11.0	9.1	8.7	5.0	6.5	8.9	10.2	8.5
12 MAY 77	10.0	10.0	9.8	9.7	9.9	9.8	9.9	9.9
2 JUN 77	9.0	8.4	8.3	8.0	8.5	8.5	8.6	8.5
16 JUN 77	--	--	--	--	--	--	--	--
23 JUN 77	6.9	7.8	7.0	7.9	7.8	7.4	7.8	7.5
30 JUN 77	6.5	6.9	6.8	6.8	7.6	6.9	7.1	6.9
7 JUL 77	5.6	5.7	5.5	6.1	6.2	7.4	6.2	6.1
14 JUL 77	6.2	--	6.0	5.4	5.8	5.7	5.5	5.8
21 JUL 77	5.9	5.8	5.1	4.7	5.5	5.7	5.8	5.5
28 JUL 77	6.2	5.7	6.1	5.7	--	6.2	6.5	6.1
25 AUG 77	--	6.5	6.3	6.0	6.7	7.1	7.0	6.6
15 SEP 77	6.9	6.0	6.8	6.4	6.4	6.6	6.5	6.5
20 OCT 77	9.5	9.7	9.8	9.6	9.9	9.4	9.3	9.6
16 NOV 77	9.3	10.0	9.5	9.9	9.6	10.2	9.6	9.7
6 DEC 77	12.5	11.8	12.1	11.4	11.0	12.1	11.7	11.8
MEAN	8.3	8.1	7.9	7.5	8.0	8.2	8.1	8.0
				BOTTOM				
5 MAY 77	8.7	8.7	8.7	8.5	--	9.6	9.4	8.9
12 MAY 77	--	10.0	9.0	10.9	--	9.5	12.0	10.3
2 JUN 77	8.3	8.0	8.4	7.9	7.9	8.7	8.1	8.2
16 JUN 77	--	--	--	--	--	--	--	--
23 JUN 77	6.6	7.1	6.5	6.8	7.5	9.1	8.4	7.4
30 JUN 77	6.9	6.9	6.8	6.8	6.4	6.7	6.6	6.7
7 JUL 77	5.4	5.9	6.1	6.0	6.5	5.8	5.9	5.9
14 JUL 77	5.5	5.0	4.8	5.5	4.3	4.9	5.3	5.0
21 JUL 77	5.1	5.9	4.6	5.1	4.7	4.8	5.0	5.0
28 JUL 77	5.7	--	5.6	6.0	5.6	6.1	6.6	5.9
25 AUG 77	6.2	6.0	6.2	6.0	6.3	6.8	6.4	6.3
15 SEP 77	6.2	5.6	6.0	5.6	6.2	6.2	6.0	6.0
20 OCT 77	10.0	9.8	10.1	9.5	9.5	10.1	9.3	9.8
16 NOV 77	9.7	9.8	10.2	10.2	9.5	10.2	9.8	9.9
6 DEC 77	12.2	11.6	12.1	11.8	12.1	11.8	11.6	11.9
MEAN	7.6	7.7	7.7	7.8	7.4	8.1	8.0	7.8

Note: Dashes (--) indicate data not available.

TABLE A.1-7 CONDUCTIVITY (µmho) RECORDED DURING ICHTHYOPLANKTON SAMPLING AT STANDARD RIVER STATIONS DURING THE DAY IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	A	B	C	D	E	F	G	MEAN
				STATION				
				SURFACE				
12 APR 77	40.0	80.0	100.0	20.0	100.0	120.0	120.0	82.9
2 MAY 77	350.0	340.0	300.0	320.0	360.0	340.0	320.0	332.9
9 MAY 77	380.0	350.0	360.0	320.0	340.0	320.0	380.0	350.0
16 MAY 77	320.0	250.0	280.0	250.0	240.0	250.0	240.0	261.4
23 MAY 77	330.0	320.0	320.0	290.0	380.0	340.0	350.0	332.9
2 JUN 77	1680.0	1320.0	2360.0	2680.0	3500.0	4300.0	3720.0	2794.3
6 JUN 77	1280.0	1180.0	1580.0	1600.0	2150.0	—	2450.0	1706.7
13 JUN 77	3580.0	3150.0	3040.0	1500.0	3000.0	4760.0	4190.0	3317.1
23 JUN 77	3020.0	3780.0	3300.0	3890.0	3550.0	4250.0	3990.0	3682.9
27 JUN 77	3600.0	2840.0	4800.0	3600.0	5200.0	5500.0	4980.0	4360.0
7 JUL 77	2250.0	2120.0	3150.0	2420.0	3500.0	5000.0	4500.0	3277.1
11 JUL 77	5080.0	5320.0	5180.0	3960.0	4020.0	6020.0	6100.0	5097.1
18 JUL 77	6280.0	5150.0	6800.0	7950.0	7400.0	7300.0	6800.0	6811.4
25 JUL 77	6200.0	5800.0	7040.0	6460.0	8000.0	8350.0	8200.0	7150.0
15 AUG 77	738.0	682.0	825.0	900.0	915.0	1025.0	1000.0	869.3
14 SEP 77	9700.0	9000.0	10400.0	11020.0	11000.0	11960.0	11720.0	10685.7
13 OCT 77	530.0	600.0	700.0	750.0	660.0	1200.0	1020.0	780.0
14 NOV 77	680.0	600.0	780.0	500.0	500.0	430.0	500.0	570.0
5 DEC 77	520.0	550.0	500.0	500.0	500.0	500.0	380.0	492.9
MEAN	2450.4	2285.9	2727.1	2575.3	2911.3	3442.5	3208.4	2795.3
				BOTTOM				
12 APR 77	50.0	20.0	80.0	50.0	80.0	120.0	50.0	64.3
2 MAY 77	320.0	300.0	320.0	300.0	360.0	300.0	300.0	314.3
9 MAY 77	380.0	280.0	380.0	280.0	280.0	320.0	300.0	317.1
16 MAY 77	340.0	280.0	250.0	250.0	220.0	220.0	220.0	254.3
23 MAY 77	300.0	320.0	300.0	290.0	340.0	290.0	350.0	312.9
2 JUN 77	1680.0	1360.0	2900.0	2700.0	3900.0	5600.0	3900.0	3148.6
6 JUN 77	1300.0	1200.0	1800.0	1580.0	--	3500.0	2620.0	2000.0
13 JUN 77	3830.0	3660.0	4950.0	6340.0	5150.0	5320.0	5900.0	5021.4
23 JUN 77	4100.0	3850.0	3980.0	3870.0	3580.0	5750.0	5350.0	4354.3
27 JUN 77	4840.0	3500.0	5700.0	4120.0	6300.0	7950.0	7250.0	5665.7
7 JUL 77	2820.0	2320.0	3420.0	2400.0	3600.0	6620.0	5250.0	3775.7
11 JUL 77	4980.0	5540.0	5720.0	4280.0	5250.0	8520.0	7020.0	5901.4
18 JUL 77	6620.0	6350.0	7000.0	7600.0	8200.0	7777.0	6980.0	7218.1
25 JUL 77	7250.0	6000.0	7940.0	6500.0	9000.0	10200.0	9600.0	8070.0
15 AUG 77	740.0	780.0	840.0	868.0	938.0	1230.0	1060.0	922.3
14 SEP 77	9800.0	9550.0	10820.0	10080.0	11200.0	12400.0	11700.0	10792.9
13 OCT 77	550.0	550.0	550.0	850.0	700.0	1820.0	1200.0	888.6
14 NOV 77	650.0	440.0	820.0	500.0	450.0	480.0	400.0	534.3
5 DEC 77	500.0	500.0	400.0	500.0	400.0	400.0	450.0	450.0
MEAN	2686.8	2463.2	3061.6	2808.3	3330.4	4148.3	3678.9	3167.0

Note: Dashes (--) indicate data not available

TABLE A.1-8 CONDUCTIVITY (µmho) RECORDED DURING ICHTHYOPLANKTON SAMPLING AT STANDARD RIVER STATIONS DURING THE NIGHT IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				SURFACE				
26 APR 77	320.0	250.0	340.0	320.0	280.0	50.0	300.0	265.7
5 MAY 77	380.0	280.0	320.0	450.0	320.0	150.0	340.0	320.0
12 MAY 77	400.0	280.0	340.0	360.0	340.0	360.0	340.0	345.7
2 JUN 77	2250.0	2280.0	2150.0	2800.0	2600.0	2400.0	2340.0	2402.9
16 JUN 77	4720.0	2950.0	—	—	—	—	—	3835.0
23 JUN 77	3840.0	3040.0	4180.0	3750.0	4500.0	5150.0	5620.0	4297.1
30 JUN 77	2250.0	2180.0	3150.0	3640.0	4150.0	5850.0	5250.0	3781.4
7 JUL 77	3350.0	3020.0	4200.0	3450.0	3888.0	5420.0	4900.0	4032.6
14 JUL 77	5750.0	—	7500.0	7150.0	5900.0	6500.0	5600.0	6400.0
21 JUL 77	5250.0	5200.0	6700.0	5900.0	6880.0	8250.0	8300.0	6640.0
28 JUL 77	6040.0	5250.0	6600.0	7840.0	8580.0	9280.0	9200.0	7541.4
25 AUG 77	625.0	620.0	700.0	782.0	830.0	845.0	820.0	746.0
15 SEP 77	8300.0	7820.0	8250.0	9800.0	9100.0	9900.0	9300.0	8924.3
20 OCT 77	520.0	520.0	520.0	350.0	100.0	800.0	1000.0	544.3
16 NOV 77	550.0	500.0	520.0	600.0	400.0	500.0	520.0	512.9
6 DEC 77	400.0	400.0	480.0	480.0	450.0	440.0	500.0	450.0
MEAN	2809.1	2306.0	3063.3	3178.1	3221.2	3726.3	3622.0	3129.2
				BOTTOM				
26 APR 77	350.0	280.0	300.0	280.0	300.0	300.0	320.0	304.3
5 MAY 77	280.0	300.0	320.0	280.0	—	280.0	300.0	293.3
12 MAY 77	—	220.0	360.0	340.0	320.0	350.0	340.0	321.7
2 JUN 77	2580.0	2300.0	2520.0	2900.0	2680.0	2500.0	2600.0	2582.9
16 JUN 77	4100.0	4850.0	—	—	—	—	—	4475.0
23 JUN 77	3980.0	3580.0	4920.0	3760.0	5420.0	7380.0	6250.0	5041.4
30 JUN 77	2580.0	2280.0	4000.0	3500.0	6070.0	6450.0	6240.0	4445.7
7 JUL 77	4000.0	3520.0	5250.0	3800.0	5850.0	7500.0	6620.0	5220.0
14 JUL 77	8250.0	8100.0	10100.0	11950.0	12100.0	8600.0	8150.0	9418.8
21 JUL 77	6380.0	5850.0	7150.0	5820.0	7580.0	9430.0	8800.0	7287.1
28 JUL 77	7360.0	5950.0	7700.0	8500.0	9360.0	10900.0	10150.0	8560.0
25 AUG 77	760.0	690.0	765.0	852.0	850.0	890.0	830.0	805.3
15 SEP 77	8550.0	8350.0	8750.0	9600.0	9250.0	10300.0	10200.0	9285.7
20 OCT 77	500.0	540.0	480.0	480.0	860.0	480.0	650.0	570.0
16 NOV 77	450.0	450.0	480.0	580.0	450.0	450.0	480.0	477.1
6 DEC 77	420.0	420.0	520.0	300.0	480.0	480.0	540.0	451.4
MEAN	3369.3	3281.2	3574.3	3529.5	4397.9	4419.3	4164.7	3819.5

Note: Dashes (—) indicate data not available.

TABLE A.1-9 ESTIMATED pH VALUES IN THE VICINITY OF THE INDIAN POINT GENERATING STATION[a], 1977

Date	pH
12 APR 77	7.4
2 MAY 77	7.4
9 MAY 77	7.3
16 MAY 77	7.6
23 MAY 77	8.0
2 JUN 77	7.5
6 JUN 77	7.5
13 JUN 77	7.6
23 JUN 77	7.8
27 JUN 77	7.9
7 JUL 77	7.5
11 JUL 77	7.7
18 JUL 77	7.5
25 JUL 77	7.5
15 AUG 77	7.3
14 SEP 77	7.6
13 OCT 77	7.4
14 NOV 77	7.4
5 DEC 77	7.1

(a) Source: Texas Instruments 1978

TABLE A.2-1 AVERAGE WATER TEMPERATURES (C) RECORDED DURING THE ENTRAINMENT ABUNDANCE STUDY AT THE INDIAN POING GENERATING STATION, 1977[a]

Date	Sampling Stations			
	I2	I3	D1	D2
3 MAY	--	12.8	--	23.0
10 MAY	--	13.0	--	21.7
17 MAY	15.7	15.7	24.9	24.7
24 MAY	18.9	--	--	27.1
31 MAY	19.4	--	26.2	28.8
7 JUN	19.9	--	28.3	28.0
14 JUN	19.9	--	--	25.4
21 JUN	22.0	--	30.2	30.6
28 JUN	23.0	--	32.3	32.5
5 JUL	--	25.3	--	33.8
12 JUL	--	24.4	--	33.5
19 JUL	--	26.7	--	35.1
26 JUL	--	26.7	--	31.9
16 AUG	26.9	--	34.5	34.6
12 SEP	25.3	--	34.0	33.6
25 OCT	11.5	--	--	20.1
15 NOV	11.2	--	--	23.3
6 DEC	6.5	--	--	19.4

(a) Averaged over all sampling depths and collection periods.

TABLE A.3-1 AVERAGE WATER TEMPERATURES, DISSOLVED OXYGEN, CONDUCTIVITY, AND SALINITY. RECORDED AT THE EAST SHORE STATION (RD) DURING THE RIVER TRANSECT STUDY AT THE INDIAN POINT GENERATING STATION, 1977[a]

Date	Temperature (C)	Dissolved Oxygen (ppm)	Conductivity (µmho)	Salinity (ppt)
3 MAY	13.1	9.8	325.7	0.2
10 MAY	12.5	9.0	279.2	0.2
17 MAY	15.1	9.0	314.8	0.2
24 MAY	18.4	8.9	331.2	0.2
31 MAY	19.6	9.0	2,593.6	1.5
7 JUN	19.6	7.5	2,471.0	1.5
14 JUN	19.8	6.9	411.4	0.2
21 JUN	22.1	7.4	4,287.9	2.4
28 JUN	23.7	7.6	4,222.1	2.3
5 JUL	25.3	7.6	3,331.4	1.7
12 JUL	24.9	6.0	5,627.9	3.1
19 JUL	27.0	5.5	7,005.0	3.7
26 JUL	26.7	5.9	6,200.0	3.3
16 AUG	27.0	5.3	923.8	0.4
12 SEP	25.0	6.2	10,918.6	6.2
Mean	20.1	7.8	2,584.8	1.5

(a) Averaged over all sampling depths and collection periods.

Note: pH data not available.

APPENDIX B

TAXA OCCURRENCE AT STANDARD RIVER STATIONS, INDIAN POINT GENERATING STATION, 1971-1977

APPENDIX B TABLES

Title	Number
B.1 MICROZOOPLANKTON TAXA	B.1-1
B.2 MACROZOOPLANKTON TAXA	B.2-1
B.3 ICHTHYOPLANKTON TAXA	B.3-1

TABLE B.1-1 MICROZOOPLANKTON TAXA COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1971-1977[a]

Taxa	1971	1974	1975	1976	1977
Rotifera					
Asplanchna spp.	X	X	X	X	X
Brachionus angularis	X	X	X	X	
B. calyciflorus	X	X	X	X	
B. quadridentata		X	X	X	
Brachionus spp.					X
Callotheca spp.	X				
Conochiloides spp.					X
Filinia longiseta	X	X	X	X	X
Keloicottia longispina	X	X	X	X	
Keratella cochlearis	X	X	X	X	
K. quadrata	X	X	X	X	
K. serrulata		X	X		
K. taurocephla	X				
Lecane spp.		X	X		X
Monostyla spp.	X				
Notholca acuminata	X	X	X	X	
Philodina spp.	X	X	X	X	X
Platyias patulus		X	X	X	
P. quadricornis		X	X		
Ploesoma truncatum	X	X	X	X	
Ploesoma spp.					X
Polyarthra spp.	X	X	X	X	
Synchaeta spp.		X	X		
Trichocerca spp.	X	X	X	X	X
Hexarthra					X
Unidentified rotifers	X	X	X	X	X
Nematoda	X	X	X	X	
Annelida larvae	X	X	X	X	X
Gastropod veliger	X	X	X	X	X
Pelecypod veliger	X	X	X	X	
Crustacea					
Copepoda					
Acartia tonsa	X	X	X	X	X
Canthocamptidae	X	X	X	X	X
Canuellidae	X	X	X	X	X
Cyclops bicuspidatus	X	X	X	X	
Diaptomus spp.					X
Ectinosoma cuticorne	X	X	X	X	X
Epischura spp.	X	X	X		X
Ergasilus spp.	X	X	X	X	X
Eurytemora affinis	X	X	X	X	
Halicyclops fosteri	X	X	X	X	X

(a) The occurrence of microzooplankton taxa from 1971 through 1976 was based on analysis by NYU (NYU 1978).

TABLE B.1-1 (CONT.)

Taxa	1971	1974	1975	1976	1977
Mesocyclops edax				X	
Unidentified harpacticoid					X
Unidentified nauplius	X	X	X	X	X
Unidentified copepodids	X	X	X	X	X
Cladocera					
Bosmina longirostris	X	X	X	X	
Bosmina spp.					X
Unidentified Chydorid	X	X	X	X	X
Daphnia pulex	X	X	X	X	
D. retrocurva					
Daphnia spp.					X
Diaphanosoma brachyurum	X	X	X	X	X
Leptodora kindtii	X	X	X	X	X
Leydigia quadrangularis					
Moina spp.	X	X	X		
Cirripedia nauplius	X	X	X	X	X
Ostracoda	X	X	X	X	X
Isopoda					X
Decapoda zoea					X
Tardigrada	X	X	X	X	

TABLE B.2-1 MACROZOOPLANKTON COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1971-1977[a]

Taxa	1971	1972	1974	1975	1976	1977
Ctenophora			X	X	X	
Coelenterata (= Cnidaria)						
Medusae	X	X	X	X	X	
Annelida						
Oligochaeta	X	X	X	X	X	X
Polychaeta	X	X	X	X	X	X
Hirudinea		X	X	X	X	X
Mollusca						
Gastropoda	X	X				
Pelecypoda	X	X		X		
Crustacea						
Copepoda						
Caligus spp.			X			
Branchyura						
Argulus spp.			X	X	X	X
Malacostraca						
Cumacea		X	X	X	X	X
Mysidacea						
Neomysis americana	X	X	X	X	X	X
Chiridotea almyra	X	X	X	X	X	
Chiridotea spp.						X
Cyathura polita	X	X	X	X	X	
Cyathura spp.						X
Edotea spp.	X	X	X	X	X	X
Cirolana spp.			X	X	X	
Cassidinidea lunifrons					X	
Amphipoda						
Gammarus spp.	X	X	X	X	X	X
Monoculodes edwardsi	X	X	X	X	X	X
Leptocheirus plumulosus	X	X	X	X	X	
Leptocheirus spp.						X
Corophium spp.	X	X	X	X	X	X

(a) The occurrence of macrozooplankton taxa from 1971 through 1976 was based on analysis by NYU (1978).

TABLE B.2-1 (CONT.)

Taxa	1971	1972	1974	1975	1976	1977
Decapoda						
Crangon septemspinosa	X	X	X	X	X	
Crangon spp.						X
Decapod larvae (zoea)		X	X	X	X	
Palaemonetes spp.				X	X	
Insecta						
Odonata (nymphs and adults)	X	X	X	X	X	
Diptera (larvae, pupae, or adults)						
Chaoborus spp.	X	X	X	X	X	X
Chironomidae	X	X	X	X	X	X
Unidentified dipteran						X
Plecoptera (nymphs)				X		
Trichoptera (larvae)					X	
Unidentified Insecta						X
Hydracarina (= Acari)	X	X	X	X	X	

TABLE B.3-1 ICHTHYOPLANKTON TAXA COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1971-1977[a]

Taxa	1971	1972	1973	1974	1975	1976	1977
Atlantic sturgeon	X	X			X	X	
American eel	X	X	X	X	X	X	
Herrings (Alosa spp.)[b]	X	X	X	X	X	X	X
Atlantic menhaden	X						
Anchovies (Engraulidae)	X	X	X	X	X	X	X
Smelts (Osmeridae)	X	X	X	X	X	X	X
Minnows and Carps (Cyprinidae)	X	X	X	X	X	X	X
White catfish			X		X	X	
Atlantic tomcod	X	X	X	X	X	X	
Killifishes (Cyprinodontidae)	X		X		X	X	
Silversides (Atherinidae)	X	X	X	X	X	X	X
Sticklebacks (Gasterosteidae)			X				
Pipefishes (Syngnathidae)	X		X	X	X	X	
White perch	X	X	X	X	X	X	X
Striped bass	X	X	X	X	X	X	X
Sunfishes (Centrarchidae)			X	X	X	X	
Yellow perch	X	X	X	X	X	X	X
Darters (*Etheostoma* spp.)	X	X	X	X	X	X	X
Crevalle jack	X						
Silver perch			X				
Weakfish		X	X	X	X	X	
Gobies (Gobiidae)				X		X	
Windowpane flounder					X		
Hogchoker	X	X	X	X	X	X	

(a) The occurrence of ichthyoplankton taxa from 1971 through 1976 was previously reported by NYU (1978).

(b) Includes blueback herring, alewife, and American shad.

APPENDIX C

ABUNDANCE OF SELECTED TAXA COLLECTED AT STANDARD RIVER STATIONS, INDIAN POINT GENERATING STATION, 1977

APPENDIX C TABLES

Title	Number
C.1 MICROZOOPLANKTON ABUNDANCE	
Total Microzooplankton	C.1-1
Total Crustaceans	C.1-2
Total Rotifers	C.1-3
Total Copepods (all life stages)	C.1-4
Total Adult Copepods	C.1-5
Total Copepodids	C.1-6
Total Copepod Nauplii	C.1-7
Acartia tonsa (copepodids and adults)	C.1-8
Eurytemora affinis (copepodids and adults)	C.1-9
Total Cladocerans	C.1-10
Bosmina longirostris	C.1-11
Diaphanosoma brachyurum	C.1-12
Cyclops bicuspidatus	C.1-13
Halicyclops fosteri	C.1-14
C.2 MACROZOOPLANKTON ABUNDANCE	
Total Macrozooplankton	C.2-1
Gammarus spp. (Surface)	C.2-2
Gammarus spp. (Middepth)	C.2-3
Gammarus spp. (Bottom)	C.2-4
Neomysis americana (Surface)	C.2-5
Neomysis americana (Middepth)	C.2-6
Neomysis americana (Bottom)	C.2-7
Monoculodes edwardsi (Surface)	C.2-8
Monoculodes edwardsi (Middepth)	C.2-9
Monoculodes edwardsi (Bottom)	C.2-10
Chaoborus punctipennis (Surface)	C.2-11
Chaoborus punctipennis (Middepth)	C.2-12
Chaoborus punctipennis (Bottom)	C.2-13
C.3 ICHTHYOPLANKTON ABUNDANCE	
Total Ichthyoplankton Eggs	C.3-1
Total Ichthyoplankton Yolk-Sac Larvae	C.3-2
Total Ichthyoplankton Post Yolk-Sac Larvae	C.3-3
Striped Bass Eggs (Surface)	C.3-4
Striped Bass Eggs (Middepth)	C.3-5
Striped Bass Eggs (Bottom)	C.3-6
Striped Bass Yolk-Sac Larvae (Surface)	C.3-7
Striped Bass Yolk-Sac Larvae (Middepth)	C.3-8
Striped Bass Yolk-Sac Larvae (Bottom)	C.3-9
Striped Bass Post Yolk-Sac Larvae (Surface)	C.3-10
Striped Bass Post Yolk-Sac Larvae (Middepth)	C.3-11
Striped Bass Post Yolk-Sac Larvae (Bottom)	C.3-12

Title	Number
White Perch Eggs	C.3-13
White Perch Yolk-Sac Larvae	C.3-14
Alosa spp. Yolk-Sac Larvae	C.3-15
Bay Anchovy Eggs	C.3-16
Bay Anchovy Yolk-Sac Larvae	C.3-17

TABLE C.1-1 DENSITIES (No./liter) OF TOTAL MICROZOOPLANKTON COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
5 MAY 77	31.3	41.3	27.2	24.3	25.7	24.2	44.6	31.2
18 MAY 77	26.5	41.1	49.8	20.4	22.0	24.2	46.0	32.9
2 JUN 77	961.0	360.6	350.8	313.7	224.0	236.7	367.7	402.1
15 JUN 77	90.6	205.8	125.1	142.2	126.8	393.6	79.6	166.2
27 JUN 77	116.9	228.7	138.5	92.6	89.4	232.0	156.3	150.6
12 JUL 77	78.1	71.3	83.8	84.4	65.6	187.3	92.4	94.7
26 JUL 77	62.6	172.7	63.1	30.2	36.1	88.7	65.2	74.1
9 AUG 77	104.1	225.7	70.5	117.6	62.8	184.0	232.6	142.5
22 AUG 77	42.8	30.6	85.6	84.1	62.1	126.2	47.9	68.5
8 SEP 77	62.2	84.8	69.1	306.1	273.7	199.6	77.8	153.3
21 SEP 77	45.3	26.2	39.9	32.5	15.1	26.0	25.0	30.0
4 OCT 77	191.6	136.2	92.3	132.9	102.6	152.0	175.5	140.4
18 OCT 77	29.5	21.0	20.1	16.4	14.4	19.9	48.1	24.2
1 NOV 77	15.4	24.2	23.5	17.6	17.9	15.4	23.5	19.6
15 NOV 77	10.1	18.1	19.6	20.5	18.7	16.4	23.9	18.2
29 NOV 77	8.5	11.1	6.1	10.5	11.6	10.6	8.0	9.5
MEAN	117.3	106.2	79.1	90.4	73.0	121.0	94.6	97.4
				NIGHT				
5 MAY 77	17.9	20.5	21.4	20.2	20.1	34.4	16.3	21.5
25 MAY 77	230.8	260.0	191.1	145.7	161.6	178.8	188.4	193.8
2 JUN 77	393.8	513.3	410.1	432.2	446.7	372.7	468.9	434.0
15 JUN 77	71.9	204.4	129.7	117.5	89.7	381.1	206.5	171.5
30 JUN 77	160.1	87.4	61.4	102.1	112.6	135.6	113.4	110.4
12 JUL 77	103.6	184.0	141.8	141.6	161.8	154.5	158.7	149.4
27 JUL 77	71.0	44.5	150.6	36.3	28.3	81.8	150.2	80.4
9 AUG 77	125.8	216.2	264.7	189.2	223.2	264.6	282.1	223.7
23 AUG 77	99.7	146.1	145.7	63.7	32.1	57.8	196.9	106.0
8 SEP 77	108.8	128.2	133.2	89.0	87.1	180.5	132.0	122.7
21 SEP 77	14.8	57.8	64.7	18.2	11.6	150.8	41.4	51.3
4 OCT 77	96.3	110.7	68.1	73.2	54.2	63.0	73.8	77.0
18 OCT 77	19.0	19.3	20.5	18.2	26.7	22.1	25.9	21.7
1 NOV 77	15.5	24.2	18.3	18.5	14.0	18.8	21.5	18.7
15 NOV 77	22.2	22.0	22.1	19.7	23.8	17.6	15.8	20.5
29 NOV 77	2.7	7.5	3.7	9.5	9.3	8.2	5.3	6.6
MEAN	97.1	127.9	115.4	93.4	93.9	132.6	131.1	113.1

TABLE C.1-2 DENSITIES (No./liter) OF TOTAL CRUSTACEANS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
5 MAY 77	9.9	13.1	10.6	7.1	11.3	10.6	18.5	11.6
18 MAY 77	12.2	12.5	18.0	7.5	10.3	10.2	17.5	12.6
2 JUN 77	809.3	200.1	237.9	202.7	149.7	176.0	292.5	295.5
15 JUN 77	89.9	204.3	124.1	141.0	126.3	387.2	72.7	163.6
27 JUN 77	116.7	228.3	137.6	92.1	89.0	229.4	151.7	149.3
12 JUL 77	75.6	64.6	77.8	76.0	62.5	171.4	80.9	87.0
26 JUL 77	59.1	170.8	57.4	28.2	32.7	80.0	58.7	69.6
9 AUG 77	98.6	211.0	65.6	111.1	59.3	168.7	222.7	133.9
22 AUG 77	42.5	29.9	84.7	83.7	61.6	124.0	45.4	67.4
8 SEP 77	53.9	76.3	59.1	265.7	231.8	169.4	69.9	132.3
21 SEP 77	42.7	25.2	38.8	30.7	14.3	25.3	23.3	28.6
4 OCT 77	147.6	105.6	66.8	115.6	84.3	129.2	147.4	113.8
18 OCT 77	20.9	13.1	16.0	10.4	10.0	12.4	40.6	17.6
1 NOV 77	7.4	16.1	12.0	12.1	12.9	6.6	14.0	11.6
15 NOV 77	2.3	4.9	3.3	7.3	8.4	2.4	5.7	4.9
29 NOV 77	2.3	3.4	2.1	2.9	3.5	3.1	2.5	2.8
MEAN	99.4	86.2	63.2	74.6	60.5	106.6	79.0	81.4
				NIGHT				
5 MAY 77	10.4	9.4	10.3	7.9	8.8	13.0	8.2	9.7
25 MAY 77	63.7	89.4	54.0	51.8	49.6	64.7	60.1	61.9
2 JUN 77	216.8	197.5	219.6	205.4	247.5	271.4	329.6	241.1
15 JUN 77	70.5	201.6	124.3	117.0	88.2	374.5	203.1	168.5
30 JUN 77	159.0	86.7	60.8	101.8	112.0	133.4	111.6	109.3
12 JUL 77	91.0	168.1	130.8	127.2	143.5	129.4	139.2	132.7
27 JUL 77	59.9	39.1	139.5	33.5	23.8	73.7	131.9	71.6
9 AUG 77	123.6	204.8	253.0	183.1	215.5	255.8	271.7	215.4
23 AUG 77	95.2	142.3	141.2	62.4	31.0	55.0	189.1	102.3
8 SEP 77	85.1	102.1	103.9	72.0	74.7	153.7	99.3	98.7
21 SEP 77	14.4	56.6	63.5	17.7	11.4	147.5	40.8	50.3
4 OCT 77	62.8	83.0	49.3	58.7	39.9	49.2	55.1	56.9
18 OCT 77	15.7	13.9	16.5	14.5	24.7	16.3	20.3	17.4
1 NOV 77	8.0	11.4	6.3	9.5	7.3	9.4	11.8	9.1
15 NOV 77	3.4	3.5	3.8	2.9	6.2	2.8	2.3	3.6
29 NOV 77	1.1	2.3	0.9	2.8	3.3	1.9	2.2	2.1
MEAN	67.5	88.2	86.1	66.8	68.0	109.5	104.8	84.4

TABLE C.1-3 DENSITIES (No./liter) OF TOTAL ROTIFERS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
5 MAY 77	21.4	28.0	16.6	17.2	14.3	13.6	26.1	19.6
18 MAY 77	14.3	28.6	31.8	12.9	11.7	14.0	28.5	20.3
2 JUN 77	151.7	160.5	112.8	110.9	74.3	60.7	75.2	106.6
15 JUN 77	0.6	1.5	0.9	1.1	0.5	5.8	4.2	2.1
27 JUN 77	0.1	0.4	0.2	0.0	0.1	0.3	0.3	0.2
12 JUL 77	0.3	0.9	1.0	0.7	0.6	0.1	0.2	0.5
26 JUL 77	0.1	0.0	0.0	0.4	0.2	0.3	0.0	0.1
9 AUG 77	0.1	12.9	0.5	0.2	0.2	0.3	0.3	2.1
22 AUG 77	0.0	0.1	0.0	0.0	0.2	0.7	0.2	0.2
8 SEP 77	3.3	6.6	8.4	40.1	41.1	27.6	2.7	18.5
21 SEP 77	2.3	0.9	1.0	1.8	0.7	0.5	1.0	1.2
4 OCT 77	44.0	30.6	25.5	17.3	18.3	22.8	28.0	26.6
18 OCT 77	8.6	7.9	4.1	6.0	4.4	7.4	7.5	6.6
1 NOV 77	8.0	8.1	11.5	5.5	5.0	8.8	9.5	8.1
15 NOV 77	7.8	13.2	16.3	13.2	10.3	13.9	18.2	13.3
29 NOV 77	6.2	7.7	4.0	7.5	8.1	7.5	5.5	6.6
MEAN	16.8	19.2	14.7	14.7	11.9	11.5	13.0	14.5
				NIGHT				
5 MAY 77	7.4	10.7	10.7	12.0	11.1	21.2	7.8	11.6
25 MAY 77	167.1	170.6	137.1	93.9	112.0	114.1	128.3	131.9
2 JUN 77	177.0	315.8	190.4	226.8	199.2	101.3	139.3	192.8
15 JUN 77	1.3	2.7	4.6	0.5	1.1	6.1	3.2	2.8
30 JUN 77	0.6	0.7	0.5	0.0	0.0	0.1	0.1	0.3
12 JUL 77	0.1	0.0	0.4	0.4	0.2	0.1	0.2	0.2
27 JUL 77	0.0	0.0	0.1	0.0	0.2	0.1	1.1	0.2
9 AUG 77	0.0	1.2	1.1	1.6	2.1	1.8	1.4	1.3
23 AUG 77	0.2	1.0	2.9	0.7	0.1	0.4	4.7	1.4
8 SEP 77	20.1	23.9	25.0	15.0	10.2	24.4	29.8	21.2
21 SEP 77	0.1	0.8	0.3	0.1	0.0	2.9	0.3	0.6
4 OCT 77	33.5	27.7	18.8	14.5	14.3	13.8	18.5	20.2
18 OCT 77	3.3	5.4	4.0	3.7	2.0	5.8	5.6	4.3
1 NOV 77	7.5	12.8	12.0	9.0	6.7	9.4	9.7	9.6
15 NOV 77	18.8	18.5	18.3	16.8	17.6	14.7	13.5	16.9
29 NOV 77	1.6	5.2	2.8	6.7	6.0	6.3	3.1	4.5
MEAN	27.4	37.3	26.8	25.1	23.9	20.2	22.9	26.2

TABLE C.1-4 DENSITIES (No./liter) OF TOTAL COPEPODS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
5 MAY 77	9.7	13.0	10.5	7.0	11.3	10.6	18.3	11.5
18 MAY 77	11.9	11.8	17.6	7.0	10.0	9.9	17.2	12.2
2 JUN 77	805.1	184.6	227.3	192.5	142.2	170.5	285.9	286.9
15 JUN 77	85.5	196.6	119.5	137.3	124.1	385.7	69.9	159.8
27 JUN 77	116.1	227.1	137.4	92.0	87.9	228.5	151.1	148.6
12 JUL 77	74.9	64.1	77.3	75.4	62.2	170.0	79.9	86.3
26 JUL 77	57.9	169.7	56.2	26.8	30.7	78.1	58.1	68.2
9 AUG 77	95.7	209.7	62.8	109.7	57.8	165.5	220.1	131.6
22 AUG 77	41.7	28.3	83.1	82.6	60.9	121.7	44.7	66.1
8 SEP 77	52.7	75.8	58.0	265.3	231.3	169.1	69.6	131.7
21 SEP 77	41.5	23.6	38.1	29.4	13.2	24.8	22.0	27.5
4 OCT 77	139.2	103.7	54.8	113.0	80.7	125.8	141.7	108.4
18 OCT 77	19.4	11.4	13.5	9.9	9.3	12.2	33.1	15.5
1 NOV 77	7.0	14.7	11.9	12.0	12.8	6.6	13.7	11.2
15 NOV 77	2.3	4.8	3.2	7.0	8.0	2.1	5.5	4.7
29 NOV 77	2.0	3.2	2.0	2.9	3.4	3.0	2.5	2.7
MEAN	97.7	83.9	60.8	73.1	59.1	105.3	77.1	79.6
				NIGHT				
5 MAY 77	10.3	9.4	10.3	7.8	8.7	12.9	8.2	9.7
25 MAY 77	60.7	86.5	51.8	51.1	48.6	62.9	58.6	60.0
2 JUN 77	209.4	182.3	212.2	194.9	240.3	267.5	316.1	231.8
15 JUN 77	67.4	194.0	121.7	113.0	84.7	372.6	200.1	164.8
30 JUN 77	155.6	85.4	60.1	100.8	111.6	132.9	111.5	108.3
12 JUL 77	89.6	167.1	128.8	125.0	141.6	127.6	136.6	130.9
27 JUL 77	58.8	38.8	137.5	33.3	22.7	72.4	129.3	70.4
9 AUG 77	122.5	203.1	249.5	182.2	214.6	253.5	270.0	213.6
23 AUG 77	94.6	139.8	137.3	61.2	30.5	54.0	185.6	100.4
8 SEP 77	84.9	101.8	103.0	71.0	74.0	153.1	98.0	98.0
21 SEP 77	14.1	54.3	61.8	16.5	11.1	145.7	38.0	48.8
4 OCT 77	56.5	79.2	45.2	56.6	37.6	48.0	41.4	52.1
18 OCT 77	13.6	11.4	13.3	13.0	23.2	16.2	19.1	15.7
1 NOV 77	7.9	10.9	6.0	9.1	7.1	9.1	11.5	8.8
15 NOV 77	3.1	2.7	3.5	2.3	5.7	2.7	2.2	3.2
29 NOV 77	1.0	2.1	0.9	2.7	3.1	1.8	2.2	2.0
MEAN	65.6	85.5	83.9	65.0	66.6	108.3	101.8	82.4

TABLE C.1-5 DENSITIES (No./liter) OF TOTAL ADULT COPEPODS COLLECTED AT STANDARD RIVER STATION IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

	STATION							
DATE	A	B	C	D	E	F	G	MEAN
				DAY				
5 MAY 77	0.9	2.0	1.3	0.7	2.7	3.6	4.6	2.3
18 MAY 77	2.2	0.3	1.9	0.5	0.9	0.9	1.6	1.2
2 JUN 77	1.9	44.5	64.9	36.4	26.7	31.4	24.4	32.9
15 JUN 77	19.7	19.4	46.4	24.3	9.2	18.3	42.2	25.6
27 JUN 77	29.7	33.4	33.8	47.5	54.5	33.1	64.6	42.4
12 JUL 77	15.0	21.9	25.3	24.5	24.0	31.4	37.2	25.6
26 JUL 77	14.9	33.3	20.3	9.0	13.3	43.6	27.3	23.1
9 AUG 77	50.2	48.3	23.7	66.6	29.1	53.2	67.2	48.3
22 AUG 77	5.8	8.4	13.4	3.8	3.7	9.3	13.9	8.3
8 SEP 77	28.7	18.7	6.0	23.2	18.8	44.6	32.7	24.7
21 SEP 77	1.0	4.2	2.4	2.2	1.2	1.6	2.4	2.1
4 OCT 77	4.0	0.9	4.6	5.7	12.6	8.1	2.5	5.5
18 OCT 77	3.4	1.0	4.0	2.3	2.4	0.1	9.0	3.2
1 NOV 77	0.7	1.6	0.5	3.1	2.5	0.7	0.3	1.3
15 NOV 77	0.8	1.9	1.0	2.6	3.3	0.1	1.3	1.6
29 NOV 77	0.5	0.4	0.4	0.6	0.5	0.4	0.2	0.4
MEAN	11.2	15.0	15.6	15.8	12.8	17.5	20.7	15.5
				NIGHT				
5 MAY 77	4.4	1.7	2.3	1.4	2.3	2.4	3.9	2.6
25 MAY 77	2.0	6.1	1.1	0.6	2.6	3.3	2.8	2.6
2 JUN 77	45.0	8.4	17.9	11.2	24.7	31.3	35.4	24.8
15 JUN 77	28.5	42.1	33.8	41.2	27.9	39.0	28.8	34.5
30 JUN 77	24.0	27.8	20.3	25.5	32.9	33.5	21.7	26.5
12 JUL 77	24.5	29.7	25.6	22.3	26.8	35.9	26.0	27.3
27 JUL 77	18.6	11.4	77.7	14.5	10.2	22.1	54.9	29.9
9 AUG 77	69.1	81.3	68.4	62.0	126.2	47.7	101.0	79.4
23 AUG 77	22.3	14.2	17.3	6.7	6.8	3.9	28.5	14.2
8 SEP 77	29.8	21.6	15.2	7.1	10.9	15.6	9.1	15.6
21 SEP 77	5.3	5.7	4.1	1.0	0.7	0.6	5.9	3.3
4 OCT 77	5.3	15.6	12.8	5.8	5.4	20.4	7.4	10.4
18 OCT 77	7.3	1.3	1.8	2.8	12.0	5.0	2.0	4.6
1 NOV 77	0.7	0.3	0.6	1.1	0.9	0.1	0.7	0.6
15 NOV 77	0.4	0.5	1.1	0.3	2.2	0.9	0.0	0.8
29 NOV 77	0.2	0.2	0.2	0.4	0.3	0.2	0.3	0.3
MEAN	18.0	16.7	18.8	12.7	18.3	16.4	20.5	17.3

TABLE C.1-6 DENSITIES (No./liter) OF TOTAL COPEPODIDS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
5 MAY 77	2.9	4.0	3.5	1.2	2.8	1.8	3.8	2.9
18 MAY 77	2.4	2.0	2.8	1.6	3.0	1.9	2.5	2.3
2 JUN 77	10.9	46.0	24.4	27.1	19.3	36.9	13.8	25.5
15 JUN 77	4.2	7.7	4.3	1.9	2.7	1.4	4.5	3.8
27 JUN 77	35.6	28.5	39.6	31.9	19.0	20.9	35.8	30.2
12 JUL 77	5.2	6.4	3.9	7.4	5.7	8.0	13.8	7.2
26 JUL 77	5.5	5.7	6.5	3.1	2.6	12.8	11.2	6.8
9 AUG 77	17.6	8.8	14.1	25.5	14.0	75.3	70.4	32.2
22 AUG 77	2.1	1.9	3.0	1.0	1.3	5.9	5.7	3.0
8 SEP 77	8.6	8.8	11.1	12.7	7.6	34.0	25.1	15.4
21 SEP 77	6.8	5.8	2.8	4.0	1.5	4.4	5.2	4.4
4 OCT 77	42.7	18.3	23.7	47.8	32.4	45.8	20.1	33.0
18 OCT 77	2.1	1.2	1.4	0.6	1.0	0.4	4.1	1.5
1 NOV 77	1.1	4.1	1.1	1.8	1.2	1.1	1.9	1.8
15 NOV 77	0.5	1.1	0.7	2.3	2.8	1.0	1.0	1.3
29 NOV 77	0.6	1.1	0.4	0.7	0.7	0.5	0.9	0.7
MEAN	9.3	9.5	9.0	10.7	7.3	15.8	13.7	10.7
				NIGHT				
5 MAY 77	2.8	3.2	3.2	2.3	2.7	4.7	1.8	3.0
25 MAY 77	3.3	6.1	2.3	1.4	2.7	3.9	2.9	3.2
2 JUN 77	19.8	18.9	17.3	17.5	21.0	17.2	26.1	19.7
15 JUN 77	3.4	4.6	3.6	5.5	3.8	1.7	2.1	3.5
30 JUN 77	16.1	17.8	13.9	13.1	13.6	13.8	11.9	14.3
12 JUL 77	8.2	14.8	16.8	9.1	10.9	41.9	28.2	18.6
27 JUL 77	6.9	2.9	23.4	2.9	2.2	20.1	33.1	13.1
9 AUG 77	20.6	52.9	92.9	57.0	32.4	65.8	70.7	56.0
23 AUG 77	13.0	13.7	15.1	4.9	2.7	9.7	24.8	12.0
8 SEP 77	12.3	16.0	23.0	17.2	11.8	30.1	21.1	18.8
21 SEP 77	3.7	6.1	6.0	1.6	1.4	1.4	3.5	3.4
4 OCT 77	15.2	27.4	18.5	11.7	9.6	17.2	15.3	16.4
18 OCT 77	1.1	0.7	0.8	1.3	2.8	0.9	2.4	1.4
1 NOV 77	0.9	1.3	0.3	0.7	1.3	0.7	1.1	0.9
15 NOV 77	1.3	0.9	0.8	0.7	1.4	0.6	0.9	0.9
29 NOV 77	0.2	0.7	0.2	0.5	0.5	0.7	0.6	0.5
MEAN	8.0	11.8	14.9	9.2	7.5	14.4	15.4	11.6

TABLE C.1-7 DENSITIES (No./liter) OF TOTAL COPEPOD NAUPLII COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
5 MAY 77	5.9	7.0	5.7	5.1	5.8	5.2	9.9	6.4
18 MAY 77	7.3	9.5	12.9	4.9	6.1	7.1	13.1	8.7
2 JUN 77	792.3	94.1	138.0	129.0	96.2	102.2	247.7	228.5
15 JUN 77	61.6	169.4	68.8	111.0	112.2	366.0	23.2	130.3
27 JUN 77	50.8	165.2	64.0	12.6	14.4	174.5	50.7	76.0
12 JUL 77	54.7	35.8	48.1	43.5	32.5	130.6	28.9	53.4
26 JUL 77	37.5	130.7	29.4	14.7	14.8	21.7	19.6	38.3
9 AUG 77	27.9	152.6	25.0	17.6	14.7	37.0	82.5	51.0
22 AUG 77	33.8	18.0	66.7	77.8	55.9	106.5	25.1	54.8
8 SEP 77	15.4	48.3	40.9	229.4	204.9	90.5	11.8	91.6
21 SEP 77	33.7	13.6	32.9	23.2	10.5	18.8	14.4	21.0
4 OCT 77	92.5	84.5	26.5	59.5	35.7	71.9	119.1	70.0
18 OCT 77	13.9	9.2	8.1	7.0	5.9	11.7	20.0	10.8
1 NOV 77	5.2	9.0	10.3	7.1	9.1	4.8	11.5	8.1
15 NOV 77	1.0	1.8	1.5	2.1	1.9	1.0	3.2	1.8
29 NOV 77	0.9	1.7	1.2	1.6	2.2	2.1	1.4	1.6
MEAN	77.2	59.4	36.3	46.6	38.9	72.0	42.6	53.3
				NIGHT				
5 MAY 77	3.1	4.5	4.8	4.1	3.7	5.8	2.5	4.1
25 MAY 77	55.4	74.3	48.4	49.1	43.3	55.7	52.9	54.2
2 JUN 77	144.6	155.0	176.9	166.0	194.6	218.8	254.4	187.2
15 JUN 77	35.4	147.2	84.3	66.3	53.0	331.7	169.2	126.7
30 JUN 77	115.5	39.7	25.8	62.2	65.1	85.5	77.9	67.4
12 JUL 77	56.9	122.6	86.4	93.6	103.9	49.8	82.4	85.1
27 JUL 77	33.3	24.5	36.4	15.9	10.3	30.2	41.3	27.4
9 AUG 77	32.8	68.9	88.2	63.2	56.0	140.0	98.3	78.2
23 AUG 77	59.3	111.9	104.9	49.6	21.0	40.4	132.3	74.2
8 SEP 77	42.8	64.2	64.8	46.7	51.3	107.4	67.8	63.6
21 SEP 77	5.1	42.5	51.7	13.9	9.0	143.7	28.6	42.1
4 OCT 77	36.0	36.2	13.9	39.1	22.6	10.4	18.7	25.3
18 OCT 77	5.2	9.4	10.7	8.9	8.4	10.3	14.7	9.7
1 NOV 77	6.3	9.3	5.1	7.3	4.9	8.3	9.7	7.3
15 NOV 77	1.4	1.2	1.5	1.2	2.1	1.2	1.3	1.4
29 NOV 77	0.6	1.2	0.5	1.8	2.3	0.9	1.3	1.2
MEAN	39.6	57.0	50.3	43.1	40.7	77.5	65.8	53.4

TABLE C.1-8 DENSITIES (No./liter) OF *ACARTIA TONSA* COPEPODIDS AND ADULTS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
2 JUN 77	0.0	0.1	0.3	0.1	0.1	0.0	0.1	0.1
15 JUN 77	2.3	1.9	4.3	3.3	0.6	2.0	8.9	3.3
27 JUN 77	3.7	2.3	2.9	2.5	2.0	6.8	12.1	4.6
12 JUL 77	9.5	9.1	14.9	19.4	18.6	27.5	28.9	18.3
26 JUL 77	9.9	32.8	16.4	3.7	6.9	39.3	24.4	19.1
9 AUG 77	46.2	47.6	22.7	64.8	27.4	51.1	65.5	46.5
22 AUG 77	3.2	4.6	12.5	3.0	3.1	9.1	13.0	6.9
8 SEP 77	27.9	18.3	5.7	22.9	18.7	44.0	32.7	24.3
21 SEP 77	0.2	0.1	0.2	0.1	0.0	0.2	0.7	0.2
4 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	6.4	7.3	5.0	7.5	4.8	11.3	11.6	7.7
				NIGHT				
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 MAY 77	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0
2 JUN 77	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
15 JUN 77	2.3	6.6	3.3	1.8	2.0	0.8	5.3	3.2
30 JUN 77	0.6	0.7	2.2	0.3	1.2	2.4	2.7	1.4
12 JUL 77	15.0	20.0	18.9	14.7	17.8	28.4	20.6	19.3
27 JUL 77	11.6	7.0	71.7	10.3	6.6	20.9	49.2	25.3
9 AUG 77	65.2	78.9	65.3	59.7	122.1	46.7	99.5	76.8
23 AUG 77	20.5	13.4	17.1	5.1	2.4	3.0	27.9	12.8
8 SEP 77	29.2	20.2	14.6	6.2	9.0	14.4	8.2	14.5
21 SEP 77	0.3	1.0	3.2	0.3	0.2	0.4	5.7	1.6
4 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
18 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 NOV 77	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	9.1	9.2	12.3	6.2	10.1	7.3	13.7	9.7

TABLE C.1-9 DENSITIES (No./liter) OF EURYTEMORA AFFINIS COPEPODIDS AND ADULTS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 MAY 77	0.2	0.0	0.1	0.0	0.0	0.0	0.1	0.1
2 JUN 77	0.1	16.9	50.5	15.5	9.8	23.7	21.0	19.6
15 JUN 77	15.3	17.3	40.9	19.8	7.0	15.3	32.0	21.1
27 JUN 77	23.9	29.7	30.1	43.1	49.4	24.8	49.9	35.8
12 JUL 77	3.7	10.3	7.8	2.1	3.4	2.4	6.1	5.1
26 JUL 77	4.2	0.4	3.6	4.4	5.7	4.0	2.5	3.5
9 AUG 77	3.4	0.4	0.9	1.6	1.5	1.4	1.0	1.5
22 AUG 77	0.2	0.8	0.1	0.2	0.0	0.0	0.2	0.2
8 SEP 77	0.4	0.0	0.0	0.1	0.0	0.3	0.0	0.1
21 SEP 77	0.1	0.8	1.0	0.7	0.3	0.7	1.0	0.7
4 OCT 77	0.1	0.0	0.2	0.0	0.2	0.0	0.0	0.1
18 OCT 77	0.0	0.1	0.3	0.2	0.2	0.0	2.6	0.5
1 NOV 77	0.0	0.5	0.2	0.5	0.3	0.1	0.0	0.2
15 NOV 77	0.1	0.6	0.3	1.0	1.3	0.0	0.0	0.5
29 NOV 77	0.0	0.2	0.1	0.2	0.1	0.0	0.1	0.1
MEAN	3.2	4.9	8.5	5.6	5.0	4.5	7.3	5.6
				NIGHT				
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 MAY 77	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0
2 JUN 77	28.4	3.8	12.3	7.2	5.2	27.6	29.5	16.3
15 JUN 77	11.6	22.6	20.4	7.3	5.7	4.1	10.9	11.8
30 JUN 77	19.9	20.9	12.5	16.2	18.7	20.0	12.4	17.2
12 JUL 77	4.1	4.9	3.8	2.7	2.5	6.1	3.5	3.9
27 JUL 77	2.6	1.3	4.9	1.7	0.9	0.6	2.5	2.1
9 AUG 77	2.3	1.7	0.5	0.5	0.1	0.2	0.2	0.8
23 AUG 77	0.6	0.6	0.1	0.2	0.3	0.3	0.0	0.3
8 SEP 77	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
21 SEP 77	3.9	4.4	0.6	0.5	0.3	0.0	0.1	1.4
4 OCT 77	0.5	0.1	0.1	0.0	0.3	0.3	0.8	0.3
18 OCT 77	0.1	0.0	0.4	0.3	6.3	0.1	0.1	1.0
1 NOV 77	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.1
15 NOV 77	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.1
29 NOV 77	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
MEAN	4.6	3.8	3.5	2.3	2.6	3.7	3.8	3.5

TABLE C.1-10 DENSITIES (No./liter) OF TOTAL CLADOCERANS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
5 MAY 77	0.2	0.1	0.1	0.1	0.0	0.0	0.2	0.1
18 MAY 77	0.3	0.7	0.4	0.5	0.3	0.3	0.3	0.4
2 JUN 77	4.2	15.5	10.0	9.9	6.8	4.6	5.2	8.0
15 JUN 77	4.2	7.7	4.2	3.5	1.9	0.7	0.8	3.3
27 JUN 77	0.6	1.2	0.1	0.0	0.5	0.0	0.1	0.4
12 JUL 77	0.7	0.5	0.4	0.5	0.3	0.3	0.8	0.5
26 JUL 77	0.7	0.5	0.7	0.9	0.7	0.9	0.1	0.6
9 AUG 77	2.7	0.4	1.6	0.9	0.9	2.6	1.1	1.5
22 AUG 77	0.3	1.0	0.2	0.3	0.2	0.0	0.0	0.3
8 SEP 77	1.1	0.2	0.3	0.3	0.1	0.0	0.2	0.3
21 SEP 77	0.3	1.2	0.5	0.6	0.6	0.1	0.4	0.5
4 OCT 77	8.4	1.9	12.0	2.6	3.6	3.4	5.7	5.4
18 OCT 77	1.5	1.7	2.5	0.5	0.7	0.2	7.5	2.1
1 NOV 77	0.4	1.4	0.1	0.1	0.1	0.0	0.3	0.3
15 NOV 77	0.0	0.1	0.1	0.3	0.4	0.3	0.2	0.2
29 NOV 77	0.3	0.2	0.1	0.0	0.1	0.1	0.0	0.1
MEAN	1.6	2.1	2.1	1.3	1.1	0.8	1.4	1.5
				NIGHT				
5 MAY 77	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.1
25 MAY 77	3.0	2.9	2.2	0.7	1.0	1.8	1.5	1.9
2 JUN 77	6.7	15.2	7.3	10.0	6.3	3.6	11.6	8.7
15 JUN 77	3.1	5.5	1.6	3.5	3.0	1.0	1.5	2.7
30 JUN 77	3.3	1.3	0.6	0.8	0.4	0.4	0.0	1.0
12 JUL 77	0.1	0.5	0.4	0.4	0.3	0.2	0.2	0.3
27 JUL 77	0.6	0.1	0.9	0.1	0.1	0.1	0.0	0.3
9 AUG 77	0.5	0.7	1.5	0.3	0.4	0.4	0.1	0.6
23 AUG 77	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0
8 SEP 77	0.1	0.0	0.2	0.0	0.2	0.1	0.0	0.1
21 SEP 77	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4 OCT 77	6.3	3.8	4.1	2.1	2.3	1.2	13.7	4.8
18 OCT 77	2.1	2.5	3.2	1.5	1.5	0.1	1.2	1.7
1 NOV 77	0.1	0.5	0.3	0.4	0.2	0.3	0.3	0.3
15 NOV 77	0.3	0.8	0.3	0.6	0.5	0.1	0.1	0.4
29 NOV 77	0.1	0.2	0.0	0.1	0.2	0.1	0.0	0.1
MEAN	1.7	2.1	1.4	1.3	1.0	0.6	1.9	1.4

TABLE C.1-11 DENSITIES (No./liter) OF BOSMINA LONGIROSTRIS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
5 MAY 77	0.1	0.1	0.1	0.1	0.0	0.0	0.2	0.1
18 MAY 77	0.3	0.7	0.4	0.4	0.3	0.3	0.3	0.4
2 JUN 77	3.2	10.6	7.7	6.9	4.9	3.6	4.2	5.9
15 JUN 77	0.1	2.4	0.8	0.5	1.1	0.4	0.2	0.8
27 JUN 77	0.3	0.1	0.1	0.0	0.0	0.0	0.1	0.1
12 JUL 77	0.0	0.1	0.0	0.2	0.0	0.0	0.1	0.1
26 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 AUG 77	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
22 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8 SEP 77	0.1	0.2	0.2	0.3	0.0	0.0	0.1	0.1
21 SEP 77	0.1	0.8	0.3	0.4	0.5	0.1	0.2	0.3
4 OCT 77	7.2	1.0	7.3	0.5	1.6	2.0	2.3	3.1
18 OCT 77	1.3	1.6	2.2	0.5	0.6	0.2	6.1	1.8
1 NOV 77	0.3	1.2	0.1	0.1	0.1	0.0	0.2	0.3
15 NOV 77	0.0	0.1	0.1	0.2	0.2	0.3	0.1	0.1
29 NOV 77	0.2	0.2	0.1	0.0	0.1	0.1	0.0	0.1
MEAN	0.8	1.2	1.2	0.6	0.6	0.4	0.9	0.8
				NIGHT				
5 MAY 77	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.1
25 MAY 77	2.6	2.4	1.5	0.6	0.8	1.6	1.5	1.6
2 JUN 77	4.9	7.1	4.8	5.8	3.1	2.6	5.7	4.9
15 JUN 77	1.3	1.5	0.2	1.4	1.1	0.0	0.0	0.8
30 JUN 77	0.0	0.4	0.3	0.1	0.2	0.0	0.0	0.1
12 JUL 77	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
27 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 AUG 77	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
23 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8 SEP 77	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0
21 SEP 77	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1
4 OCT 77	3.9	2.7	3.3	1.6	1.6	0.7	11.0	3.5
18 OCT 77	1.7	2.3	2.9	1.4	1.0	0.1	1.1	1.5
1 NOV 77	0.1	0.5	0.3	0.4	0.2	0.3	0.3	0.3
15 NOV 77	0.2	0.5	0.2	0.4	0.2	0.1	0.1	0.2
29 NOV 77	0.1	0.2	0.0	0.1	0.2	0.1	0.0	0.1
MEAN	0.9	1.1	0.9	0.8	0.5	0.3	1.2	0.8

TABLE C.1-12 DENSITIES (No./liter) OF DIAPHANOSOMA BRACHYURUM COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 JUL 77	0.1	0.0	0.0	0.1	0.0	0.0	0.3	0.1
26 JUL 77	0.2	0.2	0.2	0.2	0.3	0.3	0.0	0.2
9 AUG 77	1.4	0.0	0.9	0.7	0.7	2.2	0.5	0.9
22 AUG 77	0.2	0.8	0.2	0.0	0.2	0.0	0.0	0.2
8 SEP 77	1.0	0.0	0.0	0.0	0.1	0.0	0.1	0.2
21 SEP 77	0.1	0.3	0.2	0.2	0.1	0.0	0.1	0.1
4 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1
				NIGHT				
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 MAY 77	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 JUL 77	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0
27 JUL 77	0.3	0.0	0.3	0.1	0.0	0.0	0.0	0.1
9 AUG 77	0.2	0.2	0.8	0.2	0.1	0.3	0.1	0.3
23 AUG 77	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0
8 SEP 77	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0
21 SEP 77	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0

TABLE C.1-13 DENSITIES (No./liter) OF CYCLOPS BICUSPIDATUS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
5 MAY 77	0.1	0.2	0.2	0.0	0.3	0.3	0.2	0.2
18 MAY 77	0.1	0.1	0.3	0.1	0.4	0.0	0.3	0.2
2 JUN 77	0.2	3.3	0.6	1.4	1.0	0.8	0.0	1.0
15 JUN 77	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.0
27 JUN 77	0.0	0.4	0.0	0.1	0.0	0.0	0.0	0.1
12 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 SEP 77	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
4 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 NOV 77	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
29 NOV 77	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0
MEAN	0.0	0.2	0.1	0.1	0.1	0.1	0.0	0.1
				NIGHT				
5 MAY 77	0.4	0.0	0.2	0.2	0.1	0.0	0.1	0.1
25 MAY 77	0.4	1.4	0.2	0.3	0.9	0.3	0.3	0.5
2 JUN 77	0.3	0.5	0.7	0.6	0.2	0.3	0.5	0.4
15 JUN 77	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.1
30 JUN 77	0.2	0.1	0.0	0.2	0.4	0.5	0.1	0.2
12 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1 NOV 77	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
15 NOV 77	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0
29 NOV 77	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0
MEAN	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE C.1-14 DENSITIES (No./liter) OF HALICYCLOPS FOSTERI COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
5 MAY 77	0.1	0.6	0.5	0.3	1.5	2.3	2.4	1.1
18 MAY 77	0.3	0.0	0.3	0.2	0.1	0.1	0.4	0.2
2 JUN 77	0.0	7.9	2.4	1.8	3.8	2.4	0.1	2.6
15 JUN 77	1.3	0.2	1.0	0.7	1.3	0.2	0.6	0.8
27 JUN 77	1.3	0.8	0.1	0.4	0.5	0.0	0.0	0.4
12 JUL 77	0.0	0.2	0.0	0.1	0.0	0.0	0.0	0.0
26 JUL 77	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
9 AUG 77	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
22 AUG 77	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.1
8 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 SEP 77	0.5	3.2	1.0	1.2	0.7	0.5	0.3	1.1
4 OCT 77	3.9	0.9	3.9	5.7	12.1	8.1	2.4	5.3
18 OCT 77	3.2	0.9	3.7	1.9	1.9	0.1	6.4	2.6
1 NOV 77	0.7	1.0	0.3	2.3	1.9	0.5	0.2	1.0
15 NOV 77	0.4	1.2	0.3	1.3	1.6	0.1	1.2	0.9
29 NOV 77	0.3	0.2	0.2	0.3	0.3	0.2	0.0	0.2
				NIGHT				
5 MAY 77	1.5	0.7	1.0	0.5	0.7	0.3	1.3	0.9
25 MAY 77	0.7	2.5	0.4	0.1	0.6	2.5	2.0	1.3
2 JUN 77	2.2	1.8	0.4	1.1	1.7	0.8	2.1	1.4
15 JUN 77	1.5	0.5	0.5	3.8	1.1	0.5	0.6	1.2
30 JUN 77	1.0	2.2	1.5	0.8	0.7	0.2	0.2	0.9
12 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 AUG 77	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
23 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 SEP 77	0.9	0.0	0.2	0.0	0.2	0.1	0.0	0.2
4 OCT 77	4.4	14.7	11.8	5.2	4.7	19.8	5.8	9.5
18 OCT 77	6.8	1.3	1.1	1.6	5.4	4.8	1.8	3.3
1 NOV 77	0.5	0.1	0.4	0.4	0.5	0.1	0.4	0.3
15 NOV 77	0.2	0.0	0.8	0.2	0.7	0.5	0.0	0.3
29 NOV 77	0.2	0.1	0.2	0.0	0.0	0.1	0.1	0.1
MEAN	1.2	1.5	1.1	0.9	1.0	1.9	0.9	1.2
MEAN	0.8	1.1	0.9	1.0	1.6	0.9	0.9	1.0

TABLE C.2-1 MEAN DENSITIES (No./1,000 m^3) OF TOTAL MACROZOOPLANKTON COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977[a]

DATE	A	B	C	D	E	F	G	MEAN
				STATION				
				DAY				
12 APR 77	2839.8	1227.4	2100.8	827.3	1800.3	1611.1	1942.9	1764.2
2 MAY 77	1548.2	1753.7	2762.6	4581.5	642.8	1236.3	344.0	1838.4
9 MAY 77	--	905.0	--	1434.6	2163.4	964.2	1023.6	1298.2
16 MAY 77	2962.2	1092.4	2663.7	4100.3	641.2	650.0	1317.8	1989.7
23 MAY 77	1119.9	1707.1	1953.3	1856.2	349.7	470.8	729.3	1135.1
2 JUN 77	9132.3	2183.6	4489.0	2885.3	4728.7	4706.2	1806.2	4275.9
13 JUN 77	4550.6	6405.6	7262.3	2556.0	5384.9	2903.5	3605.9	4667.0
23 JUN 77	178083.8	53769.0	78574.4	28267.5	75978.9	13451.1	64331.3	70350.9
7 JUL 77	25033.9	40524.2	30301.3	23608.3	30765.7	31243.3	31137.2	30503.6
18 JUL 77	59442.1	67271.9	109072.3	70970.8	9868.6	4.4	80093.3	62640.1
25 JUL 77	385617.3	44932.0	258295.6	35015.7	273151.7	34853.9	162526.6	170627.5
15 AUG 77	14525.4	29783.8	24333.5	30299.2	7598.2	7190.3	4679.2	16915.7
14 SEP 77	39305.0	19997.9	36621.9	177584.0	13401.2	40349.9	14466.5	50483.4
13 OCT 77	27328.9	3660.3	4777.6	3979.9	3979.5	1959.5	623.6	6615.6
14 NOV 77	195951.9	51470.9	258445.8	280657.6	57770.0	49702.1	29226.4	131889.3
5 DEC 77	12470.1	4882.1	10080.3	3055.0	11923.9	8507.3	31860.1	11825.6
MEAN	65384.3	22528.6	52505.5	38883.3	32190.6	13097.3	28000.0	35922.1
				NIGHT				
26 APR 77	5603.6	7886.8	3112.5	2215.6	2755.7	2652.8	4610.7	4119.7
5 MAY 77	3646.9	3495.9	7655.4	4038.7	2302.8	2067.1	2726.9	3704.8
12 MAY 77	1897.8	1809.1	1402.5	2089.3	2148.9	2226.2	2705.4	2039.9
2 JUN 77	11886.4	8569.2	14947.8	10027.4	14352.8	11215.8	7250.2	11178.5
16 JUN 77	59063.3	35110.9	--	--	--	--	--	47087.1
23 JUN 77	96616.7	28609.7	78406.9	43921.5	11378.0	7828.3	10805.6	37388.0
30 JUN 77	54454.0	97851.6	116583.5	63452.9	246461.5	40778.8	103086.4	102571.1
7 JUL 77	50672.0	54230.8	77134.5	60620.5	91127.5	29446.6	161208.3	74920.0
14 JUL 77	56355.1	40502.2	21455.9	95187.7	96091.4	9197.6	46302.9	52448.8
21 JUL 77	140545.7	23596.9	178078.0	77380.6	244935.5	146850.1	66679.3	135564.0
28 JUL 77	84156.6	35784.0	44099.2	596892.2	54520.7	44325.5	42388.5	128881.0
25 AUG 77	28344.1	8498.0	14525.9	88905.3	59764.8	9378.2	15528.0	32134.9
15 SEP 77	23965.3	69582.3	14464.2	21246.9	26891.3	18553.1	21512.5	28030.8
20 OCT 77	20179.1	5015.4	9027.5	57686.0	14453.5	11233.3	27854.1	20778.4
16 NOV 77	29087.1	42436.9	38473.7	11513.5	25454.3	28494.0	107186.9	40378.1
6 DEC 77	33021.4	18315.2	29408.7	10867.6	12222.2	19117.9	30608.1	23102.5
MEAN	43718.4	30362.8	40728.8	80297.1	60324.1	22801.0	43296.8	45647.1

Note: Dashes (--) indicate data not available.
(a) Averaged over all three depths--surface, middepth, and bottom.

TABLE C.2-2 SURFACE DENSITIES (No./1,000 m3) OF GAMMARUS SPP. COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	78.5	133.3	0.0	6.5	7.5	0.0	0.0	32.3
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	--	0.0	--	0.0	0.0	6.5	0.0	1.3
16 MAY 77	93.3	40.4	0.0	32.3	5.7	0.0	0.0	24.5
23 MAY 77	0.0	0.0	0.0	44.0	0.0	0.0	0.0	6.3
2 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 JUN 77	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.9
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	7.3	1.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.9
18 JUL 77	0.0	0.0	0.0	17.5	0.0	0.0	0.0	2.5
25 JUL 77	0.0	0.0	0.0	0.0	0.0	6.7	0.0	1.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	28.4	4.1
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	59.3	18.6	77.1	551.5	19.2	6.5	22.2	107.8
5 DEC 77	28.2	49.5	0.0	38.5	81.6	87.7	136.3	60.3
MEAN	14.4	12.7	4.3	36.7	6.0	6.3	10.6	13.1
				NIGHT				
26 APR 77	0.0	146.5	34.2	37.0	85.3	58.3	180.0	77.3
5 MAY 77	179.9	232.0	102.5	3236.6	144.0	42.1	614.0	650.2
12 MAY 77	344.1	0.0	271.6	177.1	895.6	375.7	1345.4	487.1
2 JUN 77	3655.1	2243.2	5615.8	2227.3	3411.4	16.8	208.9	2482.6
16 JUN 77	1803.5	94.7	--	--	--	--	--	949.1
23 JUN 77	759.8	824.3	584.1	1930.0	91.6	5.9	246.5	634.6
30 JUN 77	0.0	0.0	19.5	1306.4	654.0	1601.0	141.5	531.8
7 JUL 77	1041.9	2450.1	219.3	321.8	0.0	14.1	0.0	578.2
14 JUL 77	118.0	682.5	2326.3	446.7	1206.2	0.0	--	796.6
21 JUL 77	280.7	761.2	0.0	269.2	1716.4	0.0	0.0	432.5
28 JUL 77	226.3	0.0	128.7	16804.4	586.9	372.9	1827.6	2849.5
25 AUG 77	9.1	27.4	9.0	27.3	87.5	0.0	0.0	22.9
15 SEP 77	138.0	118.3	42.9	109.0	54.3	0.0	0.0	66.1
20 OCT 77	66.7	0.0	378.5	3279.1	1538.3	2373.6	4826.0	1780.3
16 NOV 77	20028.1	6001.8	9349.8	3104.6	3309.8	2809.8	121592.8	23742.4
6 DEC 77	831.1	235.6	8383.7	10867.6	10424.7	6224.9	24791.4	8822.7
MEAN	1842.6	863.6	1831.1	2942.9	1613.7	926.3	11126.7	2913.1

Note: Dashes (--) indicate data not available.

TABLE C.2-3 MIDDEPTH DENSITIES (No./1,000 m^3) OF GAMMARUS SPP. COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	2304.6	1164.1	1627.0	665.2	2058.4	131.5	1877.5	1404.0
2 MAY 77	203.9	253.2	3868.2	3676.7	77.9	0.0	17.3	1156.3
9 MAY 77	--	528.0	--	2559.6	4413.0	54.1	154.1	1541.8
16 MAY 77	4571.3	1352.5	3142.3	4271.3	176.2	532.6	196.1	2034.6
23 MAY 77	21.7	107.3	13.1	1309.0	10.7	24.6	210.1	242.4
2 JUN 77	43.8	251.7	303.4	781.2	139.9	65.4	414.0	285.6
13 JUN 77	0.0	0.0	7.4	30.3	0.0	0.0	8.4	6.6
23 JUN 77	0.0	0.0	0.0	20.3	0.0	3.3	0.0	3.4
7 JUL 77	444.8	344.4	862.9	170.8	97.7	433.0	858.7	460.0
18 JUL 77	0.0	23.1	20.4	0.0	8.8	--	18.1	11.7
25 JUL 77	0.0	0.0	0.0	0.0	0.0	116.3	0.0	16.6
15 AUG 77	21.7	0.0	0.0	179.3	8.5	0.0	0.0	29.9
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	--	0.0
13 OCT 77	547.9	0.0	1994.5	1063.8	423.0	64.7	312.1	629.4
14 NOV 77	339139.2	4212.8	286676.8	379714.0	84134.3	40699.3	71792.0	172338.3
5 DEC 77	269.6	49.4	8198.1	795.5	9910.5	134.8	60766.2	11446.3
MEAN	20447.8	467.5	17104.5	20853.1	5352.4	2375.6	7661.0	10491.7
				NIGHT				
26 APR 77	4021.2	3217.1	4352.3	2650.3	3045.7	4099.4	6289.6	3953.7
5 MAY 77	4257.1	2872.9	2644.4	2260.4	2481.1	3203.1	1793.4	2787.5
12 MAY 77	1463.0	886.6	742.5	1061.8	1941.5	2619.2	1993.1	1529.7
2 JUN 77	11647.2	7871.8	14936.7	4273.2	16360.7	3400.9	1015.2	8500.8
16 JUN 77	30405.1	14249.5	--	--	--	--	--	22327.3
23 JUN 77	2801.8	1370.8	2036.1	--	246.3	579.4	626.2	1276.8
30 JUN 77	3049.2	48.2	--	9323.9	15518.0	12434.8	6865.3	7873.2
7 JUL 77	3503.4	9870.9	8637.7	5595.7	1763.7	0.0	2905.8	4611.0
14 JUL 77	3375.4	3415.4	575.3	1936.3	2638.6	178.6	877.7	1856.8
21 JUL 77	3130.3	--	7075.0	1009.9	923.6	1184.3	3701.3	2837.4
28 JUL 77	1690.5	2135.0	7644.4	16148.3	3587.2	916.2	4885.6	5286.7
25 AUG 77	294.4	1016.1	861.5	2456.7	694.4	166.9	150.4	805.8
15 SEP 77	1625.3	2747.1	108.5	529.5	629.6	514.4	1343.9	1071.0
20 OCT 77	32732.6	14701.5	26406.9	27362.9	6074.8	16195.0	39574.6	23292.6
16 NOV 77	42612.2	56747.4	38812.9	13042.0	33369.8	36840.5	64751.5	40882.3
6 DEC 77	41373.2	20432.1	53550.8	--	12116.1	24878.9	36392.1	31457.2
MEAN	11748.9	9438.8	12027.5	6742.4	6759.3	7147.4	11544.4	9391.9

Note: Dashes (--) indicate data not available.

TABLE C.2-4 BOTTOM DENSITIES (No./1,000 m3) OF GAMMARUS SPP. COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	4308.9	1668.8	2976.3	783.1	2281.6	4028.4	3116.8	2738.0
2 MAY 77	3681.5	3324.3	2303.2	6720.3	1351.8	2605.2	460.6	2921.0
9 MAY 77	--	1615.1	--	823.4	906.6	1539.3	699.1	1116.7
16 MAY 77	3089.4	1044.3	3677.0	2940.8	1348.3	1008.8	1206.4	2045.0
23 MAY 77	2279.7	3617.0	1379.9	--	355.4	671.9	974.7	1546.4
2 JUN 77	43657.1	5729.6	1387.6	1274.3	688.3	1622.9	82.2	7777.4
6 JUN 77	3615.0	2885.2	1701.9	4253.1	1083.6	2365.9	1501.8	2486.6
13 JUN 77	1747.3	5827.3	1438.1	4090.6	686.8	1254.7	1602.4	2378.2
23 JUN 77	2101.0	0.0	0.0	1643.1	1111.7	1639.2	6254.9	1821.4
27 JUN 77	10437.4	0.0	3462.2	2701.8	2836.1	260.3	983.2	2954.4
7 JUL 77	4893.5	24056.2	9630.0	1792.9	5127.6	3513.3	575.3	7084.1
11 JUL 77	58.9	1090.2	866.1	1879.2	0.0	799.6	252.2	706.6
18 JUL 77	5100.9	5730.2	3977.4	1079.9	1587.3	--	3114.6	3431.7
25 JUL 77	2150.1	93.4	0.0	1787.9	2706.6	315.3	1252.6	1186.6
15 AUG 77	1710.3	2855.4	1111.5	550.1	411.1	153.1	142.8	990.6
14 SEP 77	0.0	928.0	1549.7	0.0	176.7	--	152.7	401.0
13 OCT 77	75532.2	10969.6	11755.1	8146.4	9099.3	3245.2	1446.3	17170.6
14 NOV 77	242364.9	142473.2	471891.6	385488.8	85384.6	107473.4	15132.6	207172.8
5 DEC 77	36351.3	14070.3	21468.4	7990.8	24553.7	24024.6	33884.4	23191.9
MEAN	23320.0	11998.8	30032.0	24108.1	7457.7	9207.1	3833.6	15632.8
				NIGHT				
26 APR 77	11265.1	2913.3	3743.7	2810.1	4019.4	2596.7	5332.2	4668.6
5 MAY 77	4047.4	2419.2	1841.2	2972.5	2268.4	1126.6	2572.3	2463.9
12 MAY 77	1340.6	914.2	1072.0	1009.0	1341.8	2137.0	2578.9	1484.8
2 JUN 77	9001.9	6288.4	6060.8	2299.8	4644.7	15496.9	3389.1	6740.2
16 JUN 77	24298.4	19556.6	--	--	--	--	--	21927.5
23 JUN 77	11396.9	2127.4	--	2423.7	907.8	1460.4	3498.0	3635.7
30 JUN 77	13192.4	60230.7	7017.1	3894.2	8530.3	11598.5	6989.5	15921.8
7 JUL 77	8758.7	8499.3	7830.7	9468.2	2349.1	864.1	3271.3	5863.1
14 JUL 77	1268.6	2269.5	1728.2	6669.1	614.8	2466.0	577.0	2227.6
21 JUL 77	13739.2	--	0.0	781.9	7252.9	--	1691.9	4693.2
28 JUL 77	7785.3	2164.9	581.3	14243.7	2299.0	4388.8	2798.2	4894.5
25 AUG 77	529.7	1239.8	550.7	8079.8	546.6	631.0	227.1	1686.4
15 SEP 77	1871.9	2323.0	322.0	2609.1	650.9	76.9	1782.6	1376.6
20 OCT 77	25944.3	0.0	10.8	139074.2	32415.9	13052.9	35694.3	35170.3
16 NOV 77	23346.6	63756.4	60497.9	13931.6	33689.6	41208.4	128378.8	52115.6
6 DEC 77	54484.4	32478.3	20974.6	--	13455.0	24129.0	23912.3	28238.9
MEAN	13267.0	13812.1	8016.5	15019.1	7665.7	8659.5	14846.2	11658.9

Note: Dashes (--) indicate data not available.

TABLE C.2-5 SURFACE DENSITIES (No./1,000 m^3) OF NEOMYSIS AMERICANA COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	--	0.0	--	0.0	0.0	0.0	0.0	0.0
16 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 JUN 77	0.0	34.8	3.1	0.0	10.0	2.8	36.6	12.5
7 JUL 77	0.0	30.3	10.0	4.4	11.9	43.6	122.1	31.8
18 JUL 77	10.5	0.0	11.9	611.1	0.0	4.4	0.0	91.1
25 JUL 77	32.7	0.0	31.4	0.0	0.0	33.5	0.0	13.9
15 AUG 77	721.5	41.7	22.2	76.3	13.6	0.0	0.0	125.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	9.9	0.0	0.0	0.0	0.0	0.0	0.0	1.4
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	43.0	9.0	5.1	36.6	3.0	6.9	16.7	17.1
				NIGHT				
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	287.7	336.5	1435.6	4038.1	537.0	0.0	322.8	994.0
16 JUN 77	5410.4	378.7	--	--	--	--	--	2894.6
23 JUN 77	15448.9	17251.7	77294.6	17048.0	7211.1	360.9	4774.0	19912.7
30 JUN 77	8.1	0.0	2305.4	32303.9	1744.0	4367.6	461.9	5884.4
7 JUL 77	16007.4	26171.6	29390.3	3334.7	84748.2	0.0	117000.6	39521.8
14 JUL 77	3724.0	30714.2	16147.3	44222.1	104036.6	17.1	--	33143.6
21 JUL 77	34389.9	21770.0	116250.0	50603.8	338123.2	33146.8	78897.7	96168.8
28 JUL 77	8175.2	35.3	21744.4	578987.2	55459.4	15437.4	25904.2	100820.4
25 AUG 77	2730.6	2706.9	2981.4	2508.8	31151.2	3484.0	8478.6	7720.2
15 SEP 77	2632.5	4682.7	2705.2	1499.2	4726.0	3158.3	2137.5	3077.3
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	5550.9	6503.0	18016.9	48969.7	41849.1	3998.1	16998.4	20031.6

Note: Dashes (--) indicate data vot available.

TABLE C.2-6 MIDDEPTH DENSITIES (No./1,000 m^3) OF NEOMYSIS AMERICANA COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	--	0.0	--	0.0	0.0	0.0	0.0	0.0
16 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	36.9	0.0	905.9	2832.4	7125.4	539.0	528.4	1709.7
13 JUN 77	0.0	6.7	0.0	7.6	0.0	0.0	16.8	4.4
23 JUN 77	208958.8	1644.9	75357.1	1134.7	61509.3	6122.5	29563.4	54898.7
7 JUL 77	27356.6	80329.7	9903.6	14769.9	13771.3	43301.9	33096.5	32130.9
18 JUL 77	907.9	2143.2	2330.6	81075.7	114.5	--	416.2	14498.0
25 JUL 77	453730.8	128507.4	1741.1	10569.6	1847.8	7750.6	108048.8	101742.3
15 AUG 77	978.5	234.7	128.3	13222.6	340.0	114.3	8.4	2146.7
14 SEP 77	0.0	0.0	2792.9	1713.6	0.0	0.0	--	751.1
13 OCT 77	0.0	0.0	0.0	0.0	9.8	249.5	27.5	41.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	52998.0	15518.0	9962.6	7582.3	8796.0	6002.3	13049.7	15853.6
				NIGHT				
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	578.6	2383.2	7705.4	11637.6	5971.6	2586.1	4726.3	5084.1
16 JUN 77	48563.7	23674.3	--	--	--	--	--	36119.0
23 JUN 77	0.0	56476.1	71716.2	--	13792.4	14832.5	7983.9	27466.9
30 JUN 77	55953.0	3324.8	--	31209.1	22210.5	26127.1	269229.2	68009.0
7 JUL 77	57702.4	45986.8	56962.0	93091.8	98767.2	30843.2	268300.8	93093.5
14 JUL 77	25622.6	38202.3	3287.7	85197.6	29477.0	2779.0	32825.2	31055.9
21 JUL 77	98291.6	--	157283.8	98466.0	108517.6	242788.4	40576.9	124320.7
28 JUL 77	14014.6	34159.8	13392.4	236457.2	26545.5	16950.5	13365.5	50697.9
25 AUG 77	3722.3	6956.6	1622.8	45353.9	13974.6	3359.8	29026.1	14859.4
15 SEP 77	11805.2	7691.9	2207.0	3812.1	8979.9	2366.0	2303.9	5595.1
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0
MEAN	19765.9	14590.4	22441.2	46555.8	21882.4	22842.2	44555.9	27123.5

Note: Dashes (--) indicate data not available.

TABLE C.2-7 BOTTOM DENSITIES (No./1,000 m^3) OF NEOMYSIS AMERICANA COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
DAY								
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	--	0.0	--	0.0	0.0	0.0	0.0	0.0
16 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 MAY 77	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0
2 JUN 77	0.0	371.1	10624.8	2714.8	8137.9	16228.7	1677.9	5679.3
6 JUN 77	1900.0	207.3	5262.3	334.3	1848.0	1434.5	3991.5	2139.7
13 JUN 77	4394.0	4994.8	6381.6	3081.7	14880.9	4680.9	4425.0	6119.8
23 JUN 77	375027.6	160650.7	56003.9	12070.4	220119.9	48151.1	235898.0	158274.5
27 JUN 77	242379.3	132785.0	240476.6	135087.6	64946.3	9828.1	67839.7	127620.4
7 JUL 77	43845.3	0.0	69161.1	11860.7	71786.3	0.0	57526.9	36311.5
11 JUL 77	11955.8	38337.7	36665.8	88320.4	58392.6	65719.6	38840.9	48319.0
18 JUL 77	154726.6	188142.0	312891.2	127968.4	26118.0	--	222178.0	172004.0
25 JUL 77	679430.1	4874.3	756404.0	75806.9	801152.0	85771.4	361994.8	395062.0
15 AUG 77	13915.8	66031.0	56316.6	23655.1	13909.0	14393.8	7423.7	27949.3
14 SEP 77	4377.4	23819.3	12397.8	10278.7	530.1	--	0.0	7968.7
13 OCT 77	0.0	0.0	0.0	42.0	0.0	2061.7	42.5	306.6
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	80859.4	32642.8	86810.3	27290.1	67464.3	14604.1	52729.4	52265.7
NIGHT								
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	8640.3	3845.8	4266.0	4112.3	1884.2	6816.1	5479.0	5006.2
16 JUN 77	40637.0	34724.9	--	--	--	--	--	37680.9
23 JUN 77	250731.6	0.0	--	62813.1	7453.5	3717.3	13085.0	56300.1
30 JUN 77	70697.9	140173.2	211388.8	98746.8	660231.0	33098.2	12654.6	175284.4
7 JUL 77	55555.1	60494.9	118579.0	60951.4	64601.1	48604.3	68696.4	68211.7
14 JUL 77	121148.0	34723.1	28638.3	107075.7	129718.2	10955.5	50199.1	68922.6
21 JUL 77	221790.3	--	208736.0	65415.1	215773.6	--	36299.6	149602.9
28 JUL 77	96018.3	41133.3	63362.4	614609.6	31879.2	64578.1	34850.2	135204.5
25 AUG 77	5473.8	3667.1	3697.7	142884.8	98387.9	14197.4	4142.1	38921.5
15 SEP 77	6999.4	11283.0	5877.0	7501.1	18223.9	6764.6	7687.6	9190.9
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0
MEAN	54855.7	22003.0	46038.9	83150.7	81876.8	13480.8	15539.6	45304.6

Note: Dashes (--) indicate data not available.

TABLE C.2-8 SURFACE DENSITIES (No./1,000 m^3) OF MONOCULODES EDWARDSI COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	8.7	0.0	0.0	0.0	7.5	0.0	0.0	2.3
2 MAY 77	0.0	0.0	0.0	0.0	0.0	7.8	0.0	1.1
9 MAY 77	--	0.0	--	0.0	0.0	0.0	0.0	0.0
16 MAY 77	0.0	0.0	37.6	0.0	0.0	0.0	0.0	5.4
23 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 JUN 77	0.0	4.0	0.0	0.0	0.0	0.0	3.7	1.1
7 JUL 77	0.0	4.3	3.3	0.0	0.0	3.1	40.7	7.3
18 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 JUL 77	0.0	0.0	0.0	6.7	0.0	0.0	0.0	1.0
15 AUG 77	0.0	10.4	0.0	0.0	0.0	0.0	0.0	1.5
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	19.8	0.0	8.6	0.0	0.0	0.0	0.0	4.1
5 DEC 77	0.0	0.0	0.0	0.0	9.1	0.0	7.2	2.3
MEAN	1.6	1.4	2.9	0.4	0.9	0.7	5.0	1.8
				NIGHT				
26 APR 77	0.0	20.9	8.5	9.3	104.3	14.6	144.0	43.1
5 MAY 77	8.6	65.2	48.6	123.5	33.9	0.0	67.2	49.6
12 MAY 77	14.0	0.0	58.2	75.1	132.7	19.8	184.7	69.2
2 JUN 77	0.0	0.0	0.0	0.0	221.1	0.0	0.0	31.6
16 JUN 77	158.0	0.0	--	--	--	--	--	79.0
23 JUN 77	557.2	412.2	973.5	241.2	68.7	0.0	0.0	321.8
30 JUN 77	0.0	8.0	29.3	1425.2	311.4	461.1	44.7	325.7
7 JUL 77	852.5	1225.1	548.3	102.4	254.5	7.0	0.0	427.1
14 JUL 77	0.0	546.0	957.9	1489.0	0.0	0.0	--	498.8
21 JUL 77	561.5	532.8	2421.9	269.2	8581.8	0.0	4123.6	2355.8
28 JUL 77	282.9	0.0	128.7	18332.0	586.9	372.9	1191.9	2985.0
25 AUG 77	0.0	164.6	18.0	18.2	175.0	17.0	0.0	56.1
15 SEP 77	21.2	19.7	25.8	54.5	36.2	0.0	36.4	27.7
20 OCT 77	0.0	0.0	46.2	301.5	304.2	182.6	428.1	180.4
16 NOV 77	0.0	40.6	487.4	466.9	670.1	135.5	1616.7	488.2
6 DEC 77	0.0	8.4	179.9	0.0	147.9	141.5	411.6	127.0
MEAN	153.5	190.2	395.5	1527.2	775.2	90.1	589.2	524.2

Note: Dashes (--) indicate data not available.

TABLE C.2-9 MIDDEPTH DENSITIES (No./1,000 m^3) OF MONOCULODES EDWARDSI COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	451.5	145.5	344.5	35.0	365.7	0.0	198.2	220.1
2 MAY 77	29.1	45.2	299.7	201.5	0.0	17.3	0.0	84.7
9 MAY 77	--	0.0	--	0.0	59.5	63.2	106.7	45.9
16 MAY 77	9.7	29.2	0.0	216.4	0.0	0.0	0.0	36.5
23 MAY 77	0.0	0.0	0.0	9.8	0.0	16.4	54.8	11.6
2 JUN 77	0.0	28.0	68.7	42.1	25.3	51.1	229.6	63.5
13 JUN 77	0.0	0.0	7.4	0.0	0.0	0.0	0.0	1.1
23 JUN 77	2052.6	8.4	1127.8	30.5	0.0	0.0	131.6	478.7
7 JUL 77	2001.7	1827.5	476.4	170.8	1236.8	4330.2	1144.9	1567.3
18 JUL 77	0.0	0.0	0.0	0.0	0.0	--	0.0	0.0
25 JUL 77	2150.4	0.0	0.0	0.0	0.0	0.0	0.0	307.2
15 AUG 77	0.0	0.0	0.0	89.6	0.0	9.5	0.0	14.2
14 SEP 77	0.0	36.4	77.6	0.0	0.0	0.0	--	19.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	2914.5	42.1	10014.9	0.0	1013.7	635.9	0.0	2088.7
5 DEC 77	0.0	0.0	233.3	93.0	357.1	0.0	288.0	138.8
MEAN	686.0	211.9	795.7	59.6	227.4	528.1	203.3	379.9
				NIGHT				
26 APR 77	120.9	208.9	93.7	149.0	131.5	221.9	471.3	199.6
5 MAY 77	322.0	177.7	320.3	155.9	23.2	227.3	92.0	188.3
12 MAY 77	80.8	51.3	86.8	188.4	0.0	71.7	125.1	86.3
2 JUN 77	0.0	0.0	0.0	0.0	327.2	23.6	116.5	66.8
16 JUN 77	6967.8	1009.8	--	--	--	--	--	3988.8
23 JUN 77	1667.7	1644.9	904.9	--	344.8	1332.6	652.3	1091.2
30 JUN 77	2439.4	16.1	--	129.5	3603.7	9919.9	1480.8	2931.6
7 JUL 77	5152.0	4877.4	3735.2	3815.2	8230.6	235.4	11623.1	5381.3
14 JUL 77	6290.6	2909.4	65.8	10972.4	2035.5	546.9	526.6	3335.3
21 JUL 77	8138.8	--	13061.6	2524.8	4156.0	14212.0	8636.3	8454.9
28 JUL 77	1526.9	0.0	1540.7	26529.4	9757.3	5039.3	8933.6	7618.2
25 AUG 77	210.3	1016.1	80.1	755.9	520.8	125.2	0.0	386.9
15 SEP 77	85.5	549.4	36.2	211.8	538.8	102.9	480.0	286.4
20 OCT 77	731.0	344.6	240.1	591.2	1037.2	1034.6	1493.4	781.7
16 NOV 77	0.0	239.4	0.0	1420.4	2598.1	1264.9	1639.3	1023.2
6 DEC 77	0.0	74.8	158.9	--	127.1	68.2	761.3	198.4
MEAN	2108.4	874.7	1451.7	3649.5	2228.8	2295.1	2468.8	2131.2

Note: Dashes (--) indicate available.

TABLE C.2-10 BOTTOM DENSITIES (No./1,000 m^3) OF MONOCULODES EDWARDSI COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	574.5	175.0	686.0	143.2	209.2	515.3	184.7	355.4
2 MAY 77	209.8	86.5	275.8	481.4	0.0	54.8	0.0	158.3
9 MAY 77	--	49.2	--	68.6	44.8	189.9	141.8	98.9
16 MAY 77	9.7	0.0	32.0	0.0	9.4	43.5	45.7	20.0
23 MAY 77	9.9	0.0	0.0	--	0.0	0.0	24.2	5.7
2 JUN 77	746.3	217.2	198.2	92.3	242.9	0.0	0.0	213.8
6 JUN 77	886.7	77.7	1428.1	55.7	416.0	1862.7	395.2	731.7
13 JUN 77	488.2	943.5	431.4	311.8	286.2	1809.6	529.2	685.7
23 JUN 77	1050.5	975.6	6251.6	126.4	1667.6	3278.4	4467.8	2545.4
27 JUN 77	3479.1	5051.8	6924.3	8780.7	7941.0	2896.4	3277.3	5478.7
7 JUL 77	24271.5	3758.8	3793.6	1011.4	15749.0	17566.3	6903.2	10436.3
11 JUL 77	1354.6	2180.3	4330.6	5261.6	2526.6	533.1	1261.1	2492.6
18 JUL 77	14735.9	955.0	3977.4	1079.9	1154.4	--	6229.3	4688.7
25 JUL 77	12900.6	18.7	5535.7	13230.5	8119.8	7252.7	16283.5	9048.8
15 AUG 77	4431.3	2141.5	2223.0	1100.2	2809.2	2067.2	963.7	2248.0
14 SEP 77	0.0	309.3	0.0	0.0	441.7	--	305.5	150.9
13 OCT 77	5720.7	0.0	547.9	587.9	812.2	38.2	0.0	1101.0
14 NOV 77	3348.2	695.0	0.0	2931.5	1249.5	291.3	488.1	1286.2
5 DEC 77	380.6	390.8	288.8	123.6	764.3	1078.7	166.1	456.1
MEAN	3926.2	948.7	2051.4	1965.9	2339.1	2322.2	2193.0	2252.1
				NIGHT				
26 APR 77	99.8	218.9	129.5	174.0	34.6	234.3	135.1	146.6
5 MAY 77	190.5	57.9	96.4	184.8	39.5	109.5	147.7	118.0
12 MAY 77	48.7	20.9	0.0	33.9	85.5	32.4	83.7	43.6
2 JUN 77	0.0	0.0	0.0	0.0	65.7	835.9	254.2	165.1
16 JUN 77	5341.5	2861.9	--	--	--	--	--	4101.7
23 JUN 77	2433.7	3950.8	--	1009.9	2930.4	547.6	323.9	1866.0
30 JUN 77	15222.0	63411.7	12279.8	7232.2	17060.6	15841.9	7063.1	19730.2
7 JUL 77	3003.0	0.0	3915.3	2071.2	10101.3	5832.5	11575.2	5214.1
14 JUL 77	3171.4	6014.1	6418.9	21118.7	15984.2	9419.3	3750.5	9411.0
21 JUL 77	28132.7	--	15303.2	1303.1	35055.7	--	12305.0	18419.9
28 JUL 77	32698.1	3936.2	12498.1	39022.3	12567.8	19436.1	19333.0	19927.4
25 AUG 77	1765.7	977.9	708.1	3402.0	3279.6	766.2	1082.3	1711.7
15 SEP 77	162.8	3982.2	402.5	652.3	1301.7	691.8	1225.6	1202.7
20 OCT 77	818.4	0.0	0.0	1998.2	1738.4	496.8	207.5	751.3
16 NOV 77	1022.5	0.0	430.6	1339.6	1799.4	2095.3	1310.0	1142.5
6 DEC 77	167.1	587.8	1469.0	--	199.6	477.8	642.8	590.7
MEAN	5892.4	5734.7	3832.2	5681.6	6816.3	4058.4	3962.6	5165.0

Note: Dashes (--) indicate data not available.

TABLE C.2-11 SURFACE DENSITIES (No./1,000 m^3) OF CHAOBORUS PUNCTIPENNIS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	52.4	66.6	8.5	19.6	22.4	0.0	9.8	25.6
2 MAY 77	0.0	0.0	7.4	0.0	0.0	0.0	0.0	1.1
9 MAY 77	--	7.5	--	0.0	8.0	26.1	0.0	8.3
16 MAY 77	4.9	24.3	0.0	10.8	5.7	0.0	7.5	7.6
23 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	107.2	0.0	0.0	0.0	3.3	0.0	0.0	15.8
13 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 JUN 77	9.5	0.0	0.0	3.7	3.0	0.0	3.7	2.8
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 JUL 77	0.0	0.0	0.0	0.0	0.0	6.7	0.0	1.0
15 AUG 77	0.0	0.0	0.0	0.0	6.8	0.0	0.0	1.0
14 SEP 77	0.0	0.0	8.9	0.0	0.0	0.0	0.0	1.3
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	19.1	0.0	0.0	0.0	0.0	2.7
MEAN	16.2	5.2	2.4	2.0	2.9	1.7	1.3	4.5
				NIGHT				
26 APR 77	10.3	62.8	76.9	92.5	104.3	21.9	295.1	94.8
5 MAY 77	205.6	253.7	64.8	321.2	948.4	330.1	585.2	387.0
12 MAY 77	112.4	345.2	135.8	69.8	298.5	178.0	138.5	182.6
2 JUN 77	0.0	0.0	84.4	0.0	71.1	0.0	25.3	25.8
16 JUN 77	39.5	0.0	--	--	--	--	--	19.8
23 JUN 77	50.7	132.5	584.1	884.6	137.4	5.9	44.8	262.9
30 JUN 77	0.0	0.0	0.0	0.0	15.6	76.8	0.0	13.2
7 JUL 77	47.4	222.7	0.0	58.5	0.0	0.0	0.0	46.9
14 JUL 77	33.7	0.0	0.0	0.0	0.0	0.0	--	5.6
21 JUL 77	561.5	228.4	1210.9	807.5	6865.5	0.0	274.9	1421.2
28 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	79.5	11.4
25 AUG 77	0.0	155.5	0.0	0.0	0.0	0.0	0.0	22.2
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	12.1	1.7
20 OCT 77	0.0	0.0	0.0	0.0	17.4	0.0	58.4	10.8
16 NOV 77	0.0	13.5	0.0	23.3	40.6	9.0	0.0	12.3
6 DEC 77	8.9	8.4	0.0	0.0	37.0	0.0	0.0	7.8
MEAN	66.9	88.9	143.8	150.5	569.1	41.4	108.1	165.8

Note: Dashes (--) indicate data not available.

TABLE C.2-12 MIDDEPTH DENSITIES (No./1,000 m^3) OF CHAOBORUS PUNCTIPENNIS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	75.3	135.1	181.8	42.0	0.0	0.0	52.2	69.5
2 MAY 77	145.7	126.6	196.7	533.9	90.9	146.7	35.5	182.3
9 MAY 77	—	26.0	--	30.6	39.7	18.0	35.6	30.0
16 MAY 77	389.0	58.4	125.1	398.7	15.3	56.1	26.7	152.8
23 MAY 77	0.0	17.9	0.0	390.7	0.0	8.2	73.1	70.0
2 JUN 77	221.1	23.3	87.8	18.5	64.4	29.4	30.0	67.8
13 JUN 77	0.0	13.4	0.0	0.0	0.0	0.0	0.0	1.9
23 JUN 77	172.4	0.0	1153.5	19.9	564.7	115.4	268.0	327.7
7 JUL 77	370.7	688.7	227.8	0.0	0.0	0.0	0.0	169.5
18 JUL 77	10.7	38.5	20.4	0.0	0.0	--	9.0	13.1
25 JUL 77	2150.4	1040.8	17.3	0.0	69.9	38.8	0.0	473.9
15 AUG 77	195.7	58.7	39.5	448.2	8.5	9.5	0.0	108.6
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	--	0.0
13 OCT 77	0.0	11.3	11.8	0.0	0.0	0.0	0.0	3.3
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	8.2	33.3	0.0	0.0	0.0	0.0	5.9
MEAN	242.6	155.7	198.0	101.1	78.0	31.5	46.0	120.7
				NIGHT				
26 APR 77	197.8	309.2	322.8	74.5	202.4	57.9	253.8	202.6
5 MAY 77	116.3	236.9	131.4	491.0	108.2	269.9	248.3	228.9
12 MAY 77	185.9	139.2	241.1	274.0	188.4	87.6	179.8	185.1
2 JUN 77	0.0	848.6	355.6	454.6	654.4	602.2	1131.7	578.2
16 JUN 77	1689.2	224.4	—	—	—	—	--	956.8
23 JUN 77	0.0	779.6	904.9	--	0.0	0.0	626.2	385.1
30 JUN 77	457.4	618.4	—	388.5	0.0	139.7	134.6	289.8
7 JUL 77	0.0	580.6	233.5	0.0	294.0	0.0	0.0	158.3
14 JUL 77	0.0	379.5	32.9	322.7	376.9	156.2	351.1	231.3
21 JUL 77	1252.1	--	4353.9	0.0	923.6	2368.7	959.6	1643.0
28 JUL 77	272.7	355.8	59.3	2306.9	0.0	0.0	279.2	467.7
25 AUG 77	42.1	351.7	0.0	0.0	0.0	0.0	0.0	56.3
15 SEP 77	85.5	0.0	0.0	0.0	0.0	0.0	0.0	12.2
20 OCT 77	162.4	0.0	0.0	0.0	21.2	79.6	0.0	37.6
16 NOV 77	0.0	239.4	0.0	0.0	0.0	316.2	0.0	79.4
6 DEC 77	0.0	74.8	0.0	--	0.0	0.0	0.0	12.5
MEAN	278.8	342.5	474.0	331.7	184.6	271.9	277.6	306.4

note: Dashes (—) indicate data not available.

TABLE C.2-13 BOTTOM DENSITIES (No./1,000 m^3) OF CHAOBORUS PUNCTIPENNIS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	253.5	151.7	190.0	58.9	129.5	74.9	195.6	150.6
2 MAY 77	136.4	230.6	234.5	394.7	239.3	320.8	85.3	234.5
9 MAY 77	--	65.6	--	78.4	145.5	60.0	81.1	86.1
16 MAY 77	87.4	51.2	95.9	324.4	56.2	26.1	155.4	113.8
23 MAY 77	227.0	153.7	584.7	--	150.8	78.5	209.4	234.0
2 JUN 77	0.0	144.8	753.3	73.9	121.5	892.6	82.2	295.5
6 JUN 77	155.9	345.5	215.2	241.4	77.4	32.1	9.9	153.9
13 JUN 77	205.6	527.2	89.9	18.3	57.2	0.0	29.4	132.5
23 JUN 77	0.0	1300.8	0.0	0.0	0.0	0.0	893.6	313.5
27 JUN 77	9277.7	1683.9	1154.1	2026.3	0.0	0.0	0.0	2020.3
7 JUL 77	195.7	0.0	583.6	91.9	0.0	0.0	0.0	124.5
11 JUL 77	117.8	0.0	1010.5	375.8	280.7	0.0	252.2	291.0
18 JUL 77	2833.8	2865.1	2651.6	0.0	0.0	--	7267.5	2603.0
25 JUL 77	0.0	205.4	2767.9	2145.5	0.0	315.3	0.0	776.3
15 AUG 77	1049.5	1784.6	185.3	366.7	0.0	459.4	71.4	559.6
14 SEP 77	0.0	0.0	0.0	0.0	0.0	--	0.0	0.0
13 OCT 77	0.0	0.0	0.0	42.0	391.0	0.0	31.9	66.4
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	166.1	23.7
MEAN	765.3	500.5	584.3	346.6	86.8	132.9	501.6	420.5
				NIGHT				
26 APR 77	709.6	909.3	423.8	374.7	219.4	361.2	72.1	438.6
5 MAY 77	464.3	282.5	395.2	329.4	126.5	203.4	199.9	285.9
12 MAY 77	170.6	453.6	338.5	93.3	162.4	137.6	243.4	228.5
2 JUN 77	562.6	623.6	546.3	39.0	306.7	257.2	819.0	450.6
16 JUN 77	418.9	381.6	--	--	--	--	--	400.3
23 JUN 77	3799.0	0.0	--	202.0	191.1	0.0	194.3	731.1
30 JUN 77	338.3	4449.9	0.0	0.0	0.0	0.0	0.0	684.0
7 JUL 77	0.0	0.0	0.0	591.8	0.0	0.0	0.0	84.5
14 JUL 77	634.3	680.8	0.0	0.0	0.0	0.0	0.0	187.9
21 JUL 77	3925.5	--	612.1	521.2	1208.8	--	307.6	1315.0
28 JUL 77	1038.0	984.0	581.3	0.0	0.0	0.0	0.0	371.9
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	81.8	0.0	0.0	0.0	204.5	180.7	0.0	66.7
16 NOV 77	85.2	245.2	0.0	53.6	100.0	174.6	0.0	94.1
6 DEC 77	167.1	0.0	163.2	--	0.0	0.0	257.1	97.9
MEAN	774.7	600.7	218.6	157.5	168.0	93.9	139.6	316.5

Note: Dashes (--) indicate data not available.

TABLE C.3-1 MEAN DENSITIES (No./1,000 m^3) OF TOTAL ICHTHYOPLANKTON EGGS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977[a]

DATE	STATION A	B	C	D	E	F	G	MEAN
DAY								
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	2.9	2.9	6.1	19.0	0.0	8.4	0.0	5.6
9 MAY 77	303.2	263.6	10.7	44.2	101.9	11.3	70.8	115.1
16 MAY 77	642.7	188.8	400.8	1507.5	50.1	26.9	80.7	413.9
23 MAY 77	502.5	71.7	247.1	261.8	151.5	182.3	452.3	267.0
2 JUN 77	7.9	15.8	4.9	12.2	37.0	21.1	9.4	15.5
6 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.9
13 JUN 77	25.2	17.3	0.0	11.7	174.4	1156.7	72.3	208.2
23 JUN 77	0.0	0.0	57.5	0.0	0.0	0.0	0.0	8.2
27 JUN 77	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.8
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	688.3	162.1	0.0	0.0	2360.0	62.4	467.5
18 JUL 77	6.2	0.0	0.0	622.1	179.6	9.3	312.8	161.4
25 JUL 77	2.5	0.0	0.0	5.1	19.4	13.1	108.5	21.2
15 AUG 77	5.4	24.0	0.0	3.7	33.4	9767.3	2401.4	1747.9
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	78.9	67.0	46.8	130.9	39.3	713.8	188.2	180.7
NIGHT								
26 APR 77	0.0	0.0	10.3	5.8	3.4	0.0	0.0	2.8
5 MAY 77	587.5	141.1	462.2	778.5	104.7	10.3	277.1	337.3
12 MAY 77	92.6	5.3	38.3	77.4	519.4	23.7	59.9	116.7
2 JUN 77	0.0	6.7	0.0	32.5	21.6	3.2	2.4	9.5
16 JUN 77	2.2	0.0	—	—	—	—	—	1.1
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	13.2	12.4	3.7
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	7691.8	199.0	1798.9	16266.4	743.7	393.7	4598.6	4527.4
21 JUL 77	0.0	0.0	0.0	0.0	13.4	3623.7	126.6	537.7
28 JUL 77	0.0	0.0	0.0	18.9	10.1	54.7	20.4	14.9
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	523.4	22.0	154.0	1145.3	94.4	274.8	339.8	363.1

Note: Dashes (—) indicate data not available.
(a. Averaged over all three depths--surface, middepth, and bottom.

TABLE C.3-2 MEAN DENSITIES (No./1,000 m^3) OF TOTAL ICHTHYOPLANKTON YOLK-SAC LARVAE COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977[a]

DATE	STATION A	B	C	D	E	F	G	MEAN
DAY								
12 APR 77	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.4
2 MAY 77	2.7	2.9	3.1	3.7	0.0	0.0	0.0	1.8
9 MAY 77	46.3	76.9	22.4	37.7	69.0	34.0	30.1	45.2
16 MAY 77	16.0	10.7	4.2	28.7	17.2	3.1	39.2	17.0
23 MAY 77	96.1	106.3	133.2	108.1	74.4	105.1	162.3	112.2
2 JUN 77	227.9	453.1	133.0	0.0	42.4	8.5	3.1	124.0
6 JUN 77	115.5	381.6	285.6	24.2	83.4	0.0	3.1	127.6
13 JUN 77	0.0	2.9	0.0	0.0	0.0	2.9	0.0	0.8
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.4
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	329.5	469.7	0.0	0.0	86.3	6.1	127.4
18 JUL 77	6.2	2.5	0.0	0.0	0.0	0.0	0.0	1.2
25 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	111.9	0.0	16.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	26.9	71.9	55.3	10.8	15.1	18.5	13.0	30.2
NIGHT								
26 APR 77	0.0	0.0	0.0	0.0	6.8	0.0	2.8	1.4
5 MAY 77	9.1	10.4	2.8	12.0	10.6	5.3	5.7	8.0
12 MAY 77	33.6	0.0	45.1	20.9	50.1	10.7	44.8	29.3
2 JUN 77	151.4	84.6	76.8	169.9	14.5	80.5	121.0	99.8
16 JUN 77	2.2	0.0	--	--	--	--	--	1.1
23 JUN 77	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.3
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	192.6	128.7	359.3	76.3	177.6	110.9	51.5	156.7
21 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 JUL 77	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.5
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	24.5	14.0	32.3	18.8	17.3	13.8	15.1	19.4

Note: Dashes (--) indicate data not available.
(a) Averaged over all three depths--surface, middepth, and bottom.

TABLE C.3-3 MEAN DENSITIES (No./1,000 m3) OF TOTAL ICHTHYOPLANKTON POST YOLK-SAC LARVAE COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977[a]

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 MAY 77	7.1	13.7	29.8	15.9	35.3	45.2	19.2	23.7
2 JUN 77	341.3	482.8	431.8	0.0	20.5	0.0	59.8	190.9
6 JUN 77	892.5	254.6	502.5	292.5	639.7	0.0	45.8	375.4
13 JUN 77	0.0	0.0	0.0	0.0	0.0	23.0	0.0	3.3
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	7.5	1.1
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	65.3	39.5	50.7	16.2	36.6	3.6	7.0	31.3
				NIGHT				
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	317.1	436.6	404.7	837.7	21.9	427.2	313.8	394.2
16 JUN 77	0.0	0.0	--	--	--	--	--	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	19.8	27.3	27.0	55.8	1.5	28.5	20.9	25.8

Note: Dashes (--) indicate data not available.
(a) Averaged over all three depths--surface, middepth, and bottom.

TABLE C.3-4 SURFACE DENSITIES (No./1,000 m^3) OF STRIPED BASS EGGS COLLECTED AT THE STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
DAY								
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	0.0	41.4	0.0	33.3	0.0	19.2	0.0	13.4
16 MAY 77	0.0	0.0	19.6	624.9	11.8	0.0	7.4	94.8
23 MAY 77	24.3	8.2	0.0	15.0	0.0	0.0	0.0	6.8
2 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	1.3	2.6	1.0	35.4	0.6	1.0	0.4	6.1
NIGHT								
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	16.2	46.2	0.0	106.5	7.1	0.0	34.7	30.1
12 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	13.4	1.9
2 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 JUN 77	0.0	0.0	—	—	—	—	—	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	1.0	2.9	0.0	7.1	0.5	0.0	3.2	2.1

Note: Dashes (—) indicate data not available.

TABLE C.3-5 MIDDEPTH DENSITIES (No./1,000 m3) OF STRIPED BASS EGGS COLLECTED AT THE STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	11.0	0.0	0.0	0.0	1.6
9 MAY 77	130.5	122.9	24.5	90.0	0.0	8.4	23.9	57.2
16 MAY 77	153.9	10.7	37.6	1635.9	30.0	37.3	109.2	287.8
23 MAY 77	358.9	185.2	296.8	226.2	243.3	262.1	189.9	251.8
2 JUN 77	0.0	9.1	0.0	0.0	0.0	0.0	0.0	1.3
6 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	33.9	17.3	18.9	103.3	14.4	16.2	17.0	31.6
				NIGHT				
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	8.8	109.7	27.9	737.5	37.4	14.8	41.5	139.7
12 MAY 77	16.5	16.0	15.5	0.0	44.7	0.0	30.0	17.5
2 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 JUN 77	0.0	0.0	--	--	--	--	--	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	1.6	7.9	2.9	49.2	5.5	1.0	4.8	10.3

Note: Dashes (--) indicate data not available.

TABLE C.3-6 BOTTOM DENSITIES (No./1,000 m^3) OF STRIPED BASS EGGS COLLECTED AT THE STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
DAY								
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	9.8	0.0	0.0	0.0	0.0	25.1	0.0	4.8
9 MAY 77	779.2	613.0	7.5	0.0	261.5	0.0	188.5	264.2
16 MAY 77	1774.1	555.7	1145.1	2156.7	108.5	43.3	125.6	944.1
23 MAY 77	1113.8	21.6	444.6	504.5	190.0	276.5	1134.2	526.5
2 JUN 77	0.0	20.2	0.0	0.0	0.0	0.0	0.0	2.9
6 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 JUN 77	0.0	0.0	7.3	0.0	0.0	0.0	0.0	1.0
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	193.5	63.7	84.4	140.1	29.5	18.2	76.2	96.5
NIGHT								
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	1737.6	267.3	1358.6	1408.2	269.5	16.0	755.0	830.3
12 MAY 77	261.4	0.0	99.4	169.7	1513.4	71.1	136.4	321.6
2 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 JUN 77	0.0	0.0	--	--	--	--	--	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	124.9	16.7	97.2	105.2	118.9	5.8	59.4	75.4

Note: Dashes (--) indicate data not available.

TABLE C.3-7 SURFACE DENSITIES (No./1,000 m3) OF STRIPED BASS YOLK-SAC LARVAE COLLECTED AT THE STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

	STATION							
DATE	A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	0.0	0.0	6.6	13.3	65.5	0.0	8.7	13.4
16 MAY 77	0.0	0.0	0.0	52.1	0.0	0.0	0.0	7.4
23 MAY 77	0.0	0.0	0.0	0.0	7.4	0.0	0.0	1.1
2 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.3	3.4	3.8	0.0	0.5	1.2
				NIGHT				
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	0.0	7.7	0.0	0.0	0.0	0.0	0.0	1.1
12 MAY 77	77.2	0.0	42.8	0.0	6.7	0.0	40.2	23.8
2 JUN 77	74.2	38.7	105.1	101.5	0.0	0.0	100.8	60.0
16 JUN 77	0.0	0.0	—	—	—	—	—	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	9.5	2.9	9.9	6.8	0.4	0.0	9.4	5.6

Note: Dashes (—) indicate data not available.

TABLE C.3-8 MIDDEPTH DENSITIES (No./1,000 m^3) OF STRIPED BASS YOLK-SAC LARVAE COLLECTED AT THE STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	A	B	C	D	E	F	G	MEAN
				STATION				
				DAY				
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	74.6	53.8	0.0	72.0	50.6	66.8	71.8	55.7
16 MAY 77	26.8	32.2	12.5	0.0	30.0	9.3	45.5	22.3
23 MAY 77	119.6	298.3	96.0	124.4	169.2	54.0	363.4	175.0
2 JUN 77	37.7	838.3	78.8	0.0	81.8	0.0	9.4	149.4
6 JUN 77	57.5	61.5	541.3	28.8	212.1	0.0	9.2	130.1
13 JUN 77	0.0	0.0	0.0	0.0	0.0	8.6	0.0	1.2
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	16.6	67.6	38.3	11.9	28.6	7.3	26.3	28.1
				NIGHT				
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	8.3	1.2
12 MAY 77	8.3	0.0	54.2	0.0	0.0	8.2	22.5	13.3
2 JUN 77	68.2	85.3	0.0	257.7	32.8	162.4	104.9	101.6
16 JUN 77	0.0	0.0	—	—	—	—	—	0.0
23 JUN 77	0.0	0.0	0.0	7.2	0.0	0.0	0.0	1.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	4.8	5.3	3.6	17.7	2.2	11.4	9.0	7.7

Note: Dashes (--) indicate data not available.

TABLE C.3-9 BOTTOM DENSITIES (No./1,000 m3) OF STRIPED BASS YOLK-SAC LARVAE COLLECTED AT THE STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	27.2	74.9	22.6	9.4	91.0	35.2	9.9	38.6
16 MAY 77	14.4	0.0	0.0	0.0	14.5	0.0	26.9	8.0
23 MAY 77	63.6	0.0	268.6	171.4	31.7	226.2	49.3	115.8
2 JUN 77	554.6	374.2	103.5	0.0	27.2	0.0	0.0	151.4
6 JUN 77	279.5	1075.7	235.7	34.2	0.0	0.0	0.0	232.2
13 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	7.5	1.1
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	49.4	80.3	33.2	11.3	8.7	13.8	4.9	28.8
				NIGHT				
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	8.8	1.3
12 MAY 77	0.0	0.0	38.2	0.0	67.6	15.8	35.9	22.5
2 JUN 77	226.5	39.9	52.1	93.9	0.0	28.9	80.2	74.5
16 JUN 77	0.0	0.0	--	--	--	--	--	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	14.2	2.5	6.0	6.3	4.5	3.0	8.3	6.4

Note: Dashes (--) indicate data not available.

TABLE C.3-10 SURFACE DENSITIES (No./1,000 m^3) OF STRIPED BASS POST YOLK-SAC LARVAE COLLECTED AT THE STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				NIGHT				
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	659.1	415.9	974.4	830.9	0.0	0.0	67.2	421.1
16 JUN 77	0.0	0.0	—	—	—	—	—	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	41.2	26.0	65.0	55.4	0.0	0.0	4.5	27.5

Note: Dashes (--) indicate data not available.

TABLE C.3-11 MIDDEPTH DENSITIES (No./1,000 m3) OF STRIPED BASS POST YOLK-SAC LARVAE COLLECTED AT THE STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 MAY 77	0.0	41.2	52.4	0.0	95.2	77.1	41.3	43.9
2 JUN 77	150.7	1266.5	659.8	0.0	61.4	0.0	179.5	331.1
6 JUN 77	1656.0	237.4	905.1	680.7	1919.0	0.0	137.4	790.8
13 JUN 77	0.0	0.0	0.0	0.0	0.0	69.1	0.0	9.9
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	95.1	81.3	85.1	35.8	109.2	7.7	18.9	61.9
				NIGHT				
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	292.2	554.4	0.0	618.5	65.7	1175.5	480.7	455.3
16 JUN 77	0.0	0.0	--	--	--	--	--	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	18.3	34.7	0.0	41.2	4.4	78.4	32.0	29.8

Note: Dashes (--) indicate data not available.

TABLE C.3-12 BOTTOM DENSITIES (No./1,000 m^3) OF STRIPED BASS POST YOLK-SAC LARVAE COLLECTED AT THE STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

	STATION							
DATE	A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 MAY 77	21.2	0.0	37.1	47.6	10.6	58.6	16.4	27.4
2 JUN 77	873.2	182.0	635.5	0.0	0.0	0.0	0.0	241.5
6 JUN 77	1021.5	526.4	602.4	196.8	0.0	0.0	0.0	335.3
13 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	22.5	3.2
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	100.8	37.3	67.1	12.9	0.6	3.1	2.0	32.0
				NIGHT				
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	0.0	339.6	239.8	1063.7	0.0	106.0	393.6	306.1
16 JUN 77	0.0	0.0	—	—	—	—	—	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	21.2	16.0	70.9	0.0	7.1	26.2	20.0

Note: Dashes (—) indicate data not available.

TABLE C.3-13 MEAN DENSITIES (No./1,000 m^3) OF WHITE PERCH EGGS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977[a]

DATE	STATION A	B	C	D	E	F	G	MEAN
DAY								
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 MAY 77	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.4
2 JUN 77	3.9	0.0	0.0	0.0	0.0	0.0	3.1	1.0
6 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.1
NIGHT								
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 JUN 77	0.0	0.0	--	--	--	--	--	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Note: Dashes (--) indicate data not available.
(a) Averaged over all three depths--surface, middepth, and bottom.

TABLE C.3-14 MEAN DENSITIES (No./1,000 m^3) OF WHITE PERCH YOLK-SAC LARVAE COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977[a]

DATE	STATION A	B	C	D	E	F	G	MEAN
DAY								
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.4
16 MAY 77	2.2	0.0	0.0	0.0	2.4	0.0	6.1	1.5
23 MAY 77	19.5	3.4	5.8	0.0	4.9	8.9	16.5	8.4
2 JUN 77	23.6	33.4	69.0	0.0	6.0	4.2	0.0	19.5
6 JUN 77	3.2	0.0	23.6	3.2	12.7	0.0	0.0	6.1
13 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	2.6	2.1	5.2	0.2	1.4	0.7	1.2	1.9
NIGHT								
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.4
12 MAY 77	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.4
2 JUN 77	0.0	30.0	24.4	9.2	3.6	11.6	17.0	13.7
16 JUN 77	0.0	0.0	--	--	--	--	--	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.2	1.9	1.6	0.6	0.4	0.8	1.1	0.9

Note: Dashes (--) indicate data not available.
(a) Averaged over all three depths--surface, middepth, and bottom.

TABLE C.3-15 MEAN DENSITIES (No./1,000 m^3) OF ALOSA SPP. YOLK-SAC LARVAE COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977[a]

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	2.7	2.9	0.0	0.0	0.0	0.0	0.0	0.8
9 MAY 77	9.3	17.6	9.9	6.1	0.0	0.0	0.0	6.1
16 MAY 77	0.0	0.0	0.0	7.4	0.0	0.0	6.0	1.9
23 MAY 77	15.5	0.0	2.9	9.5	0.0	2.8	8.2	5.6
2 JUN 77	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.9
6 JUN 77	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.4
13 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	1.6	1.2	0.8	1.2	0.0	0.1	0.7	0.8
				NIGHT				
26 APR 77	0.0	0.0	0.0	0.0	6.8	0.0	2.8	1.4
5 MAY 77	6.4	7.9	2.8	12.0	7.9	5.3	0.0	6.1
12 MAY 77	5.1	0.0	0.0	20.9	22.5	2.7	12.0	9.0
2 JUN 77	3.3	0.0	0.0	3.5	0.0	0.0	0.0	1.0
16 JUN 77	0.0	0.0	—	—	—	—	—	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.9	0.5	0.2	2.4	2.5	0.5	1.0	1.1

Note: Dashes (--) indicate data not available.
(a) Averaged over all three depths--surface, middepth, and bottom.

TABLE C.3-16 MEAN DENSITIES (No./1,000 m3) OF BAY ANCHOVY EGGS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977[a]

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 MAY 77	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.5
2 JUN 77	3.9	6.1	4.9	12.2	9.4	21.1	3.1	8.7
6 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.4
13 JUN 77	25.2	17.3	0.0	11.7	174.4	1156.7	72.3	208.2
23 JUN 77	0.0	0.0	55.1	0.0	0.0	0.0	0.0	7.9
27 JUN 77	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.8
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	688.3	162.1	0.0	0.0	2360.0	62.4	467.5
18 JUL 77	6.2	0.0	0.0	622.1	179.6	9.3	312.8	161.4
25 JUL 77	2.5	0.0	0.0	0.0	19.4	13.1	108.5	20.5
15 AUG 77	5.4	24.0	0.0	3.7	33.4	9767.3	2401.4	1747.9
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	2.3	38.7	11.7	34.4	21.9	701.8	156.0	138.1
				NIGHT				
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	0.0	6.7	0.0	15.7	3.6	3.2	2.4	4.5
16 JUN 77	2.2	0.0	--	--	--	--	--	1.1
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	13.2	12.4	3.7
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	7691.8	199.0	1798.9	16266.4	743.7	393.7	4598.6	4527.4
21 JUL 77	0.0	0.0	0.0	0.0	13.4	3623.7	126.6	537.7
28 JUL 77	0.0	0.0	0.0	18.9	10.1	54.7	20.4	14.9
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	480.9	12.9	119.9	1086.7	51.4	272.6	317.4	332.9

Note: Dashes (--) indicate data not available.
(a) Averaged over all three depths--surface, middepth, and bottom.

TABLE C.3-17 MEAN DENSITIES (No./1,000 m3) OF BAY ANCHOVY YOLK-SAC LARVAE COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977[a]

DATE	STATION A	B	C	D	E	F	G	MEAN
				DAY				
12 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11 JUL 77	0.0	329.5	469.7	0.0	0.0	86.3	6.1	127.4
18 JUL 77	6.2	2.5	0.0	0.0	0.0	0.0	0.0	1.2
25 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 AUG 77	0.0	0.0	0.0	0.0	0.0	111.9	0.0	16.0
14 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.3	17.5	24.7	0.0	0.0	10.4	0.3	7.6
				NIGHT				
26 APR 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 MAY 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 JUN 77	0.0	0.0	--	--	--	--	--	0.0
23 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 JUN 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14 JUL 77	192.6	128.7	356.9	76.3	177.6	110.9	51.5	156.4
21 JUL 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 JUL 77	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.5
25 AUG 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15 SEP 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 OCT 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16 NOV 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 DEC 77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	12.3	8.0	23.8	5.1	11.8	7.4	3.4	10.3

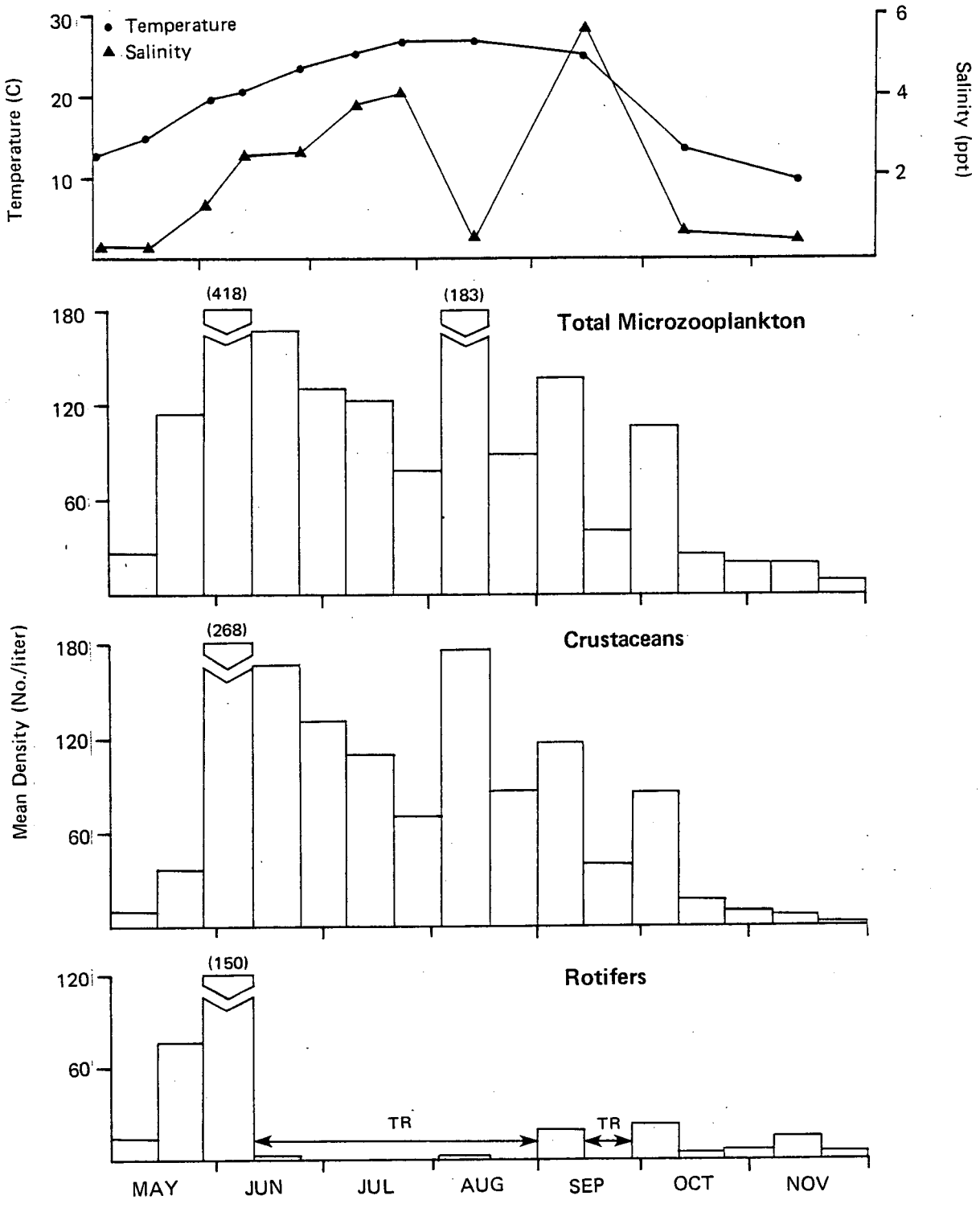
Note: Dashes (--) indicate data not available.
(a) Averaged over all three depths--surface, middepth, and bottom.

APPENDIX D

SEASONAL ABUNDANCE OF SELECTED TAXA COLLECTED AT STANDARD RIVER STATIONS, INDIAN POINT GENERATING STATION, 1977

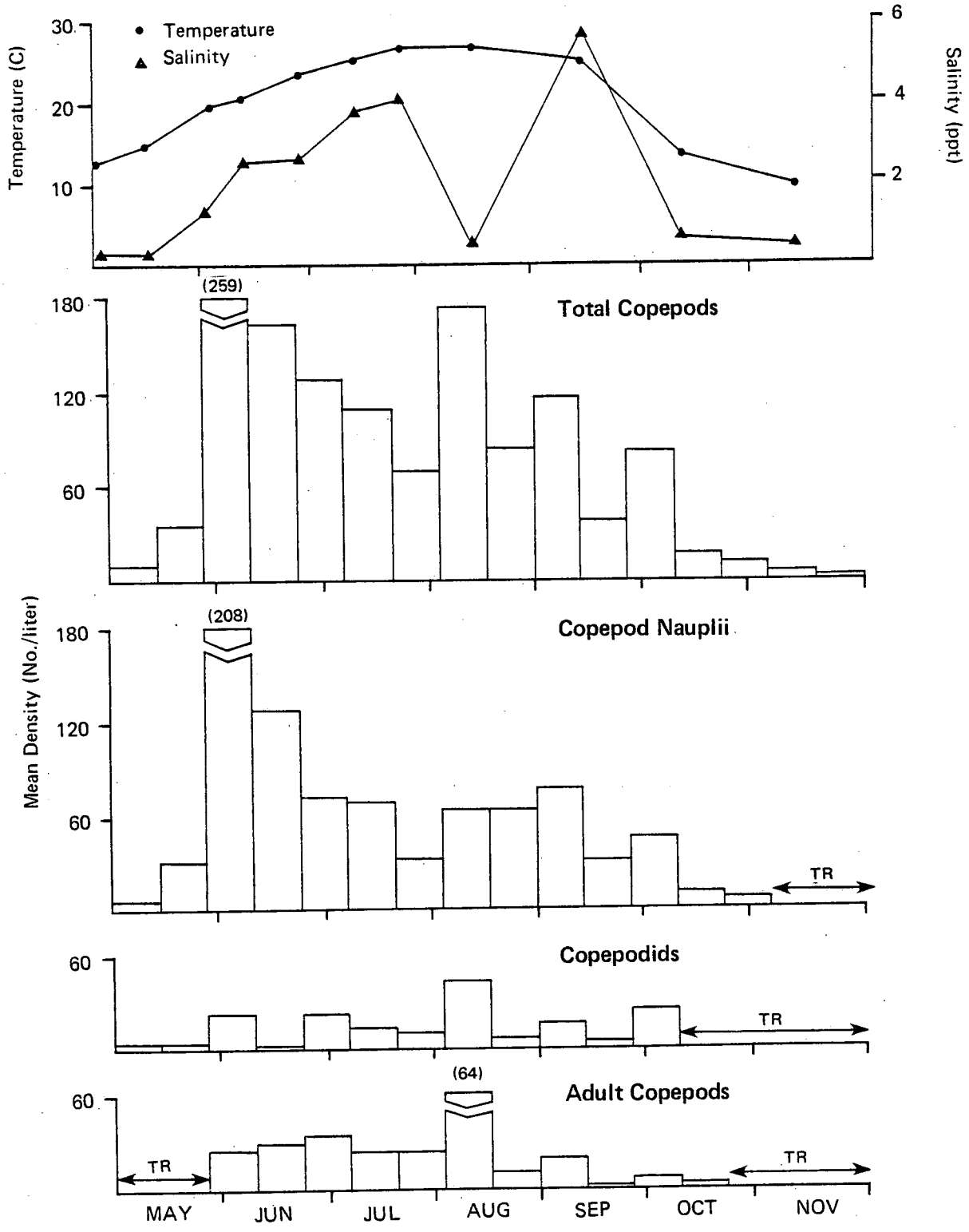
APPENDIX D FIGURES

Title	Number
D.1 MICROZOOPLANKTON SEASONAL ABUNDANCE	
Total Microzooplankton, Crustaceans and Rotifers	D.1-1
Copepod Nauplii, Copepodids and Copepod Adults	D.1-2
Acartia tonsa and *Eurytemora affinis*	D.1-3
Total Cladocerans, *Bosmina longirostris*, and *Diaphanosoma brachyurum*	D.1-4
D.2 MACROZOOPLANKTON SEASONAL ABUNDANCE	
Total Macrozooplankton	D.2-1
Gammarus spp., *Neomysis americana*, *Monoculodes edwardsi*, *Chaoborus punctipennis*	D.2-2
D.3 ICHTHYOPLANKTON SEASONAL ABUNDANCE	
Total Ichthyoplankton	D.3-1
Striped bass	D.3-2
White perch	D.3-3
Alosa spp.	D.3-4
Bay anchovy	D.3-5



TR indicates trace numbers collected.

Figure D.1-1. Mean densities (No./liter) of total microzooplankton, crustaceans, and rotifers collected at standard river stations in the vicinity of the Indian Point Generating Station, 1977. (See Appendix A for water quality data.)



TR indicates trace numbers collected.

Figure D.1-2. Mean densities (No./liter) of copepod nauplii, copepodids, and copepod adults collected at standard river stations in the vicinity of the Indian Point Generating Station, 1977. (See Appendix A for water quality data.)

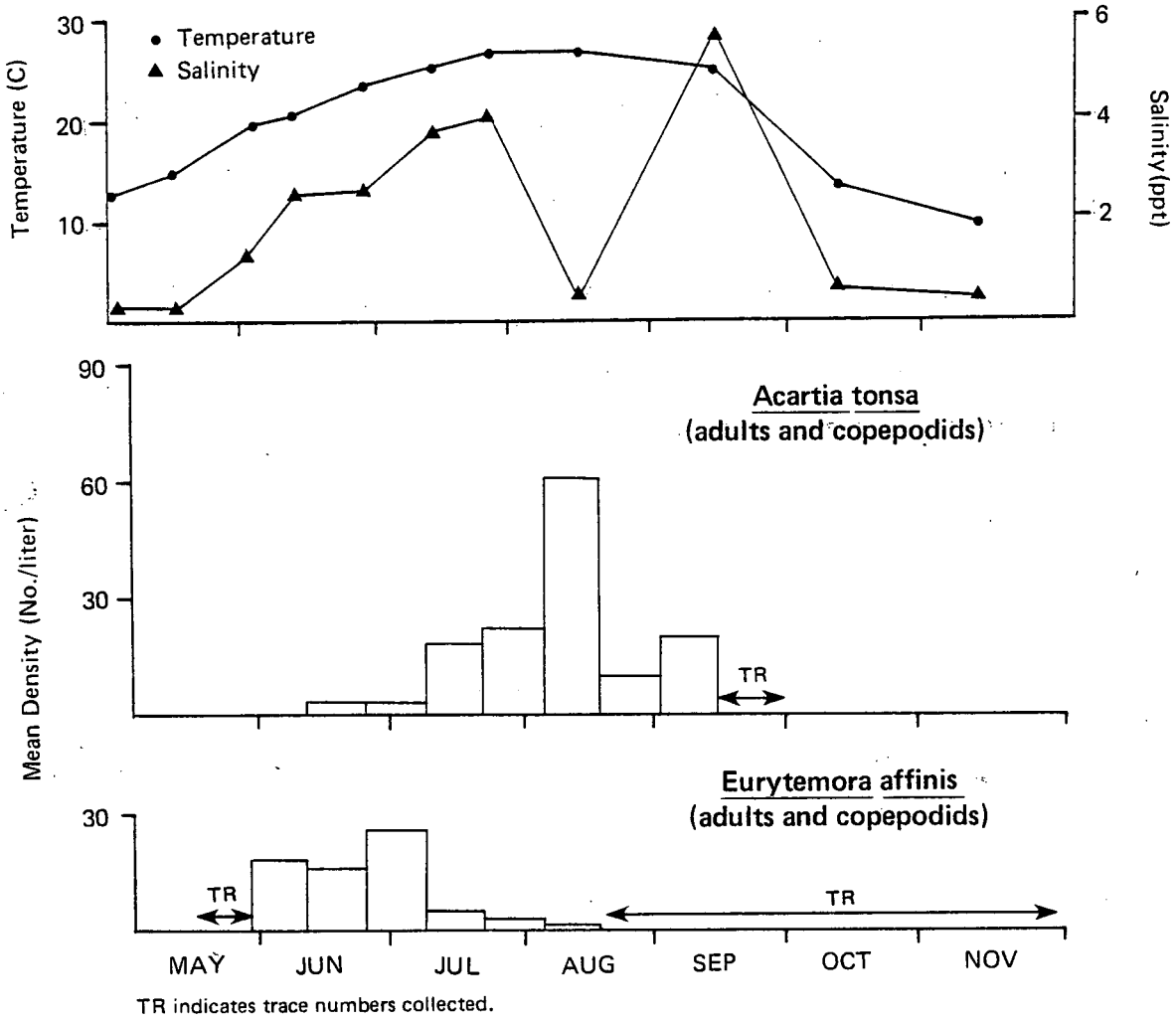


Figure D.1-3. Mean densities (No./liter) of Acartia tonsa and Eurytemora affinis collected at standard river stations in the vicinity of the Indian Point Generating Station, 1977. (See Appendix A for water quality data.)

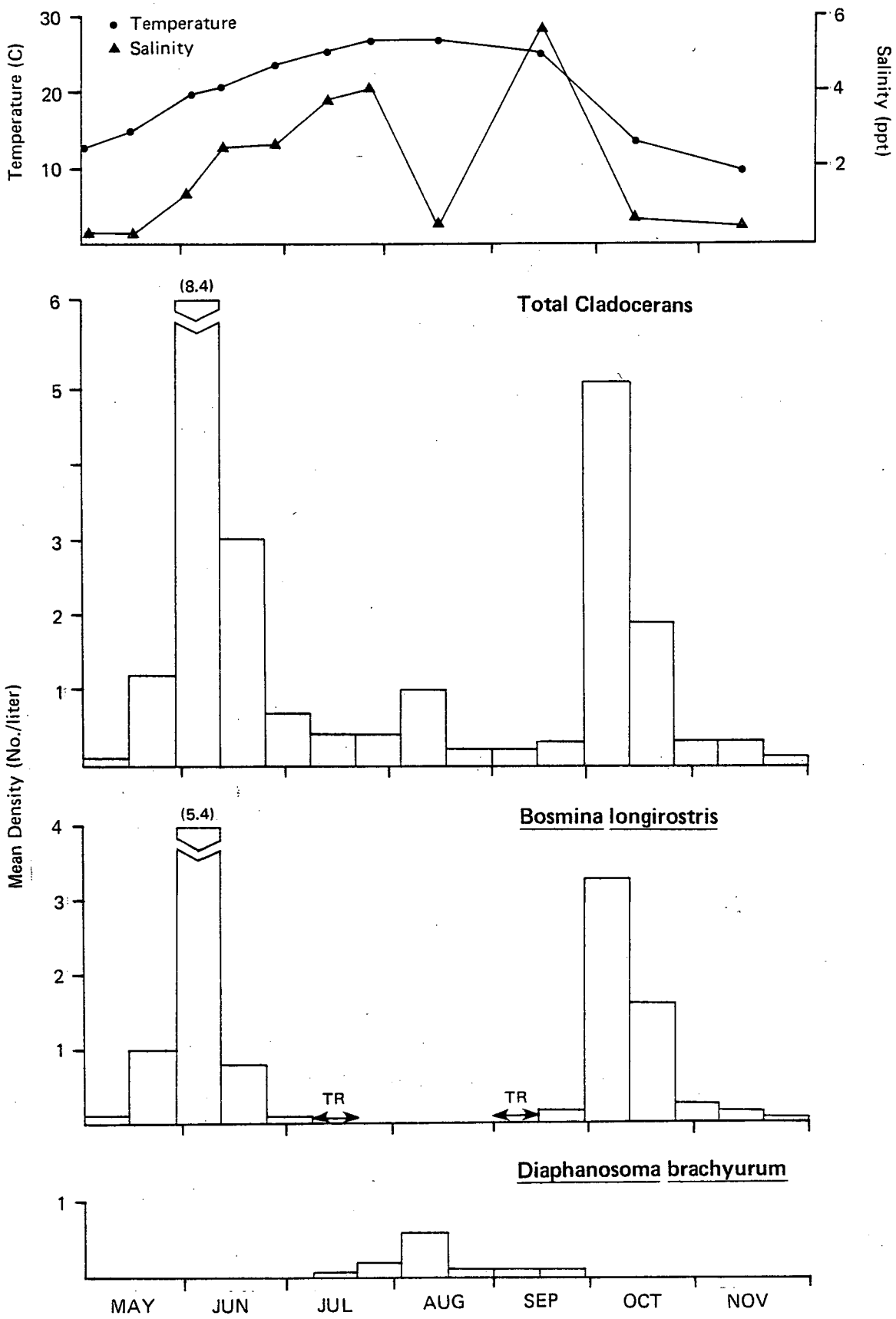
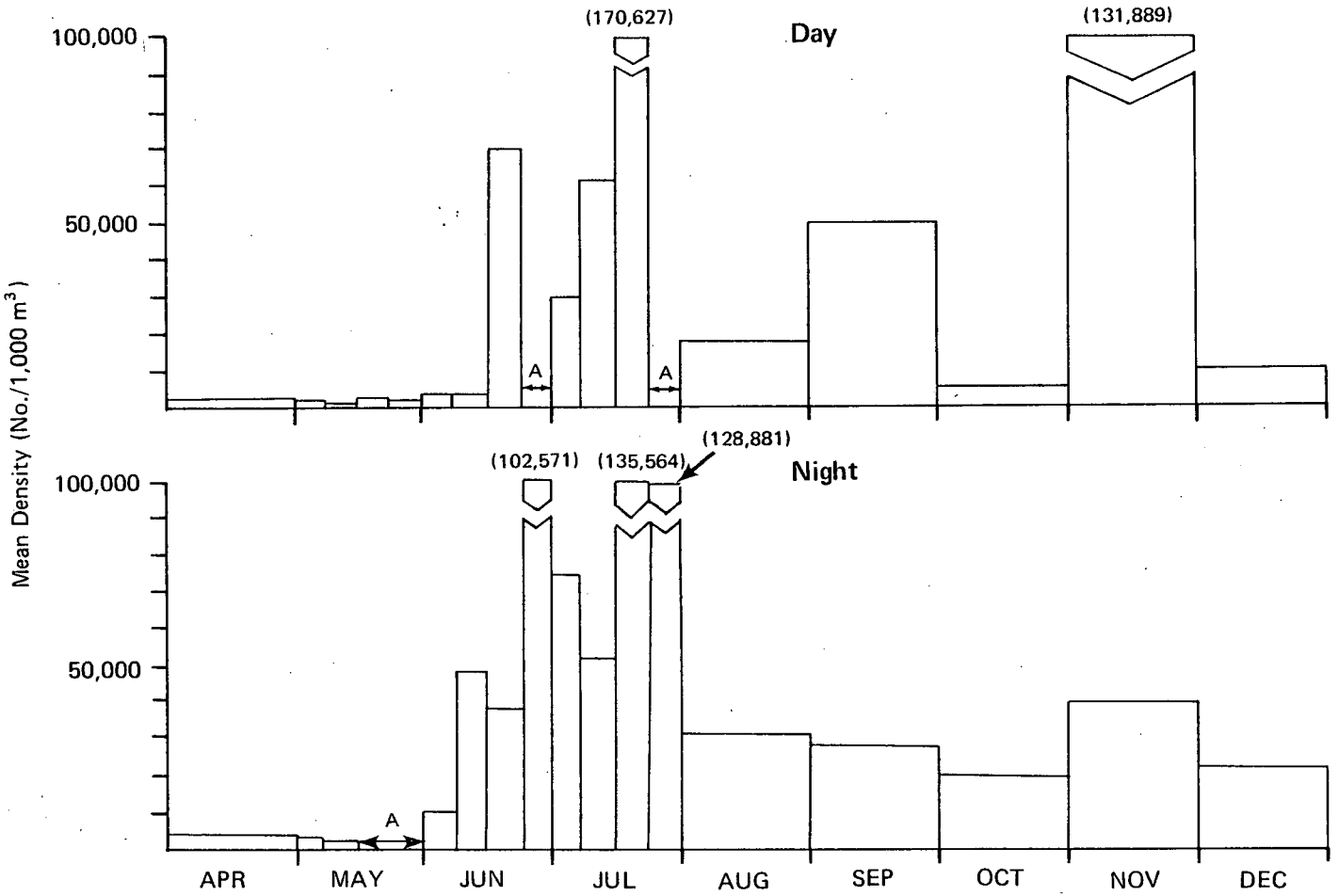
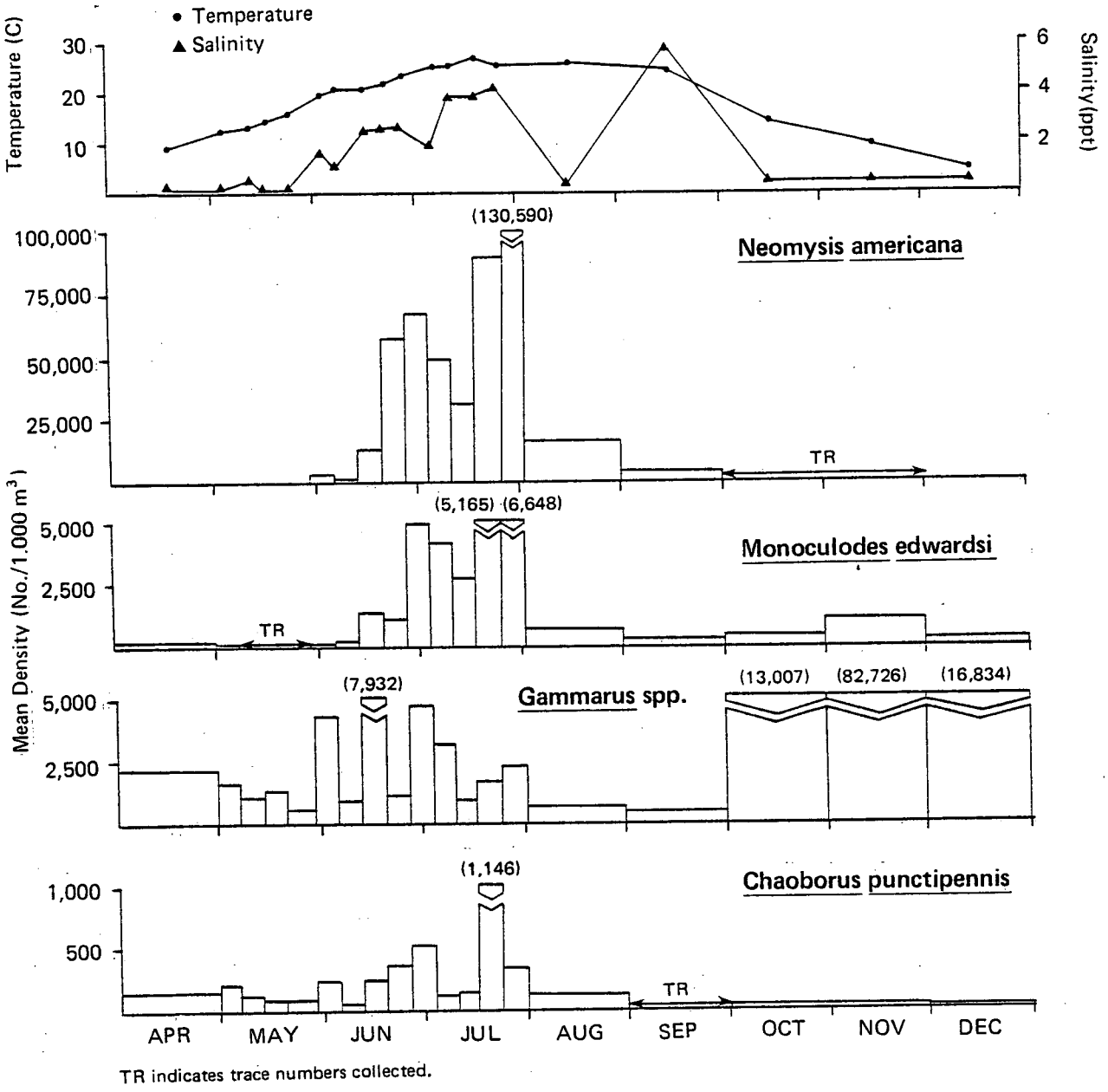


Figure D.1-4. Mean densities (No./liter) of total cladocerans, Bosmina longirostris, and Diaphanosoma brachyurum collected at standard river stations in the vicinity of the Indian Point Generating Station, 1977. (See Appendix A for water quality data.)



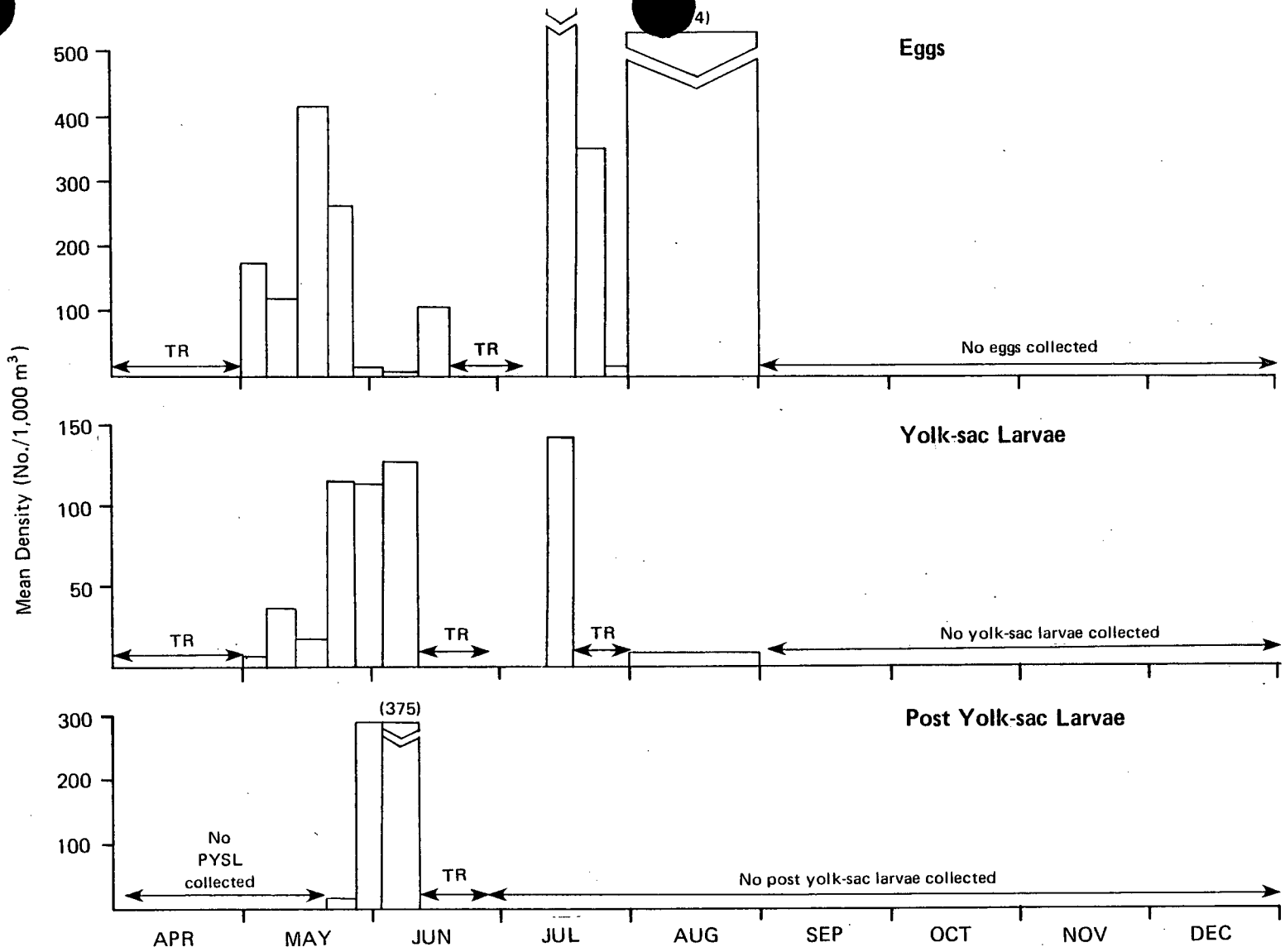
A indicates no sampling conducted.

Figure D.2-1. Day and night mean densities (No./1,000 m^3) of total macrozooplankton collected at standard river stations in the vicinity of the Indian Point Generating Station, 1977.



TR indicates trace numbers collected.

Figure D.2-2. Mean densities (No./1,000 m^3) of four major macrozooplankton taxa (Neomysis americana, Monoculodes edwardsi, Gammarus spp., and Chaoborus punctipennis) collected at standard river stations in the vicinity of the Indian Point Generating Station, 1977. (See Appendix A for water quality data.)



TR indicates trace numbers collected.

Figure D.3-1. Mean densities (No./1,000 m³) of total ichthyoplankton collected at standard river stations in the vicinity of the Indian Point Generating Station, 1977.

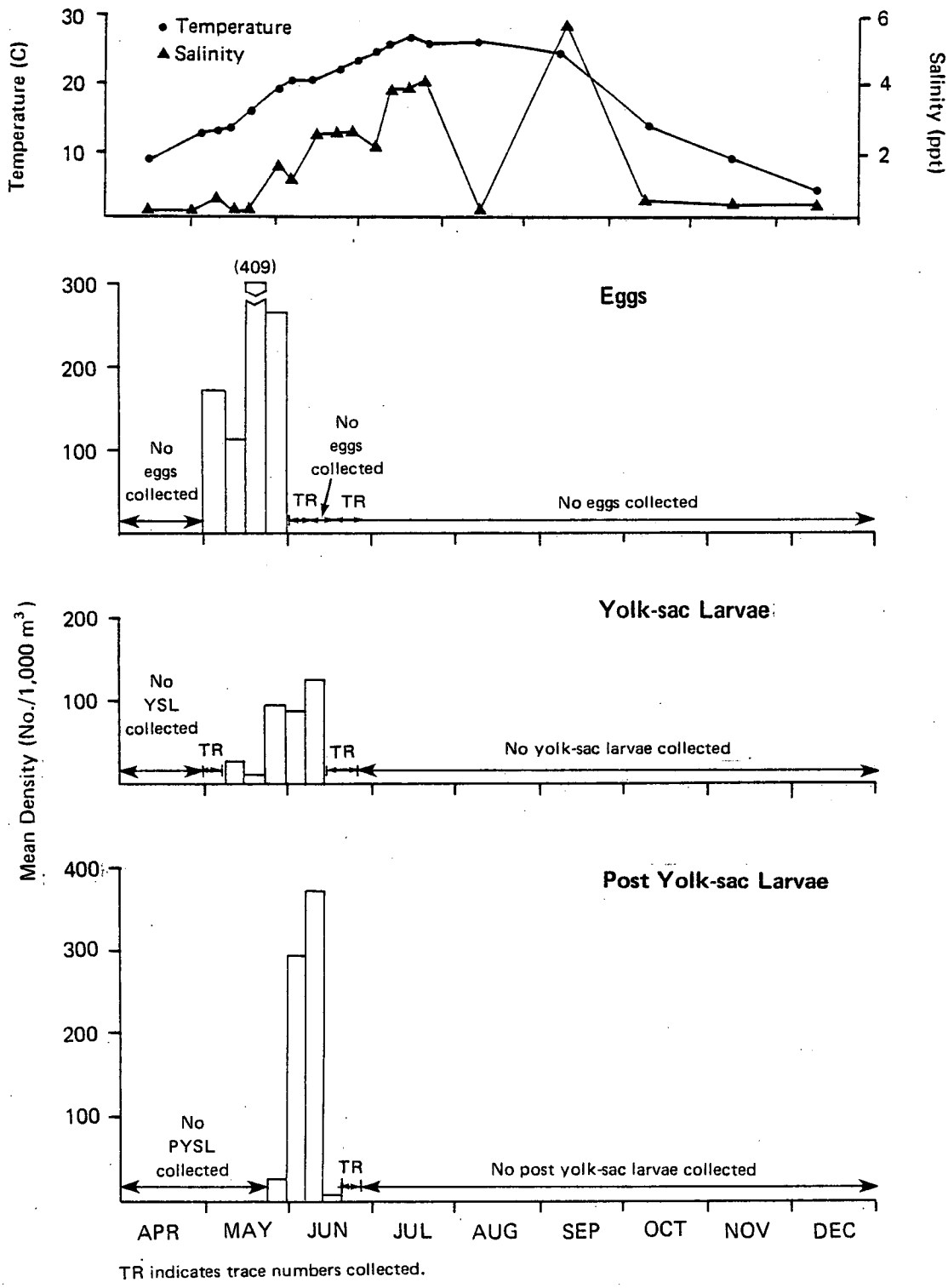


Figure D.3-2. Mean densities (No./1,000 m^3) of striped bass early developmental stages collected at standard river stations in the vicinity of the Indian Point Generating Station, 1977. (See Appendix A for water quality data.)

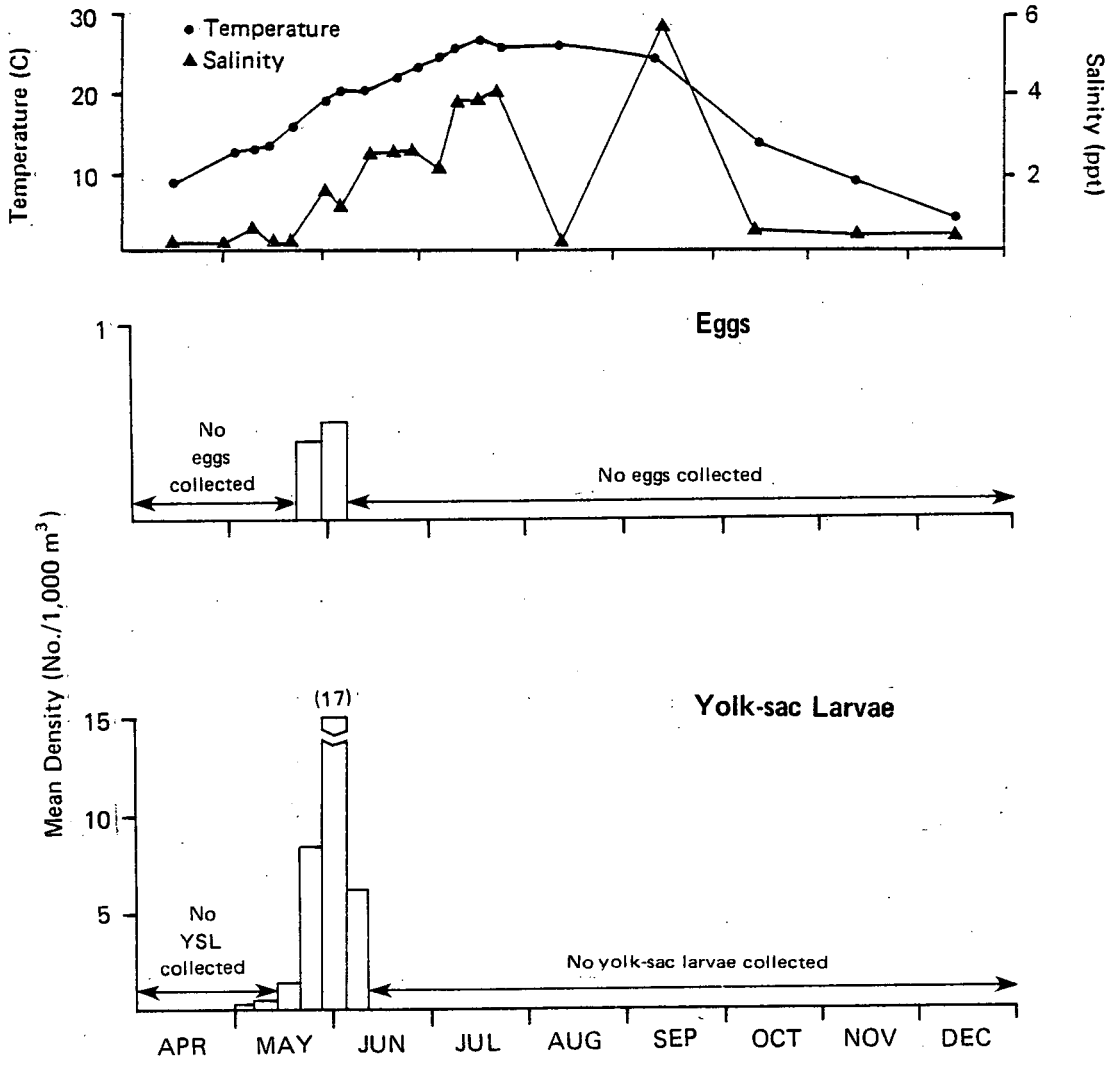


Figure D.3-3. Mean densities (No./1,000 m^3) of white perch early developmental stages collected at standard river stations in the vicinity of the Indian Point Generating Station, 1977. (See Appendix A for water quality data.)

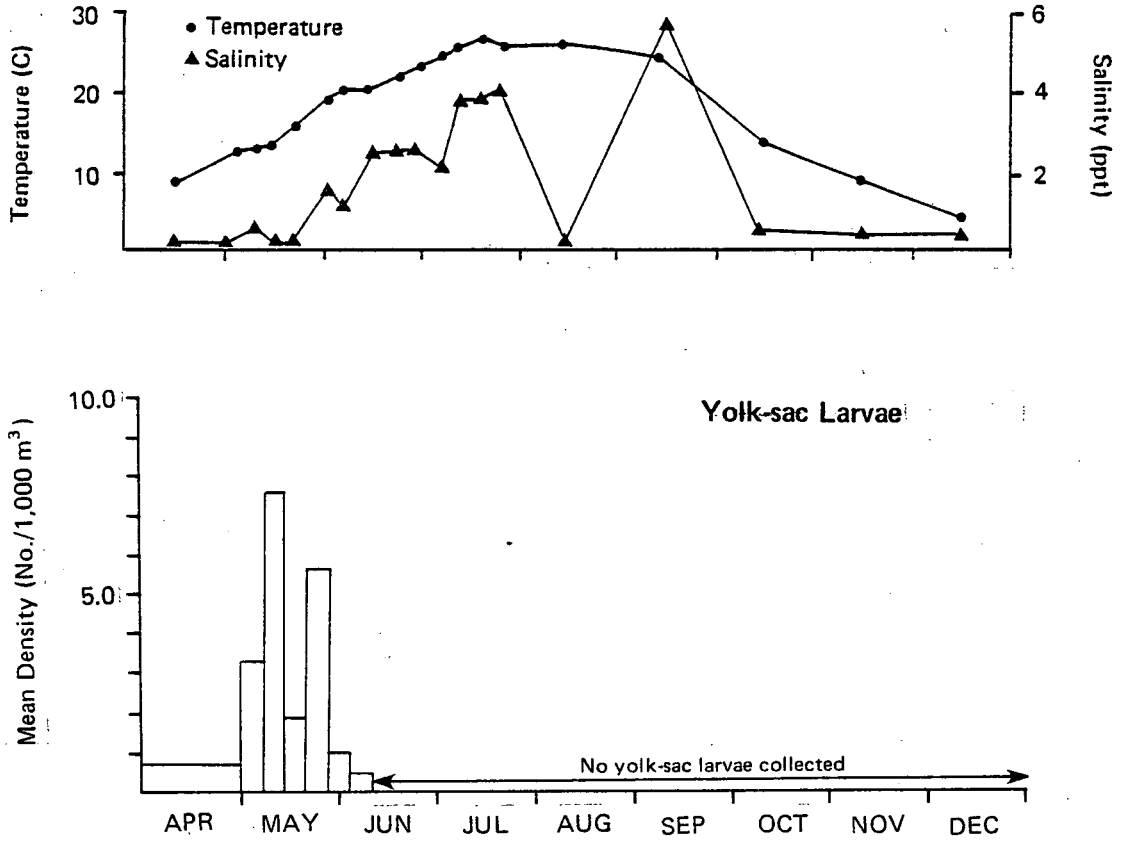
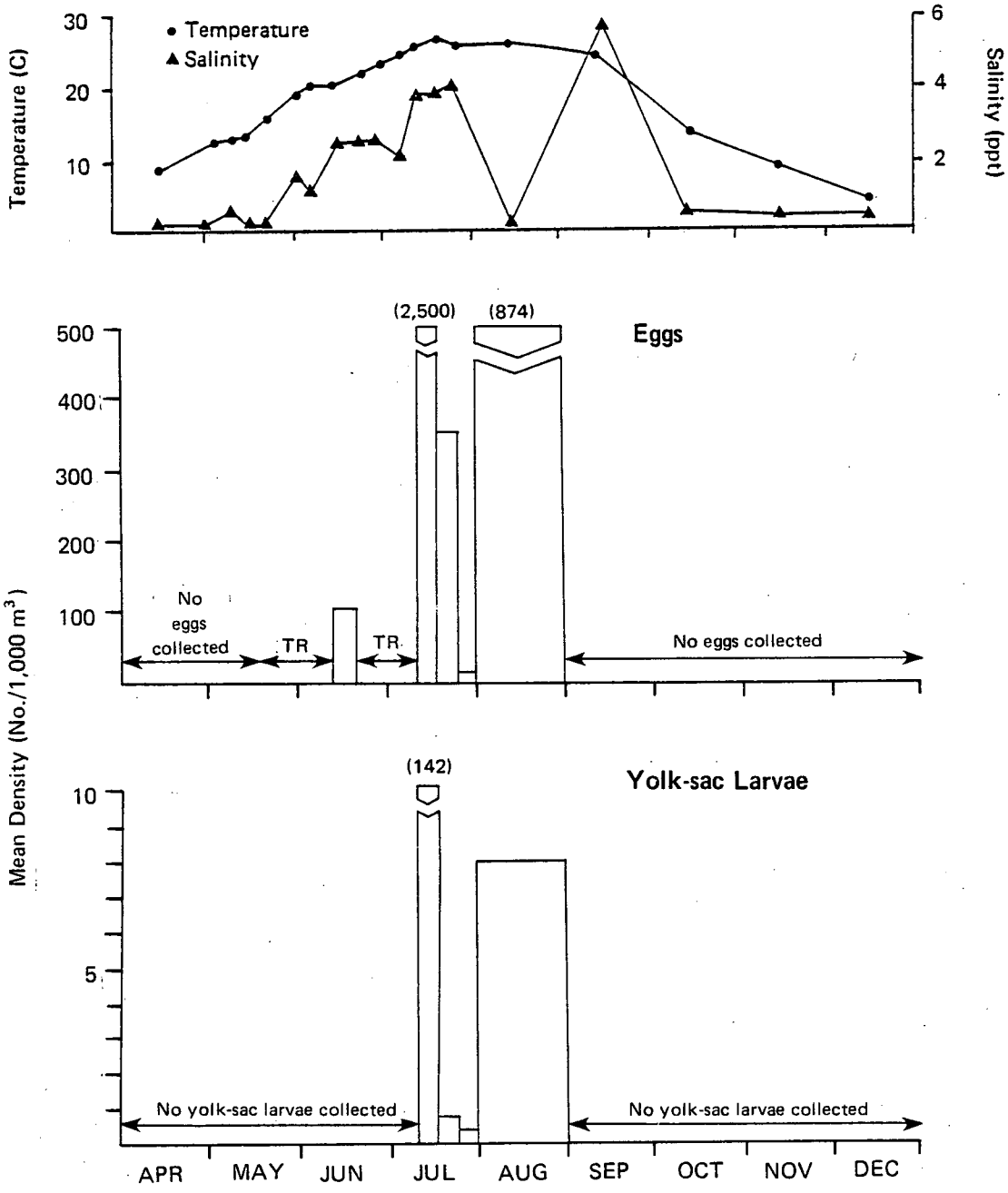


Figure D.3-4. Mean densities (No./1,000 m^3) of Alosa spp. early developmental stages collected at standard river stations in the vicinity of the Indian Point Generating Station, 1977. (See Appendix A for water quality data.)



TR indicates trace numbers collected.

Figure D.3-5. Mean densities (No./1,000 m^3) of bay anchovy early developmental stages collected at standard river stations in the vicinity of the Indian Point Generating Station, 1977. (See Appendix A for water quality data.)

APPENDIX E

ENTRAINMENT ABUNDANCE OF STRIPED BASS EARLY DEVELOPMENTAL STAGES, INDIAN POINT GENERATING STATION, 1977

APPENDIX E TABLES

Title	Number
E.1 DENSITIES OF STRIPED BASS COLLECTED AT STATION I2 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977	E.1-1
E.2 DENSITIES OF STRIPED BASS COLLECTED AT STATION I3 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977	E.2-1
E.3 DENSITIES OF STRIPED BASS COLLECTED AT STATION D1 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977	E.3-1
E.4 DENSITIES OF STRIPED BASS COLLECTED AT STATION D2 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977	E.4-1

TABLE E.1-1 DENSITIES OF STRIPED BASS COLLECTED AT STATION I2 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
17 MAY	S	1630	15.8	--	11.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	22.70	88.2	0.0	0.0	0.0	0.0	0.0
	B		--	--	20.60	97.0	0.0	0.0	0.0	0.0	0.0
17 MAY	S	1830	15.0	--	13.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	20.10	348.5	49.8	0.0	0.0	0.0	49.8
	B		--	--	22.50	88.8	0.0	0.0	0.0	0.0	0.0
17 MAY	S	2030	14.5	--	8.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	19.00	105.1	0.0	0.0	0.0	0.0	0.0
	B		--	--	21.10	47.3	47.3	0.0	0.0	0.0	47.3
17 MAY	S	2230	15.1	--	4.40	2490.1	452.7	0.0	0.0	0.0	452.7
	M		--	--	18.10	2153.3	0.0	0.0	0.0	0.0	0.0
	B		--	--	18.20	3516.5	0.0	0.0	0.0	0.0	0.0
18 MAY	S	0030	--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	M		--	--	20.10	49.8	49.8	0.0	0.0	0.0	49.8
	B		--	--	20.40	490.7	0.0	0.0	0.0	0.0	0.0
18 MAY	S	0230	15.5	--	12.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	23.00	43.5	0.0	0.0	0.0	0.0	0.0
	B		--	--	20.30	49.2	0.0	0.0	0.0	0.0	0.0
18 MAY	S	0430	15.2	--	14.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	22.70	44.1	44.1	0.0	0.0	0.0	44.1
	B		--	--	21.50	93.0	46.5	0.0	0.0	0.0	46.5
18 MAY	S	0630	15.0	--	11.80	169.8	0.0	0.0	0.0	0.0	0.0
	M		--	--	22.10	724.4	45.3	0.0	0.0	0.0	45.3
	B		--	--	22.20	449.7	89.9	0.0	0.0	0.0	89.9
18 MAY	S	0830	14.9	--	12.40	80.8	0.0	0.0	0.0	0.0	0.0
	M		--	--	21.80	229.4	91.8	0.0	0.0	0.0	91.8
	B		--	--	22.10	181.1	135.8	0.0	0.0	0.0	135.8

TABLE E.1-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
18 MAY	S	1030	16.2	--	5.60	893.6	0.0	0.0	0.0	0.0	0.0
	M		--	--	28.60	525.1	0.0	0.0	0.0	0.0	0.0
	B		--	--	23.80	923.4	42.0	0.0	0.0	0.0	42.0
18 MAY	S	1230	--	--	--	--	--	--	--	--	--
	M		--	--	22.10	769.7	90.5	0.0	0.0	0.0	90.5
	B		--	--	25.30	671.2	79.0	0.0	0.0	0.0	79.0
18 MAY	S	1430	16.0	--	10.00	99.9	0.0	0.0	0.0	0.0	0.0
	M		--	--	23.90	0.0	209.6	0.0	0.0	0.0	209.6
	B		--	--	26.20	114.5	0.0	0.0	0.0	0.0	0.0
18 MAY	S	1700	--	--	--	--	--	--	--	--	--
	M		--	--	25.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	25.10	79.7	0.0	0.0	0.0	0.0	0.0
18 MAY	S	1830	16.0	--	10.60	188.6	0.0	0.0	0.0	0.0	0.0
	M		--	--	28.30	565.9	35.4	0.0	0.0	0.0	35.4
	B		--	--	24.80	928.6	40.4	0.0	0.0	0.0	40.4
18 MAY	S	2030	15.5	--	12.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	25.90	38.6	154.3	0.0	0.0	0.0	154.3
	B		--	--	23.00	87.1	87.1	0.0	0.0	0.0	87.1
18 MAY	S	2230	16.0	--	5.60	3038.2	0.0	0.0	0.0	0.0	0.0
	M		--	--	16.80	1780.9	59.4	0.0	0.0	0.0	59.4
	B		--	--	22.70	2822.3	220.5	0.0	0.0	0.0	220.5
19 MAY	S	0030	16.8	--	4.50	670.2	0.0	0.0	0.0	0.0	0.0
	M		--	--	19.10	470.2	52.2	0.0	0.0	0.0	52.2
	B		--	--	24.80	1292.0	40.4	0.0	0.0	0.0	40.4
19 MAY	S	0230	16.8	--	9.80	0.0	102.0	0.0	0.0	0.0	102.0
	M		--	--	18.00	55.7	55.7	0.0	0.0	0.0	55.7
	B		--	--	27.40	109.5	73.0	0.0	0.0	0.0	73.0

TABLE E. (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
19 MAY	S	0430	16.3	--	14.10	0.0	141.5	0.0	0.0	0.0	141.5
	M		--	--	33.90	0.0	118.1	0.0	0.0	0.0	118.1
	B		--	--	32.70	61.2	153.1	0.0	0.0	0.0	153.1
19 MAY	S	0630	16.3	--	19.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	B		--	--	35.00	114.1	0.0	0.0	0.0	0.0	0.0
19 MAY	S	0830	--	--	14.40	485.1	69.3	0.0	0.0	0.0	69.3
	M		--	--	22.10	1222.4	226.4	0.0	0.0	0.0	226.4
	B		--	--	23.30	1805.2	214.9	0.0	0.0	0.0	214.9
19 MAY	S	1030	--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	M		--	--	25.60	78.1	0.0	0.0	0.0	0.0	0.0
	B		--	--	20.90	382.6	47.8	0.0	0.0	0.0	47.8
19 MAY	S	1230	16.0	--	8.60	115.9	0.0	0.0	0.0	0.0	0.0
	M		--	--	25.90	810.3	0.0	0.0	0.0	0.0	0.0
	B		--	--	19.10	1619.4	104.5	0.0	0.0	0.0	104.5
19 MAY	S	1430	--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	M		--	--	34.20	468.4	58.5	0.0	0.0	0.0	58.5
	B		--	--	28.60	700.1	70.0	0.0	0.0	0.0	70.0
24 MAY	S	1500	--	--	3.20	926.1	0.0	0.0	0.0	0.0	0.0
	M		--	--	21.20	330.1	0.0	0.0	0.0	0.0	0.0
	B		--	--	14.10	919.6	0.0	0.0	0.0	0.0	0.0
24 MAY	S	1630	18.2	--	3.10	323.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	12.70	157.9	0.0	0.0	0.0	0.0	0.0
	B		--	--	23.00	304.7	0.0	0.0	0.0	0.0	0.0
24 MAY	S	1830	19.0	--	4.40	452.7	0.0	0.0	0.0	0.0	0.0
	M		--	--	14.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)

TABLE E.1-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
24 MAY	S	2030	19.0	--	2.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	13.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	25.30	0.0	0.0	0.0	0.0	0.0	0.0
24 MAY	S	2230	18.5	--	8.50	1405.1	0.0	0.0	0.0	0.0	0.0
	M		--	--	11.20	536.1	0.0	0.0	0.0	0.0	0.0
	B		--	--	20.90	3586.9	47.8	0.0	0.0	0.0	47.8
25 MAY	S	0030	18.3	--	2.70	754.6	0.0	0.0	0.0	0.0	0.0
	M		--	--	14.10	283.0	70.7	0.0	0.0	0.0	70.7
	B		--	--	20.90	334.8	239.1	0.0	0.0	0.0	239.1
25 MAY	S	0230	18.7	--	15.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	23.30	43.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	12.10	496.9	248.5	0.0	0.0	0.0	248.5
25 MAY	S	0430	--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	M		--	--	12.20	81.8	163.6	0.0	0.0	0.0	163.6
	B		--	--	22.20	359.8	0.0	0.0	0.0	0.0	0.0
25 MAY	S	0630	19.6	--	4.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	14.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	25.20	0.0	0.0	0.0	0.0	0.0	0.0
25 MAY	S	0835	19.4	--	3.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	17.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	27.70	0.0	0.0	0.0	0.0	0.0	0.0
25 MAY	S	1030	19.0	--	10.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	7.70	130.6	0.0	0.0	0.0	0.0	0.0
	B		--	--	15.30	326.5	65.3	0.0	0.0	0.0	65.3
25 MAY	S	1230	--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	M		--	--	13.00	308.7	77.2	0.0	0.0	0.0	77.2
	B		--	--	15.30	653.0	391.8	0.0	0.0	0.0	391.8

TABLE E. (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
25 MAY	S	1430	17.5	--	8.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	14.40	69.3	0.0	0.0	0.0	0.0	0.0
	B		--	--	16.10	62.3	62.3	0.0	0.0	0.0	62.3
25 MAY	S	1630	19.5	--	10.30	194.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	12.40	485.1	0.0	0.0	0.0	0.0	0.0
	B		--	--	19.40	205.8	0.0	0.0	0.0	0.0	0.0
25 MAY	S	1830	19.5	--	6.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	8.50	234.2	0.0	0.0	0.0	0.0	0.0
	B		--	--	18.30	54.8	0.0	0.0	0.0	0.0	0.0
25 MAY	S	2030	19.8	--	7.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	12.40	0.0	80.8	0.0	0.0	0.0	80.8
	B		--	--	20.60	0.0	0.0	0.0	0.0	0.0	0.0
25 MAY	S	2230	19.8	--	8.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	8.00	125.8	0.0	0.0	0.0	0.0	0.0
	B		--	--	19.00	315.9	105.3	0.0	0.0	0.0	105.3
26 MAY	S	0030	18.8	--	12.10	331.3	0.0	0.0	0.0	0.0	0.0
	M		--	--	10.60	660.3	94.3	0.0	0.0	0.0	94.3
	B		--	--	15.90	1383.4	0.0	0.0	0.0	0.0	0.0
26 MAY	S	0230	18.2	--	7.90	126.7	0.0	0.0	0.0	0.0	0.0
	M		--	--	11.50	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	16.60	0.0	180.3	60.1	0.0	0.0	240.4
26 MAY	S	0430	18.9	--	9.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	14.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	15.30	326.5	0.0	0.0	0.0	0.0	0.0
26 MAY	S	0630	19.5	--	10.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	9.10	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	16.50	60.6	0.0	0.0	0.0	0.0	0.0

TABLE E.1-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
26 MAY	S	0830	19.5	--	10.30	97.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	10.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	20.20	0.0	0.0	0.0	0.0	0.0	0.0
26 MAY	S	1030	19.4	--	6.50	154.3	0.0	0.0	0.0	0.0	0.0
	M		--	--	8.10	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	16.30	0.0	0.0	0.0	0.0	0.0	0.0
26 MAY	S	1230	18.0	--	7.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	6.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	14.30	0.0	0.0	0.0	0.0	0.0	0.0
26 MAY	S	1430	17.4	--	8.50	234.2	117.1	0.0	0.0	0.0	117.1
	M		--	--	6.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	15.20	131.9	0.0	0.0	0.0	0.0	0.0
31 MAY	S	1500	19.5	--	5.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	5.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	3.80	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	1700	19.4	--	5.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	3.80	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	5.70	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	1900	18.5	--	4.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	3.80	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	8.80	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	2100	19.9	--	10.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	2.90	0.0	339.6	339.6	0.0	0.0	679.2
	B		--	--	6.00	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	2300	19.9	--	5.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	2.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	3.20	0.0	0.0	0.0	0.0	0.0	0.0

TABLE E. (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
01 JUN	S	0100	19.4	--	7.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	3.20	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	5.40	0.0	0.0	0.0	0.0	0.0	0.0
01 JUN	S	0300	19.1	--	5.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	B		--	--	8.10	0.0	0.0	0.0	0.0	0.0	0.0
07 JUN	S	1500	--	--	18.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	18.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	24.10	0.0	0.0	0.0	0.0	0.0	0.0
07 JUN	S	1700	--	--	17.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	15.60	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	18.80	0.0	0.0	0.0	0.0	0.0	0.0
07 JUN	S	1900	--	--	22.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	16.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	21.20	0.0	47.2	188.6	0.0	0.0	235.8
07 JUN	S	2100	--	--	27.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	16.80	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	24.00	0.0	0.0	0.0	0.0	0.0	0.0
07 JUN	S	2300	--	--	15.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	17.80	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	25.00	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	0100	--	--	17.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	16.10	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	2.80	0.0	0.0	0.0	0.0	0.0	0.0

TABLE E.1-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
08 JUN	S	0300	--	--	23.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	17.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	22.60	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	0500	21.0	--	1.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	15.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	23.30	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	0700	20.0	--	15.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	18.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	23.00	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	0900	19.1	--	21.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	17.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	23.60	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1100	19.1	--	12.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	13.80	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	24.90	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1300	19.0	--	10.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	14.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	24.00	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1500	18.9	--	21.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	12.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	21.90	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1700	21.8	--	20.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	13.00	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	20.30	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1900	21.8	--	20.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	13.00	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	20.30	0.0	0.0	0.0	0.0	0.0	0.0

TABLE E.1-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
08 JUN	S	2100	20.1	--	22.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	15.80	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	25.50	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	2300	20.0	--	13.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	14.60	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	23.90	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	0100	19.7	--	9.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	16.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	24.90	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	0300	19.5	--	19.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	16.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	23.60	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	0500	20.0	--	8.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	20.00	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	23.90	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	0700	20.9	--	25.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	18.00	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	26.20	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	0900	19.7	--	15.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	18.00	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	23.90	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	1100	19.1	--	13.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	17.20	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	24.60	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	1300	18.7	--	13.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	16.20	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	24.00	0.0	0.0	0.0	0.0	0.0	0.0

TABLE E.1-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M)					
						EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
09 JUN	S	1500	18.9	--	24.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	19.10	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	23.90	0.0	0.0	0.0	0.0	0.0	0.0

(a) Includes all sampling dates when striped bass were collected at this station (17 May 77 through 7 June 77).
(b) Total density of striped bass life stages collected excluding eggs.
(c) Data excluded from analysis because of extremely high or low sample volume.

Note: Dashes (--) indicate data not available.
S = surface; M = middepth; B = bottom
YSL = yolk-sac larvae; PYSL = post yolk-sac larvae; JUV = juveniles; UID = unidentified life stages

TABLE E.2-1 DENSITIES OF STRIPED BASS COLLECTED AT STATION I3 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	DID	TOTAL (b)
03 MAY	S	1430	12.2	--	7.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	7.70	130.6	0.0	0.0	0.0	0.0	0.0
	B		--	--	8.00	503.0	0.0	0.0	0.0	0.0	0.0
03 MAY	S	1630	13.0	--	7.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	8.00	125.8	0.0	0.0	0.0	0.0	0.0
	B		--	--	10.30	0.0	0.0	0.0	0.0	0.0	0.0
03 MAY	S	1830	12.2	--	7.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	7.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	7.70	0.0	0.0	0.0	0.0	0.0	0.0
03 MAY	S	2030	13.0	--	7.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	12.40	80.8	0.0	0.0	0.0	0.0	0.0
	B		--	--	10.30	0.0	0.0	0.0	0.0	0.0	0.0
03 MAY	S	2230	13.0	--	7.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	3.20	308.7	0.0	0.0	0.0	0.0	0.0
	B		--	--	5.70	1218.9	0.0	0.0	0.0	0.0	0.0
04 MAY	S	0030	13.0	--	7.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	B		--	--	5.90	169.8	0.0	0.0	0.0	0.0	0.0
04 MAY	S	0230	13.0	--	7.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	5.60	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	8.20	121.3	0.0	0.0	0.0	0.0	0.0
10 MAY	S	1430	13.0	--	7.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	8.00	251.5	0.0	0.0	0.0	0.0	0.0
	B		--	--	14.40	69.3	0.0	0.0	0.0	0.0	0.0
10 MAY	S	1630	14.0	--	7.30	136.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	14.30	700.1	0.0	0.0	0.0	0.0	0.0
	B		--	--	9.50	524.0	104.8	0.0	0.0	0.0	104.8

TABLE E.2-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
10 MAY	S	1830	13.5	--	7.30	545.5	136.4	0.0	0.0	0.0	136.4
	M		--	--	8.50	1170.9	117.1	0.0	0.0	0.0	117.1
	B		--	--	19.10	2829.7	104.8	0.0	0.0	0.0	104.8
10 MAY	S	2030	13.0	--	7.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	10.30	1358.2	388.1	0.0	0.0	0.0	388.1
	B		--	--	14.00	1501.2	500.4	0.0	0.0	0.0	500.4
10 MAY	S	2230	13.0	--	7.30	136.4	136.4	0.0	0.0	0.0	136.4
	M		--	--	20.30	49.2	0.0	0.0	0.0	0.0	0.0
	B		--	--	12.70	236.9	79.0	0.0	0.0	0.0	79.0
11 MAY	S	0030	12.5	--	7.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	10.90	0.0	91.8	0.0	0.0	0.0	91.8
	B		--	--	13.70	146.0	0.0	0.0	0.0	0.0	0.0
11 MAY	S	0230	12.2	--	7.30	136.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	9.90	405.4	0.0	0.0	0.0	0.0	0.0
	B		--	--	12.40	242.5	0.0	0.0	0.0	0.0	0.0
17 MAY	S	1630	15.8	--	6.00	167.3	0.0	0.0	0.0	0.0	0.0
	M		--	--	9.60	104.5	0.0	0.0	0.0	0.0	0.0
	B		--	--	11.60	0.0	0.0	0.0	0.0	0.0	0.0
17 MAY	S	1830	15.0	--	5.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	11.20	89.4	0.0	0.0	0.0	0.0	0.0
	B		--	--	10.80	185.0	0.0	0.0	0.0	0.0	0.0
17 MAY	S	2030	14.5	--	4.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	7.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	7.00	428.0	0.0	0.0	0.0	0.0	0.0
17 MAY	S	2230	15.1	--	11.20	268.1	0.0	0.0	0.0	0.0	0.0
	M		--	--	9.10	1862.1	0.0	0.0	0.0	0.0	0.0
	B		--	--	14.40	2979.8	0.0	0.0	0.0	0.0	0.0

TABLE E. (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
18 MAY	S	0030	15.5	--	6.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	7.20	693.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	10.00	1406.5	301.4	0.0	0.0	0.0	301.4
18 MAY	S	0230	15.5	--	7.40	135.8	0.0	0.0	0.0	0.0	0.0
	M		--	--	7.20	0.0	139.7	0.0	0.0	0.0	139.7
	B		--	--	9.50	105.8	0.0	0.0	0.0	0.0	0.0
18 MAY	S	0430	15.2	--	9.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	13.80	0.0	144.5	0.0	0.0	0.0	144.5
	B		--	--	18.00	0.0	111.3	0.0	0.0	0.0	111.3
18 MAY	S	0630	15.0	--	7.30	410.8	0.0	0.0	0.0	0.0	0.0
	M		--	--	9.60	835.8	0.0	0.0	0.0	0.0	0.0
	B		--	--	12.10	989.0	0.0	0.0	0.0	0.0	0.0
18 MAY	S	0830	14.9	--	8.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	8.00	1383.4	125.8	0.0	0.0	0.0	125.8
	B		--	--	10.30	873.2	388.1	0.0	0.0	0.0	388.1
18 MAY	S	1030	16.2	--	6.20	323.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	8.50	585.4	117.1	0.0	0.0	0.0	117.1
	B		--	--	12.10	1573.6	0.0	0.0	0.0	0.0	0.0
18 MAY	S	1230	16.0	--	6.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	11.20	178.7	0.0	0.0	0.0	0.0	0.0
	B		--	--	14.40	1455.3	277.2	0.0	0.0	0.0	277.2
18 MAY	S	1430	16.0	--	7.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	11.20	89.4	0.0	0.0	0.0	0.0	0.0
	B		--	--	13.30	0.0	0.0	0.0	0.0	0.0	0.0

TABLE E.2-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
18 MAY	S	1830	16.0	--	6.50	617.4	154.3	0.0	0.0	0.0	154.3
	M		--	--	11.30	264.6	0.0	0.0	0.0	0.0	0.0
	B		--	--	11.80	509.3	0.0	0.0	0.0	0.0	0.0
18 MAY	S	2030	--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	M		--	--	8.20	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	8.20	242.5	242.5	0.0	0.0	0.0	242.5
18 MAY	S	2230	16.0	--	10.90	1012.2	0.0	0.0	0.0	0.0	0.0
	M		--	--	11.10	1706.8	0.0	0.0	0.0	0.0	0.0
	B		--	--	14.00	2001.6	214.5	0.0	0.0	0.0	214.5
19 MAY	S	0030	16.8	--	8.00	251.5	0.0	0.0	0.0	0.0	0.0
	M		--	--	10.90	917.7	0.0	0.0	0.0	0.0	0.0
	B		--	--	9.40	4881.2	106.1	0.0	0.0	0.0	106.1
19 MAY	S	0230	--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	M		--	--	8.00	249.7	0.0	0.0	0.0	0.0	0.0
	B		--	--	10.80	553.6	0.0	0.0	0.0	0.0	0.0
19 MAY	S	0430	16.3	--	9.60	0.0	313.4	0.0	0.0	0.0	313.4
	M		--	--	10.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	14.70	67.9	135.8	0.0	0.0	0.0	135.8
19 MAY	S	0630	16.3	--	8.80	113.2	0.0	0.0	0.0	0.0	0.0
	M		--	--	12.10	82.8	82.8	0.0	0.0	0.0	82.8
	B		--	--	13.80	361.2	0.0	0.0	0.0	0.0	0.0
19 MAY	S	0830	--	--	6.20	1616.9	0.0	0.0	0.0	0.0	0.0
	M		--	--	11.80	1443.1	169.8	0.0	0.0	0.0	169.8
	B		--	--	12.70	1342.4	0.0	0.0	0.0	0.0	0.0
19 MAY	S	1030	16.0	--	9.40	318.3	0.0	0.0	0.0	0.0	0.0
	M		--	--	9.10	657.2	0.0	0.0	0.0	0.0	0.0
	B		--	--	9.40	530.6	212.2	0.0	0.0	0.0	212.2

TABLE E. (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
19 MAY	S	1230	16.0	--	7.80	896.9	0.0	0.0	0.0	0.0	0.0
	M		--	--	12.10	1242.3	0.0	0.0	0.0	0.0	0.0
	B		--	--	14.30	2100.4	140.0	0.0	0.0	0.0	140.0
19 MAY	S	1430	16.2	--	8.10	370.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	11.80	1273.3	84.9	0.0	0.0	0.0	84.9
	B		--	--	14.10	3749.3	283.0	0.0	0.0	0.0	283.0
24 MAY	S	1500	--	--	7.10	1403.1	0.0	0.0	0.0	0.0	0.0
	M		--	--	9.40	636.7	212.2	0.0	0.0	0.0	212.2
	B		--	--	13.50	442.9	0.0	0.0	0.0	0.0	0.0
24 MAY	S	1630	--	--	7.70	522.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	6.00	1159.5	0.0	0.0	0.0	0.0	0.0
	B		--	--	8.80	1471.4	0.0	0.0	0.0	0.0	0.0
24 MAY	S	1830	--	--	7.20	138.6	0.0	0.0	0.0	0.0	0.0
	M		--	--	15.30	130.6	0.0	0.0	0.0	0.0	0.0
	B		--	--	10.90	2110.8	275.3	0.0	0.0	0.0	275.3
24 MAY	S	2030	--	--	14.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	15.00	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
24 MAY	S	2230	--	--	7.70	261.2	0.0	0.0	0.0	0.0	0.0
	M		--	--	13.70	1679.5	0.0	0.0	0.0	0.0	0.0
	B		--	--	16.50	2061.6	0.0	0.0	0.0	0.0	0.0
25 MAY	S	0030	--	--	11.20	178.7	0.0	0.0	0.0	0.0	0.0
	M		--	--	9.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	10.30	1358.2	291.1	0.0	0.0	0.0	291.1
25 MAY	S	0230	--	--	4.70	424.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	5.60	178.7	0.0	0.0	0.0	0.0	0.0
	B		--	--	8.00	754.6	0.0	0.0	0.0	0.0	0.0

TABLE E.2-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
25 MAY	S	0430	--	--	6.70	444.8	0.0	0.0	0.0	0.0	0.0
	M		--	--	10.90	1101.3	0.0	0.0	0.0	0.0	0.0
	B		--	--	16.10	743.6	0.0	0.0	0.0	0.0	0.0
25 MAY	S	0630	--	--	10.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	10.00	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	16.80	1191.4	59.6	0.0	0.0	0.0	59.6
25 MAY	S	0835	--	--	6.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	10.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	14.40	0.0	0.0	0.0	0.0	0.0	0.0
25 MAY	S	1030	--	--	8.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	11.20	448.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	17.10	409.8	0.0	0.0	0.0	0.0	0.0
25 MAY	S	1230	--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	M		--	--	6.10	163.2	163.2	0.0	0.0	0.0	163.2
	B		--	--	11.50	173.2	779.6	0.0	0.0	0.0	779.6
25 MAY	S	1430	--	--	8.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	3.60	276.1	0.0	0.0	0.0	0.0	0.0
	B		--	--	4.90	202.1	0.0	0.0	0.0	0.0	0.0
25 MAY	S	1630	--	--	5.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	5.20	776.1	0.0	0.0	0.0	0.0	0.0
	B		--	--	10.60	660.3	94.3	0.0	0.0	0.0	94.3
25 MAY	S	1830	--	--	7.50	133.2	0.0	0.0	0.0	0.0	0.0
	M		--	--	6.50	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	9.60	417.9	0.0	0.0	0.0	0.0	0.0
25 MAY	S	2030	--	--	10.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	9.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	15.20	0.0	0.0	0.0	0.0	0.0	0.0

TABLE E. (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
25 MAY	S	2230	--	--	6.80	295.3	147.6	0.0	0.0	0.0	147.6
	M		--	--	13.50	885.8	0.0	0.0	0.0	0.0	0.0
	B		--	--	12.10	662.6	0.0	0.0	0.0	0.0	0.0
26 MAY	S	0030	--	--	5.90	679.1	0.0	0.0	0.0	0.0	0.0
	M		--	--	5.90	1528.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	11.80	679.1	0.0	0.0	0.0	0.0	0.0
26 MAY	S	0230	--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	M		--	--	5.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	6.20	0.0	161.7	0.0	0.0	0.0	161.7
26 MAY	S	0430	--	--	7.40	541.1	0.0	0.0	0.0	0.0	0.0
	M		--	--	5.10	1381.9	0.0	0.0	0.0	0.0	0.0
	B		--	--	7.20	1656.4	0.0	0.0	0.0	0.0	0.0
26 MAY	S	0630	--	--	4.40	229.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	5.40	738.2	369.1	184.5	0.0	0.0	553.6
	B		--	--	9.20	324.4	0.0	0.0	0.0	0.0	0.0
26 MAY	S	0830	--	--	7.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	9.70	103.5	0.0	0.0	0.0	0.0	0.0
	B		--	--	12.00	0.0	0.0	0.0	0.0	0.0	0.0
26 MAY	S	1030	--	--	8.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	9.50	209.6	0.0	0.0	0.0	0.0	0.0
	B		--	--	13.90	71.8	0.0	0.0	0.0	0.0	0.0
26 MAY	S	1230	--	--	9.00	223.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	9.70	207.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	12.20	328.1	246.1	0.0	0.0	0.0	246.1
26 MAY	S	1430	--	--	11.40	87.7	87.7	0.0	0.0	0.0	87.7
	M		--	--	5.90	169.8	0.0	0.0	0.0	0.0	0.0
	B		--	--	6.80	295.3	0.0	0.0	0.0	0.0	0.0

TABLE E.2-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
31 MAY	S	1500	--	--	4.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	9.60	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	4.30	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	1700	--	--	5.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	8.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	4.90	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	1900	--	--	3.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	B		--	--	3.10	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	2100	--	--	2.40	0.0	424.4	0.0	0.0	0.0	424.4
	M		--	--	3.20	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	4.40	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	2300	--	--	2.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	7.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	3.80	0.0	0.0	0.0	0.0	0.0	0.0
01 JUN	S	0100	--	--	--	--	--	--	--	--	--
	M		--	--	5.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	6.80	0.0	0.0	0.0	0.0	0.0	0.0
01 JUN	S	0300	--	--	6.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	8.20	0.0	121.3	0.0	0.0	0.0	121.3
	B		--	--	6.50	0.0	0.0	0.0	0.0	0.0	0.0

(a) Includes all sampling dates when striped bass were collected at this station (03 May 77 through 31 May 77).
(b) Total density of striped bass life stages collected excluding eggs.
(c) Data excluded from analysis because of extremely high or low sample volume.

Note: Dashes (--) indicate data not available.
S = surface; M = middepth; B = bottom
YSL = yolk-sac larvae; PYSL = post yolk-sac larvae; JUV = juveniles; UID = unidentified life stages

TABLE E.3-1 DENSITIES OF STRIPED BASS COLLECTED AT STATION D1 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
17 MAY	S	1830	24.7	--	47.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	B		--	--	46.80	21.4	21.4	0.0	0.0	0.0	21.4
17 MAY	S	2030	24.9	--	45.10	177.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	B		--	--	42.60	93.9	0.0	0.0	0.0	0.0	0.0
17 MAY	S	2230	24.2	--	34.30	700.5	29.2	0.0	0.0	0.0	29.2
	M		--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	B		--	--	48.40	1322.6	0.0	0.0	0.0	0.0	0.0
18 MAY	S	0030	25.2	--	35.80	279.5	0.0	0.0	0.0	0.0	0.0
	M		--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	B		--	--	42.30	449.6	71.0	0.0	0.0	0.0	71.0
18 MAY	S	0230	24.9	--	57.50	17.4	69.6	0.0	0.0	0.0	69.6
	M		--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	B		--	--	40.00	25.0	50.1	0.0	0.0	0.0	50.1
24 MAY	S	1500	--	--	49.80	120.4	80.3	0.0	0.0	0.0	80.3
	M		--	--	50.30	158.9	0.0	0.0	0.0	0.0	0.0
	B		--	--	58.50	119.7	17.1	0.0	0.0	0.0	17.1
24 MAY	S	1630	--	--	71.30	112.2	70.1	0.0	0.0	0.0	70.1
	M		--	--	43.40	184.4	23.1	0.0	0.0	0.0	23.1
	B		--	--	50.20	59.8	59.8	0.0	0.0	0.0	59.8
24 MAY	S	1830	--	--	--	--	--	--	--	--	--
	M		--	--	46.90	319.7	42.6	0.0	0.0	0.0	42.6
	B		--	--	54.10	166.5	0.0	0.0	0.0	0.0	0.0
24 MAY	S	2030	--	--	44.10	0.0	22.7	0.0	0.0	0.0	22.7
	M		--	--	41.70	0.0	24.0	0.0	0.0	0.0	24.0
	B		--	--	43.80	0.0	22.9	0.0	0.0	0.0	22.9

TABLE E.3-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
24 MAY	S	2230	--	--	53.60	298.6	0.0	0.0	0.0	0.0	0.0
	M		--	--	47.80	167.2	0.0	0.0	0.0	0.0	0.0
	B		--	--	51.90	0.0	19.3	0.0	0.0	0.0	19.3
25 MAY	S	0030	--	--	47.50	252.8	21.1	0.0	0.0	0.0	21.1
	M		--	--	45.30	44.2	44.2	0.0	0.0	0.0	44.2
	B		--	--	50.10	39.9	59.8	0.0	0.0	0.0	59.8
25 MAY	S	0230	--	--	42.90	69.9	23.3	0.0	0.0	0.0	23.3
	M		--	--	42.90	0.0	46.6	23.3	0.0	0.0	69.9
	B		--	--	53.90	0.0	92.7	0.0	0.0	0.0	92.7
31 MAY	S	1500	--	--	51.30	0.0	58.5	156.0	0.0	0.0	214.5
	M		--	--	51.00	0.0	39.2	117.6	0.0	0.0	156.8
	B		--	--	21.10	0.0	94.8	379.1	0.0	0.0	473.9
31 MAY	S	1700	27.5	--	9.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	49.80	0.0	20.1	40.2	0.0	0.0	60.3
	B		--	--	44.60	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	1900	25.0	--	49.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	50.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	52.70	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	2100	--	--	46.40	0.0	43.1	129.3	0.0	0.0	172.4
	M		--	--	52.50	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	40.70	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	2300	26.2	--	38.10	0.0	26.3	210.2	0.0	0.0	236.5
	M		--	--	36.30	0.0	55.0	247.6	0.0	0.0	302.6
	B		--	--	23.10	0.0	0.0	0.0	0.0	0.0	0.0

TABLE E.3-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M)					
						EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
01 JUN	S	0100	--	--	39.40	0.0	50.8	533.4	0.0	0.0	584.2
	M		--	--	42.20	0.0	23.7	71.1	0.0	0.0	94.8
	B		--	--	43.60	0.0	22.9	274.9	0.0	0.0	297.8
01 JUN	S	0300	--	--	48.30	0.0	145.0	248.6	0.0	0.0	393.6
	M		--	--	46.20	0.0	21.7	195.0	0.0	0.0	216.7
	B		--	--	46.90	0.0	21.3	234.8	0.0	0.0	256.1

(a) Includes all sampling dates when striped bass were collected at this station (17 May 77 through 31 May 77).
(b) Total density of striped bass life stages collected excluding eggs.
(c) Data excluded from analysis because of extremely high or low sample volume.

Note: Dashes (--) indicate data not available.
S = surface; M = middepth; B = bottom
YSL = yolk-sac larvae; PYSL = post yolk-sac larvae; JUV = juveniles; UID = unidentified life stages

TABLE E.4-1 DENSITIES OF STRIPED BASS COLLECTED AT STATION D2 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M)					
						EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
03 MAY	S	1430	22.0	--	150.80	46.4	0.0	0.0	0.0	0.0	0.0
03 MAY	S	1630	23.0	--	42.20	0.0	0.0	0.0	0.0	0.0	0.0
03 MAY	S	1830	24.0	--	33.60	0.0	0.0	0.0	0.0	0.0	0.0
03 MAY	S	2030	23.7	--	40.40	0.0	0.0	0.0	0.0	0.0	0.0
03 MAY	S	2230	21.0	--	51.90	115.7	0.0	0.0	0.0	0.0	0.0
04 MAY	S	0030	23.1	--	27.60	72.4	0.0	0.0	0.0	0.0	0.0
04 MAY	S	0230	24.5	--	46.50	0.0	0.0	0.0	0.0	0.0	0.0
10 MAY	S	1430	21.5	--	50.90	39.3	0.0	0.0	0.0	0.0	0.0
10 MAY	S	1630	22.2	--	42.30	307.3	70.9	0.0	0.0	0.0	70.9
10 MAY	S	1830	21.7	--	43.00	674.6	116.3	0.0	0.0	0.0	116.3
10 MAY	S	2030	21.7	--	55.10	345.1	0.0	0.0	0.0	0.0	0.0
10 MAY	S	2230	22.0	--	51.40	77.8	0.0	0.0	0.0	0.0	0.0
11 MAY	S	0030	21.6	--	52.70	0.0	19.0	0.0	0.0	0.0	19.0
11 MAY	S	0230	21.0	--	48.70	0.0	0.0	0.0	0.0	0.0	0.0
17 MAY	S	1600	--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
17 MAY	S	1830	24.7	--	111.10	0.0	0.0	0.0	0.0	0.0	0.0
17 MAY	S	2030	24.9	--	80.20	0.0	0.0	0.0	0.0	0.0	0.0
17 MAY	S	2230	24.2	--	63.80	203.6	15.7	0.0	0.0	0.0	15.7
18 MAY	S	0230	24.9	--	88.50	0.0	0.0	0.0	0.0	0.0	0.0

TABLE E.4-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M)					
						EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
24 MAY	S	1500	27.0	--	77.30	90.6	0.0	0.0	0.0	0.0	0.0
24 MAY	S	1630	27.0	--	71.30	42.1	0.0	0.0	0.0	0.0	0.0
24 MAY	S	1830	27.0	--	103.30	9.7	48.4	0.0	0.0	0.0	48.4
24 MAY	S	2030	--	--	94.10	0.0	0.0	0.0	0.0	0.0	0.0
24 MAY	S	2230	27.5	--	114.70	17.4	0.0	0.0	0.0	0.0	0.0
25 MAY	S	0030	27.0	--	93.70	0.0	0.0	0.0	0.0	0.0	0.0
25 MAY	S	0230	27.0	--	63.00	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	1500	29.9	--	91.70	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	1700	29.5	--	95.70	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	1900	27.5	--	75.70	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	2100	28.2	--	53.30	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	2300	28.8	--	60.70	0.0	0.0	0.0	0.0	0.0	0.0
01 JUN	S	0100	29.0	--	13.10	0.0	0.0	0.0	0.0	0.0	0.0
01 JUN	S	0300	29.0	--	76.60	0.0	52.2	169.7	0.0	0.0	221.9

(a) Includes all sampling dates when striped bass were collected at this station (3 May 77 through 31 May 77).
(b) Total density of striped bass life stages collected excluding eggs.
(c) Data excluded from analysis because of extremely high or low sample volume.

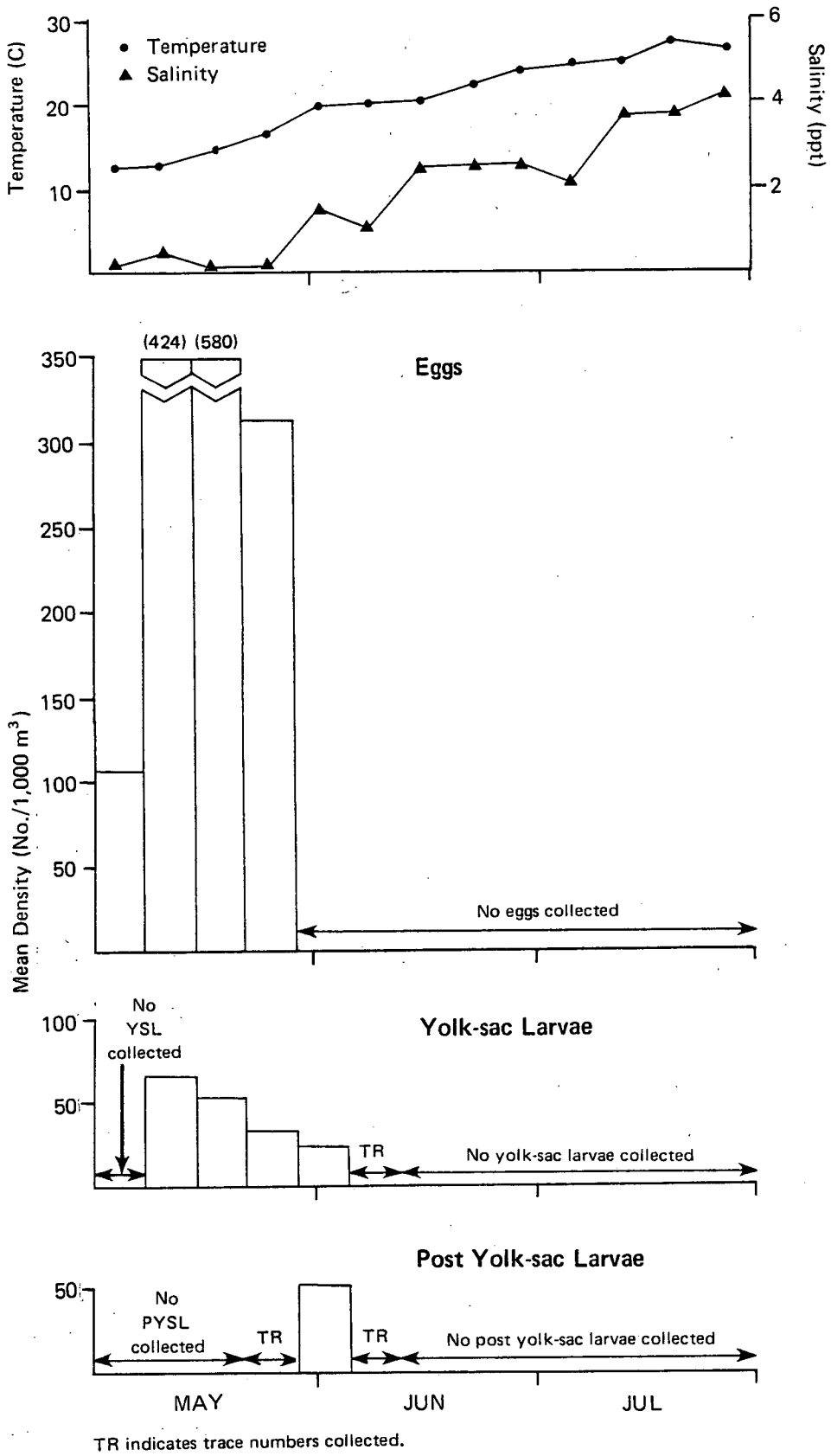
Note: Dashes (--) indicate data not available.
S = surface; M = middepth; B = bottom
YSL = yolk-sac larvae; PYSL = post yolk-sac larvae; JUV = juveniles; UID = unidentified life stages

APPENDIX F

SEASONAL ENTRAINMENT ABUNDANCE OF STRIPED BASS EARLY DEVELOPMENTAL STAGES, INDIAN POINT GENERATING STATION, 1977

APPENDIX F FIGURES

Title	Number
F.1 STRIPED BASS ENTRAINMENT ABUNDANCE (STATIONS COMBINED)	F.1-2
F.2 STRIPED BASS ENTRAINMENT ABUNDANCE AT EACH STATION	F.2-1



TR indicates trace numbers collected.

Figure F.1-2. Mean densities (No./1,000 m^3) of striped bass early developmental stages collected during the entrainment abundance study (all stations, depths, and collection periods combined), Indian Point Generating Station, 1977. (See Appendix A for water quality data.)

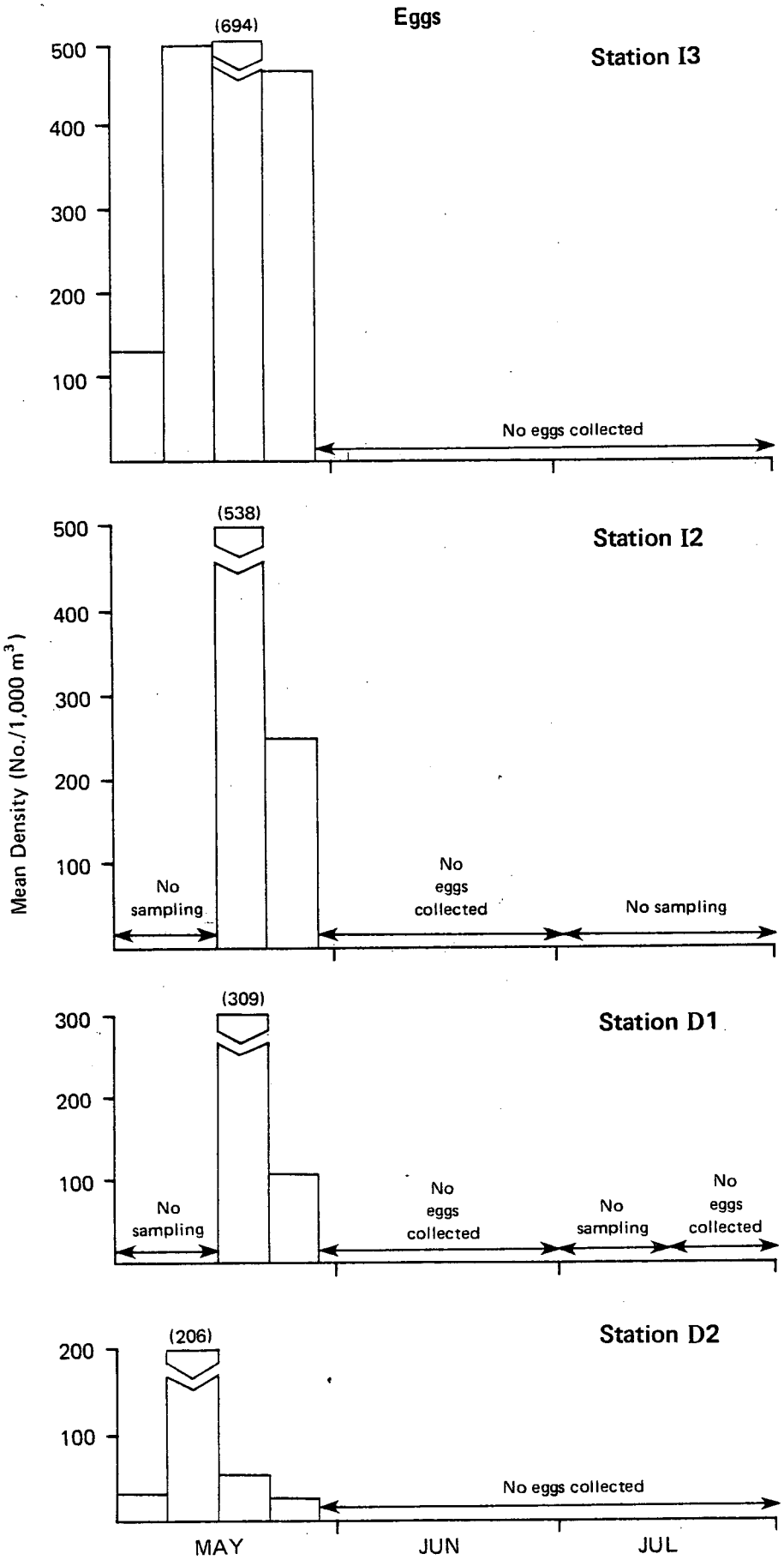


Figure F.2-1. Mean densities (No./1,000 m^3) of striped bass eggs collected at each station during the entrainment abundance study (all depths and collection periods combined), Indian Point Generating Station, 1977.

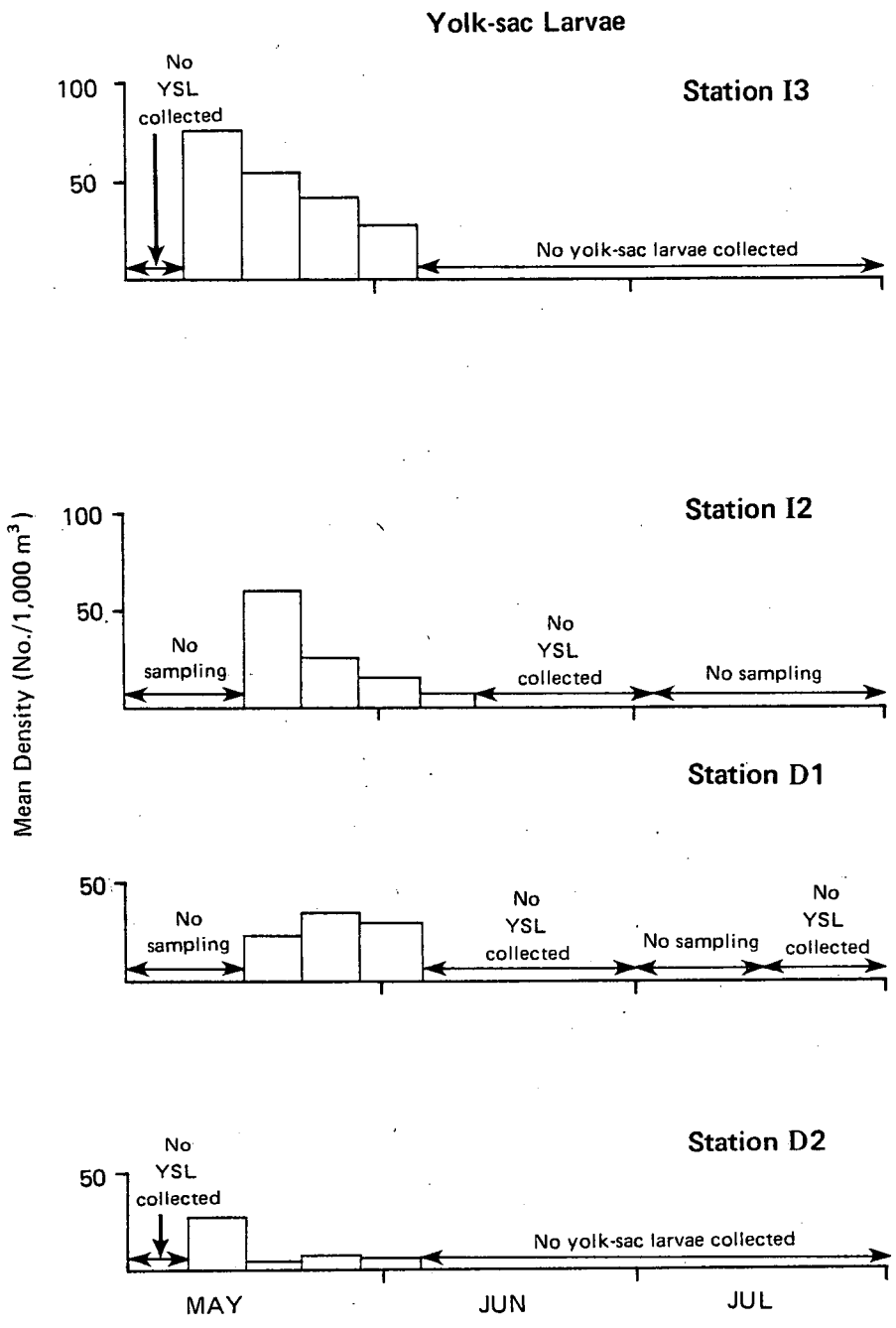


Figure F.2-1. (Cont.) Mean densities (No./1,000 m^3) of striped bass yolk-sac larvae collected at each station during the entrainment abundance study (all depths and collection periods combined), Indian Point Generating Station, 1977.

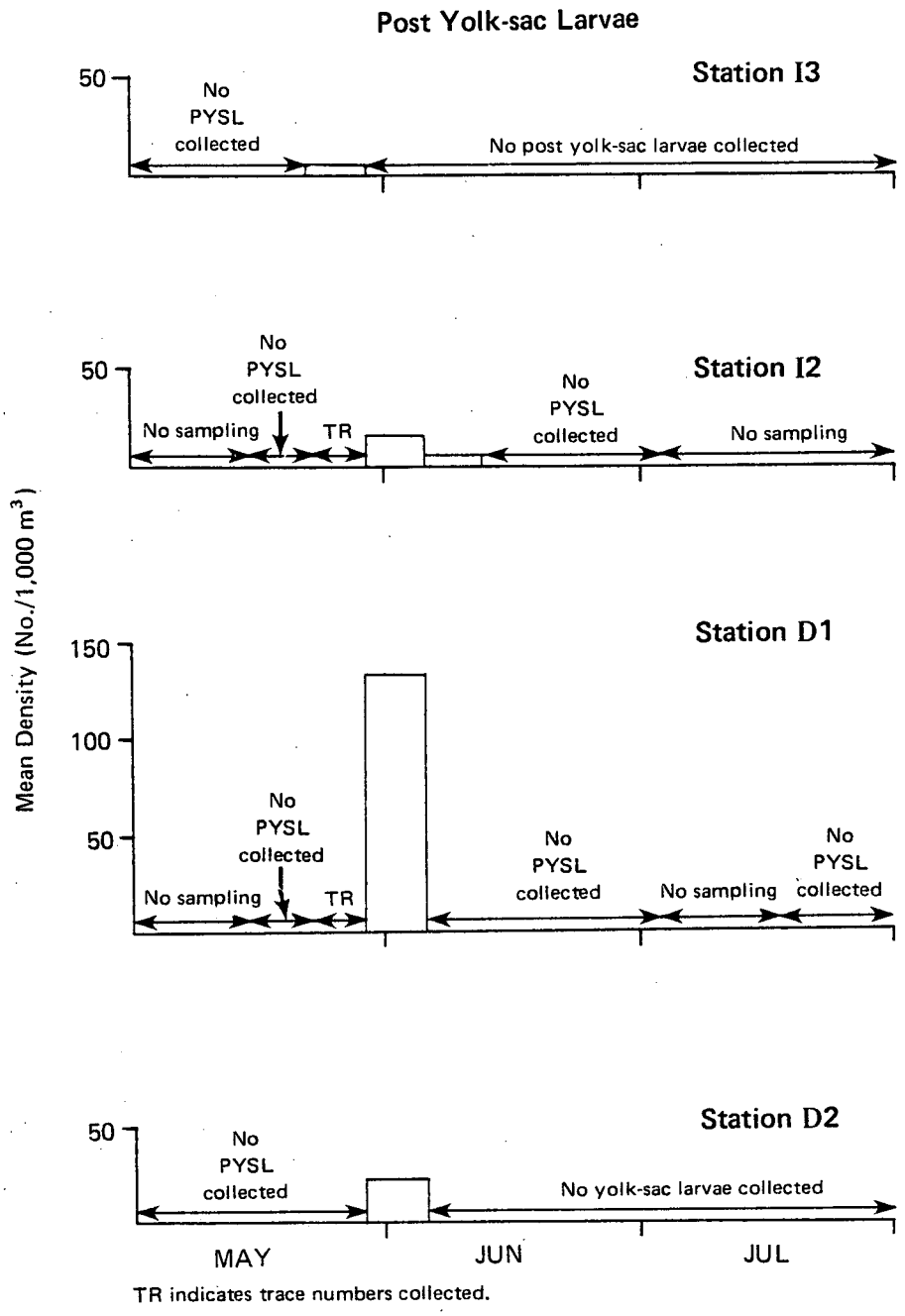


Figure F.2-1. (Cont.) Mean densities (No./1,000 m^3) of striped bass post yolk-sac larvae collected at each station during the entrainment abundance study (all depths and collection periods combined), Indian Point Generating Station, 1977.

APPENDIX G

ENTRAINMENT ABUNDANCE OF SELECTED MACROZOOPLANKTON TAXA, INDIAN POINT GENERATING STATION, 1977

APPENDIX G TABLES

Title	Number
G.1 DENSITIES OF GAMMARUS SPP., NEOMYSIS AMERICANA, MONOCULODES EDWARDSI, AND CHAOBORUS PUNCTIPENNIS COLLECTED AT STATION I2 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977	G.1-1
G.2 DENSITIES OF GAMMARUS SPP., NEOMYSIS AMERICANA, MONOCULODES EDWARDSI, AND CHAOBORUS PUNCTIPENNIS COLLECTED AT STATION I3 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977	G.2-1
G.3 DENSITIES OF GAMMARUS SPP., NEOMYSIS AMERICANA, MONOCULODES EDWARDSI, AND CHAOBORUS PUNCTIPENNIS COLLECTED AT STATION D1 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977	G.3-1
G.4 DENSITIES OF GAMMARUS SPP., NEOMYSIS AMERICANA, MONOCULODES EDWARDSI, AND CHAOBORUS PUNCTIPENNIS COLLECTED AT STATION D2 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977	G.4-1

TABLE G.1-1 DENSITIES OF GAMMARUS SPP., NEOMYSIS AMERICANA, MONOCULODES EDWARDSI, AND CHAOBORUS PUNCTIPENNIS COLLECTED AT STATION I2 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
17 MAY	S	1630	--	--	11.80	254.7	0.0	0.0	169.8
	M		--	--	22.70	264.6	0.0	0.0	0.0
	B		--	--	20.60	630.6	0.0	0.0	339.6
17 MAY	S	1830	--	--	13.20	151.9	0.0	0.0	151.9
	M		--	--	20.10	248.9	0.0	0.0	49.8
	B		--	--	22.50	266.3	0.0	0.0	221.9
17 MAY	S	2030	--	--	--	--	--	--	--
	M		--	--	19.00	578.2	0.0	0.0	2785.9
	B		--	--	21.10	2175.4	0.0	0.0	1655.2
17 MAY	S	2230	--	--	4.40	1584.6	0.0	226.4	2263.7
	M		--	--	18.10	386.5	0.0	0.0	0.0
	B		--	--	18.20	1208.8	0.0	0.0	494.5
18 MAY	S	0030	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	20.10	1145.1	0.0	49.8	796.6
	B		--	--	20.40	2649.7	0.0	0.0	2011.8
18 MAY	S	0230	--	--	12.60	354.1	0.0	79.2	158.3
	M		--	--	23.00	1523.7	0.0	43.5	304.7
	B		--	--	20.30	4527.4	0.0	49.2	885.8
24 MAY	S	1500	--	--	3.20	0.0	0.0	0.0	308.7
	M		--	--	21.20	47.2	0.0	0.0	0.0
	B		--	--	14.10	283.0	0.0	0.0	70.7
24 MAY	S	1630	--	--	3.10	0.0	0.0	0.0	0.0
	M		--	--	12.70	394.8	0.0	0.0	79.0
	B		--	--	23.00	0.0	0.0	0.0	0.0
24 MAY	S	1830	--	--	4.40	0.0	0.0	0.0	0.0
	M		--	--	14.70	0.0	0.0	0.0	0.0
	B		--	--	(a)	(a)	(a)	(a)	(a)

TABLE G.1-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
24 MAY	S	2030	--	--	2.10	485.1	0.0	0.0	1455.3
	M		--	--	13.30	75.5	0.0	0.0	830.0
	B		--	--	25.30	1460.9	0.0	0.0	7186.0
24 MAY	S	2230	--	--	8.50	351.3	0.0	0.0	0.0
	M		--	--	11.20	3842.4	0.0	0.0	625.5
	B		--	--	20.90	3060.8	0.0	95.7	430.4
25 MAY	S	0030	--	--	2.70	3772.9	0.0	0.0	0.0
	M		--	--	14.10	1131.9	0.0	0.0	424.4
	B		--	--	20.90	2534.7	0.0	47.8	765.2
25 MAY	S	0230	--	--	15.30	2024.3	0.0	0.0	0.0
	M		--	--	23.30	14699.9	0.0	0.0	300.9
	B		--	--	12.10	63108.2	0.0	82.8	165.6
31 MAY	S	1500	--	--	5.90	0.0	169.8	0.0	0.0
	M		--	--	--	--	--	--	--
	B		--	--	3.80	3918.0	1567.2	0.0	0.0
31 MAY	S	1700	--	--	5.30	0.0	0.0	0.0	0.0
	M		--	--	3.80	261.2	0.0	0.0	0.0
	B		--	--	5.70	174.1	0.0	0.0	0.0
31 MAY	S	1900	--	--	4.40	0.0	452.7	0.0	0.0
	M		--	--	3.80	0.0	0.0	0.0	522.4
	B		--	--	8.80	226.4	113.2	0.0	0.0
31 MAY	S	2100	--	--	10.50	6982.5	191.3	0.0	95.7
	M		--	--	2.90	16298.8	0.0	0.0	0.0
	B		--	--	6.00	21201.7	1490.7	496.9	828.2
3[illegible]AY	S	2300	--	--	5.[illegible]	2396.9	5992.2	199.7	599.2
[illegible]	M		--	--	2[illegible]	2376.9	2037.4	0.0	[illegible]
	B		--	--	3[illegible]	5556.4	3086.9	308.7	3[illegible]

TABLE G[illegible] (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
01 JUN	S	0100	--	--	7.40	407.5	1358.2	0.0	271.6
	M		--	--	3.20	1234.8	6482.5	0.0	308.7
	B		--	--	5.40	2202.5	4588.6	0.0	1101.3
01 JUN	S	0300	--	--	5.60	536.1	0.0	0.0	0.0
	M		--	--	3.80	1828.4	2612.0	0.0	261.2
	B		--	--	8.10	2839.9	1111.3	123.5	123.5
07 JUN	S	1500	--	--	18.70	106.9	0.0	0.0	0.0
	M		--	--	18.30	109.5	0.0	0.0	0.0
	B		--	--	24.10	0.0	41.4	0.0	0.0
07 JUN	S	1700	--	--	17.40	57.6	0.0	0.0	0.0
	M		--	--	15.60	192.2	128.1	0.0	0.0
	B		--	--	18.80	159.2	53.1	0.0	0.0
07 JUN	S	1900	--	--	22.70	0.0	44.1	0.0	0.0
	M		--	--	16.90	236.2	2125.9	118.1	236.2
	B		--	--	21.20	754.6	6885.5	0.0	141.5
07 JUN	S	2100	--	--	27.50	544.7	399.5	0.0	1380.0
	M		--	--	16.80	5540.2	4467.9	476.6	4765.7
	B		--	--	24.00	8832.7	3791.4	416.6	4958.0
07 JUN	S	2300	--	--	15.20	3560.4	1120.9	197.8	65.9
	M		--	--	17.80	3760.4	1796.0	168.4	392.9
	B		--	--	25.00	6871.1	1597.9	119.8	559.3
08 JUN	S	0100	--	--	17.50	799.0	513.6	0.0	0.0
	M		--	--	16.10	2492.2	1495.3	186.9	186.9
	B		--	--	2.80	35743.0	17871.5	357.4	1429.7
08 JUN	S	0300	--	--	23.60	1400.7	764.0	127.3	42.4
	M		--	--	17.70	2207.1	735.7	0.0	0.0
	B		--	--	22.60	2748.4	1551.5	88.7	44.3

TABLE G.1-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
14 JUN	S	1500	--	--	13.00	231.5	0.0	0.0	0.0
	M		--	--	13.30	150.9	0.0	0.0	0.0
	B		--	--	25.30	118.5	79.0	0.0	0.0
14 JUN	S	1700	--	--	17.10	175.6	58.5	0.0	0.0
	M		--	--	16.50	181.9	0.0	0.0	0.0
	B		--	--	9.90	1216.3	405.4	405.4	0.0
14 JUN	S	1900	--	--	24.10	207.0	82.8	0.0	0.0
	M		--	--	16.80	357.4	536.1	0.0	59.6
	B		--	--	22.60	928.5	530.6	0.0	0.0
14 JUN	S	2100	--	--	26.00	6467.8	5120.3	346.5	38.5
	M		--	--	14.90	8136.0	11699.6	403.4	134.5
	B		--	--	24.00	13540.7	10874.2	708.3	333.3
14 JUN	S	2300	--	--	16.20	864.3	1728.7	0.0	0.0
	M		--	--	10.60	3678.6	11035.7	1037.5	0.0
	B		--	--	18.80	4456.7	4191.4	424.4	0.0
15 JUN	S	0100	--	--	27.10	701.3	1218.0	627.4	73.8
	M		--	--	17.20	1857.4	3830.9	1218.9	58.0
	B		--	--	32.20	3535.1	3721.2	1550.5	155.0
15 JUN	S	0300	--	--	18.40	217.3	597.6	0.0	0.0
	M		--	--	17.00	6344.7	3231.1	881.2	117.5
	B		--	--	25.30	7778.3	4264.2	1145.0	0.0
21 JUN	S	1500	--	--	11.80	0.0	84.9	0.0	169.8
	M		--	--	11.30	88.2	529.2	0.0	88.2
	B		--	--	19.10	1253.8	18179.4	209.0	0.0
21 JUN	S	1700	--	--	19.10	52.2	313.4	0.0	0.0
	M		--	--	7.40	0.0	3259.8	135.8	0.0
	B		--	--	23[illegible]	43.5	696.5	0.0	4[illegible]

TABLE G (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
21 JUN	S	1900	--	--	7.40	0.0	0.0	814.9	0.0
	M		--	--	--	--	--	--	--
	B		--	--	20.30	0.0	5216.4	196.8	393.7
21 JUN	S	2100	--	--	15.50	646.8	1228.9	0.0	388.1
	M		--	--	13.00	231.5	771.7	77.2	77.2
	B		--	--	18.00	1057.6	2170.9	835.0	890.6
21 JUN	S	2300	--	--	11.80	2376.9	4074.7	848.9	424.4
	M		--	--	10.30	6500.1	11059.9	2037.4	776.1
	B		--	--	21.50	5302.7	16931.4	1674.5	465.1
22 JUN	S	0100	--	--	15.00	6791.2	37418.0	2530.0	799.0
	M		--	--	6.80	15944.5	45619.0	2657.4	0.0
	B		--	--	19.70	5777.6	21792.6	3750.3	2736.7
22 JUN	S	0300	--	--	18.00	222.7	2838.9	0.0	0.0
	M		--	--	8.80	3395.6	63157.9	1584.6	226.4
	B		--	--	19.40	1029.0	6842.6	463.0	102.9
28 JUN	S	1500	--	--	16.50	181.9	0.0	60.6	0.0
	M		--	--	11.50	87.1	261.2	0.0	0.0
	B		--	--	23.60	0.0	0.0	339.6	0.0
28 JUN	S	1700	--	--	19.10	52.2	52.2	0.0	52.2
	M		--	--	10.00	99.9	0.0	99.9	0.0
	B		--	--	23.00	0.0	130.6	0.0	0.0
28 JUN	S	1900	--	--	16.10	1246.1	52335.6	996.9	249.2
	M		--	--	6.20	5174.2	561403.5	0.0	2587.1
	B		--	--	33.90	2362.1	118107.3	472.4	1417.3
28 JUN	S	2100	--	--	19.70	1621.8	94468.2	3243.5	0.0
	M		--	--	7.40	13582.3	172767.4	8692.7	543.3
	B		--	--	19.40	14817.1	149817.4	6585.4	0.0

TABLE G.1-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
28 JUN	S	2300	--	--	20.60	970.2	48702.4	970.2	0.0
	M		--	--	7.70	2481.4	24683.3	2350.8	914.2
	B		--	--	23.00	4179.2	78359.7	6965.3	0.0
29 JUN	S	0100	--	--	18.70	909.1	5935.6	855.6	1657.7
	M		--	--	8.20	8003.9	28377.4	4972.1	6306.1
	B		--	--	25.00	10546.3	31479.1	5592.7	5592.7
29 JUN	S	0300	--	--	17.10	585.4	3512.7	1170.9	468.4
	M		--	--	8.80	13582.3	24787.8	6678.0	905.5
	B		--	--	25.00	7310.5	4673.9	4234.5	639.2
16 AUG	S	1430	--	--	--	--	--	--	--
	M		--	--	33.60	0.0	25020.1	0.0	119.1
	B		--	--	32.40	0.0	29634.2	0.0	247.0
16 AUG	S	1630	--	--	12.70	394.8	8291.5	0.0	79.0
	M		--	--	33.60	0.0	11139.9	536.1	238.3
	B		--	--	35.30	141.5	15280.1	3452.2	679.1
16 AUG	S	1830	--	--	13.30	75.5	150.9	75.5	0.0
	M		--	--	24.10	0.0	1325.1	165.6	0.0
	B		--	--	26.90	222.7	2004.0	371.1	148.4
16 AUG	S	2030	--	--	11.20	0.0	68537.2	0.0	2144.6
	M		--	--	30.30	0.0	25450.4	0.0	0.0
	B		--	--	27.60	868.8	41992.3	434.4	434.4
16 AUG	S	2230	--	--	15.20	4211.6	9278.6	6251.6	0.0
	M		--	--	30.90	129.4	33244.4	2845.8	258.7
	B		--	--	32.40	740.9	24571.7	4074.7	0.0
17 AUG	S	0030	--	--	14.70	1629.9	101867.6	4074.7	1629.9
	M		--	--	33.[illegible]	2273.8	37745.6	1303.7	0.0
	B		--	--	34[illegible]	575.5	21409.5	1956.8	6[illegible]

TABLE G. (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
17 AUG	S	0230	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	30.00	2064.0	13249.4	865.5	199.7
	B		--	--	31.50	1523.3	25514.5	6727.7	253.9
12 SEP	S	1345	--	--	14.70	67.9	0.0	0.0	0.0
	M		--	--	32.40	0.0	0.0	0.0	0.0
	B		--	--	20.60	0.0	0.0	0.0	0.0
12 SEP	S	1530	--	--	20.30	0.0	0.0	0.0	0.0
	M		--	--	--	--	--	--	--
	B		--	--	20.60	0.0	0.0	0.0	0.0
12 SEP	S	1730	--	--	13.30	0.0	0.0	0.0	0.0
	M		--	--	26.80	0.0	0.0	0.0	0.0
	B		--	--	29.70	0.0	0.0	0.0	0.0
12 SEP	S	1930	--	--	17.10	58.5	58.5	58.5	0.0
	M		--	--	25.90	733.1	617.4	154.3	192.9
	B		--	--	27.70	397.4	1517.2	108.4	216.7
12 SEP	S	2130	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	17.70	0.0	3622.0	452.7	0.0
	B		--	--	25.00	0.0	5752.5	639.2	639.2
12 SEP	S	2330	--	--	25.00	39.9	2476.8	0.0	39.9
	M		--	--	31.50	0.0	7521.1	95.2	0.0
	B		--	--	30.90	258.7	4656.8	258.7	0.0
13 SEP	S	0130	--	--	27.10	0.0	2362.1	0.0	0.0
	M		--	--	32.70	0.0	2936.7	0.0	0.0
	B		--	--	31.20	1025.1	2050.2	0.0	0.0
25 OCT	S	1130	--	--	19.10	209.0	0.0	0.0	0.0
	M		--	--	--	--	--	--	--
	B		--	--	28.60	595.1	0.0	0.0	0.0

TABLE G.1-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
25 OCT	S	1330	--	--	10.70	186.1	0.0	0.0	0.0
	M		--	--	19.70	101.4	0.0	0.0	0.0
	B		--	--	28.90	589.0	0.0	0.0	0.0
25 OCT	S	1530	--	--	6.70	149.6	0.0	0.0	149.6
	M		--	--	29.40	67.9	0.0	0.0	0.0
	B		--	--	11.80	1016.1	0.0	0.0	0.0
25 OCT	S	1730	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	30.60	555.0	0.0	0.0	0.0
	B		--	--	11.80	1439.5	0.0	84.7	84.7
25 OCT	S	1930	--	--	2.50	9188.1	0.0	0.0	0.0
	M		--	--	31.40	4368.0	0.0	159.4	0.0
	B		--	--	(a)	(a)	(a)	(a)	(a)
25 OCT	S	2130	--	--	4.10	25466.9	0.0	242.5	485.1
	M		--	--	28.30	26032.8	0.0	283.0	0.0
	B		--	--	24.40	59075.0	0.0	654.6	0.0
25 OCT	S	2330	--	--	13.80	52306.5	0.0	289.0	0.0
	M		--	--	30.30	37582.2	0.0	791.2	131.9
	B		--	--	11.80	158517.1	0.0	84.7	0.0
15 NOV	S	1100	--	--	11.50	1393.1	0.0	0.0	0.0
	M		--	--	17.70	20260.3	0.0	226.4	0.0
	B		--	--	26.50	831.0	0.0	75.5	0.0
15 NOV	S	1300	--	--	13.50	9153.3	0.0	73.8	0.0
	M		--	--	19.70	57775.6	0.0	405.4	202.7
	B		--	--	26.50	75239.2	0.0	604.3	0.0
15 NOV	S	1500	--	--	20.00	1947.5	0.0	0.0	0.0
	M		--	--	18.00	11077.4	0.0	0.0	0.0
	B		--	--	27[illegible]	20458.4	0.0	764.0	[illegible]

TABLE G. (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
15 NOV	S	1700	--	--	18.60	24901.0	0.0	431.2	0.0
	M		--	--	22.40	16888.6	0.0	446.8	0.0
	B		--	--	25.30	37588.3	0.0	789.7	0.0
15 NOV	S	1900	--	--	22.10	34227.5	0.0	724.4	181.1
	M		--	--	20.90	28790.7	0.0	1434.8	0.0
	B		--	--	25.00	55288.1	0.0	639.2	0.0
15 NOV	S	2100	--	--	18.80	7905.3	0.0	212.2	0.0
	M		--	--	21.50	15256.9	0.0	651.2	139.5
	B		--	--	27.70	14593.8	0.0	578.0	72.2
15 NOV	S	2300	--	--	15.60	26908.4	0.0	512.5	128.1
	M		--	--	21.20	35087.7	0.0	943.2	0.0
	B		--	--	(a)	(a)	(a)	(a)	(a)
06 DEC	S	1300	--	--	--	--	--	--	--
	M		--	--	17.10	1229.4	0.0	0.0	0.0
	B		--	--	8.50	5737.4	0.0	0.0	0.0
06 DEC	S	1500	--	--	2.70	1509.1	0.0	0.0	0.0
	M		--	--	16.80	1012.7	0.0	0.0	0.0
	B		--	--	12.10	993.8	0.0	0.0	0.0
06 DEC	S	1700	--	--	4.90	3498.5	0.0	0.0	0.0
	M		--	--	12.70	2053.1	0.0	0.0	0.0
	B		--	--	28.60	5495.9	0.0	0.0	0.0
06 DEC	S	1900	--	--	9.70	4424.6	0.0	0.0	0.0
	M		--	--	19.70	9325.2	0.0	101.4	0.0
	B		--	--	35.00	12869.0	0.0	313.9	0.0
06 DEC	S	2100	--	--	8.40	7863.5	0.0	119.1	0.0
	M		--	--	16.80	5242.3	0.0	0.0	0.0
	B		--	--	26.50	9092.6	0.0	37.7	0.0

TABLE G.1-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M)			
						GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
06 DEC	S	2300	--	--	6.20	5497.6	0.0	0.0	0.0
	M		--	--	13.30	12978.7	0.0	0.0	0.0
	B		--	--	32.70	9330.2	0.0	61.2	0.0

(a) Data excluded from analysis because of extremely high or low sample volume.

TABLE G.2-1 DENSITIES OF GAMMARUS SPP., NEOMYSIS AMERICANA, MONOCULODES EDWARDSI, AND CHAOBORUS PUNCTIPENNIS COLLECTED AT STATION I3 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
03 MAY	S	1430	--	--	7.30	0.0	0.0	0.0	0.0
	M		--	--	7.70	0.0	0.0	0.0	0.0
	B		--	--	8.00	3395.6	0.0	0.0	0.0
03 MAY	S	1630	--	--	7.30	409.1	0.0	0.0	136.4
	M		--	--	8.00	125.8	0.0	0.0	0.0
	B		--	--	10.30	2910.5	0.0	0.0	679.1
03 MAY	S	1830	--	--	7.30	0.0	0.0	0.0	0.0
	M		--	--	7.40	0.0	0.0	0.0	271.6
	B		--	--	7.70	1697.8	0.0	0.0	130.6
03 MAY	S	2030	--	--	7.30	136.4	0.0	0.0	136.4
	M		--	--	12.40	323.4	0.0	80.8	1051.0
	B		--	--	10.30	3104.5	0.0	97.0	291.1
03 MAY	S	2230	--	--	7.30	0.0	0.0	0.0	0.0
	M		--	--	3.20	5865.1	0.0	308.7	5556.4
	B		--	--	5.70	6617.0	0.0	174.1	1741.3
04 MAY	S	0030	--	--	7.30	0.0	0.0	0.0	136.4
	M		--	--	4.60	0.0	0.0	219.1	657.2
	B		--	--	5.90	12224.1	0.0	0.0	1867.6
04 MAY	S	0230	--	--	7.30	272.7	0.0	0.0	0.0
	M		--	--	5.60	178.7	0.0	178.7	0.0
	B		--	--	8.20	3274.3	0.0	0.0	242.5
10 MAY	S	1430	--	--	7.30	0.0	0.0	0.0	0.0
	M		--	--	8.00	0.0	0.0	0.0	0.0
	B		--	--	14.40	0.0	0.0	0.0	69.3
10 MAY	S	1630	--	--	7.30	0.0	0.0	0.0	0.0
	M		--	--	14.30	0.0	0.0	0.0	0.0
	B		--	--	9.50	314.4	0.0	0.0	209.6

TABLE G.2-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
10 MAY	S	1830	--	--	7.30	0.0	0.0	0.0	136.4
	M		--	--	8.50	117.1	0.0	0.0	585.4
	B		--	--	19.10	366.8	0.0	0.0	209.6
10 MAY	S	2030	--	--	7.30	409.1	0.0	0.0	136.4
	M		--	--	10.30	97.0	0.0	0.0	194.0
	B		--	--	14.00	1358.2	0.0	0.0	714.9
10 MAY	S	2230	--	--	7.30	136.4	0.0	0.0	136.4
	M		--	--	20.30	49.2	0.0	0.0	147.6
	B		--	--	12.70	947.6	0.0	157.9	79.0
11 MAY	S	0030	--	--	7.30	0.0	0.0	409.1	0.0
	M		--	--	10.90	458.9	0.0	183.5	0.0
	B		--	--	13.70	73.0	0.0	73.0	511.2
11 MAY	S	0230	--	--	7.30	136.4	0.0	0.0	136.4
	M		--	--	9.90	304.1	0.0	0.0	506.8
	B		--	--	12.40	889.3	0.0	0.0	242.5
17 MAY	S	1630	--	--	6.00	334.5	0.0	0.0	0.0
	M		--	--	9.60	313.4	0.0	0.0	5537.4
	B		--	--	11.60	1378.9	0.0	0.0	689.5
17 MAY	S	1830	--	--	5.60	355.6	0.0	0.0	0.0
	M		--	--	11.20	268.1	0.0	0.0	89.4
	B		--	--	10.80	370.1	0.0	0.0	925.2
17 MAY	S	2030	--	--	4.00	0.0	0.0	0.0	0.0
	M		--	--	7.70	30952.1	0.0	0.0	10186.8
	B		--	--	7.00	11413.7	0.0	0.0	4280.1
17 MAY	S	2230	--	--	11.20	357.4	0.0	0.0	0.0
	M		--	--	9.10	1533.5	0.0	109.5	766.7
	B		--	--	14.40	1524.5	0.0	0.0	900.9

TABLE G (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
18 MAY	S	0030	--	--	6.50	463.0	0.0	0.0	308.7
	M		--	--	7.20	554.4	0.0	0.0	831.6
	B		--	--	10.00	1506.9	0.0	0.0	1406.5
18 MAY	S	0230	--	--	--	--	--	--	--
	M		--	--	7.20	0.0	0.0	0.0	0.0
	B		--	--	9.50	1904.1	0.0	105.8	211.6
24 MAY	S	1500	--	--	7.10	140.3	0.0	0.0	0.0
	M		--	--	9.40	318.3	0.0	0.0	0.0
	B		--	--	13.50	1181.1	0.0	0.0	0.0
24 MAY	S	1630	--	--	7.70	0.0	0.0	0.0	0.0
	M		--	--	6.00	165.6	0.0	0.0	0.0
	B		--	--	8.80	113.2	0.0	0.0	0.0
24 MAY	S	1830	--	--	7.20	0.0	0.0	0.0	0.0
	M		--	--	15.30	0.0	0.0	0.0	0.0
	B		--	--	10.90	1193.0	0.0	0.0	642.4
24 MAY	S	2030	--	--	14.10	424.4	0.0	0.0	141.5
	M		--	--	13.00	199.7	0.0	0.0	133.2
	B		--	--	(a)	(a)	(a)	(a)	(a)
24 MAY	S	2230	--	--	7.70	130.6	0.0	0.0	0.0
	M		--	--	13.70	1022.3	0.0	0.0	219.1
	B		--	--	16.50	4668.9	0.0	0.0	909.5
25 MAY	S	0030	--	--	11.20	268.1	0.0	0.0	0.0
	M		--	--	9.70	308.7	0.0	102.9	0.0
	B		--	--	10.30	6985.2	0.0	0.0	485.1
25 MAY	S	0230	--	--	4.70	424.4	0.0	0.0	0.0
	M		--	--	5.60	714.9	0.0	0.0	0.0
	B		--	--	8.00	7294.2	0.0	0.0	251.5

TABLE G.2-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
31 MAY	S	1500	--	--	4.60	219.1	0.0	0.0	0.0
	M		--	--	9.60	0.0	313.4	0.0	0.0
	B		--	--	4.30	234.2	3746.9	0.0	702.5
31 MAY	S	1700	--	--	5.90	339.6	848.9	0.0	0.0
	M		--	--	8.40	119.1	0.0	0.0	0.0
	B		--	--	4.90	411.6	0.0	205.8	0.0
31 MAY	S	1900	--	--	3.20	0.0	0.0	0.0	308.7
	M		--	--	(a)	(a)	(a)	(a)	(a)
	B		--	--	3.10	6791.2	0.0	0.0	6144.4
31 MAY	S	2100	--	--	2.40	10186.8	848.9	424.4	424.4
	M		--	--	3.20	25621.2	1234.8	308.7	1852.1
	B		--	--	4.40	11771.4	452.7	452.7	1131.9
31 MAY	S	2300	--	--	2.90	2716.5	6791.2	1018.7	339.6
	M		--	--	7.40	1901.5	7741.9	135.8	135.8
	B		--	--	3.90	4179.2	7836.0	261.2	0.0
01 JUN	S	0100	--	--	4.70	424.4	5305.6	0.0	0.0
	M		--	--	5.90	2376.9	15789.5	0.0	509.3
	B		--	--	6.80	2509.8	14025.2	0.0	295.3
01 JUN	S	0300	--	--	6.20	323.4	323.4	0.0	161.7
	M		--	--	8.20	1212.7	1576.5	0.0	242.5
	B		--	--	6.50	3549.9	4476.0	0.0	0.0
07 JUN	S	1500	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	(a)	(a)	(a)	(a)	(a)
	B		--	--	(a)	(a)	(a)	(a)	(a)
07 JUN	S	1700	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	(a)	(a)	(a)	(a)	(a)
	B		--	--	(a)	(a)	(a)	(a)	(a)

TABLE G. (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
07 JUN	S	1900	--	--	5.60	178.7	3216.9	0.0	0.0
	M		--	--	8.00	754.6	251.5	0.0	0.0
	B		--	--	11.00	362.2	5432.9	0.0	90.5
07 JUN	S	2100	--	--	6.20	161.7	485.1	0.0	0.0
	M		--	--	8.40	2740.3	12271.8	0.0	2621.2
	B		--	--	15.40	4553.5	9367.1	0.0	2341.8
07 JUN	S	2300	--	--	9.10	876.3	985.8	0.0	109.5
	M		--	--	11.20	5093.4	2948.8	625.5	178.7
	B		--	--	15.80	5077.5	1332.8	126.9	126.9
08 JUN	S	0100	--	--	8.00	2138.0	1257.6	125.8	251.5
	M		--	--	11.00	2282.0	1186.6	0.0	182.6
	B		--	--	12.40	2021.2	161.7	80.8	161.7
08 JUN	S	0300	--	--	--	--	--	--	--
	M		--	--	7.10	0.0	0.0	0.0	0.0
	B		--	--	9.40	9444.0	212.2	424.4	0.0
14 JUN	S	1500	--	--	6.20	161.7	0.0	0.0	0.0
	M		--	--	22.40	0.0	44.7	0.0	0.0
	B		--	--	10.60	1792.1	19336.0	377.3	283.0
14 JUN	S	1700	--	--	8.20	0.0	0.0	0.0	0.0
	M		--	--	10.30	194.0	0.0	97.0	0.0
	B		--	--	14.10	1202.6	70.7	70.7	0.0
14 JUN	S	1900	--	--	4.70	0.0	0.0	0.0	0.0
	M		--	--	6.80	590.5	0.0	0.0	0.0
	B		--	--	10.00	3695.2	599.2	299.6	0.0
14 JUN	S	2100	--	--	7.10	1131.9	2122.2	141.5	0.0
	M		--	--	13.40	12910.7	16418.2	970.2	223.9
	B		--	--	15.00	4261.1	9254.6	399.5	332.9

TABLE G.2-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
14 JUN	S	2300	--	--	6.80	3838.5	30412.6	1181.1	0.0
	M		--	--	10.90	9360.8	18538.1	1560.1	0.0
	B		--	--	10.70	6326.0	5953.9	1023.3	93.0
15 JUN	S	0100	--	--	6.30	157.9	1737.3	157.9	0.0
	M		--	--	12.70	2921.8	9397.1	2053.1	315.9
	B		--	--	11.20	5540.2	4735.9	1161.6	357.4
15 JUN	S	0300	--	--	7.40	6112.1	6383.7	1494.1	0.0
	M		--	--	10.70	4558.5	3442.1	1674.5	93.0
	B		--	--	13.30	1735.5	5206.6	1131.9	75.5
21 JUN	S	1500	--	--	8.20	0.0	0.0	242.5	0.0
	M		--	--	9.90	304.1	16927.3	0.0	2229.9
	B		--	--	13.30	377.3	7319.4	75.5	528.2
21 JUN	S	1700	--	--	12.70	79.0	394.8	0.0	157.9
	M		--	--	12.40	161.7	4123.2	242.5	161.7
	B		--	--	25.50	470.0	7323.8	274.2	3603.2
21 JUN	S	1900	--	--	4.40	452.7	6112.1	0.0	0.0
	M		--	--	7.10	141.5	2263.7	141.5	0.0
	B		--	--	9.30	646.8	29212.8	323.4	5174.2
21 JUN	S	2100	--	--	9.00	332.9	332.9	554.8	221.9
	M		--	--	9.60	1776.2	1985.1	835.8	209.0
	B		--	--	11.20	1866.7	266.7	888.9	88.9
21 JUN	S	2300	--	--	5.20	194.0	3104.5	0.0	388.1
	M		--	--	8.10	1111.3	4568.6	617.4	493.9
	B		--	--	8.20	1334.0	848.9	606.4	363.8
22 JUN	S	0100	--	--	4.10	7276.3	19403.3	1455.3	242.5
	M		--	--	4.40	4980.2	28296.5	3622.0	679.1
	B		--	--	8.20	3638.1	13339.8	3395.6	0.0

TABLE G. (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
22 JUN	S	0300	--	--	6.30	2211.1	16425.2	2842.8	0.0
	M		--	--	7.40	950.8	26349.7	1765.7	271.6
	B		--	--	10.60	1226.2	64610.4	1037.5	0.0
28 JUN	S	1500	--	--	8.00	125.8	0.0	125.8	0.0
	M		--	--	14.10	141.5	778.2	565.9	0.0
	B		--	--	12.70	631.7	2369.0	1105.5	0.0
28 JUN	S	1700	--	--	5.90	169.8	0.0	0.0	0.0
	M		--	--	8.50	0.0	117.1	0.0	0.0
	B		--	--	12.80	156.1	1170.9	156.1	0.0
28 JUN	S	1900	--	--	10.60	377.3	55461.2	943.2	188.6
	M		--	--	14.00	5718.9	251630.8	8006.4	1143.8
	B		--	--	15.30	4962.8	57202.6	3395.6	261.2
28 JUN	S	2100	--	--	10.50	5739.0	86085.3	2678.2	382.6
	M		--	--	12.50	9587.5	82772.4	3515.4	0.0
	B		--	--	15.60	4869.1	56123.3	3844.1	256.3
28 JUN	S	2300	--	--	7.70	1296.0	80353.6	1814.4	259.2
	M		--	--	11.20	4289.2	288356.7	3842.4	0.0
	B		--	--	10.40	6945.5	231517.2	9453.6	0.0
29 JUN	S	0100	--	--	7.50	2130.6	79363.5	5725.9	1597.9
	M		--	--	--	--	--	--	--
	B		--	--	13.50	3764.7	9005.7	2436.0	1993.1
29 JUN	S	0300	--	--	10.70	2232.7	21303.8	3721.2	279.1
	M		--	--	12.80	2497.9	31223.8	1561.2	780.6
	B		--	--	11.60	3266.6	9198.2	3352.6	687.7
05 JUL	S	1500	--	--	9.40	212.2	18781.8	106.1	212.2
	M		--	--	7.60	1974.2	51855.1	1711.0	658.1
	B		--	--	10.80	2675.9	17716.1	2491.3	0.0

TABLE G.2-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
05 JUL	S	1700	--	--	11.20	0.0	35385.6	268.1	0.0
	M		--	--	14.00	714.9	61335.0	3431.3	0.0
	B		--	--	14.00	4003.2	170422.7	9150.2	0.0
05 JUL	S	1900	--	--	10.20	196.8	20275.1	98.4	0.0
	M		--	--	10.00	0.0	33856.0	499.4	99.9
	B		--	--	13.30	3923.8	92359.9	6036.6	0.0
05 JUL	S	2100	--	--	10.30	2612.0	8416.4	4450.1	0.0
	M		--	--	13.00	6069.0	7682.3	3764.3	230.5
	B		--	--	14.20	8047.7	5435.8	4376.8	141.2
05 JUL	S	2300	--	--	10.60	1697.8	71967.6	3584.2	377.3
	M		--	--	11.80	3395.6	88030.6	6112.1	339.6
	B		--	--	12.70	6633.2	46037.8	6238.4	157.9
06 JUL	S	0100	--	--	10.30	485.1	5918.0	1649.3	2522.4
	M		--	--	(a)	(a)	(a)	(a)	(a)
	B		--	--	9.70	47332.4	76555.0	6585.4	0.0
06 JUL	S	0300	--	--	7.80	6663.0	54585.6	7688.1	0.0
	M		--	--	7.50	19707.7	94810.1	7989.6	0.0
	B		--	--	8.00	15468.8	34962.0	7042.7	377.3
12 JUL	S	1500	--	--	8.00	251.5	0.0	251.5	0.0
	M		--	--	14.30	70.0	0.0	70.0	0.0
	B		--	--	16.70	298.9	12494.3	5320.5	1913.0
12 JUL	S	1700	--	--	10.60	0.0	188.6	94.3	0.0
	M		--	--	7.40	0.0	407.5	135.8	0.0
	B		--	--	12.50	79.9	319.6	79.9	319.6
12 JUL	S	1900	--	--	8.80	0.0	3622.0	0.0	679.1
	M		--	--	8.50	0.0	9484.2	0.0	702.5
	B		--	--	11.50	174.1	2612.0	522.4	0.0

TABLE G[illegible] (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
12 JUL	S	2100	--	--	11.30	352.8	7320.4	1675.7	88.2
	M		--	--	17.20	2562.7	63135.8	8387.0	233.0
	B		--	--	20.00	8888.4	29062.2	14880.7	499.4
12 JUL	S	2300	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	18.40	271.6	14994.9	1684.2	380.3
	B		--	--	15.70	1274.1	24973.2	4332.1	1019.3
13 JUL	S	0100	--	--	9.90	202.7	7703.4	3142.2	405.4
	M		--	--	13.50	369.1	17716.1	6717.4	221.5
	B		--	--	14.30	1680.3	14982.6	10361.8	70.0
13 JUL	S	0300	--	--	7.70	130.6	10839.8	4571.0	522.4
	M		--	--	8.80	452.7	9168.1	3848.3	0.0
	B		--	--	9.00	3005.9	9908.4	8349.8	111.3
19 JUL	S	1500	--	--	6.60	0.0	3622.0	0.0	0.0
	M		--	--	8.10	0.0	87420.9	987.8	0.0
	B		--	--	7.50	1065.3	55394.7	1597.9	266.3
19 JUL	S	1700	--	--	8.50	0.0	3044.3	117.1	117.1
	M		--	--	8.80	0.0	10299.9	113.2	0.0
	B		--	--	12.10	662.6	198766.0	15901.3	0.0
19 JUL	S	1900	--	--	6.90	144.5	1878.4	433.5	433.5
	M		--	--	9.10	109.5	6243.5	2081.2	5805.4
	B		--	--	12.50	4314.4	26685.3	4314.4	1438.1
19 JUL	S	2100	--	--	6.90	2889.9	3178.8	0.0	0.0
	M		--	--	11.50	5136.9	15323.7	2524.9	261.2
	B		--	--	15.60	6727.1	7175.6	1986.1	256.3
19 JUL	S	2300	--	--	7.30	0.0	156635.1	1643.0	7119.8
	M		--	--	10.50	10330.2	99858.9	14156.2	3826.0
	B		--	--	12.10	21201.7	132510.7	6625.5	1987.7

TABLE G.2-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
20 JUL	S	0100	--	--	7.20	3326.3	204012.3	4435.1	4435.1
	M		--	--	(A)	(A)	(A)	(A)	(A)
	B		--	--	8.80	6338.4	100962.1	5885.7	7243.9
20 JUL	S	0300	--	--	6.50	2160.8	96311.2	11421.5	2160.8
	M		--	--	8.50	4215.2	118962.6	2810.1	2810.1
	B		--	--	12.40	1455.3	38483.3	4365.8	1131.9
26 JUL	S	1500	--	--	10.90	275.3	91.8	0.0	0.0
	M		--	--	23.30	0.0	300.9	0.0	0.0
	B		--	--	15.30	65.3	979.5	261.2	65.3
26 JUL	S	1700	--	--	6.20	0.0	5012.5	0.0	0.0
	M		--	--	--	--	--	--	--
	B		--	--	12.80	2185.7	65569.9	1873.4	9991.6
26 JUL	S	1900	--	--	6.80	147.6	7381.7	885.8	147.6
	M		--	--	8.50	1405.1	121304.4	6088.6	1873.4
	B		--	--	10.60	0.0	151669.5	5282.0	1509.1
26 JUL	S	2100	--	--	9.40	2334.5	39898.1	1485.6	848.9
	M		--	--	11.30	5644.6	143937.6	5644.6	0.0
	B		--	--	12.70	3474.6	79283.0	5369.8	789.7
26 JUL	S	2300	--	--	8.50	936.7	55266.1	5386.1	234.2
	M		--	--	11.00	362.2	65919.6	5795.1	362.2
	B		--	--	13.40	4179.2	126569.5	14328.6	0.0
27 JUL	S	0100	--	--	8.80	452.7	45274.5	3622.0	4527.4
	M		--	--	10.00	4594.0	38949.4	13182.9	3195.8
	B		--	--	13.50	1771.6	11146.4	5388.6	738.2
27 JUL	S	0300	--	--	9.10	1095.4	51919.6	4162.3	1314.4
	M		--	--	11.50	3830.9	31692.1	3482.7	1393.1
	B		--	--	12.70	4106.3	16504.1	4027.3	710.7

TABLE G. (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
16 AUG	S	1430	--	--	7.40	135.8	10186.8	135.8	0.0
	M		--	--	--	--	--	--	--
	B		--	--	9.90	1419.1	51085.8	2432.7	0.0
16 AUG	S	1630	--	--	9.40	0.0	2122.2	106.1	0.0
	M		--	--	12.10	0.0	5631.7	414.1	0.0
	B		--	--	13.00	3472.8	22920.2	10495.4	540.2
16 AUG	S	1830	--	--	9.40	106.1	2865.0	0.0	0.0
	M		--	--	9.50	0.0	10967.1	843.6	0.0
	B		--	--	11.20	714.9	893.6	12688.8	178.7
16 AUG	S	2030	--	--	7.10	565.9	59422.8	565.9	0.0
	M		--	--	12.40	485.1	30883.7	646.8	0.0
	B		--	--	14.00	5575.9	13582.3	1286.7	143.0
16 AUG	S	2230	--	--	6.80	4133.8	142319.3	11220.2	590.5
	M		--	--	5.90	15449.9	22241.1	18166.4	169.8
	B		--	--	8.00	7923.0	22008.4	10061.0	0.0
17 AUG	S	0030	--	--	7.70	1697.8	23116.1	9403.2	261.2
	M		--	--	13.00	2623.9	29171.2	7871.6	308.7
	B		--	--	13.30	4074.7	30183.0	8300.3	150.9
17 AUG	S	0230	--	--	8.10	1234.8	6914.6	2346.0	0.0
	M		--	--	8.20	2546.7	15643.9	3880.7	0.0
	B		--	--	11.20	1519.1	18854.4	5361.5	0.0
12 SEP	S	1345	--	--	5.00	0.0	0.0	0.0	0.0
	M		--	--	6.70	0.0	0.0	0.0	0.0
	B		--	--	7.90	0.0	0.0	0.0	0.0
12 SEP	S	1530	--	--	5.90	0.0	1358.2	0.0	0.0
	M		--	--	6.70	0.0	0.0	0.0	0.0
	B		--	--	6.20	323.4	1293.6	0.0	0.0

TABLE G.2-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
12 SEP	S	1730	--	--	6.50	0.0	0.0	0.0	0.0
	M		--	--	9.60	104.5	0.0	0.0	0.0
	B		--	--	12.40	80.8	161.7	161.7	0.0
12 SEP	S	1930	--	--	3.20	0.0	308.7	0.0	0.0
	M		--	--	8.10	0.0	247.0	0.0	0.0
	B		--	--	7.20	277.2	1386.0	277.2	138.6
12 SEP	S	2130	--	--	7.80	0.0	0.0	0.0	0.0
	M		--	--	9.10	0.0	7010.2	1752.6	0.0
	B		--	--	10.00	3195.8	1597.9	0.0	0.0
12 SEP	S	2330	--	--	3.20	0.0	2469.5	0.0	0.0
	M		--	--	9.10	0.0	3067.0	0.0	0.0
	B		--	--	10.30	679.1	5530.0	97.0	0.0
13 SEP	S	0130	--	--	8.40	0.0	1191.4	0.0	0.0
	M		--	--	10.60	0.0	7545.7	0.0	0.0
	B		--	--	9.20	3482.7	6965.3	0.0	0.0

(a) Data excluded from analysis because of extremely high or low sample volume.

TABLE G.3-1 DENSITIES OF GAMMARUS SPP., NEOMYSIS AMERICANA, MONOCULODES EDWARDSI, AND CHAOBORUS PUNCTIPENNIS COLLECTED AT STATION D1 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
17 MAY	S	1830	--	--	34.80	1151.0	0.0	0.0	920.8
	M		--	--	43.10	1251.6	0.0	23.2	903.9
	B		--	--	41.20	1746.3	0.0	24.3	679.1
17 MAY	S	2030	--	--	38.60	1866.3	0.0	0.0	1114.6
	M		--	--	41.80	4663.0	0.0	23.9	2176.0
	B		--	--	42.70	4051.3	0.0	0.0	1615.8
17 MAY	S	2230	--	--	35.90	6763.3	0.0	111.3	1447.3
	M		--	--	43.00	5837.6	0.0	23.3	2302.5
	B		--	--	48.60	5803.4	0.0	41.2	1996.2
18 MAY	S	0030	--	--	34.80	2043.1	0.0	0.0	1669.0
	M		--	--	36.80	4590.8	0.0	0.0	2526.3
	B		--	--	35.90	3506.9	0.0	0.0	2004.0
18 MAY	S	0230	--	--	35.80	3437.5	0.0	83.8	419.2
	M		--	--	39.50	5017.4	0.0	50.7	456.1
	B		--	--	--	--	--	--	--
24 MAY	S	1500	--	--	54.30	294.5	0.0	0.0	312.9
	M		--	--	7.80	2572.4	0.0	0.0	1929.3
	B		--	--	7.60	4211.6	0.0	0.0	1974.2
24 MAY	S	1630	--	--	7.50	2254.9	0.0	0.0	928.5
	M		--	--	7.20	2633.3	0.0	0.0	1247.4
	B		--	--	6.60	2893.1	0.0	0.0	1065.9
24 MAY	S	1830	--	--	7.40	4058.5	0.0	0.0	2029.2
	M		--	--	7.70	4813.7	0.0	0.0	2992.3
	B		--	--	8.60	6279.5	0.0	0.0	1976.9
24 MAY	S	2030	--	--	7.50	15507.4	0.0	133.7	16576.9
	M		--	--	7.20	22499.2	0.0	0.0	11870.7
	B		--	--	7.20	36321.6	0.0	0.0	13220.5

TABLE G.3-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
24 MAY	S	2230	--	--	7.60	24971.4	0.0	0.0	3699.5
	M		--	--	7.60	40536.5	0.0	131.6	4080.0
	B		--	--	7.90	39277.3	0.0	0.0	4561.2
25 MAY	S	0030	--	--	--	--	--	--	--
	M		--	--	7.50	21071.4	0.0	0.0	939.5
	B		--	--	7.50	22057.9	0.0	0.0	3743.2
25 MAY	S	0230	--	--	7.50	61653.2	0.0	0.0	799.0
	M		--	--	--	--	--	--	--
	B		--	--	--	--	--	--	--
31 MAY	S	1500	--	--	55.40	433.5	1246.3	0.0	54.2
	M		--	--	54.20	701.3	2989.6	18.5	203.0
	B		--	--	51.20	741.6	1424.6	19.5	253.7
31 MAY	S	1700	--	--	50.10	319.6	99.9	0.0	20.0
	M		--	--	46.20	389.3	86.5	0.0	324.4
	B		--	--	48.90	838.7	40.9	0.0	102.3
31 MAY	S	1900	--	--	47.40	1075.6	84.4	0.0	674.9
	M		--	--	50.10	1078.6	39.9	0.0	459.4
	B		--	--	53.00	1943.0	75.5	0.0	264.1
31 MAY	S	2100	--	--	44.20	18019.2	905.5	316.9	996.0
	M		--	--	45.40	14111.5	88.2	264.6	441.0
	B		--	--	--	--	--	--	--
31 MAY	S	2300	--	--	32.40	2994.3	10773.3	463.0	123.5
	M		--	--	29.40	3837.0	9100.2	441.4	169.8
	B		--	--	37.40	2941.1	9304.4	213.9	213.9
01 JUN	S	0100	--	--	39.50	2382.0	10110.7	25.3	1115.0
	M		--	--	44.60	3541.3	8046.3	358.6	739.6
	B		--	--	45.40	2778.2	4564.2	0.0	330.7

TABLE G[illegible] (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
01 JUN	S	0300	--	--	46.20	2011.4	3590.2	86.5	346.0
	M		--	--	45.10	2507.9	2130.6	155.4	443.9
	B		--	--	46.50	902.6	967.1	0.0	300.9
07 JUN	S	1500	--	--	45.50	2022.0	725.3	153.8	197.8
	M		--	--	51.20	2029.5	702.5	19.5	253.7
	B		--	--	51.80	1755.7	482.3	57.9	231.5
07 JUN	S	1700	--	--	50.10	938.8	918.8	39.9	99.9
	M		--	--	62.40	1281.4	672.7	32.0	80.1
	B		--	--	57.30	1588.7	488.8	34.9	17.5
07 JUN	S	1900	--	--	48.20	684.1	82.9	3855.8	82.9
	M		--	--	60.40	2153.3	10402.1	33.1	99.4
	B		--	--	64.20	2289.7	6059.1	62.3	155.8
07 JUN	S	2100	--	--	52.40	2689.8	4578.3	152.6	1240.0
	M		--	--	57.40	5990.2	4423.0	139.3	2263.7
	B		--	--	63.90	6885.1	2738.4	140.8	985.8
07 JUN	S	2300	--	--	81.00	2652.8	1678.1	271.4	394.8
	M		--	--	84.50	4708.9	1348.8	236.6	284.0
	B		--	--	92.80	2069.7	301.8	75.5	32.3
08 JUN	S	0100	--	--	38.50	2570.1	960.5	51.9	181.7
	M		--	--	--	--	--	--	--
	B		--	--	--	--	--	--	--
08 JUN	S	0300	--	--	43.90	3646.3	1025.5	341.8	68.4
	M		--	--	45.60	8762.8	1971.6	1051.5	43.8
	B		--	--	72.20	4157.9	609.8	124.7	41.6
14 JUN	S	1500	--	--	44.40	382.8	337.8	90.1	22.5
	M		--	--	53.30	844.2	1050.6	300.2	0.0
	B		--	--	55.70	1078.0	1024.1	71.9	53.9

TABLE G.3-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
14 JUN	S	1700	--	--	69.20	1502.7	158.9	173.4	0.0
	M		--	--	78.00	1127.6	346.0	230.6	0.0
	B		--	--	80.70	842.7	198.3	86.7	0.0
14 JUN	S	1900	--	--	32.70	1223.6	397.7	214.1	0.0
	M		--	--	46.20	3136.1	908.4	259.5	194.7
	B		--	--	54.50	2826.6	954.4	458.9	18.4
14 JUN	S	2100	--	--	56.50	36785.5	31692.1	1697.8	848.9
	M		--	--	--	--	--	--	--
	B		--	--	83.90	8864.3	5147.0	285.9	95.3
14 JUN	S	2300	--	--	55.50	10459.1	16301.7	1226.2	0.0
	M		--	--	63.30	8417.9	17593.9	426.4	79.0
	B		--	--	70.70	5376.3	4103.0	424.4	0.0
15 JUN	S	0100	--	--	47.40	3058.1	4365.8	970.2	21.1
	M		--	--	62.30	4238.5	6486.1	1541.3	96.3
	B		--	--	69.90	3860.2	5118.4	1544.1	171.6
15 JUN	S	0300	--	--	53.00	2716.5	8149.4	905.5	37.7
	M		--	--	60.80	4341.1	6511.6	1052.4	65.8
	B		--	--	59.50	6085.2	2958.5	907.7	0.0
21 JUN	S	1500	--	--	--	--	--	--	--
	M		--	--	59.50	941.4	19297.7	537.9	1210.3
	B		--	--	78.90	1115.0	9984.0	304.1	101.4
21 JUN	S	1700	--	--	45.50	197.8	571.4	44.0	87.9
	M		--	--	52.70	170.7	550.1	113.8	75.9
	B		--	--	57.10	507.6	560.1	87.5	17.5
21 JUN	S	1900	--	--	68.00	823.2	21402.5	352.8	235.2
	M		--	--	74.40	537.9	31629.4	537.9	430.3
	B		--	--	66.60	2524.2	31131.2	2524.2	2644.4

TABLE G[illegible] (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
21 JUN	S	2100	--	--	46.50	1934.2	1246.5	408.3	279.4
	M		--	--	--	--	--	--	--
	B		--	--	51.60	3583.5	814.0	753.9	155.0
21 JUN	S	2300	--	--	75.70	2589.6	7848.2	792.7	52.8
	M		--	--	75.10	3568.7	9534.3	479.4	53.3
	B		--	--	63.60	2562.4	2751.1	754.6	78.6
22 JUN	S	0100	--	--	54.80	6718.1	63384.3	4965.6	292.1
	M		--	--	60.70	5934.0	38637.1	4483.5	923.1
	B		--	--	75.50	5295.3	38337.7	1694.5	211.8
22 JUN	S	0300	--	--	44.80	1876.5	36100.4	1161.6	0.0
	M		--	--	46.10	4339.4	47907.1	1041.5	347.2
	B		--	--	62.30	1541.3	19779.5	1220.2	64.2
28 JUN	S	1500	--	--	80.50	322.8	819.4	310.4	0.0
	M		--	--	74.40	524.5	995.1	484.1	13.4
	B		--	--	71.70	306.8	1255.0	767.0	13.9
28 JUN	S	1700	--	--	79.80	250.6	75.2	0.0	0.0
	M		--	--	54.90	564.4	455.2	309.5	0.0
	B		--	--	53.60	391.8	261.2	186.6	0.0
28 JUN	S	1900	--	--	77.70	1440.6	77378.2	2057.9	411.6
	M		--	--	83.30	3071.6	0.0	3455.6	767.9
	B		--	--	--	--	--	--	--
28 JUN	S	2100	--	--	43.60	6607.6	166659.0	8810.2	2202.5
	M		--	--	50.40	8896.0	118190.2	0.0	635.4
	B		--	--	--	--	--	--	--
28 JUN	S	2300	--	--	46.20	1384.2	122500.6	6228.8	692.1
	M		--	--	46.50	8940.3	147170.7	6189.4	687.7
	B		--	--	56.00	5432.9	107800.9	4575.1	285.9

TABLE G.3-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
29 JUN	S	0100	--	--	37.30	1717.9	15568.7	3489.5	2308.5
	M		--	--	39.80	5131.1	18109.8	3823.2	2615.9
	B		--	--	39.80	2414.6	12928.4	4426.8	2012.2
29 JUN	S	0300	--	--	61.30	2871.8	8680.7	2904.4	195.8
	M		--	--	60.70	7005.5	11274.7	3494.5	461.5
	B		--	--	84.40	3460.8	5973.4	2607.4	189.6
12 JUL	S	1500	--	--	--	--	--	--	--
	M		--	--	6.80	147.6	738.2	147.6	0.0
	B		--	--	7.50	932.1	6658.0	0.0	0.0
12 JUL	S	1700	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	6.90	3178.8	289.0	578.0	0.0
	B		--	--	6.50	308.7	926.1	0.0	0.0
12 JUL	S	1900	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	7.10	2688.2	283.0	283.0	0.0
	B		--	--	6.20	480.5	1441.5	0.0	0.0
12 JUL	S	2100	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	4.70	23640.2	85964.2	3008.7	0.0
	B		--	--	7.40	10050.9	36129.0	3531.4	1086.6
12 JUL	S	2300	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	7.40	11001.7	26893.0	4482.2	1222.4
	B		--	--	7.40	4346.3	22954.2	3938.9	1222.4
13 JUL	S	0100	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	6.50	771.7	3241.2	4784.7	771.7
	B		--	--	7.20	1247.4	6791.2	3742.1	138.6
13 JUL	S	0300	--	--	4.10	727.6	7761.3	3395.6	0.0
	M		--	--	5.70	1044.8	12015.2	6268.8	1218.9
	B		--	--	4.40	1584.6	5206.6	5659.3	452.7

TABLE G[illegible] (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
19 JUL	S	1500	--	--	2.70	754.6	5659.3	0.0	377.3
	M		--	--	8.20	485.1	8367.7	121.3	242.5
	B		--	--	3.90	0.0	31069.6	169.8	2886.2
19 JUL	S	1700	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	11.50	261.2	2089.6	0.0	0.0
	B		--	--	9.10	219.1	14787.2	328.6	219.1
19 JUL	S	1900	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	8.40	714.9	13463.2	357.4	834.0
	B		--	--	9.00	779.3	24492.7	1781.3	1002.0
19 JUL	S	2100	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	23.20	1206.6	1896.0	818.7	215.5
	B		--	--	10.50	4208.6	4495.6	2104.3	382.6
19 JUL	S	2300	--	--	7.20	1524.5	13305.2	970.2	2078.9
	M		--	--	7.20	6375.4	90364.2	2494.7	10533.2
	B		--	--	7.10	3678.6	60554.6	3395.6	6508.2
20 JUL	S	0100	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	4.40	5885.7	16525.2	1811.0	7243.9
	B		--	--	5.60	6076.3	49146.6	3216.9	8399.6
20 JUL	S	0300	--	--	(a)	(a)	(a)	(a)	(a)
	M		--	--	4.90	1234.8	151463.7	5350.6	10701.2
	B		--	--	5.00	2796.4	53730.2	2197.1	2596.6
26 JUL	S	1500	--	--	13.30	0.0	0.0	75.0	0.0
	M		--	--	16.40	365.1	1217.1	0.0	0.0
	B		--	--	12.10	165.6	6045.8	82.8	0.0
26 JUL	S	1700	--	--	13.70	0.0	292.1	0.0	146.0
	M		--	--	15.80	444.3	1459.8	190.4	126.9
	B		--	--	13.80	289.0	9319.8	72.2	1011.5

TABLE G.3-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
26 JUL	S	1900	--	--	13.10	76.5	305.9	305.9	0.0
	M		--	--	25.00	640.7	2042.2	320.3	80.1
	B		--	--	16.20	1420.0	20435.3	1666.9	555.6
26 JUL	S	2100	--	--	14.70	4346.3	160814.9	14668.9	1086.6
	M		--	--	15.50	5174.2	292861.2	15522.7	5174.2
	B		--	--	20.60	5432.9	124957.6	4268.7	776.1
26 JUL	S	2300	--	--	14.00	143.0	39174.3	3860.2	714.9
	M		--	--	24.40	2291.0	70530.0	4745.6	981.9
	B		--	--	14.40	1663.1	48785.6	8315.7	1108.8
27 JUL	S	0100	--	--	15.10	663.2	25334.3	6101.4	2254.9
	M		--	--	15.00	2263.7	39415.4	13449.2	3861.6
	B		--	--	11.80	1612.9	14431.2	6791.2	1528.0
27 JUL	S	0300	--	--	17.40	0.0	0.0	0.0	0.0
	M		--	--	16.20	2222.6	48155.6	5679.9	1481.7
	B		--	--	16.50	1334.0	22677.7	4608.3	242.5
16 AUG	S	1430	--	--	47.00	340.6	136249.2	1362.5	340.6
	M		--	--	51.80	0.0	90137.4	1543.4	0.0
	B		--	--	54.10	886.8	49067.9	443.4	0.0
16 AUG	S	1630	--	--	51.20	1249.0	25603.5	13348.2	0.0
	M		--	--	86.40	740.4	17955.5	8885.2	185.1
	B		--	--	80.10	799.0	17876.8	5293.1	0.0
16 AUG	S	1830	--	--	50.90	628.1	14210.4	1491.7	235.5
	M		--	--	47.10	594.2	12818.3	764.0	84.9
	B		--	--	72.20	1053.3	8925.5	776.1	332.6
16 AUG	S	2030	--	--	--	--	--	--	--
	M		--	--	46.80	2394.9	15566.7	1026.4	256.6
	B		--	--	--	--	--	--	--

TABLE G. (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
16 AUG	S	2230	--	--	35.60	2581.8	31767.0	13806.8	561.3
	M		--	--	43.00	5116.6	29211.3	9209.9	372.1
	B		--	--	--	--	--	--	--
17 AUG	S	0030	--	--	43.70	2561.0	24420.8	4024.4	91.5
	M		--	--	43.70	1554.9	32012.3	7317.1	274.4
	B		--	--	43.00	744.2	34793.1	6698.1	0.0
17 AUG	S	0230	--	--	39.20	1429.7	10314.4	5412.5	255.3
	M		--	--	42.70	1217.7	17703.9	6650.7	93.7
	B		--	--	40.50	1185.4	18373.2	4346.4	98.8
12 SEP	S	1345	--	--	58.30	0.0	0.0	0.0	0.0
	M		--	--	72.20	0.0	0.0	0.0	0.0
	B		--	--	--	--	--	--	--
12 SEP	S	1530	--	--	68.30	0.0	0.0	0.0	0.0
	M		--	--	77.20	0.0	0.0	414.7	0.0
	B		--	--	69.50	0.0	460.4	0.0	0.0
12 SEP	S	1730	--	--	76.40	78.5	26.2	13.1	0.0
	M		--	--	76.00	52.6	0.0	0.0	0.0
	B		--	--	70.20	256.3	28.5	28.5	0.0
12 SEP	S	1930	--	--	49.30	121.6	466.3	60.8	243.3
	M		--	--	61.60	552.4	909.8	97.5	130.0
	B		--	--	62.30	321.1	690.4	0.0	80.3
12 SEP	S	2130	--	--	59.20	405.4	2567.8	202.7	0.0
	M		--	--	70.50	453.7	3856.4	0.0	0.0
	B		--	--	70.20	569.5	2050.2	113.9	0.0
12 SEP	S	2330	--	--	49.50	202.1	2021.2	40.4	0.0
	M		--	--	53.70	297.7	2232.7	297.7	0.0
	B		--	--	53.00	452.7	4678.4	301.8	0.0

TABLE G.3-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
13 SEP	S	0130	--	--	86.70	349.0	737.9	0.0	0.0
	M		--	--	73.90	0.0	3300.9	0.0	0.0
	B		--	--	74.80	0.0	427.8	0.0	0.0
25 OCT	S	1130	--	--	40.90	2833.7	0.0	48.9	24.4
	M		--	--	42.00	2907.1	0.0	95.3	0.0
	B		--	--	38.90	9826.6	0.0	51.4	154.3
25 OCT	S	1330	--	--	44.50	2855.9	0.0	292.3	0.0
	M		--	--	42.80	2217.0	0.0	140.0	23.3
	B		--	--	42.70	6416.5	0.0	281.0	0.0
25 OCT	S	1530	--	--	47.90	2758.3	0.0	209.0	0.0
	M		--	--	43.90	2142.2	0.0	227.9	0.0
	B		--	--	30.60	6595.3	0.0	293.8	0.0
25 OCT	S	1730	--	--	50.90	2433.8	0.0	78.5	0.0
	M		--	--	46.70	4327.5	0.0	128.5	21.4
	B		--	--	48.40	7100.8	0.0	165.1	0.0
25 OCT	S	1930	--	--	45.20	21855.6	0.0	88.5	0.0
	M		--	--	44.20	24878.3	0.0	0.0	0.0
	B		--	--	42.00	23828.7	0.0	190.6	190.6
25 OCT	S	2130	--	--	34.50	55490.3	0.0	1625.2	0.0
	M		--	--	35.20	55466.0	0.0	1818.6	227.3
	B		--	--	35.90	51657.4	0.0	668.0	0.0
25 OCT	S	2330	--	--	27.70	52306.5	0.0	578.0	289.0
	M		--	--	--	--	--	--	--
	B		--	--	25.00	56566.5	0.0	639.2	0.0
15 NOV	S	1100	--	--	22.70	2204.9	0.0	44.1	0.0
	M		--	--	19.00	19448.4	0.0	105.1	0.0
	B		--	--	23.10	15745.1	0.0	86.5	0.0

TABLE G.[illegible] (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
15 NOV	S	1300	--	--	22.80	16035.9	0.0	438.1	262.9
	M		--	--	19.00	51564.5	0.0	2260.2	0.0
	B		--	--	21.40	45149.6	0.0	749.4	0.0
15 NOV	S	1500	--	--	21.80	10783.3	0.0	275.3	0.0
	M		--	--	23.00	22376.0	0.0	261.2	0.0
	B		--	--	21.90	38832.7	0.0	364.6	0.0
15 NOV	S	1700	--	--	25.50	20412.8	0.0	510.3	0.0
	M		--	--	24.90	43881.4	0.0	482.2	0.0
	B		--	--	22.10	40747.0	0.0	724.4	0.0
15 NOV	S	1900	--	--	28.30	14431.2	0.0	141.5	0.0
	M		--	--	26.90	68579.7	0.0	0.0	0.0
	B		--	--	26.70	68737.2	0.0	900.5	0.0
15 NOV	S	2100	--	--	27.70	14810.5	0.0	578.0	72.2
	M		--	--	26.40	63434.9	0.0	607.0	303.5
	B		--	--	24.10	36109.2	0.0	579.7	0.0
15 NOV	S	2300	--	--	33.10	21067.7	0.0	120.7	60.4
	M		--	--	32.10	39251.7	0.0	623.0	124.6
	B		--	--	28.90	52666.2	0.0	831.6	0.0
06 DEC	S	1300	--	--	43.40	851.8	0.0	23.0	0.0
	M		--	--	39.50	1799.2	0.0	25.3	0.0
	B		--	--	37.00	188.9	0.0	27.0	0.0
06 DEC	S	1500	--	--	38.00	789.7	0.0	0.0	0.0
	M		--	--	50.10	399.5	0.0	0.0	0.0
	B		--	--	35.30	8460.7	0.0	0.0	0.0
06 DEC	S	1700	--	--	27.50	8824.9	0.0	108.9	36.3
	M		--	--	12.80	48709.1	0.0	312.2	0.0
	B		--	--	--	--	--	--	--

TABLE G.3-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
06 DEC	S	1900	--	--	25.80	13373.0	0.0	193.8	38.8
	M		--	--	34.50	23798.1	0.0	232.2	0.0
	B		--	--	31.50	27545.5	0.0	253.9	0.0
06 DEC	S	2100	--	--	31.80	16349.1	0.0	503.0	0.0
	M		--	--	29.40	18336.2	0.0	135.8	0.0
	B		--	--	27.40	23513.5	0.0	146.0	0.0
06 DEC	S	2300	--	--	47.40	4344.7	0.0	0.0	0.0
	M		--	--	40.50	12051.2	0.0	0.0	0.0
	B		--	--	37.10	24146.4	0.0	215.6	0.0

(a) Data excluded from analysis because of extremely high or low sample volume.

TABLE G.4-1 DENSITIES OF GAMMARUS SPP., NEOMYSIS AMERICANA, MONOCULODES EDWARDSI, AND CHAOBORUS PUNCTIPENNIS COLLECTED AT STATION D2 DURING THE ENTRAINMENT ABUNDANCE STUDY, INDIAN POINT GENERATING STATION, 1977

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M)			
						GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
03 MAY	S	1430	--	--	64.10	4215.2	0.0	405.9	0.0
03 MAY	S	1630	--	--	65.10	1152.3	0.0	0.0	138.3
03 MAY	S	1830	--	--	37.80	1136.3	0.0	26.4	185.0
03 MAY	S	2230	--	--	51.20	7688.9	0.0	117.1	2185.7
04 MAY	S	0030	--	--	43.60	5093.4	0.0	160.6	2202.5
04 MAY	S	0230	--	--	69.20	2976.6	0.0	202.3	187.8
10 MAY	S	1430	--	--	49.80	140.6	0.0	20.1	40.2
10 MAY	S	1630	--	--	46.50	343.9	0.0	0.0	279.4
10 MAY	S	1830	--	--	46.20	389.3	0.0	0.0	778.6
10 MAY	S	2030	--	--	65.70	1431.3	0.0	76.1	487.3
10 MAY	S	2230	--	--	73.60	801.4	0.0	149.4	461.8
11 MAY	S	0030	--	--	66.40	617.4	0.0	210.8	271.0
11 MAY	S	0230	--	--	69.20	924.8	0.0	101.1	173.4
17 MAY	S	1630	--	--	178.50	3003.4	0.0	78.4	207.3
17 MAY	S	1830	--	--	125.50	502.2	0.0	8.0	279.0
17 MAY	S	2030	--	--	104.30	2339.1	0.0	28.8	690.2
17 MAY	S	2230	--	--	108.70	2438.6	0.0	36.8	174.8
24 MAY	S	1500	--	--	108.70	414.1	0.0	0.0	64.4
24 MAY	S	1630	--	--	72.40	234.7	0.0	0.0	41.4
24 MAY	S	1830	--	--	41.50	2119.2	0.0	0.0	578.0
24 MAY	S	2030	--	--	100.60	5982.3	0.0	19.9	1530.3

TABLE G.4-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
24 MAY	S	2230	--	--	171.70	3156.8	0.0	5.8	285.4
25 MAY	S	0030	--	--	156.50	1993.6	0.0	0.0	153.4
25 MAY	S	0230	--	--	153.60	3540.7	0.0	0.0	65.1
31 MAY	S	1500	--	--	94.20	541.3	2398.9	10.6	106.1
31 MAY	S	1700	--	--	93.90	521.7	74.5	31.9	127.8
31 MAY	S	1900	--	--	73.90	1163.0	67.6	0.0	419.2
31 MAY	S	2300	--	--	88.20	1858.7	9792.3	317.3	362.7
01 JUN	S	0100	--	--	72.60	2920.3	23280.1	220.4	661.2
01 JUN	S	0300	--	--	79.20	2007.8	2235.1	101.0	315.7
07 JUN	S	1500	--	--	81.30	1980.8	2030.0	209.1	73.8
07 JUN	S	1700	--	--	78.60	0.0	0.0	0.0	0.0
07 JUN	S	1900	--	--	74.20	1131.9	10025.1	323.4	53.9
07 JUN	S	2100	--	--	71.70	8593.6	9486.4	390.6	1618.3
07 JUN	S	2300	--	--	37.20	10977.8	3766.9	484.3	322.9
08 JUN	S	0100	--	--	57.30	7126.5	1886.4	314.4	139.7
08 JUN	S	0300	--	--	254.70	1001.0	192.4	35.3	15.7
14 JUN	S	1500	--	--	74.20	161.6	188.6	13.5	0.0
14 JUN	S	1700	--	--	80.60	669.7	136.4	62.0	12.4
14 JUN	S	1900	--	--	76.30	1034.9	353.7	26.2	26.2
14 JUN	S	2300	--	--	71.60	9236.6	14225.1	1718.8	0.0
15 JUN	S	0100	--	--	110.80	2482.2	4765.7	866.5	0.0

TABLE G.4-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M)			
						GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
15 JUN	S	0300	--	--	113.50	2256.1	2388.3	625.7	0.0
21 JUN	S	1700	--	--	65.70	243.4	23124.1	0.0	365.1
21 JUN	S	1900	--	--	(a)	(a)	(a)	(a)	(a)
21 JUN	S	2100	--	--	66.40	1657.1	451.9	316.4	45.2
21 JUN	S	2300	--	--	200.00	1964.8	11568.6	1279.8	215.0
22 JUN	S	0100	--	--	(a)	(a)	(a	(a)	(a)
22 JUN	S	0300	--	--	73.70	2824.0	2715.4	28457.2	217.2
28 JUN	S	1500	--	--	112.80	363.5	1347.6	496.5	17.7
28 JUN	S	1700	--	--	78.10	179.3	1395.6	128.0	12.8
28 JUN	S	1900	--	--	63.60	1508.5	113133.8	502.8	1508.5
28 JUN	S	2100	--	--	48.00	5666.3	93993.1	3999.7	333.3
28 JUN	S	2300	--	--	63.40	5049.2	91895.4	4544.3	504.9
29 JUN	S	0300	--	--	94.70	2955.4	16888.2	2448.8	168.9
05 JUL	S	1500	--	--	36.30	1324.0	38617.6	2206.7	0.0
05 JUL	S	1700	--	--	53.90	296.9	62048.3	2375.1	296.9
05 JUL	S	1900	--	--	61.30	2089.6	66344.5	3395.6	0.0
05 JUL	S	2100	--	--	54.00	3700.9	29903.4	1924.5	1498.9
05 JUL	S	2300	--	--	86.90	2760.6	35209.6	1587.4	0.0
06 JUL	S	0300	--	--	53.30	4877.6	23712.8	5402.9	225.1
12 JUL	S	1500	--	--	80.80	49.5	10291.9	692.7	99.0
12 JUL	S	1700	--	--	83.00	36.1	264.9	120.4	0.0

TABLE G.4-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
12 JUL	S	1900	--	--	80.70	347.0	4585.3	223.1	223.1
12 JUL	S	2100	--	--	37.40	5133.5	44490.2	2994.5	0.0
13 JUL	S	0100	--	--	74.80	1122.9	9090.5	6042.5	320.8
13 JUL	S	0300	--	--	82.90	772.0	11242.2	3088.0	772.0
19 JUL	S	1700	--	--	109.60	146.0	42499.6	1314.4	146.0
19 JUL	S	1900	--	--	83.30	431.9	13390.4	1103.9	671.9
19 JUL	S	2100	--	--	321.30	883.9	2278.2	323.7	186.7
19 JUL	S	2300	--	--	61.30	7836.0	105002.0	2089.6	2089.6
20 JUL	S	0100	--	--	77.50	2478.9	47512.4	4131.5	2272.3
20 JUL	S	0300	--	--	80.40	1393.1	37214.6	2388.1	1393.1
26 JUL	S	1500	--	--	69.80	171.9	86.0	57.3	28.7
26 JUL	S	1700	--	--	62.70	637.7	5547.7	287.0	1084.0
26 JUL	S	1900	--	--	51.50	620.9	32442.4	1086.6	310.5
26 JUL	S	2100	--	--	53.70	3572.3	129199.7	8930.9	800.1
26 JUL	S	2300	--	--	72.40	1546.0	64267.7	4858.7	0.0
27 JUL	S	0100	--	--	66.00	2789.2	29590.1	8610.2	2425.4
27 JUL	S	0300	--	--	65.40	2814.4	33282.9	4282.7	734.2
16 AUG	S	1430	--	--	69.00	232.0	27721.4	811.9	0.0
16 AUG	S	1630	--	--	72.30	774.6	22462.0	5864.5	221.3
16 AUG	S	1830	--	--	62.30	642.5	22487.3	1285.0	385.5
16 AUG	S	2030	--	--	86.30	2364.2	17290.8	370.8	0.0

TABLE G.4-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
16 AUG	S	2230	--	--	63.60	3395.6	23769.1	14714.2	377.3
17 AUG	S	0030	--	--	45.90	1741.3	20983.0	3656.8	174.1
17 AUG	S	0230	--	--	56.50	2405.2	12804.2	2122.2	212.2
12 SEP	S	1345	--	--	69.60	0.0	229.7	0.0	0.0
12 SEP	S	1530	--	--	81.70	0.0	0.0	0.0	0.0
12 SEP	S	1730	--	--	89.70	33.5	22.3	0.0	0.0
12 SEP	S	1930	--	--	78.90	278.7	544.8	63.4	38.0
12 SEP	S	2130	--	--	62.70	255.1	2805.7	255.1	0.0
12 SEP	S	2330	--	--	61.30	130.6	5224.0	261.2	0.0
13 SEP	S	0130	--	--	94.70	169.0	1520.9	0.0	0.0
25 OCT	S	1130	--	--	25.20	832.1	0.0	0.0	0.0
25 OCT	S	1330	--	--	26.90	445.3	0.0	74.2	0.0
25 OCT	S	1530	--	--	56.00	482.5	0.0	0.0	17.9
25 OCT	S	1730	--	--	31.10	418.4	0.0	32.2	0.0
25 OCT	S	1930	--	--	27.10	5604.0	0.0	221.2	73.7
25 OCT	S	2130	--	--	28.60	7106.2	0.0	175.0	175.0
25 OCT	S	2330	--	--	21.40	7493.7	0.0	562.0	0.0
15 NOV	S	1100	--	--	16.80	536.1	0.0	0.0	0.0
15 NOV	S	1300	--	--	14.40	695.8	0.0	69.6	0.0
15 NOV	S	1500	--	--	15.60	1601.7	0.0	64.1	0.0
15 NOV	S	1700	--	--	19.70	10440.2	0.0	354.8	0.0

TABLE G.4-1 (CONT.)

DATE	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M)			
						GAMMARUS SPP.	NEOMYSIS AMERICANA	MONOCULODES EDWARDSI	CHAOBORUS PUNCTIPENNIS
15 NOV	S	1900	--	--	17.50	19631.6	0.0	684.8	0.0
15 NOV	S	2100	--	--	16.80	14535.5	0.0	714.9	0.0
15 NOV	S	2300	--	--	17.40	10801.5	0.0	402.2	0.0
06 DEC	S	1300	--	--	21.80	321.2	0.0	0.0	0.0
06 DEC	S	1500	--	--	13.80	233.9	0.0	0.0	0.0
06 DEC	S	1700	--	--	15.80	2284.9	0.0	0.0	0.0
06 DEC	S	1900	--	--	20.50	6693.5	0.0	48.9	0.0
06 DEC	S	2100	--	--	23.10	6574.9	0.0	173.0	0.0
06 DEC	S	2300	--	--	18.10	7950.6	0.0	110.4	0.0

(a) Data excluded from analysis because of extemely high or low sample volume.

Note: Dashes (--) indicate data not available.
S = surface

APPENDIX H

SEASONAL ENTRAINMENT ABUNDANCE OF SELECTED MACROZOOPLANKTON TAXA, INDIAN POINT GENERATING STATION, 1977

APPENDIX H FIGURES

	Title	Number
H.1	SEASONAL ENTRAINMENT ABUNDANCE OF GAMMARUS SPP.	
	Day and Night Abundance	H.1-1
	Abundance at Each Station	H.1-2
H.2	SEASONAL ENTRAINMENT ABUNDANCE OF NEOMYSIS AMERICANA	
	Day and Night Abundance	H.2-1
	Abundance at Each Station	H.2-2
H.3	SEASONAL ENTRAINMENT ABUNDANCE OF MONOCULODES EDWARDSI	
	Day and Night Abundance	H.3-1
	Abundance at Each Station	H.3-2
H.4	SEASONAL ENTRAINMENT ABUNDANCE OF CHAOBORUS PUNCTIPENNIS	
	Day and Night Abundance	H.4-1
	Abundance at Each Station	H.4-2

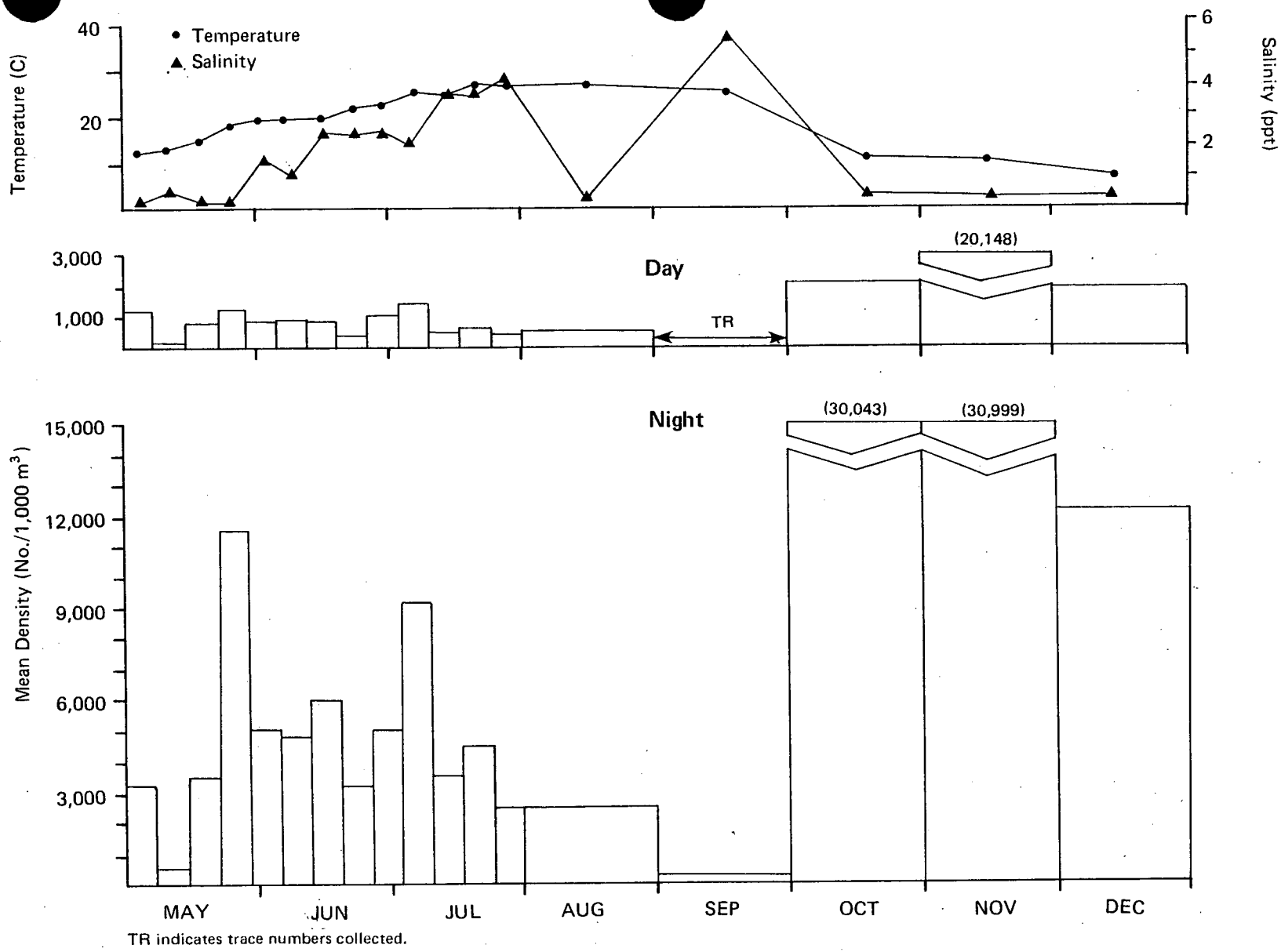


Figure H.1-1. Mean densities (No./1,000 m^3) of Gammarus spp. collected during the day (first three collection periods) and the night (last four collection periods) during the entrainment abundance study (all stations and depths combined), Indian Point Generating Station, 1977. (See Appendix A for water quality data.)

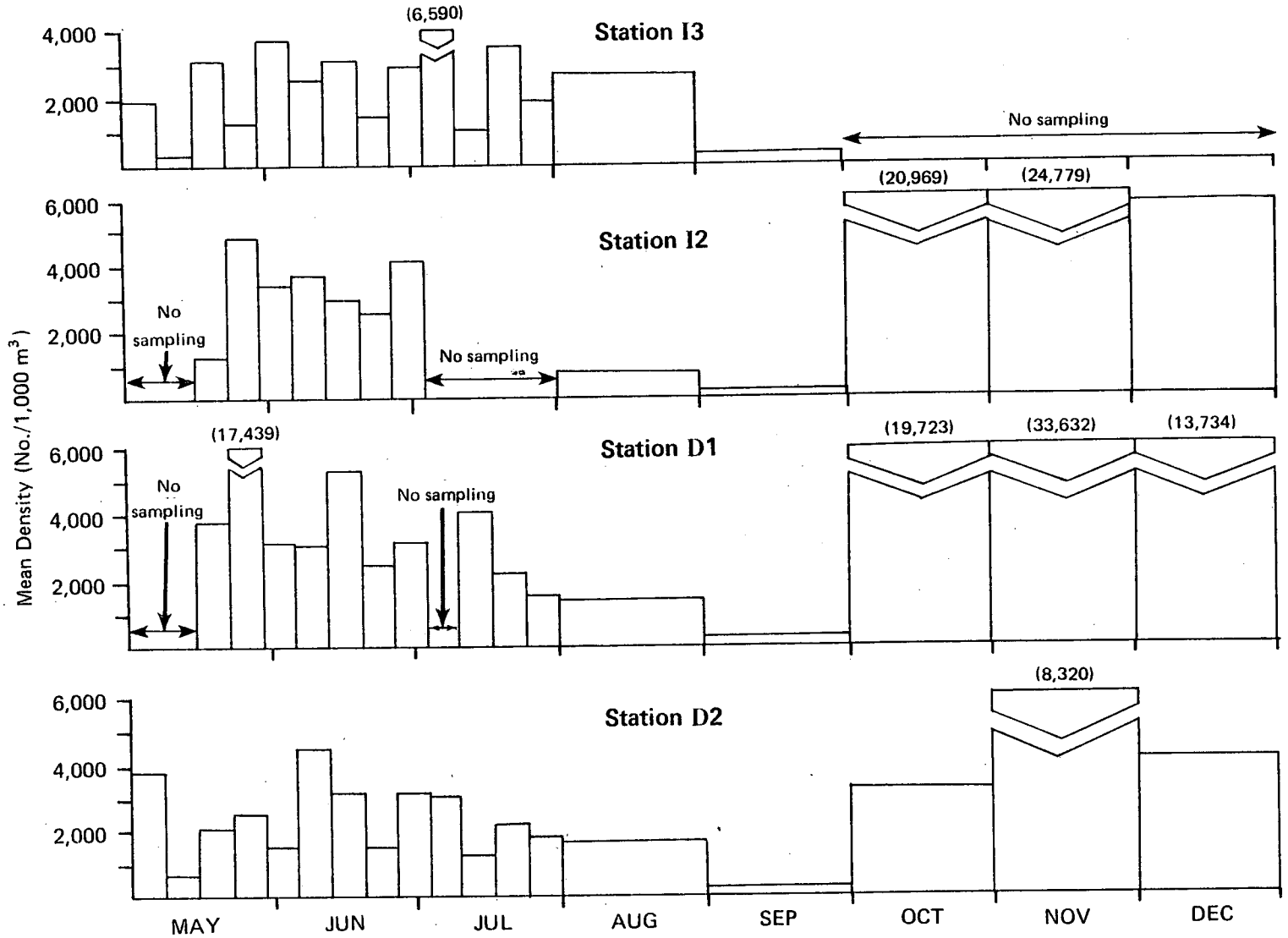


Figure H.1-2. Mean densities (No./1,000 m^3) of Gammarus spp. collected at each station during the entrainment abundance study (all depths and collection periods combined), Indian Point Generating Station, 1977.

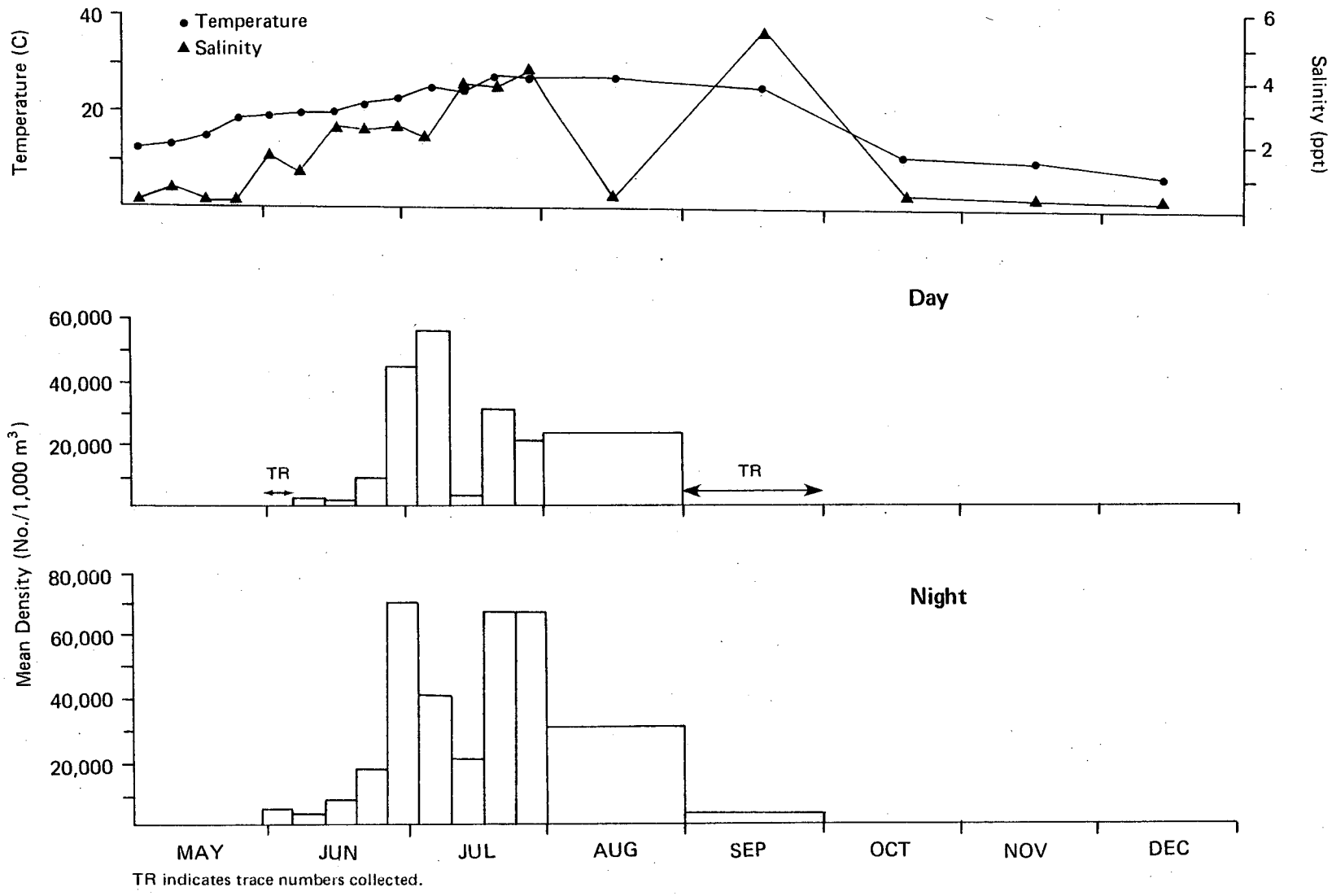


Figure H.2-1. Mean densities (No./1,000 m^3) of Neomysis americana collected during the day (first three collection periods) and the night (last four collection periods) during the entrainment abundance study (all stations and depths combined), Indian Point Generating Station, 1977. (See Appendix A for water quality data.)

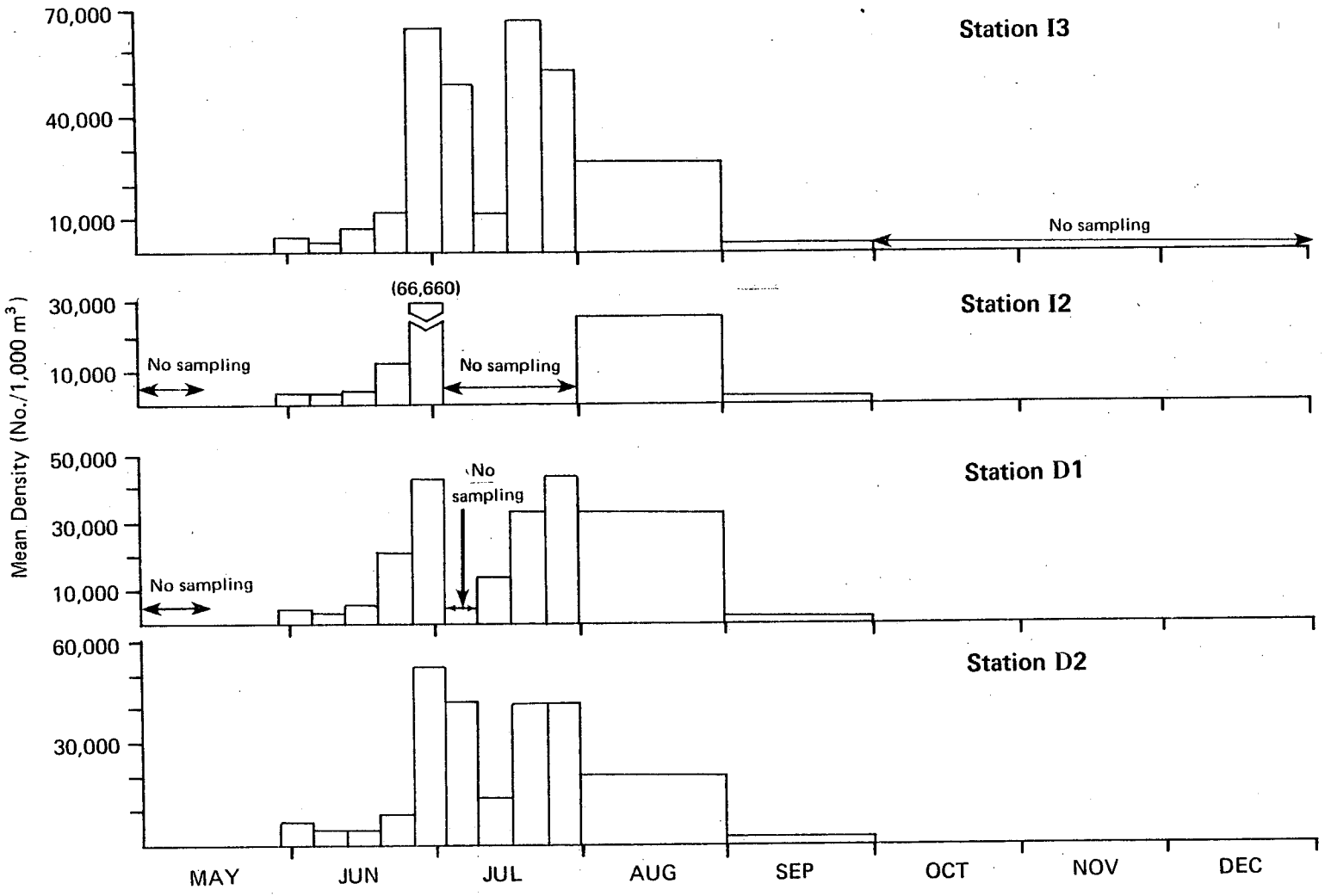


Figure H.2-2. Mean densities (No./1,000 m^3) of Neomysis americana collected at each station during the entrainment abundance study (all depths and collection periods combined), Indian Point Generating Station, 1977.

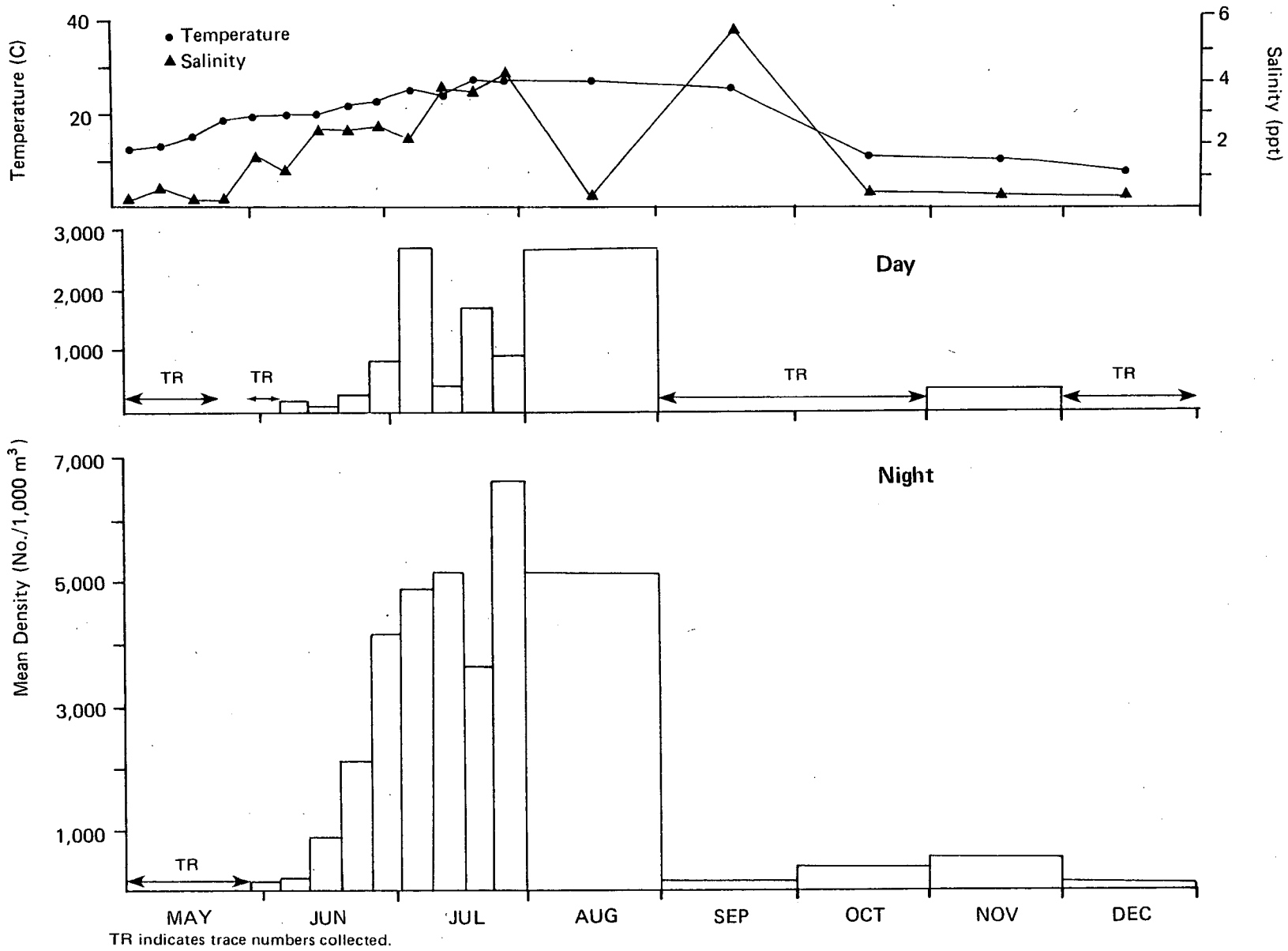
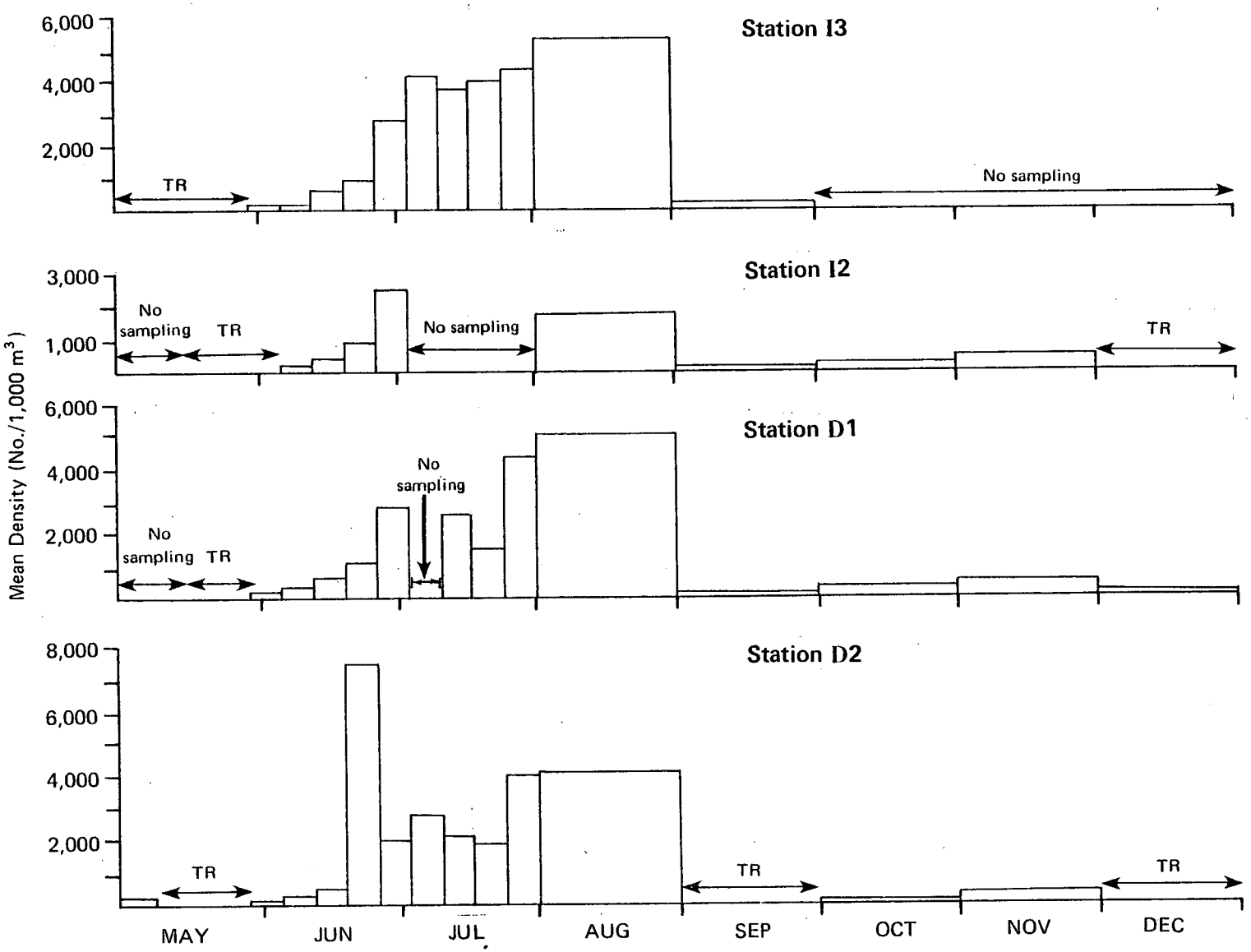


Figure H.3-1. Mean densities (No./1,000 m^3) of Monoculodes edwardsi collected during the day (first three collection periods) and the night (last four collection periods) during the entrainment abundance study (all stations and depths combined), Indian Point Generating Station, 1977. (See Appendix A for water quality data.)



TR indicates trace numbers collected.

Figure H.3-2. Mean densities (No./1,000 m^3) of Monoculodes edwardsi collected at each station during the entrainment abundance study (all depths and collection periods combined), Indian Point Generating Station, 1977.

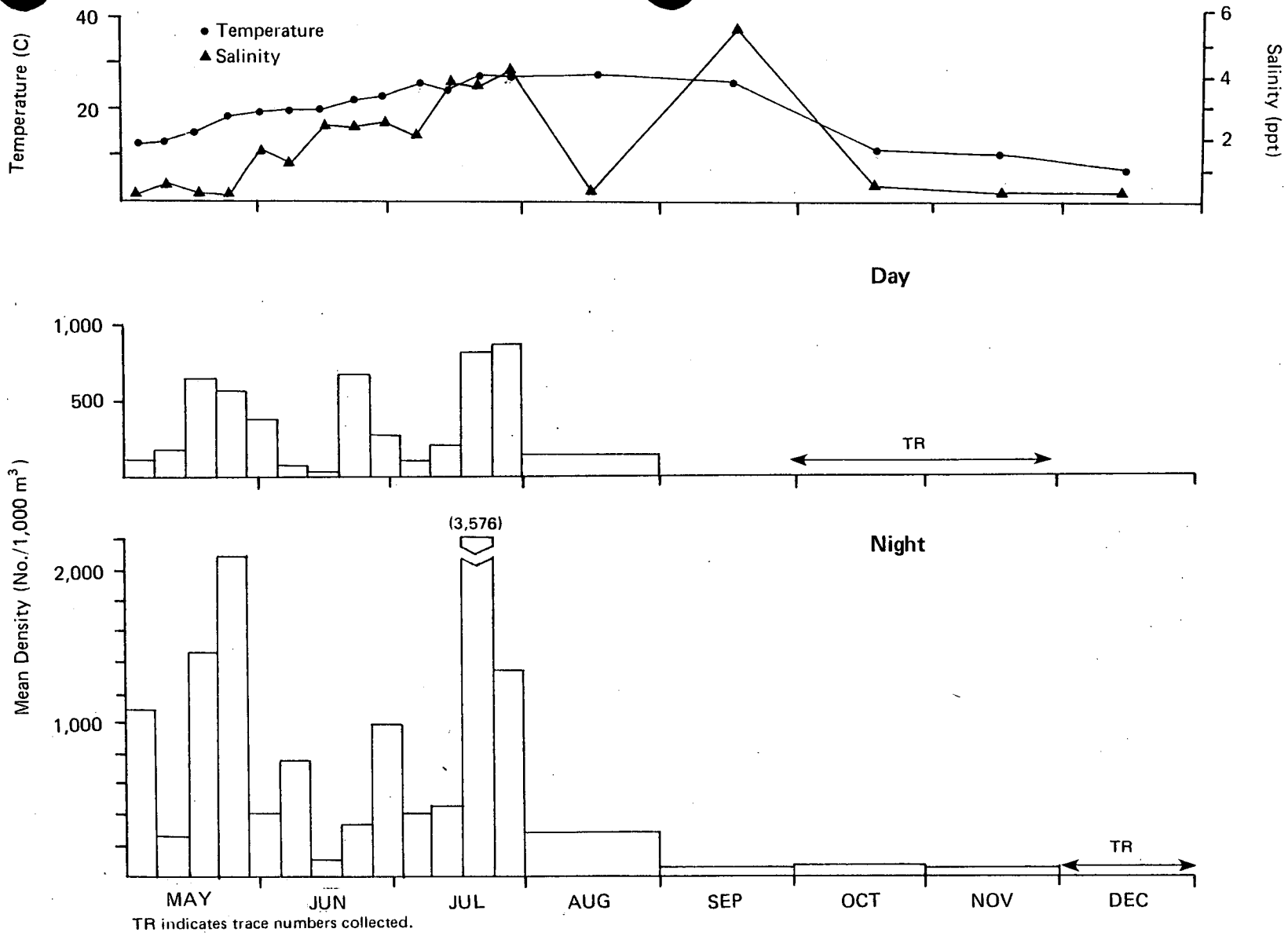


Figure H.4-1. Mean densities (No./1,000 m^3) of Chaoborus punctipennis collected during the day (first three collection periods) and during the night (last four collection periods) during the entrainment abundance study (all stations and depths combined), Indian Point Generating Station, 1977. (See Appendix A for water quality data.)

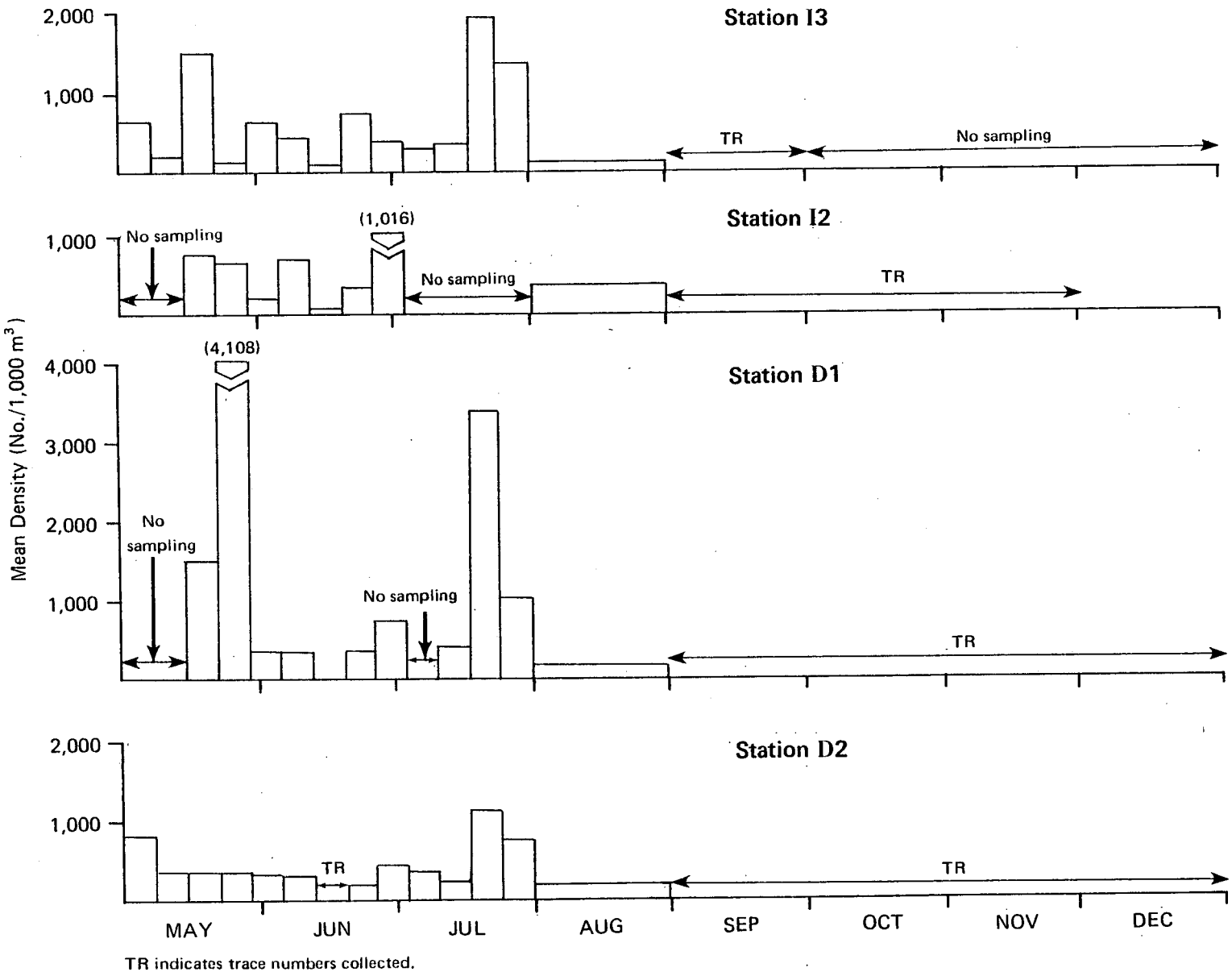


Figure H.4-2. Mean densities (No./1,000 m^3) of Chaoborus punctipennis collected at each station during the entrainment abundance study (all depths and collection periods combined), Indian Point Generating Station, 1977.

APPENDIX I

ABUNDANCE OF STRIPED BASS EARLY DEVELOPMENTAL STAGES COLLECTED AT RIVER TRANSECT STATIONS, INDIAN POINT GENERATING STATION, 1977

APPENDIX I TABLES

	Title	Number
I.1	ABUNDANCES OF STRIPED BASS EARLY DEVELOPMENTAL STAGES COLLECTED AT STATION RD DURING THE RIVER TRANSECT STUDY, INDIAN POINT GENERATING STATION, 1977	I.1-1
I.2	ABUNDANCES OF STRIPED BASS EARLY DEVELOPMENTAL STAGES COLLECTED AT STATION RC DURING THE RIVER TRANSECT STUDY, INDIAN POINT GENERATING STATION, 1977	I.2-1
I.3	ABUNDANCES OF STRIPED BASS EARLY DEVELOPMENTAL STAGES COLLECTED AT STATION RW DURING THE RIVER TRANSECT STUDY, INDIAN POINT GENERATING STATION, 1977	I.3-1

TABLE I.1-1 ABUNDANCES OF STRIPED BASS EARLY DEVELOPMENTAL STAGES COLLECTED AT STATION RD DURING THE RIVER TRANSECT STUDY, INDIAN POINT GENERATING STATION, 1977

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
03 MAY	S	1430	14.1	380.	112.90	8.9	0.0	0.0	0.0	0.0	0.0
	M		--	--	95.70	10.5	0.0	0.0	0.0	0.0	0.0
	B		13.0	320.	100.60	457.2	0.0	0.0	0.0	0.0	0.0
03 MAY	S	1630	13.6	350.	124.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	111.50	0.0	0.0	0.0	0.0	0.0	0.0
	B		12.8	300.	119.20	0.0	0.0	0.0	0.0	0.0	0.0
03 MAY	S	1830	12.1	300.	112.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	100.20	0.0	0.0	0.0	0.0	0.0	0.0
	B		12.3	250.	100.70	0.0	0.0	0.0	0.0	0.0	0.0
03 MAY	S	2030	13.6	320.	108.10	9.3	0.0	0.0	0.0	0.0	0.0
	M		--	--	98.60	40.6	0.0	0.0	0.0	0.0	0.0
	B		12.0	300.	97.00	30.9	0.0	0.0	0.0	0.0	0.0
03 MAY	S	2235	14.0	320.	62.70	31.9	0.0	0.0	0.0	0.0	0.0
	M		--	--	116.30	94.6	8.6	0.0	0.0	0.0	8.6
	B		14.3	300.	111.10	269.9	0.0	0.0	0.0	0.0	0.0
04 MAY	S	0030	13.6	500.	126.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	121.20	24.8	0.0	0.0	0.0	0.0	0.0
	B		12.5	300.	114.70	17.4	0.0	0.0	0.0	0.0	0.0
04 MAY	S	0230	12.5	300.	98.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	94.90	0.0	10.5	0.0	0.0	0.0	10.5
	B		12.5	320.	92.10	10.9	0.0	0.0	0.0	0.0	0.0
10 MAY	S	1430	16.0	220.	65.10	76.8	30.7	0.0	0.0	0.0	30.7
	M		--	--	66.30	226.2	15.1	0.0	0.0	0.0	15.1
	B		11.9	200.	111.00	90.1	27.0	0.0	0.0	0.0	27.0
10 MAY	S	1630	13.8	350.	97.70	10.2	0.0	0.0	0.0	0.0	0.0
	M		--	--	84.90	153.1	47.1	0.0	0.0	0.0	47.1
	B		12.2	300.	95.80	406.9	10.4	0.0	0.0	0.0	10.4

TABLE I.1-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
10 MAY	S	1830	--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	M		--	--	84.30	1234.1	367.8	0.0	0.0	0.0	367.8
	B		12.1	320.	97.60	1250.0	123.0	0.0	0.0	0.0	123.0
10 MAY	S	2030	12.5	300.	124.40	0.0	32.2	0.0	0.0	0.0	32.2
	M		--	--	96.00	62.5	83.3	0.0	0.0	0.0	83.3
	B		12.4	320.	99.70	2979.8	170.6	0.0	0.0	0.0	170.6
10 MAY	S	2230	12.5	280.	94.30	0.0	31.8	0.0	0.0	0.0	31.8
	M		--	--	86.30	11.6	208.6	0.0	0.0	0.0	208.6
	B		12.5	300.	94.40	105.9	105.9	0.0	0.0	0.0	105.9
11 MAY	S	0030	11.0	180.	116.30	17.2	154.8	0.0	0.0	0.0	154.8
	M		--	--	96.80	10.3	20.7	0.0	0.0	0.0	20.7
	B		12.1	280.	91.80	98.0	21.8	0.0	0.0	0.0	21.8
11 MAY	S	0230	11.6	300.	73.70	27.1	95.0	0.0	0.0	0.0	95.0
	M		--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	B		11.6	280.	76.40	274.9	26.2	0.0	0.0	0.0	26.2
17 MAY	S	1500	16.0	280.	107.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	94.90	0.0	73.8	0.0	0.0	0.0	73.8
	B		14.2	260.	102.60	1004.0	9.7	0.0	0.0	0.0	9.7
17 MAY	S	1630	16.0	280.	114.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	115.40	0.0	69.3	0.0	0.0	0.0	69.3
	B		14.3	280.	122.10	49.1	40.9	0.0	0.0	0.0	40.9
17 MAY	S	1830	14.8	280.	136.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	B		14.4	280.	134.50	74.4	37.2	0.0	0.0	0.0	37.2

TABLE I. [illegible] (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
17 MAY	S	2030	14.2	250.	78.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	71.80	320.4	0.0	0.0	0.0	0.0	0.0
	B		14.3	300.	102.00	666.7	19.6	0.0	0.0	0.0	19.6
17 MAY	S	2230	14.0	250.	108.60	460.6	18.4	0.0	0.0	0.0	18.4
	M		--	--	101.60	3365.6	246.0	0.0	0.0	0.0	246.0
	B		14.2	300.	104.40	3804.1	584.5	0.0	0.0	0.0	584.5
18 MAY	S	0030	15.2	300.	102.00	392.0	9.8	0.0	0.0	0.0	9.8
	M		--	--	118.40	498.3	59.1	0.0	0.0	0.0	59.1
	B		15.1	300.	91.50	1540.6	305.9	0.0	0.0	0.0	305.9
18 MAY	S	0230	15.0	300.	105.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	98.60	111.6	91.3	0.0	0.0	0.0	91.3
	B		15.0	320.	105.20	1340.3	209.1	0.0	0.0	0.0	209.1
18 MAY	S	0432	15.4	400.	180.70	0.0	11.1	0.0	0.0	0.0	11.1
	M		--	--	151.00	6.6	53.0	0.0	0.0	0.0	53.0
	B		15.0	480.	175.90	68.2	11.4	5.7	0.0	0.0	17.1
18 MAY	S	0631	14.6	300.	114.10	8.8	0.0	0.0	0.0	0.0	0.0
	M		--	--	104.20	19.2	76.8	0.0	0.0	0.0	76.8
	B		14.4	320.	112.70	159.7	53.2	0.0	0.0	0.0	53.2
18 MAY	S	0832	17.8	350.	140.10	21.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	122.60	97.9	57.1	0.0	0.0	0.0	57.1
	B		14.1	300.	153.20	372.1	26.1	0.0	0.0	0.0	26.1
18 MAY	S	1031	15.9	340.	144.40	138.5	20.8	0.0	0.0	0.0	20.8
	M		--	--	122.00	377.0	32.8	0.0	0.0	0.0	32.8
	B		14.2	300.	128.80	644.4	31.1	0.0	0.0	0.0	31.1

TABLE I.1-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
18 MAY	S	1231	15.7	350.	113.60	396.0	26.4	0.0	0.0	0.0	26.4
	M		--	--	103.00	1223.7	58.3	0.0	0.0	0.0	58.3
	B		14.9	350.	117.50	1888.6	42.5	0.0	0.0	0.0	42.5
18 MAY	S	1431	15.6	280.	152.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	136.80	14.6	153.5	7.3	0.0	0.0	160.8
	B		14.8	300.	151.00	53.0	158.9	0.0	0.0	0.0	158.9
18 MAY	S	1700	16.0	250.	115.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	105.10	0.0	218.9	0.0	0.0	0.0	218.9
	B		15.1	360.	111.00	36.0	0.0	0.0	0.0	0.0	0.0
18 MAY	S	1830	15.4	280.	117.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	109.90	54.6	63.7	0.0	0.0	0.0	63.7
	B		14.8	250.	109.20	228.9	18.3	0.0	0.0	0.0	18.3
18 MAY	S	2030	14.4	280.	107.00	0.0	18.7	0.0	0.0	0.0	18.7
	M		--	--	89.50	0.0	44.7	0.0	0.0	0.0	44.7
	B		14.4	280.	108.20	37.0	0.0	0.0	0.0	0.0	0.0
18 MAY	S	2230	14.8	300.	78.70	63.5	0.0	0.0	0.0	0.0	0.0
	M		--	--	72.90	2374.6	233.3	0.0	0.0	0.0	233.3
	B		14.6	300.	76.70	2217.1	273.9	0.0	0.0	0.0	273.9
19 MAY	S	0030	15.8	330.	83.10	108.3	60.2	0.0	0.0	0.0	60.2
	M		--	--	68.50	1139.2	292.1	0.0	0.0	0.0	292.1
	B		15.8	320.	81.40	1805.5	380.7	0.0	0.0	0.0	380.7
19 MAY	S	0230	15.8	320.	89.60	33.5	11.2	0.0	0.0	0.0	11.2
	M		--	--	87.40	80.1	125.9	0.0	0.0	0.0	125.9
	B		16.0	300.	98.50	406.2	50.8	0.0	0.0	0.0	50.8
19 MAY	S	0432	15.8	360.	120.70	0.0	24.9	0.0	0.0	0.0	24.9
	M		--	--	110.90	0.0	279.5	0.0	0.0	0.0	279.5
	B		15.5	380.	117.60	255.1	85.0	0.0	0.0	0.0	85.0

TABLE I. [illegible] (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
19 MAY	S	0638	15.3	370.	106.20	9.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	99.60	30.1	70.3	0.0	0.0	0.0	70.3
	B		15.1	380.	99.70	381.0	70.2	0.0	0.0	0.0	70.2
19 MAY	S	0832	15.1	370.	99.50	0.0	10.0	0.0	0.0	0.0	10.0
	M		--	--	101.60	443.1	226.5	19.7	0.0	0.0	246.2
	B		14.7	350.	104.70	1604.2	95.5	0.0	0.0	0.0	95.5
19 MAY	S	1031	14.6	320.	140.40	655.3	71.2	0.0	0.0	0.0	71.2
	M		--	--	121.90	164.0	90.2	0.0	0.0	0.0	90.2
	B		14.4	310.	133.40	15.0	15.0	0.0	0.0	0.0	15.0
19 MAY	S	1230	15.8	320.	129.20	116.1	0.0	0.0	0.0	0.0	0.0
	M		--	--	118.40	1080.9	126.7	0.0	0.0	0.0	126.7
	B		15.2	300.	122.80	2735.1	89.5	0.0	0.0	0.0	89.5
19 MAY	S	1431	15.9	340.	98.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	85.90	628.7	407.5	0.0	0.0	0.0	407.5
	B		15.5	320.	101.60	1613.9	157.5	0.0	0.0	0.0	157.5
24 MAY	S	1500	18.9	300.	86.40	57.9	0.0	0.0	0.0	0.0	0.0
	M		--	--	75.90	724.4	605.8	13.2	0.0	0.0	619.0
	B		16.1	240.	80.20	523.5	274.2	0.0	0.0	0.0	274.2
24 MAY	S	1630	18.5	280.	94.70	337.9	0.0	0.0	0.0	0.0	0.0
	M		--	--	82.70	1136.0	84.6	24.2	0.0	0.0	108.8
	B		17.6	260.	89.60	714.3	100.5	33.5	0.0	0.0	134.0
24 MAY	S	1830	18.5	300.	110.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	104.50	19.1	57.4	19.1	0.0	0.0	76.5
	B		17.8	260.	130.80	153.0	91.8	7.6	0.0	0.0	99.4
24 MAY	S	2030	18.8	260.	123.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	109.40	0.0	484.6	27.4	0.0	0.0	512.0
	B		18.2	380.	124.30	16.1	329.8	16.1	0.0	0.0	345.9

TABLE I.1-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
24 MAY	S	2230	18.1	320.	148.20	0.0	13.5	13.5	0.0	0.0	27.0
	M		--	--	131.20	0.0	38.1	15.2	0.0	0.0	53.3
	B		17.9	330.	143.60	55.7	41.8	13.9	0.0	0.0	55.7
25 MAY	S	0030	17.5	380.	100.00	0.0	100.0	60.0	0.0	0.0	160.0
	M		--	--	92.60	0.0	140.5	21.6	0.0	0.0	162.1
	B		--	300.	109.40	100.5	18.3	9.1	0.0	0.0	27.4
25 MAY	S	0230	19.6	300.	186.10	43.0	21.5	10.7	0.0	0.0	32.2
	M		--	--	163.00	110.4	116.6	12.3	0.0	0.0	128.9
	B		--	--	--	--	--	--	--	--	--
25 MAY	S	0431	20.2	350.	92.30	43.3	54.1	75.8	0.0	0.0	129.9
	M		--	--	76.60	613.3	52.2	26.1	0.0	0.0	78.3
	B		18.5	320.	101.10	2076.5	29.7	19.8	0.0	0.0	49.5
25 MAY	S	0631	19.0	380.	115.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	105.20	294.6	47.5	76.0	0.0	0.0	123.5
	B		18.2	--	113.10	2883.6	35.4	44.2	0.0	0.0	79.6
25 MAY	S	0836	19.1	330.	152.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	119.70	0.0	33.4	58.5	0.0	0.0	91.9
	B		18.6	320.	125.00	8.0	0.0	0.0	0.0	0.0	0.0
25 MAY	S	1030	18.2	400.	134.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	123.50	170.1	477.9	16.2	0.0	0.0	494.1
	B		17.9	420.	125.30	199.5	151.6	8.0	0.0	0.0	159.6
25 MAY	S	1231	17.9	330.	126.10	7.9	7.9	7.9	0.0	0.0	15.8
	M		--	--	114.40	262.2	69.9	148.6	0.0	0.0	218.5
	B		17.2	340.	118.80	690.4	294.7	25.3	0.0	0.0	320.0
25 MAY	S	1447	--	300.	89.70	11.1	0.0	0.0	0.0	0.0	0.0
	M		--	--	72.80	13.7	0.0	0.0	0.0	0.0	0.0
	B		16.9	310.	92.20	325.5	108.5	0.0	0.0	0.0	108.5

TABLE I. [illegible] (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
25 MAY	S	1630	20.1	280.	93.60	160.3	21.4	0.0	0.0	0.0	21.4
	M		--	--	80.60	706.8	210.8	0.0	0.0	0.0	210.8
	B		17.4	280.	85.00	1153.6	294.3	0.0	0.0	0.0	294.3
25 MAY	S	1830	19.2	320.	71.20	14.1	0.0	0.0	0.0	0.0	0.0
	M		--	--	63.20	585.1	63.3	15.8	0.0	0.0	79.1
	B		18.5	320.	65.60	655.7	122.0	30.5	0.0	0.0	152.5
25 MAY	S	2030	19.5	320.	126.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	121.20	0.0	16.5	8.3	0.0	0.0	24.8
	B		18.8	340.	132.70	7.5	22.6	7.5	0.0	0.0	30.1
25 MAY	S	2230	19.4	400.	175.00	5.7	22.9	28.6	0.0	0.0	51.5
	M		--	--	166.20	6.0	42.1	6.0	0.0	0.0	48.1
	B		--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
26 MAY	S	0027	--	--	157.10	0.0	44.6	19.1	0.0	0.0	63.7
	M		--	--	164.20	42.6	30.4	6.1	0.0	0.0	36.5
	B		--	--	182.70	10.9	32.8	0.0	0.0	0.0	32.8
26 MAY	S	0228	--	--	123.40	8.1	24.3	16.2	0.0	0.0	40.5
	M		--	--	115.50	17.3	60.6	69.3	0.0	0.0	129.9
	B		--	--	126.90	102.4	39.4	13.8	0.0	0.0	53.2
26 MAY	S	0431	18.4	450.	108.50	119.8	27.6	0.0	0.0	0.0	27.6
	M		--	--	94.50	222.2	63.5	31.7	0.0	0.0	95.2
	B		18.2	400.	89.80	0.0	11.1	11.1	0.0	0.0	22.2
26 MAY	S	0631	19.3	400.	117.10	42.7	0.0	0.0	0.0	0.0	0.0
	M		--	--	102.00	451.0	68.6	58.8	0.0	0.0	127.4
	B		19.0	400.	124.70	785.9	72.2	80.2	0.0	0.0	152.4
26 MAY	S	0831	19.0	440.	72.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	67.30	0.0	14.9	0.0	0.0	0.0	14.9
	B		18.8	360.	73.00	383.7	0.0	0.0	0.0	0.0	0.0

TABLE I.1-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
26 MAY	S	1031	--	--	103.70	9.6	0.0	0.0	0.0	0.0	0.0
	M		--	--	98.10	122.3	61.2	40.8	0.0	0.0	102.0
	B		18.6	370.	95.20	420.2	42.0	115.6	0.0	0.0	157.6
26 MAY	S	1231	18.1	340.	101.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	96.00	72.9	20.8	125.0	0.0	0.0	145.8
	B		17.9	340.	98.00	30.6	142.9	71.5	0.0	0.0	214.4
26 MAY	S	1431	17.4	240.	116.40	0.0	8.6	8.6	0.0	0.0	17.2
	M		--	--	104.50	134.0	57.4	47.9	0.0	0.0	105.3
	B		17.1	200.	106.00	226.5	179.3	66.1	0.0	0.0	245.4
31 MAY	S	1500	20.3	2120.	117.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	95.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.6	3760.	99.30	0.0	30.2	151.1	0.0	0.0	181.3
31 MAY	S	1700	19.3	1780.	138.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	117.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.2	1740.	81.10	0.0	12.3	320.6	0.0	0.0	332.9
31 MAY	S	1900	18.8	1160.	124.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	106.40	0.0	9.4	798.9	0.0	0.0	808.3
	B		18.9	1180.	121.90	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	2100	21.0	2100.	112.80	0.0	70.9	301.4	0.0	0.0	372.3
	M		--	--	87.20	0.0	11.5	137.6	0.0	0.0	149.1
	B		19.6	2100.	75.00	0.0	13.3	173.4	0.0	0.0	186.7
31 MAY	S	2300	19.2	1200.	107.20	0.0	9.3	65.3	0.0	0.0	74.6
	M		--	--	91.40	0.0	10.9	43.8	0.0	0.0	54.7
	B		19.8	3820.	83.90	11.9	71.5	190.6	0.0	0.0	262.1
01 JUN	S	0100	18.9	2200.	102.60	0.0	19.5	0.0	0.0	0.0	19.5
	M		--	--	100.70	0.0	59.6	109.3	0.0	0.0	168.9
	B		19.9	4900.	108.30	0.0	18.5	110.8	0.0	0.0	129.3

TABLE I. (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
01 JUN	S	0300	19.5	3550.	100.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	83.00	0.0	12.0	614.4	0.0	0.0	626.4
	B		19.9	4700.	83.80	0.0	0.0	0.0	0.0	0.0	0.0
07 JUN	S	1500	1.0	1720.	78.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	70.20	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.1	2300.	78.50	0.0	25.5	12.7	0.0	0.0	38.2
07 JUN	S	1700	21.2	2480.	91.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	75.90	0.0	65.8	737.4	0.0	0.0	803.2
	B		20.6	2580.	100.60	0.0	9.9	357.7	0.0	0.0	367.6
07 JUN	S	1900	20.9	2400.	117.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	97.70	0.0	10.2	0.0	0.0	0.0	10.2
	B		20.7	3200.	102.20	0.0	0.0	0.0	0.0	0.0	0.0
07 JUN	S	2100	19.6	2000.	113.40	0.0	8.8	0.0	0.0	0.0	8.8
	M		--	--	106.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.2	3550.	101.40	0.0	0.0	0.0	0.0	0.0	0.0
07 JUN	S	2300	20.0	2300.	115.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	97.50	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.0	2200.	120.50	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	0100	19.5	1900.	106.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	49.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.6	1950.	107.00	0.0	37.4	0.0	0.0	0.0	37.4
08 JUN	S	0300	19.5	1580.	86.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	81.10	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.4	1480.	93.00	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	0521	21.0	2500.	113.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	97.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.5	2600.	104.70	0.0	0.0	0.0	0.0	0.0	0.0

TABLE I.1-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
08 JUN	S	0701	19.6	1800.	86.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	91.50	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.6	4550.	104.10	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	0901	19.1	1900.	98.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	67.60	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.0	4200.	66.80	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1101	20.0	2200.	102.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	106.00	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.0	2700.	87.90	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1300	19.4	1480.	136.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	119.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.4	1420.	109.60	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1500	19.2	1100.	140.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	119.80	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.4	1100.	138.60	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1700	21.4	2200.	104.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	101.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.4	2250.	127.80	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1900	21.4	2250.	76.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	95.60	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.8	2550.	102.70	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	2100	19.5	1400.	123.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	116.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.2	4000.	109.10	0.0	18.3	284.0	0.0	0.0	302.3
08 JUN	S	2300	19.7	2050.	167.00	0.0	12.0	347.4	0.0	0.0	359.4
	M		--	--	81.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.8	3280.	143.50	0.0	0.0	0.0	0.0	0.0	0.0

TABLE I. (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
09 JUN	S	0100	19.5	1900.	91.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	78.00	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.5	1900.	89.70	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	0300	20.5	1600.	61.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	54.00	0.0	18.5	426.1	0.0	0.0	444.6
	B		19.5	1700.	57.50	0.0	34.8	1200.2	0.0	0.0	1235.0
09 JUN	S	0502	21.0	2560.	117.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	93.50	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.2	2540.	121.50	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	0700	20.7	2940.	114.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	102.30	0.0	9.8	0.0	0.0	0.0	9.8
	B		19.6	5180.	113.30	0.0	8.8	706.3	0.0	0.0	715.1
09 JUN	S	0900	20.9	2980.	116.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	94.20	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.8	5180.	109.70	0.0	9.1	656.5	0.0	0.0	665.6
09 JUN	S	1102	19.4	2200.	101.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	97.50	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.4	4420.	86.70	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	1300	19.3	1960.	107.80	0.0	18.6	102.1	0.0	0.0	120.7
	M		--	--	100.10	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.6	2640.	106.00	0.0	18.9	717.2	0.0	0.0	736.1
09 JUN	S	1500	19.5	2340.	88.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	96.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.8	2340.	113.70	0.0	0.0	0.0	0.0	0.0	0.0

(a) Includes all sampling dates when striped bass were collected at this station.
(b) Total density of striped bass life stages collected, excluding eggs.
(c) Data excluded from analysis because of extremely high or low sample volume.

Note: Dashes (--) indicate data not available.
S = surface; M = middepth; B = bottom
YSL = yolk-sac larvae; PYSL = post yolk-sac larvae; JUV = juveniles; UID = unidentified life stages

TABLE I.2-1 ABUNDANCES OF STRIPED BASS EARLY DEVELOPMENTAL STAGES COLLECTED AT STATION RC DURING THE RIVER TRANSECT STUDY, INDIAN POINT GENERATING STATION, 1977

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M)					
						EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
03 MAY	S	1430	--	--	141.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	135.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	142.80	0.0	0.0	0.0	0.0	0.0	0.0
03 MAY	S	1630	--	--	115.40	8.7	0.0	0.0	0.0	0.0	0.0
	M		--	--	104.10	38.4	0.0	0.0	0.0	0.0	0.0
	B		--	--	108.20	37.0	0.0	0.0	0.0	0.0	0.0
03 MAY	S	1903	--	--	145.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	117.90	118.8	0.0	0.0	0.0	0.0	0.0
	B		--	--	128.10	23.4	0.0	0.0	0.0	0.0	0.0
10 MAY	S	1435	--	--	142.70	14.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	123.80	88.9	64.6	0.0	0.0	0.0	64.6
	B		--	--	141.20	595.0	28.3	0.0	0.0	0.0	28.3
10 MAY	S	1630	--	--	150.40	0.0	13.3	0.0	0.0	0.0	13.3
	M		--	--	145.40	0.0	75.6	0.0	0.0	0.0	75.6
	B		--	--	163.20	79.6	12.3	0.0	0.0	0.0	12.3
10 MAY	S	1831	--	--	141.30	0.0	21.2	0.0	0.0	0.0	21.2
	M		--	--	134.70	0.0	133.7	0.0	0.0	0.0	133.7
	B		--	--	135.00	163.0	103.7	0.0	0.0	0.0	103.7
10 MAY	S	2030	--	--	154.80	0.0	484.5	0.0	0.0	0.0	484.5
	M		--	--	129.50	7.7	308.9	0.0	0.0	0.0	308.9
	B		--	--	154.60	19.4	58.2	0.0	0.0	0.0	58.2
10 MAY	S	2231	--	--	139.30	0.0	179.5	0.0	0.0	0.0	179.5
	M		--	--	117.70	68.0	280.3	0.0	0.0	0.0	280.3
	B		--	--	137.60	428.8	43.6	0.0	0.0	0.0	43.6

TABLE I.2-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
11 MAY	S	0030	--	--	146.60	20.5	0.0	0.0	0.0	0.0	0.0
	M		--	--	122.60	220.3	89.8	0.0	0.0	0.0	89.8
	B		--	--	125.80	842.5	166.9	0.0	0.0	0.0	166.9
11 MAY	S	0231	--	--	149.30	0.0	13.4	0.0	0.0	0.0	13.4
	M		--	--	123.10	0.0	24.4	0.0	0.0	0.0	24.4
	B		--	--	126.50	0.0	0.0	0.0	0.0	0.0	0.0
17 MAY	S	1504	--	--	124.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	112.60	33.5	71.1	0.0	0.0	0.0	71.1
	B		--	--	119.90	833.9	25.0	0.0	0.0	0.0	25.0
17 MAY	S	1633	--	--	153.00	19.6	0.0	0.0	0.0	0.0	0.0
	M		--	--	70.50	1219.2	0.0	0.0	0.0	0.0	0.0
	B		--	--	140.30	85.6	49.9	0.0	0.0	0.0	49.9
17 MAY	S	1922	--	--	146.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	140.40	142.4	42.7	0.0	0.0	0.0	42.7
	B		--	--	155.10	154.7	0.0	0.0	0.0	0.0	0.0
17 MAY	S	2032	--	--	129.80	7.7	7.7	0.0	0.0	0.0	7.7
	M		--	--	64.10	78.1	78.1	0.0	0.0	0.0	78.1
	B		--	--	74.00	391.8	108.1	0.0	0.0	0.0	108.1
17 MAY	S	2230	--	--	147.90	0.0	33.8	6.8	0.0	0.0	40.6
	M		--	--	153.40	13.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	143.80	222.5	34.8	0.0	0.0	0.0	34.8
18 MAY	S	0030	--	--	143.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	179.20	22.3	16.7	0.0	0.0	0.0	16.7
	B		--	--	130.50	76.6	23.0	0.0	0.0	0.0	23.0

TABLE I.2-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
18 MAY	S	0235	--	--	155.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	94.20	53.1	212.3	0.0	0.0	0.0	212.3
	B		--	--	148.90	47.0	26.9	0.0	0.0	0.0	26.9
18 MAY	S	0430	--	--	110.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	101.90	0.0	19.6	0.0	0.0	0.0	19.6
	B		--	--	100.40	726.8	10.0	29.9	0.0	0.0	39.9
18 MAY	S	0630	--	--	142.00	21.1	0.0	0.0	0.0	0.0	0.0
	M		--	--	126.20	95.1	55.4	0.0	0.0	0.0	55.4
	B		--	--	119.90	642.2	25.0	0.0	0.0	0.0	25.0
18 MAY	S	0833	--	--	134.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	122.10	614.0	90.1	0.0	0.0	0.0	90.1
	B		--	--	126.20	31.7	15.8	7.9	0.0	0.0	23.7
18 MAY	S	1030	--	--	140.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	128.00	15.6	0.0	0.0	0.0	0.0	0.0
	B		--	--	119.80	442.5	75.1	0.0	0.0	0.0	75.1
18 MAY	S	1230	--	--	98.00	0.0	10.2	0.0	0.0	0.0	10.2
	M		--	--	141.00	7.1	49.7	0.0	0.0	0.0	49.7
	B		--	--	132.20	7.6	7.6	0.0	0.0	0.0	7.6
18 MAY	S	1430	--	--	158.70	6.3	0.0	0.0	0.0	0.0	0.0
	M		--	--	139.70	200.4	71.6	0.0	0.0	0.0	71.6
	B		--	--	132.40	90.6	166.1	7.6	0.0	0.0	173.7
18 MAY	S	1630	--	--	141.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	124.10	32.2	32.2	8.1	0.0	0.0	40.3
	B		--	--	125.00	2488.5	88.0	0.0	0.0	0.0	88.0
18 MAY	S	1830	--	--	156.00	6.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	146.20	205.2	41.0	0.0	0.0	0.0	41.0
	B		--	--	138.10	847.3	108.6	0.0	0.0	0.0	108.6

TABLE I. (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
18 MAY	S	2030	--	--	165.90	0.0	18.1	0.0	0.0	0.0	18.1
	M		--	--	146.10	0.0	54.8	20.5	0.0	0.0	75.3
	B		--	--	163.30	0.0	0.0	0.0	0.0	0.0	0.0
19 MAY	S	0030	--	--	124.50	0.0	120.4	0.0	0.0	0.0	120.4
	M		--	--	105.40	9.5	142.2	0.0	0.0	0.0	142.2
	B		--	--	119.40	243.0	75.4	0.0	0.0	0.0	75.4
19 MAY	S	0242	--	--	124.60	0.0	32.1	0.0	0.0	0.0	32.1
	M		--	--	96.30	93.5	207.7	0.0	0.0	0.0	207.7
	B		--	--	115.00	43.5	17.4	0.0	0.0	0.0	17.4
19 MAY	S	0430	--	--	115.20	790.0	34.7	0.0	0.0	0.0	34.7
	M		--	--	99.70	30.1	210.6	0.0	0.0	0.0	210.6
	B		--	--	105.20	0.0	19.0	0.0	0.0	0.0	19.0
19 MAY	S	0630	--	--	139.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	121.60	222.0	82.2	0.0	0.0	0.0	82.2
	B		--	--	116.40	1331.4	309.2	0.0	0.0	0.0	309.2
19 MAY	S	0830	--	--	143.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	127.00	488.4	189.0	0.0	0.0	0.0	189.0
	B		--	--	131.40	68.5	296.8	30.4	0.0	0.0	327.2
19 MAY	S	1030	--	--	141.90	7.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	122.70	187.4	260.8	0.0	0.0	0.0	260.8
	B		--	--	133.00	338.3	75.2	0.0	0.0	0.0	75.2
19 MAY	S	1230	--	--	148.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	139.70	0.0	93.0	0.0	0.0	0.0	93.0
	B		--	--	145.90	27.4	54.8	0.0	0.0	0.0	54.8

TABLE I.2-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
19 MAY	S	1450	--	--	140.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	120.90	41.4	165.5	0.0	0.0	0.0	165.5
	B		--	--	130.10	23.1	15.4	0.0	0.0	0.0	15.4
24 MAY	S	1500	--	--	176.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	156.90	6.4	57.4	89.2	0.0	0.0	146.6
	B		--	--	154.40	32.4	90.7	51.8	0.0	0.0	142.5
24 MAY	S	1630	--	--	--	--	--	--	--	--	--
	M		--	--	148.70	20.2	107.6	80.7	0.0	0.0	188.3
	B		--	--	154.60	6.5	58.2	0.0	0.0	0.0	58.2
24 MAY	S	1833	--	--	142.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	--	--	--	--	--	--	--
	B		--	--	174.00	63.2	51.7	57.5	0.0	0.0	109.2
24 MAY	S	2030	--	--	182.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	153.10	6.5	104.5	52.2	0.0	0.0	156.7
	B		--	--	172.80	283.6	0.0	0.0	0.0	0.0	0.0
24 MAY	S	2230	--	--	163.60	0.0	18.3	122.3	0.0	0.0	140.6
	M		--	--	133.00	15.0	90.3	22.6	0.0	0.0	112.9
	B		--	--	156.10	2068.8	32.0	0.0	0.0	0.0	32.0
24 MAY	S	1647	--	--	54.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	134.50	52.1	148.7	81.8	0.0	0.0	230.5
	B		--	--	--	--	--	--	--	--	--
25 MAY	S	0030	--	--	176.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	144.90	13.8	144.9	124.2	0.0	0.0	269.1
	B		--	--	174.10	252.7	63.2	5.7	0.0	0.0	68.9

TABLE I.[illegible] (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
25 MAY	S	0230	--	--	166.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	138.30	0.0	72.3	43.4	0.0	0.0	115.7
	B		--	--	153.60	39.1	39.1	0.0	0.0	0.0	39.1
25 MAY	S	0430	--	--	144.70	0.0	62.2	89.8	0.0	0.0	152.0
	M		--	--	126.00	0.0	63.5	47.6	0.0	0.0	111.1
	B		--	--	121.10	677.2	16.5	8.3	0.0	0.0	24.8
25 MAY	S	0630	--	--	147.60	6.8	0.0	0.0	0.0	0.0	0.0
	M		--	--	122.50	114.3	106.1	57.1	0.0	0.0	163.2
	B		--	--	126.30	7.9	23.8	15.8	0.0	0.0	39.6
25 MAY	S	0830	--	--	153.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	129.30	15.5	0.0	0.0	0.0	0.0	0.0
	B		--	--	145.90	418.1	41.1	27.4	0.0	0.0	68.5
25 MAY	S	1030	--	--	151.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	135.40	0.0	14.8	7.4	0.0	0.0	22.2
	B		--	--	137.00	394.2	7.3	29.2	0.0	0.0	36.5
25 MAY	S	1230	--	--	150.60	6.6	0.0	0.0	0.0	0.0	0.0
	M		--	--	127.90	70.4	15.6	46.9	0.0	0.0	62.5
	B		--	--	136.80	292.5	277.9	0.0	0.0	0.0	277.9
25 MAY	S	1430	--	--	153.80	6.5	0.0	0.0	0.0	0.0	0.0
	M		--	--	128.80	38.8	54.4	93.2	0.0	0.0	147.6
	B		--	--	142.80	7.0	21.0	0.0	0.0	0.0	21.0
25 MAY	S	1635	--	--	174.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	148.40	0.0	33.7	208.9	0.0	0.0	242.6
	B		--	--	152.40	0.0	32.8	45.9	0.0	0.0	78.7
25 MAY	S	1830	--	--	165.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	(C)	(C)	(C)	(C)	(C)	(C)	(C)
	B		--	--	161.20	0.0	136.5	49.6	0.0	0.0	186.1

TABLE I.2-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
25 MAY	S	2030	--	--	172.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	145.80	20.6	89.2	82.3	0.0	0.0	171.5
	B		--	--	163.40	36.7	0.0	0.0	0.0	0.0	0.0
25 MAY	S	2230	--	--	180.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	154.60	0.0	122.9	58.2	0.0	0.0	181.1
	B		--	--	175.80	22.7	0.0	0.0	0.0	0.0	0.0
26 MAY	S	0447	--	--	148.70	6.7	6.7	6.7	0.0	0.0	13.4
	M		--	--	130.00	7.7	176.9	76.9	0.0	0.0	253.8
	B		--	--	130.50	283.5	61.3	0.0	0.0	0.0	61.3
26 MAY	S	0630	--	--	139.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	119.90	0.0	16.7	58.4	0.0	0.0	75.1
	B		--	--	126.40	31.6	189.8	31.6	0.0	0.0	221.4
26 MAY	S	0830	--	--	141.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	115.60	0.0	155.7	86.5	0.0	0.0	242.2
	B		--	--	126.20	39.6	23.8	71.3	0.0	0.0	95.1
26 MAY	S	1030	--	--	141.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	113.30	0.0	70.6	26.5	0.0	0.0	97.1
	B		--	--	114.20	52.5	140.1	35.0	0.0	0.0	175.1
26 MAY	S	1230	--	--	142.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	112.50	168.9	35.6	62.2	0.0	0.0	97.8
	B		--	--	123.30	162.2	543.3	40.5	0.0	0.0	583.8
26 MAY	S	1430	--	--	140.50	0.0	7.1	0.0	0.0	0.0	7.1
	M		--	--	119.10	16.8	8.4	42.0	0.0	0.0	50.4
	B		--	--	125.40	127.5	789.2	15.9	0.0	0.0	805.1

TABLE I[illegible] (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
31 MAY	S	1459	--	--	161.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	141.70	0.0	35.3	924.8	0.0	0.0	960.1
	B		--	--	137.40	0.0	43.7	371.2	0.0	0.0	414.9
31 MAY	S	1659	--	--	153.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	115.20	0.0	95.5	95.5	0.0	0.0	191.0
	B		--	--	99.10	0.0	1393.1	545.1	0.0	0.0	1938.2
31 MAY	S	1900	--	--	118.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	84.20	0.0	118.7	949.6	0.0	0.0	1068.3
	B		--	--	100.20	10.0	718.4	269.4	0.0	0.0	987.8
31 MAY	S	2100	--	--	120.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	100.90	0.0	29.7	49.5	0.0	0.0	79.2
	B		--	--	49.80	0.0	301.0	361.2	0.0	0.0	662.2
31 MAY	S	2301	--	--	116.60	0.0	8.6	145.8	0.0	0.0	154.4
	M		--	--	103.50	0.0	9.7	260.9	0.0	0.0	270.6
	B		--	--	108.30	0.0	9.2	147.7	0.0	0.0	156.9
01 JUN	S	0102	--	--	155.20	0.0	6.4	0.0	0.0	0.0	6.4
	M		--	--	108.70	0.0	9.2	303.6	0.0	0.0	312.8
	B		--	--	120.50	0.0	0.0	0.0	0.0	0.0	0.0
01 JUN	S	0300	--	--	151.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	125.50	0.0	15.9	286.8	0.0	0.0	302.7
	B		--	--	118.70	0.0	8.4	16.8	0.0	0.0	25.2
07 JUN	S	1522	--	--	137.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	126.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	143.30	0.0	14.0	0.0	0.0	0.0	14.0
07 JUN	S	1700	--	--	148.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	128.60	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	137.90	0.0	0.0	0.0	0.0	0.0	0.0

TABLE I.2-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
07 JUN	S	1903	--	--	124.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	113.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	140.90	0.0	0.0	0.0	0.0	0.0	0.0
07 JUN	S	2100	--	--	171.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	143.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	148.70	0.0	0.0	0.0	0.0	0.0	0.0
07 JUN	S	2301	--	--	142.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	121.10	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	139.00	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	0100	--	--	153.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	129.10	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	146.50	0.0	20.5	0.0	0.0	0.0	20.5
08 JUN	S	0300	--	--	154.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	128.50	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	150.30	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	0505	--	--	162.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	138.00	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	134.30	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	0700	--	--	143.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	129.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	126.90	0.0	7.9	346.6	0.0	0.0	354.5
08 JUN	S	0900	--	--	168.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	147.80	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	134.40	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1100	--	--	157.00	6.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	142.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	126.40	7.9	0.0	0.0	0.0	0.0	0.0

TABLE I. (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
08 JUN	S	1500	--	--	148.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	129.20	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	130.80	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1700	--	--	138.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	124.60	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	121.70	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1900	--	--	144.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	133.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	127.10	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	2300	--	--	156.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	141.10	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	122.20	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1318	--	--	173.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	169.00	0.0	11.8	0.0	0.0	0.0	11.8
	B		--	--	179.90	0.0	16.7	1106.0	0.0	0.0	1122.7
09 JUN	S	0100	--	--	150.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	137.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	119.90	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	0300	--	--	135.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	118.60	0.0	8.4	986.2	0.0	0.0	994.6
	B		--	--	109.60	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	0500	--	--	161.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	172.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	179.60	0.0	0.0	0.0	0.0	0.0	0.0

TABLE I.2-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
09 JUN	S	0700	--	--	175.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	175.80	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	166.40	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	0900	--	--	175.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	152.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	127.90	0.0	15.6	0.0	0.0	0.0	15.6
09 JUN	S	1100	--	--	55.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	157.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	127.50	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	1300	--	--	176.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	168.60	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	150.60	0.0	6.6	0.0	0.0	0.0	6.6
09 JUN	S	1500	--	--	168.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	169.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)

(a) Includes all sampling dates when striped bass were collected at this station.
(b) Total density of striped bass life stages collected, excluding eggs.
(c) Data excluded from analysis because of extremely high or low sample volume.

Note: Dashes (--) indicate data not available.
S = surface; M = middepth; B = bottom
YSL = yolk-sac larvae; PYSL = post yolk-sac larvae; JUV = juvenile; UID = inidentified life stage

TABLE 1.3-1 ABUNDANCES OF STRIPED BASS EARLY DEVELOPMENTAL STAGES COLLECTED AT STATION RW DURING THE RIVER TRANSECT STUDY, INDIAN POINT GENERATING STATION, 1977

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M)					
						EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
03 MAY	S	1431	--	--	140.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	125.10	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	129.00	0.0	0.0	0.0	0.0	0.0	0.0
03 MAY	S	1631	--	--	132.60	22.6	0.0	0.0	0.0	0.0	0.0
	M		--	--	114.30	35.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	102.70	9.7	0.0	0.0	0.0	0.0	0.0
03 MAY	S	1831	--	--	151.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	127.20	7.9	0.0	0.0	0.0	0.0	0.0
	B		--	--	127.50	13.7	0.0	0.0	0.0	0.0	0.0
03 MAY	S	2031	--	--	138.90	7.2	0.0	0.0	0.0	0.0	0.0
	M		--	--	119.20	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	118.30	152.2	0.0	0.0	0.0	0.0	0.0
03 MAY	S	2234	--	--	136.00	7.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	61.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	163.70	24.4	6.1	0.0	0.0	0.0	6.1
04 MAY	S	0031	--	--	133.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	116.20	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	111.40	9.0	0.0	0.0	0.0	0.0	0.0
04 MAY	S	0232	--	--	115.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	99.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	111.10	0.0	0.0	0.0	0.0	0.0	0.0
10 MAY	S	1437	--	--	146.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	123.10	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	137.50	167.3	65.5	0.0	0.0	0.0	65.5
10 MAY	S	1632	--	--	124.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	99.90	0.0	10.0	0.0	0.0	0.0	10.0
	B		--	--	102.30	928.6	166.2	0.0	0.0	0.0	166.2

TABLE I.3-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
10 MAY	S	1831	--	--	115.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	107.70	33.7	74.3	0.0	0.0	0.0	74.3
	B		--	--	90.90	450.8	362.8	0.0	0.0	0.0	362.8
10 MAY	S	2030	--	--	145.80	0.0	89.1	0.0	0.0	0.0	89.1
	M		--	--	119.60	16.7	125.5	0.0	0.0	0.0	125.5
	B		--	--	131.80	83.5	91.1	0.0	0.0	0.0	91.1
10 MAY	S	2231	--	--	149.50	40.1	6.7	0.0	0.0	0.0	6.7
	M		--	--	129.20	23.2	7.7	0.0	0.0	0.0	7.7
	B		--	--	125.90	500.4	47.7	0.0	0.0	0.0	47.7
11 MAY	S	0031	--	--	156.30	6.4	32.0	0.0	0.0	0.0	32.0
	M		--	--	133.10	22.5	37.6	0.0	0.0	0.0	37.6
	B		--	--	133.20	960.7	127.6	0.0	0.0	0.0	127.6
11 MAY	S	0230	--	--	132.20	0.0	37.8	0.0	0.0	0.0	37.8
	M		--	--	111.00	0.0	81.1	0.0	0.0	0.0	81.1
	B		--	--	115.30	251.5	346.9	0.0	0.0	0.0	346.9
17 MAY	S	1501	16.3	--	131.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	143.90	20.9	0.0	0.0	0.0	0.0	0.0
	B		15.6	200.	125.90	127.1	7.9	0.0	0.0	0.0	7.9
17 MAY	S	1632	15.4	240.	127.30	23.6	0.0	0.0	0.0	0.0	0.0
	M		--	--	114.70	87.2	0.0	0.0	0.0	0.0	0.0
	B		15.2	190.	114.10	394.5	52.6	0.0	0.0	0.0	52.6
17 MAY	S	1830	14.6	200.	144.40	6.9	0.0	0.0	0.0	0.0	0.0
	M		--	--	126.50	15.8	0.0	0.0	0.0	0.0	0.0
	B		14.7	140.	125.30	566.5	71.8	0.0	0.0	0.0	71.8
17 MAY	S	2032	16.3	170.	125.60	0.0	8.0	0.0	0.0	0.0	8.0
	M		--	--	111.80	0.0	17.9	0.0	0.0	0.0	17.9
	B		14.2	190.	118.20	2935.0	355.2	0.0	0.0	0.0	355.2

TABLE I. (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
17 MAY	S	2230	14.5	460.	143.80	0.0	34.8	0.0	0.0	0.0	34.8
	M		--	--	128.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		14.5	90.	131.50	83.7	7.6	0.0	0.0	0.0	7.6
18 MAY	S	0032	14.6	120.	139.10	0.0	35.9	0.0	0.0	0.0	35.9
	M		--	--	128.80	7.8	15.5	0.0	0.0	0.0	15.5
	B		14.6	120.	124.70	144.4	24.1	0.0	0.0	0.0	24.1
18 MAY	S	0231	15.4	60.	158.40	0.0	18.9	0.0	0.0	0.0	18.9
	M		--	--	141.00	0.0	21.3	0.0	0.0	0.0	21.3
	B		14.8	40.	159.00	0.0	12.6	0.0	0.0	0.0	12.6
18 MAY	S	0430	14.8	100.	101.80	9.8	19.6	0.0	0.0	0.0	19.6
	M		--	--	121.40	16.5	16.5	0.0	0.0	0.0	16.5
	B		14.9	0.	44.10	0.0	45.3	0.0	0.0	0.0	45.3
18 MAY	S	0631	14.2	100.	129.00	31.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	113.80	35.1	0.0	0.0	0.0	0.0	0.0
	B		14.5	100.	116.40	610.0	223.4	0.0	0.0	0.0	223.4
18 MAY	S	0831	14.8	100.	140.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	123.10	0.0	0.0	0.0	0.0	0.0	0.0
	B		14.8	100.	128.60	85.6	264.4	0.0	0.0	0.0	264.4
18 MAY	S	1030	16.1	0.	142.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	122.20	0.0	0.0	0.0	0.0	0.0	0.0
	B		14.8	100.	118.80	311.4	42.1	8.4	0.0	0.0	50.5
18 MAY	S	1230	15.6	100.	122.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	101.90	88.4	9.8	9.8	0.0	0.0	19.6
	B		15.1	100.	93.10	386.7	53.7	0.0	0.0	0.0	53.7

TABLE I.3-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
18 MAY	S	1430	16.0	150.	153.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	133.40	7.5	0.0	0.0	0.0	0.0	0.0
	B		15.3	100.	142.30	14.1	7.0	0.0	0.0	0.0	7.0
18 MAY	S	1701	15.9	90.	148.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	128.20	109.2	31.2	0.0	0.0	0.0	31.2
	B		15.5	80.	122.50	253.1	98.0	0.0	0.0	0.0	98.0
18 MAY	S	1830	15.4	60.	156.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	132.70	233.6	7.5	0.0	0.0	0.0	7.5
	B		14.7	100.	125.90	516.2	143.0	0.0	0.0	0.0	143.0
18 MAY	S	2031	14.4	100.	147.10	0.0	6.8	0.0	0.0	0.0	6.8
	M		--	--	129.50	0.0	69.5	0.0	0.0	0.0	69.5
	B		14.6	100.	130.50	183.9	122.6	0.0	0.0	0.0	122.6
18 MAY	S	2230	--	--	(c)	(c)	(c)	(c)	(c)	(c)	(c)
	M		--	--	113.00	88.5	35.4	0.0	0.0	0.0	35.4
	B		15.2	100.	109.60	1377.2	73.0	0.0	0.0	0.0	73.0
19 MAY	S	0032	16.0	100.	113.40	0.0	61.7	0.0	0.0	0.0	61.7
	M		--	--	103.30	29.0	19.4	0.0	0.0	0.0	19.4
	B		15.5	100.	100.00	479.9	70.0	0.0	0.0	0.0	70.0
19 MAY	S	0231	15.6	60.	129.80	0.0	69.3	0.0	0.0	0.0	69.3
	M		--	--	114.30	0.0	17.5	0.0	0.0	0.0	17.5
	B		15.3	50.	129.20	54.2	23.2	0.0	0.0	0.0	23.2
19 MAY	S	0430	15.3	100.	116.30	0.0	43.0	0.0	0.0	0.0	43.0
	M		--	--	106.10	66.0	94.3	0.0	0.0	0.0	94.3
	B		15.9	100.	100.20	748.4	69.8	0.0	0.0	0.0	69.8
19 MAY	S	0630	15.4	100.	141.50	14.1	0.0	0.0	0.0	0.0	0.0
	M		--	--	114.60	322.8	43.6	0.0	0.0	0.0	43.6
	B		15.4	0.	104.10	1210.5	76.9	0.0	0.0	0.0	76.9

TABLE I[illegible] (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
19 MAY	S	0830	15.4	200.	129.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	121.80	32.8	82.1	0.0	0.0	0.0	82.1
	B		15.3	50.	130.60	206.8	206.8	7.7	0.0	0.0	214.5
19 MAY	S	1031	15.4	100.	135.20	0.0	22.2	0.0	0.0	0.0	22.2
	M		--	--	128.40	0.0	46.7	0.0	0.0	0.0	46.7
	B		15.3	100.	118.30	1005.9	752.3	42.3	0.0	0.0	794.6
19 MAY	S	1230	16.1	100.	158.30	0.0	12.6	0.0	0.0	0.0	12.6
	M		--	--	150.60	0.0	33.2	0.0	0.0	0.0	33.2
	B		15.2	50.	128.80	217.4	163.1	0.0	0.0	0.0	163.1
19 MAY	S	1430	16.4	100.	134.60	0.0	7.4	0.0	0.0	0.0	7.4
	M		--	--	119.10	0.0	33.6	0.0	0.0	0.0	33.6
	B		15.6	100.	108.60	119.7	138.1	9.2	0.0	0.0	147.3
24 MAY	S	1500	19.7	40.	127.40	0.0	7.9	0.0	0.0	0.0	7.9
	M		--	--	116.60	0.0	17.2	8.6	0.0	0.0	25.8
	B		17.6	40.	115.40	355.4	372.7	34.7	0.0	0.0	407.4
24 MAY	S	1629	19.9	200.	157.10	0.0	6.4	0.0	0.0	0.0	6.4
	M		--	--	125.20	71.9	8.0	8.0	0.0	0.0	16.0
	B		18.5	100.	105.80	425.2	406.3	0.0	0.0	0.0	406.3
24 MAY	S	1830	20.3	170.	138.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	115.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.4	170.	127.90	0.0	164.2	23.5	0.0	0.0	187.7
24 MAY	S	2030	20.0	190.	145.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	132.80	0.0	7.5	22.6	0.0	0.0	30.1
	B		19.5	120.	80.40	111.9	37.3	0.0	0.0	0.0	37.3
24 MAY	S	2229	18.3	100.	137.80	7.3	232.2	166.9	0.0	0.0	399.1
	M		--	--	129.50	46.3	115.8	46.3	0.0	0.0	162.1
	B		18.5	100.	124.90	328.3	176.1	8.0	0.0	0.0	184.1

TABLE I.3-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
25 MAY	S	0030	17.6	170.	127.70	0.0	180.1	70.5	0.0	0.0	250.6
	M		--	--	113.50	0.0	0.0	0.0	0.0	0.0	0.0
	B		17.4	190.	116.10	249.9	284.4	25.9	0.0	0.0	310.3
25 MAY	S	0232	18.4	40.	148.90	0.0	20.1	47.0	0.0	0.0	67.1
	M		--	--	127.80	0.0	70.4	101.7	0.0	0.0	172.1
	B		17.6	160.	116.70	60.0	119.9	60.0	0.0	0.0	179.9
25 MAY	S	0431	--	100.	138.10	0.0	86.9	7.2	0.0	0.0	94.1
	M		--	--	107.50	9.3	9.3	9.3	0.0	0.0	18.6
	B		18.1	100.	97.60	1998.4	20.5	10.2	0.0	0.0	30.7
25 MAY	S	0631	19.3	150.	141.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	121.20	0.0	8.3	0.0	0.0	0.0	8.3
	B		18.8	100.	132.80	75.3	22.6	15.1	0.0	0.0	37.7
25 MAY	S	0835	19.8	200.	123.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	118.30	8.5	0.0	0.0	0.0	0.0	0.0
	B		18.8	100.	115.70	423.6	34.6	60.5	0.0	0.0	95.1
25 MAY	S	1031	18.6	200.	158.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	128.70	101.0	0.0	0.0	0.0	0.0	0.0
	B		18.2	100.	117.70	824.2	671.2	42.5	0.0	0.0	713.7
25 MAY	S	1231	19.8	50.	127.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	115.30	8.7	8.7	0.0	0.0	0.0	8.7
	B		18.1	100.	115.90	630.0	940.7	34.5	0.0	0.0	975.2
25 MAY	S	1430	20.7	100.	133.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	114.40	0.0	17.5	0.0	0.0	0.0	17.5
	B		17.6	100.	104.20	575.8	1017.3	0.0	0.0	0.0	1017.3
25 MAY	S	1639	20.0	100.	146.20	6.8	0.0	0.0	0.0	0.0	0.0
	M		--	--	114.20	8.8	17.5	87.6	0.0	0.0	105.1
	B		18.0	130.	107.30	55.9	410.1	0.0	0.0	0.0	410.1

TABLE I[illegible] (CONT.)

DATE (a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
25 MAY	S	1829	19.4	100.	128.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	117.30	0.0	25.6	34.1	0.0	0.0	59.7
	B		19.3	100.	106.60	9.4	206.4	18.8	0.0	0.0	225.2
25 MAY	S	2029	20.7	230.	151.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	139.20	0.0	28.7	79.0	0.0	0.0	107.7
	B		19.8	170.	151.60	0.0	0.0	0.0	0.0	0.0	0.0
25 MAY	S	2230	19.2	200.	139.60	0.0	50.2	107.5	0.0	0.0	157.7
	M		--	--	86.70	0.0	173.1	161.5	0.0	0.0	334.6
	B		19.0	210.	134.60	0.0	156.0	44.6	0.0	0.0	200.6
26 MAY	S	0033	17.8	220.	114.90	0.0	95.7	95.7	0.0	0.0	191.4
	M		--	--	104.50	28.7	143.5	133.9	0.0	0.0	277.4
	B		17.9	220.	112.90	203.8	141.8	70.9	0.0	0.0	212.7
26 MAY	S	0232	18.0	120.	143.30	0.0	62.8	27.9	0.0	0.0	90.7
	M		--	--	120.50	0.0	290.3	33.2	0.0	0.0	323.5
	B		17.9	170.	136.90	438.4	168.0	7.3	0.0	0.0	175.3
26 MAY	S	0431	18.7	140.	32.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	118.30	0.0	194.5	109.9	0.0	0.0	304.4
	B		18.6	150.	124.00	32.2	80.6	8.1	0.0	0.0	88.7
26 MAY	S	0630	19.1	200.	142.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	124.60	0.0	32.1	56.2	0.0	0.0	88.3
	B		18.8	100.	121.80	459.6	238.0	0.0	0.0	0.0	238.0
26 MAY	S	0831	19.6	150.	152.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	128.90	0.0	7.8	0.0	0.0	0.0	7.8
	B		19.3	50.	132.80	105.4	143.0	37.6	0.0	0.0	180.6
26 MAY	S	1030	19.2	180.	161.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	132.70	37.7	7.5	30.1	0.0	0.0	37.6
	B		18.8	150.	144.10	20.8	117.9	0.0	0.0	0.0	117.9

TABLE I.3-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
26 MAY	S	1230	18.6	240.	156.20	6.4	0.0	0.0	0.0	0.0	0.0
	M		--	--	131.10	144.9	15.3	30.5	0.0	0.0	45.8
	B		18.3	200.	125.00	399.9	951.9	32.0	0.0	0.0	983.9
26 MAY	S	1430	18.9	200.	136.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	124.00	8.1	0.0	0.0	0.0	0.0	0.0
	B		18.0	150.	137.40	298.3	2750.3	80.0	0.0	0.0	2830.3
31 MAY	S	1501	20.8	2640.	135.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	108.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.3	3320.	100.10	0.0	299.7	209.8	0.0	0.0	509.5
31 MAY	S	1701	19.9	2240.	158.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	142.00	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.9	2900.	111.10	0.0	504.2	99.0	0.0	0.0	603.2
31 MAY	S	1900	19.3	1400.	167.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	146.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.6	2250.	139.40	0.0	0.0	0.0	0.0	0.0	0.0
31 MAY	S	2115	19.8	1600.	167.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	144.00	0.0	0.0	0.0	0.0	0.0	0.0
	B		19.8	1600.	137.90	0.0	43.5	188.6	0.0	0.0	232.1
31 MAY	S	2301	20.1	3540.	188.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	139.80	0.0	7.2	0.0	0.0	0.0	7.2
	B		20.1	4120.	125.70	0.0	71.6	151.1	0.0	0.0	222.7
01 JUN	S	0100	20.0	4100.	136.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	113.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.0	4400.	117.40	0.0	0.0	0.0	0.0	0.0	0.0

TABLE I. (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
01 JUN	S	0300	19.9	3300.	175.40	0.0	5.1	46.1	0.0	0.0	51.2
	M		--	--	142.10	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.0	4000.	125.30	8.0	55.9	167.6	0.0	0.0	223.5
07 JUN	S	1503	22.2	1650.	123.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	110.00	0.0	0.0	0.0	0.0	0.0	0.0
	B		21.2	2100.	119.30	0.0	0.0	0.0	0.0	0.0	0.0
07 JUN	S	1701	20.6	2750.	98.70	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	88.50	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.6	3230.	84.30	0.0	0.0	0.0	0.0	0.0	0.0
07 JUN	S	1905	20.5	3400.	134.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	126.50	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.4	3650.	139.00	0.0	0.0	0.0	0.0	0.0	0.0
07 JUN	S	2100	20.8	2850.	154.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	134.60	0.0	0.0	0.0	0.0	0.0	0.0
	B		20.8	3150.	137.30	0.0	0.0	0.0	0.0	0.0	0.0
07 JUN	S	2301	20.0	1990.	144.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	126.70	0.0	7.9	0.0	0.0	0.0	7.9
	B		20.4	2100.	123.00	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	0102	--	--	149.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	134.60	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	136.10	0.0	7.3	462.7	0.0	0.0	470.0
08 JUN	S	0301	--	--	132.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	107.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	120.00	0.0	16.7	0.0	0.0	0.0	16.7
08 JUN	S	0502	--	--	160.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	136.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	123.40	0.0	0.0	0.0	0.0	0.0	0.0

TABLE I.3-1 (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
08 JUN	S	0734	--	--	141.60	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	125.60	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	175.80	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	0900	--	--	125.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	124.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	123.30	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1101	--	--	173.10	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	161.70	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	169.20	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1501	--	--	156.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	147.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	169.90	0.0	17.7	706.1	0.0	0.0	723.8
08 JUN	S	1702	--	--	110.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	113.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	126.40	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	1902	--	--	141.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	122.80	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	125.50	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	2102	--	--	129.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	119.30	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	128.80	0.0	0.0	0.0	0.0	0.0	0.0
08 JUN	S	2316	--	--	170.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	157.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	143.50	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	0101	--	--	151.50	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	128.00	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	118.70	0.0	0.0	0.0	0.0	0.0	0.0

TABLE I[illegible] (CONT.)

DATE(a)	DEPTH	TIME	TEMPERATURE (C)	CONDUCTIVITY (UMHO)	SAMPLE VOLUME (CU.M)	DENSITY (NO./1,000 CU.M) EGGS	YSL	PYSL	JUV	UID	TOTAL (b)
09 JUN	S	1105	--	--	164.90	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	151.10	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	112.60	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	1300	--	--	198.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	176.50	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	131.30	0.0	0.0	0.0	0.0	0.0	0.0
09 JUN	S	1501	--	--	164.00	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	158.90	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	138.80	0.0	0.0	0.0	0.0	0.0	0.0
14 JUN	S	1502	--	--	178.40	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	168.80	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	136.20	0.0	0.0	0.0	0.0	0.0	0.0
14 JUN	S	1701	--	--	143.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	143.40	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	122.20	0.0	0.0	0.0	0.0	0.0	0.0
14 JUN	S	1900	--	--	123.30	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	119.20	0.0	16.8	0.0	0.0	0.0	16.8
	B		--	--	92.60	0.0	399.6	0.0	0.0	0.0	399.6
14 JUN	S	2100	--	--	161.20	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	153.20	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	141.60	0.0	0.0	0.0	0.0	0.0	0.0
14 JUN	S	2300	--	--	151.80	0.0	0.0	0.0	0.0	0.0	0.0
	M		--	--	141.00	0.0	0.0	0.0	0.0	0.0	0.0
	B		--	--	100.70	0.0	0.0	0.0	0.0	0.0	0.0

(a) Includes all sampling dates when striped bass were collected at this station.
(b) Total density of striped bass life stages collected, excluding eggs.
(c) Data excluded from analysis because of high or low sample volume.

Note: Dashes (--) indicate data not available.
S = surface; M = middepth; B = bottom
YSL = yolk-sac larvae; PYSL = post yolk-sac larvae; JUV = juveniles; UID = unidentified life stage.

APPENDIX J

SEASONAL ABUNDANCE OF STRIPED BASS EARLY DEVELOPMENTAL STAGES AT RIVER TRANSECT STATIONS, INDIAN POINT GENERATING STATION, 1977

APPENDIX J FIGURES

	Title	Number
J.1	ABUNDANCE OF STRIPED BASS EARLY DEVELOPMENTAL STAGES	J.1-1
J.2	ABUNDANCE COMPARISON OF STRIPED BASS EARLY DEVELOPMENTAL STAGES COLLECTED AT RIVER TRANSECT STATIONS AND PLANT ENTRAINMENT STATIONS	
	Striped Bass Eggs	J.2-1
	Striped Bass Yolk-sac larvae	J.2-2
	Striped Bass Post Yolk-sac larvae	J.2-3

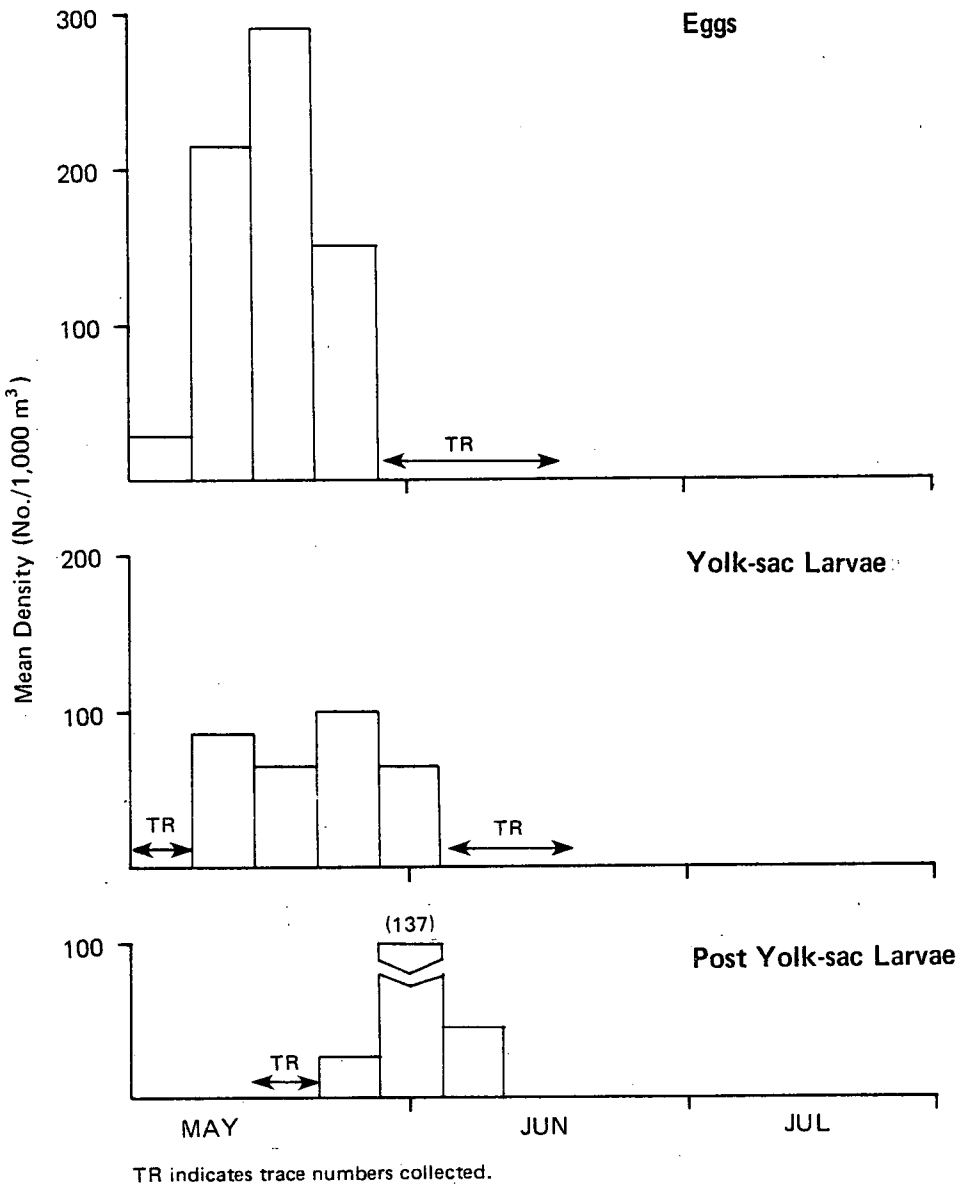


Figure J.1-1. Mean densities (averaged over all sampling depths, collection periods, and stations) of striped bass early developmental stages collected at the river transect stations, Indian Point Generating Station, 1977.

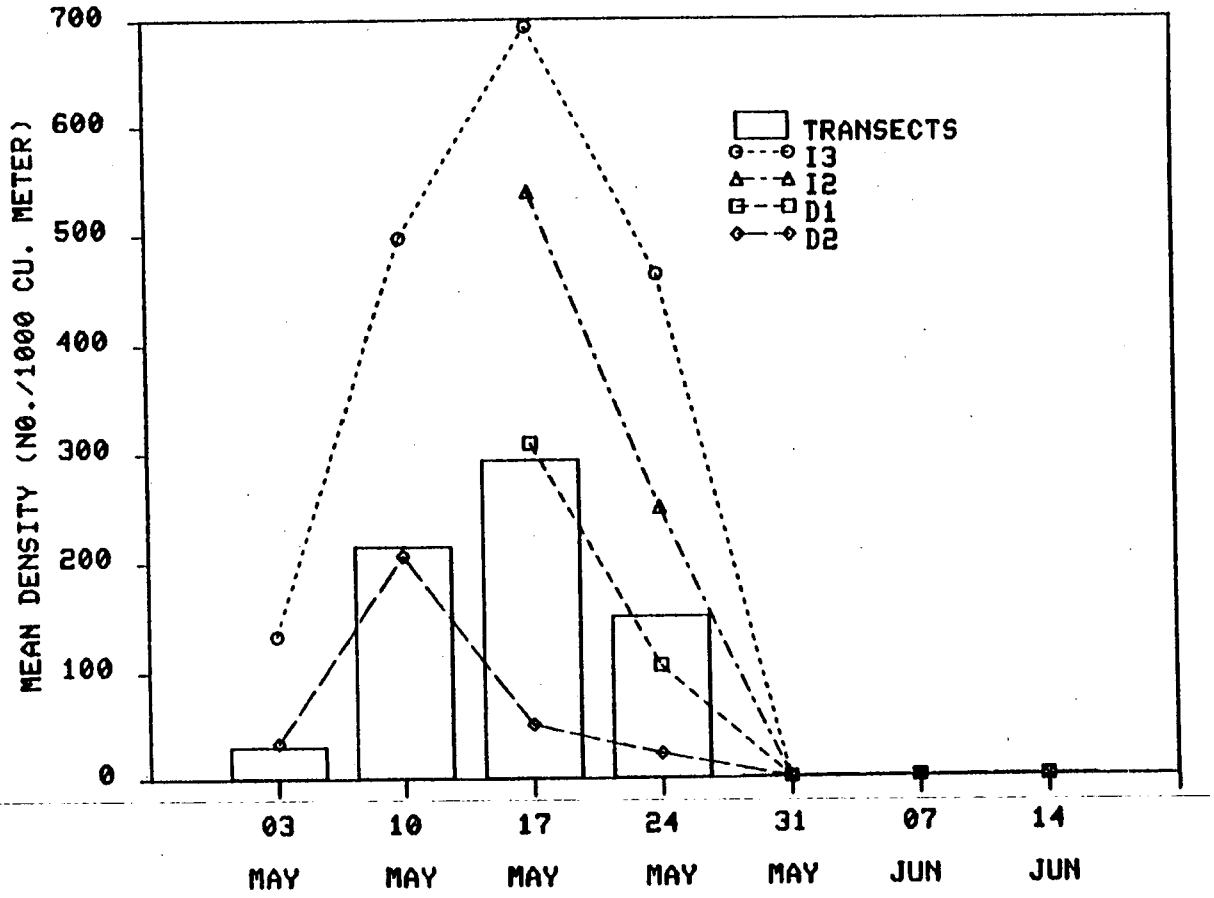


Figure J.2-1. Comparison of mean densities of striped bass eggs collected at intake Stations I2 and I3, discharge Stations D1 and D2, and at the river transect station, Indian Point Generating Station, 1977.

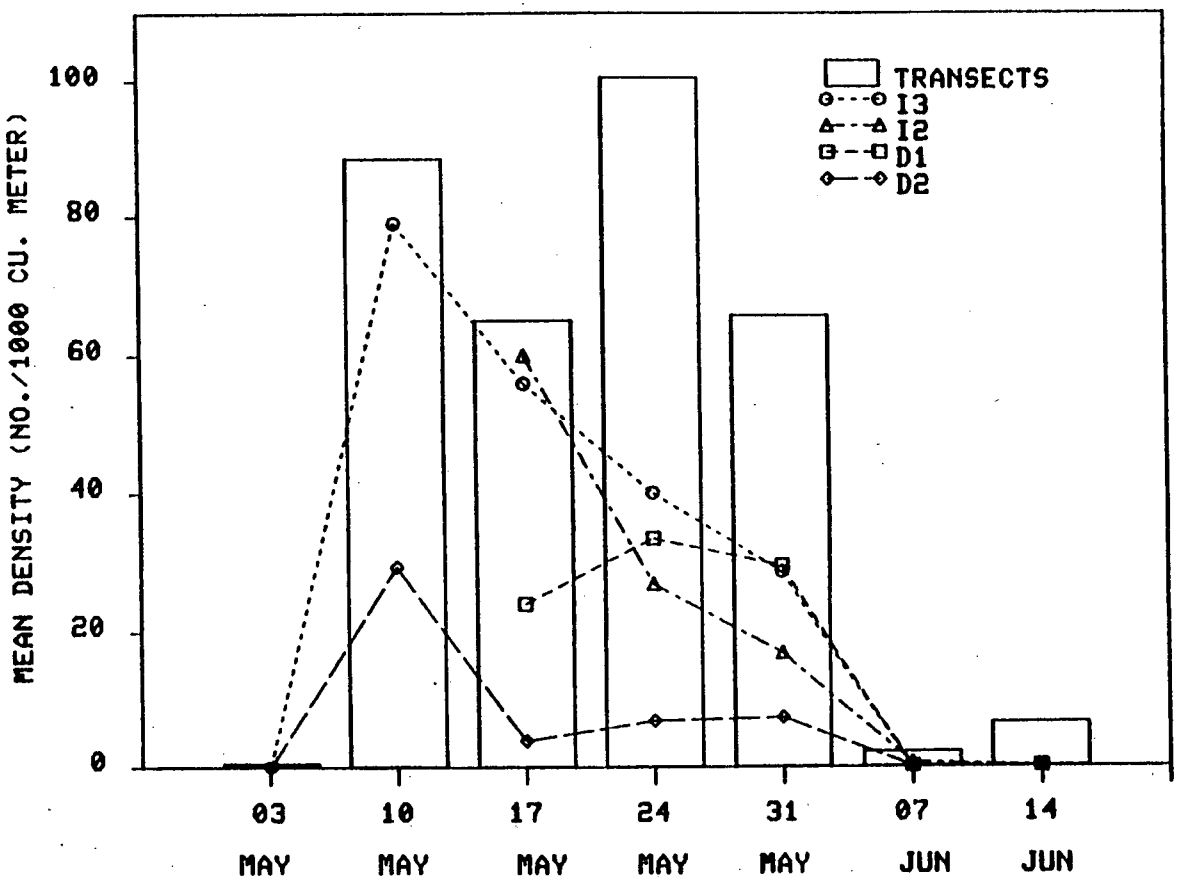


Figure J.2-2. Comparison of mean densities of striped bass yolk-sac larvae collected at intake Stations I2 and I3, discharge Stations D1 and D2, and at the river transect station, Indian Point Generating Station, 1977.

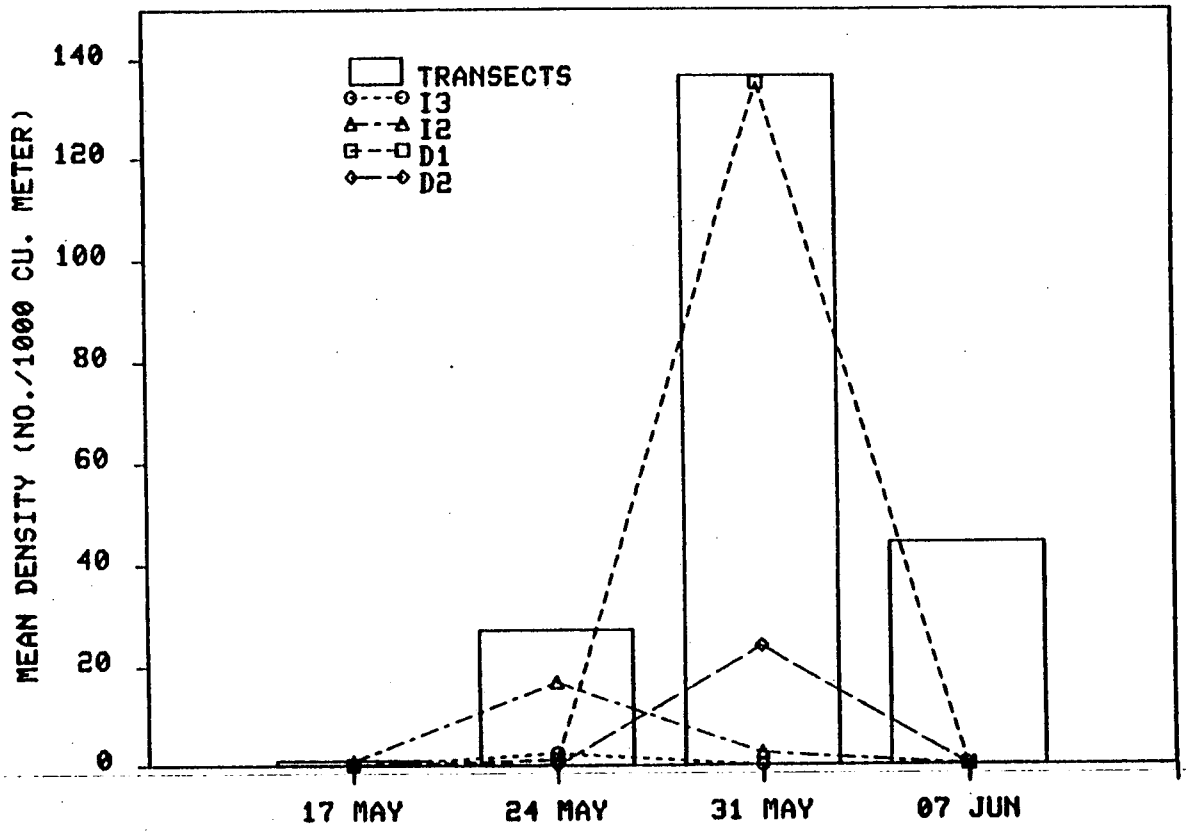


Figure J.2-3. Comparison of mean densities of striped bass post yolk-sac larvae collected at intake Stations I2 and I3, discharge Stations D1 and D2, and at the river transect station, Indian Point Generating Station, 1977.

APPENDIX K

LENGTH FREQUENCY DISTRIBUTIONS FOR STRIPED BASS COLLECTED DURING ENTRAINMENT AND NEAR FIELD STUDIES, INDIAN POINT GENERATING STATION, 1977

APPENDIX K TABLES

Title	Number
K.1 LENGTH FREQUENCY DISTRIBUTION FOR STRIPED BASS COLLECTED AT STANDARD RIVER STATIONS	K.1-1
K.2 LENGTH FREQUENCY DISTRIBUTION FOR STRIPED BASS COLLECTED AT PLANT ENTRAINMENT STATIONS	
Station I3	K.2-1
Station I2	K.2-2
Station D1	K.2-3
Station D2	K.2-4
K.3 LENGTH FREQUENCY DISTRIBUTION FOR STRIPED BASS COLLECTED AT RIVER TRANSECT STATIONS	K.3-1

TABLE K.1-1 LENGTH FREQUENCY OF STRIPED BASS COLLECTED AT STANDARD RIVER STATIONS IN THE VICINITY OF THE INDIAN POINT GENERATING STATION, 1977

Sampling Date[a]	Number of Fish	Mean Length (mm)	Standard Deviation (mm)	Length Intervals (mm)									Range (mm)		
				0.0-2.9	3.0-5.9	6.0-8.9	9.0-11.9	12.0-14.9	15.0-17.9	18.0-20.9	21.0-23.9	+24.0	Min	Med	Max
9 MAY	72	4.3	0.7	0	72	0	0	0	0	0	0	0	3.0	4.5	5.5
16 MAY	25	4.9	1.2	4	16	5	0	0	0	0	0	0	2.4	5.2	6.2
23 MAY	234	5.3	0.9	0	169	65	0	0	0	0	0	0	3.3	5.3	7.5
2 JUN	630	6.2	1.0	0	269	350	11	0	0	0	0	0	3.4	6.0	10.5
6 JUN	283	6.4	1.2	0	121	149	12	1	0	0	0	0	3.7	6.1	12.0
13 JUN	9	5.9	0.8	0	6	3	0	0	0	0	0	0	4.9	5.8	7.7
23 JUN	4	9.7	3.7	0	1	0	1	2	0	0	0	0	3.7	11.0	13.2

(a) Includes all sampling dates when striped bass yolk-sac larvae, post yolk-sac larvae, or juveniles were collected.

Note: Min = shortest length; Med = median length; Max = greatest length.

TABLE K.2-1 LENGTH FREQUENCY OF STRIPED BASS COLLECTED AT STATION I3 DURING ENTRAINMENT ABUNDANCE SAMPLING AT THE INDIAN POINT GENERATING STATION, 1977

Sampling Date[a]	Number of Fish	Mean Length (mm)	Standard Deviation (mm)	Length Intervals (mm)									Range (mm)		
				0.0-2.9	3.0-5.9	6.0-8.9	9.0-11.9	12.0-14.9	15.0-17.9	18.0-20.9	21.0-23.9	+24.0	Min	Med	Max
10 MAY	13	3.8	0.5	0	13	0	0	0	0	0	0	0	3.2	3.6	4.9
17 MAY	39	3.8	0.6	0	38	1	0	0	0	0	0	0	3.0	3.8	6.5
24 MAY	27	5.3	0.9	0	20	7	0	0	0	0	0	0	3.1	5.3	7.0

(a) Includes all sampling dates when striped bass yolk-sac larvae, post yolk-sac larvae, or juveniles were collected.

Note: Min = shortest length; Med = median length; Max = greatest length.

TABLE K.2-2 LENGTH FREQUENCY OF STRIPED BASS COLLECTED AT STATION I2 DURING ENTRAINMENT ABUNDANCE SAMPLING AT THE INDIAN POINT GENERATING STATION, 1977

Sampling Date[a]	Number of Fish	Mean Length (mm)	Standard Deviation (mm)	Length Intervals (mm)									Range (mm)		
				0.0-2.9	3.0-5.9	6.0-8.9	9.0-11.9	12.0-14.9	15.0-17.9	18.0-20.9	21.0-23.9	+24.0	Min	Med	Max
17 MAY	70	4.2	0.7	0	66	4	0	0	0	0	0	0	3.1	4.1	6.1
24 MAY	27	5.0	1.1	0	21	6	0	0	0	0	0	0	3.1	4.8	6.8
31 MAY	2	6.1	0.4	0	1	1	0	0	0	0	0	0	5.7	6.1	6.4
7 JUN	5	5.7	0.7	0	3	2	0	0	0	0	0	0	4.8	5.6	6.8

(a) Includes all sampling dates when striped bass yolk-sac larvae, post yolk-sac larvae, or juveniles were collected.

Note: Min = shortest length; Med = median length; Max = greatest length.

TABLE K.2-3 LENGTH FREQUENCY OF STRIPED BASS COLLECTED AT STATION D1 DURING ENTRAINMENT ABUNDANCE SAMPLING AT THE INDIAN POINT GENERATING STATION, 1977

Sampling Date[a]	Number of Fish	Mean Length (mm)	Standard Deviation (mm)	Length Intervals (mm)									Range (mm)		
				0.0-2.9	3.0-5.9	6.0-8.9	9.0-11.9	12.0-14.9	15.0-17.9	18.0-20.9	21.0-23.9	+24.0	Min	Med	Max
17 MAY	10	3.6	0.5	0	10	0	0	0	0	0	0	0	3.0	3.5	4.5
24 MAY	31	5.3	1.0	1	20	10	0	0	0	0	0	0	2.8	5.5	6.8
31 MAY	131	6.8	1.3	0	30	94	7	0	0	0	0	0	3.0	7.0	9.8

(a) Includes all sampling dates when striped bass yolk-sac larvae, post yolk-sac larvae, or juveniles were collected.

Note: Min = shortest length; Med = median length; Max = greatest length.

TABLE K.2-4 LENGTH FREQUENCY OF STRIPED BASS COLLECTED AT STATION D2 DURING ENTRAINMENT ABUNDANCE SAMPLING AT THE INDIAN POINT GENERATING STATION, 1977

Sampling Date[a]	Number of Fish	Mean Length (mm)	Standard Deviation (mm)	Length Intervals (mm)									Range (mm)		
				0.0-2.9	3.0-5.9	6.0-8.9	9.0-11.9	12.0-14.9	15.0-17.9	18.0-20.9	21.0-23.9	+24.0	Min	Med	Max
10 MAY	9	3.5	0.3	0	9	0	0	0	0	0	0	0	3.0	3.5	4.1
17 MAY	1	3.6	0.0	0	1	0	0	0	0	0	0	0	3.6	3.6	3.6
24 MAY	4	6.2	0.3	0	1	3	0	0	0	0	0	0	5.9	6.2	6.6
31 MAY	17	7.3	1.0	0	1	15	1	0	0	0	0	0	5.8	7.5	9.0

(a) Includes all sampling dates when striped bass yolk-sac larvae, post yolk-sac larvae, or juveniles were collected.

Note: Min = shortest length; Med = median length; Max = greatest length.

TABLE K.3-1 LENGTH FREQUENCY OF STRIPED BASS COLLECTED DURING THE RIVER TRANSECT STUDY (ALL STATIONS COMBINED), INDIAN POINT GENERATING STATION, 1977

Sampling Date[a]	Number of Fish	Mean Length (mm)	Standard Deviation (mm)	Length Intervals (mm)									Range (mm)		
				0.0-2.9	3.0-5.9	6.0-8.9	9.0-11.9	12.0-14.9	15.0-17.9	18.0-20.9	21.0-23.9	+24.0	Min	Med	Max
3 MAY	1	3.4	0.0	0	1	0	0	0	0	0	0	0	3.4	3.4	3.4
10 MAY	460	4.3	0.7	5	455	0	0	0	0	0	0	0	2.5	4.2	5.9
17 MAY	1,229	4.2	0.8	21	1,151	56	1	0	0	0	0	0	2.5	4.1	9.3
24 MAY	2,193	5.5	0.9	3	1,453	737	0	0	0	0	0	0	2.9	5.6	7.8
31 MAY	715	6.3	1.0	0	279	427	9	0	0	0	0	0	3.0	6.1	11.5
7 JUN	427	6.9	1.5	0	115	270	40	2	0	0	0	0	3.0	6.7	12.8

(a) Includes all sampling dates when striped bass yolk-sac larvae, post yolk-sac larvae, or juveniles were collected.

Note: Min = shortest length; Med = median length; Max = greatest length.