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ECOLOGICAL STUDIES OF THE CONNECTICUT RIVER VERNON/VERMONT

REPORT XVI

SUMMARY AND DATA

JANUARY 1986 – DECEMBER 1986

prepared for

VERMONT YANKEE NUCLEAR POWER CORPORATION
BRATTLEBORO, VERMONT

by

AQUATEC, INC.
SOUTH BURLINGTON, VERMONT

1987

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1. INTRODUCTION

This report was prepared to fulfill requirements of Vermont Yankee Nuclear Power Plant's discharge permit, NPDES No. VT0000264. This permit was issued on 9 January 1986 and will be in effect until 31 December 1990. A copy of the NPDES permit is in Appendix F.

Material in this report demonstrates compliance with thermal criteria defined in Part I, Effluent Limitations and Monitoring Requirements, of the NPDES permit. Results of the environmental monitoring program defined in Appendix A, Section I, Routine Monitoring, of the permit are also reported in this document. Section II, Appendix A, defines goals that will be addressed before 1990. A proposal for goal-oriented studies during 1987 was submitted to members of the Environmental Advisory Committee (EAC) on February 27, 1987. Comparison of permit requirements with information in this report will demonstrate that all conditions specified in the NPDES permit have been met.

This is the first annual report produced under requirements of the new five-year permit; therefore, a brief discussion will be found at the beginning of each section describing changes between this year's report and last year's report. The sections in this report are thermal standards, water quality, plankton, macroinvertebrates, and fish. Environmental sample stations referred to in the following sections of this report are described in Figure 1.1.

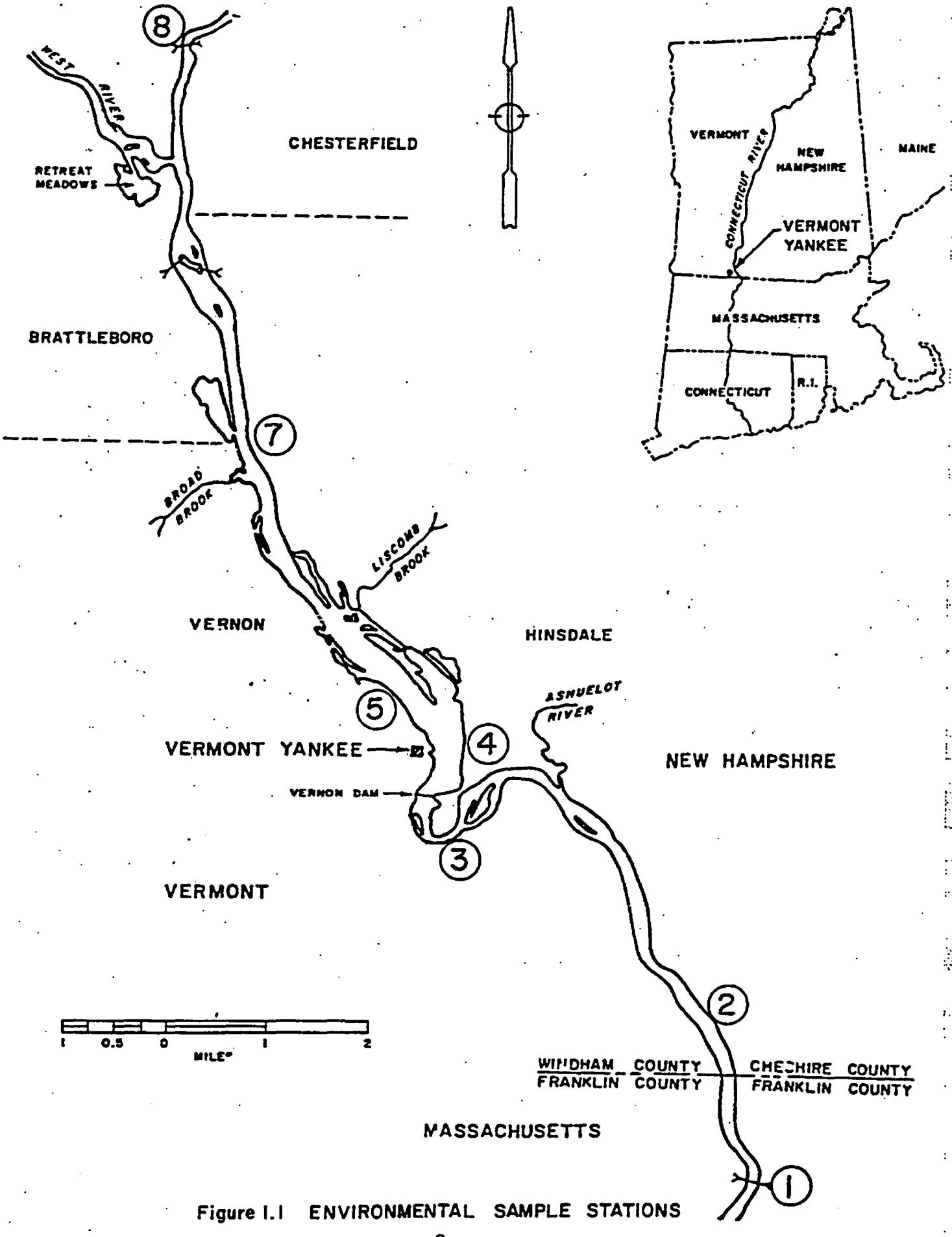


Figure I.I ENVIRONMENTAL SAMPLE STATIONS

2. COMPLIANCE WITH THERMAL STANDARDS

2.1 Thermal Standards

The operation mode of Vermont Yankee's cooling water system is related to calendar dates. In the previous NPDES permit, closed cycle cooling was required from 16 May through 14 October. In the new permit, hybrid cycle cooling is permitted during this period. At all times at least a 1°F increase in mixed river temperature is allowed, which is consistent with the State of Vermont's classification of this portion of the Connecticut River as a cold water fishery. For testing purposes the thermal criteria which apply for warm water fisheries are permitted until the year 1990. These criteria allow up to a 5°F increase when upstream temperatures are less than 55°F. The amount of increase in temperature is reduced in one degree increments from the 5°F increase until the river temperature reaches 66°F when only a 1°F increase in river temperature is permitted.

During the period of 15 October through 15 May, Vermont Yankee is permitted to discharge heat to the Connecticut River within the following thermal standards (section b.(3) of the NPDES permit). These criteria are the same as those in the previous NPDES permit.

1. The temperature at Monitor 3 during open cycle operation shall not exceed 65°F.

2. The rate of change of temperature at Monitor 3 shall not exceed 5°F per hour.

3. The increase in temperature above ambient at Monitor 3 shall not exceed 13.4°F.

The river discharge near Vernon is regulated to exceed 1200 cfs (cubic feet per second) at all times. Since the theoretical increase in temperature due to Vermont Yankee's thermal discharge at a river flow of 1200 cfs is 13.4°F, these standards, in effect, permit open cycle condenser cooling without cooling tower operation when ambient river temperatures are less than 51.6°F. If ambient river temperatures are greater than 51.6°F, the amount of heat discharged to the river can be reduced by utilization of cooling towers.

2.2 Methods of Demonstrating Compliance

Compliance with the criterion that limits open cycle operation to times when the downstream temperature is less than 65°F was demonstrated by examination of river temperature and plant operating records.

Rate of change of temperature is defined in the NPDES permit as the difference between consecutive hourly average temperatures. Measurements at Station 3 were used to calculate these differences.

Increase in temperature above ambient is defined in the NPDES permit as plant-induced temperature increase as calculated by equation 1-1 in the report 316 Demonstration (Binkerd et al., 1978). This equation illustrates the principle of conservation of heat, a principle which was implemented via a computer simulation of the Vermont Yankee/Connecticut River system. Compliance with thermal increase criteria was demonstrated by heat balance and used the computer simulation.

2.3 Thermal Impact

Figures in this section illustrate the principle of conservation of heat as applied to the Vermont Yankee/Connecticut River system. Figure 2.1 depicts core thermal, gross, and net power produced by Vermont Yankee in 1986. These data were obtained from hourly records supplied by Vermont Yankee. Gross and net electrical power records were obtained from Meter Data Sheets, VYAPF 0158.01. Core thermal power data were obtained from Core Exposure Log Work Sheets, VYDPF 0415.02.

The licensed maximum reactor core thermal power is limited to 1593 MW (megawatts). About one third of this power was converted to electrical power, and the remainder of the heat was transferred to the atmosphere via the cooling towers or the river. On 20 September 1985 the plant was shut down primarily for steam pipe replacement and did not resume operation until 2 July 1986.

Figure 2.2 depicts heat discharged to the river. Plant management decided not to cycle intake gates and the recirculation gate daily or

more frequently to take advantage of the thermal limits allowed and the plant operated in a closed cycle mode until 15 October 1986. From that date until the end of 1986, the plant operated in an open cycle cooling mode.

Figure 2.3 depicts Connecticut River discharge near Vernon, Vermont. These data were obtained from records at the Vernon Station. For discharge greater than 12,000 cfs, a rating curve was used to convert stage height to discharge. The rating curve is the same one that was used by the USGS prior to abandoning the Vernon gaging station. That curve is believed to be sufficiently accurate for high discharge since the impact of backwater from the Northfield Mountain Pump Storage Facility and the modification at Turners Falls Dam have a small impact on stage height near Vernon Dam for high discharge. Below 12,000 cfs, discharge data were obtained from turbine rating curves at Vernon Station.

The peak flow for 1986 was 68,545 cfs which ocurred at 0600 and 0700 hours on 1 April as depicted in Figure 2.3. This discharge was slightly more than twice the peak discharge recorded the previous year. A tabulation of hourly discharge data, unadjusted for leakage, is in Appendix A.

Increases in river temperature due to Vermont Yankee's operation are depicted in Figure 2.4. Examination of Figure 2.2, Vermont Yankee Discharge Heat, with Figure 2.3, Connecticut River Discharge, illustrates that for a constant heat rejection rate to the river, the temperature increase was inversely proportional to river discharge. At no time during 1986 were thermal limits on increases in river temperature exceeded due to Vermont Yankee's operation.

Results of the computer simulation of heat balance indicated that the highest simulated temperature increase, 8.0°F, was on 20 October. At that same time, the difference between downstream and upstream temperature was 7.0°F. The maximum rate of temperature change at Monitor 3 was an increase of 2.9°F per hour and occurred on 25 November 1986. The maximum rate of decrease, 2.3°F per hour, occurred on 21 November 1986.

Temperatures measured at Station 3 were typically warmer than temperatures measured at Station 7, even when Vermont Yankee was not operating (Figure 2.5). Station 7 is well upstream of the plant, and its water temperatures were unaffected by the plant's thermal discharge. Heat discharged from the plant was well mixed at Station 3 primarily due to passage through Vernon Station. Temperatures measured at Station 3 represented both the natural and plant-induced changes in temperature between the upstream and downstream locations. The maximum temperature difference between Stations 3 and 7 was 7.8°F on 24 November 1986 at 1100 hours. Hourly average temperatures measured at Stations 3 and 7 are in Appendix A.

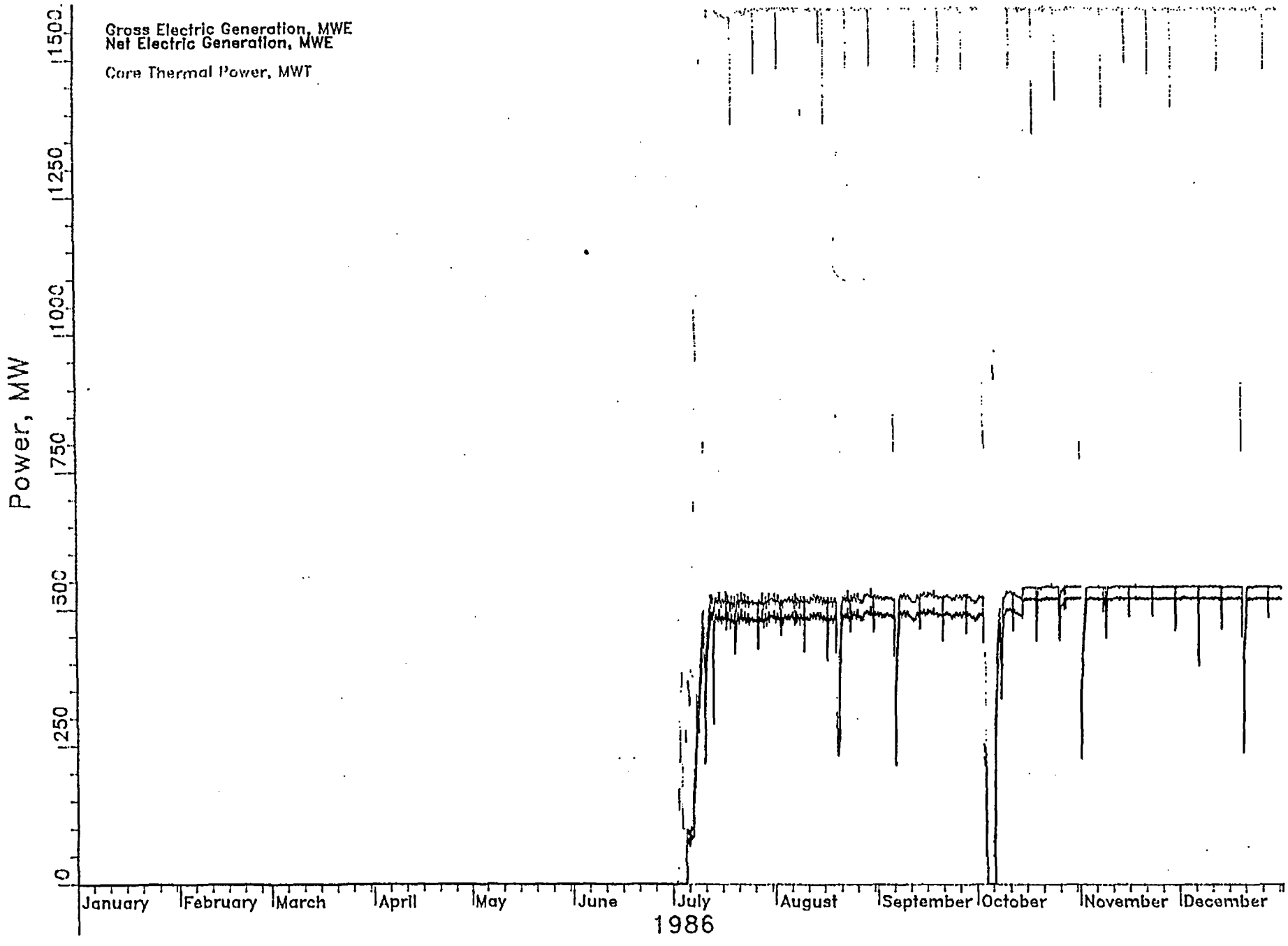


Figure 2.1 Vermont Yankee Power, 1986

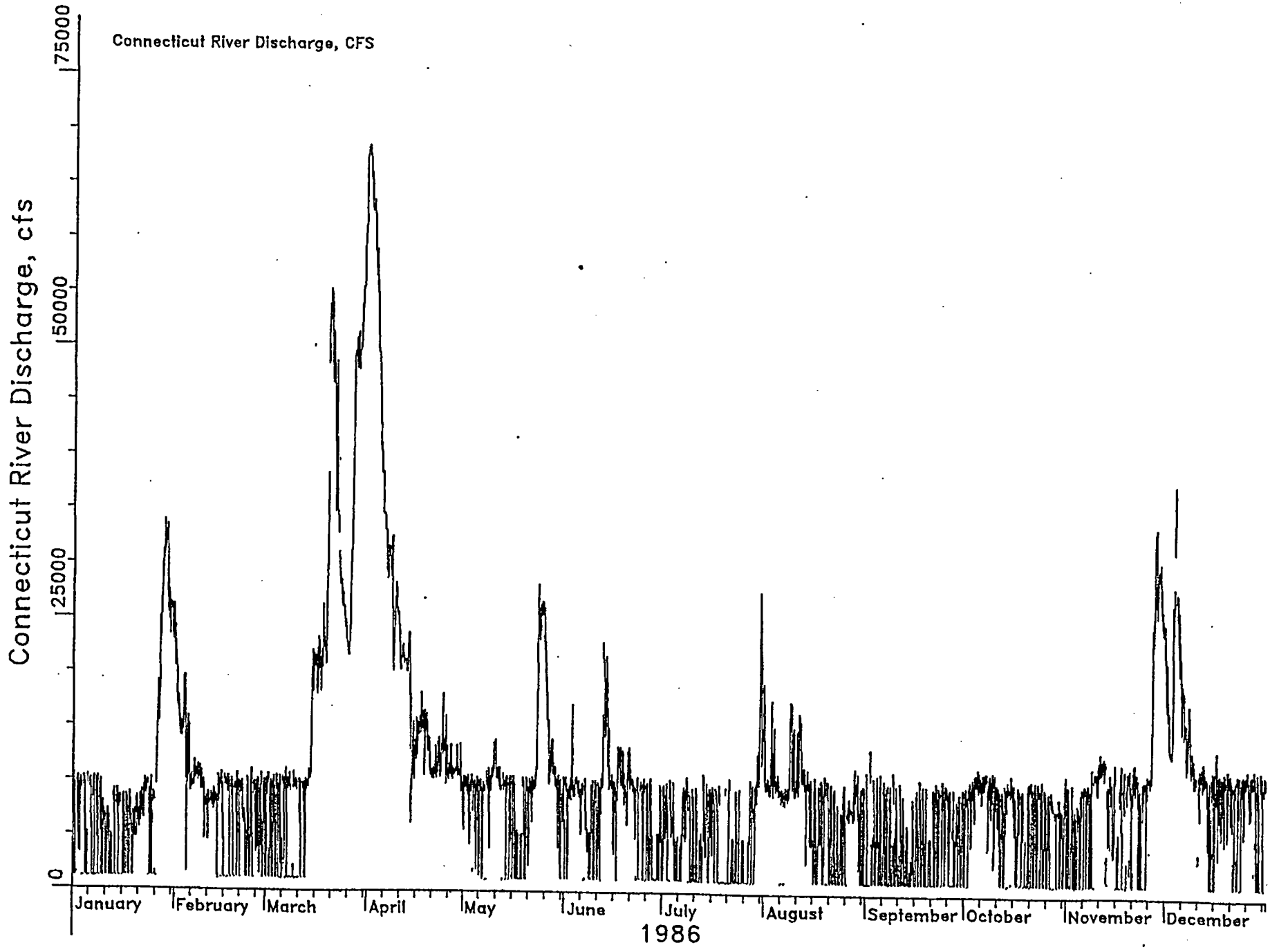


Figure 2.3 Connecticut River Discharge, 1986

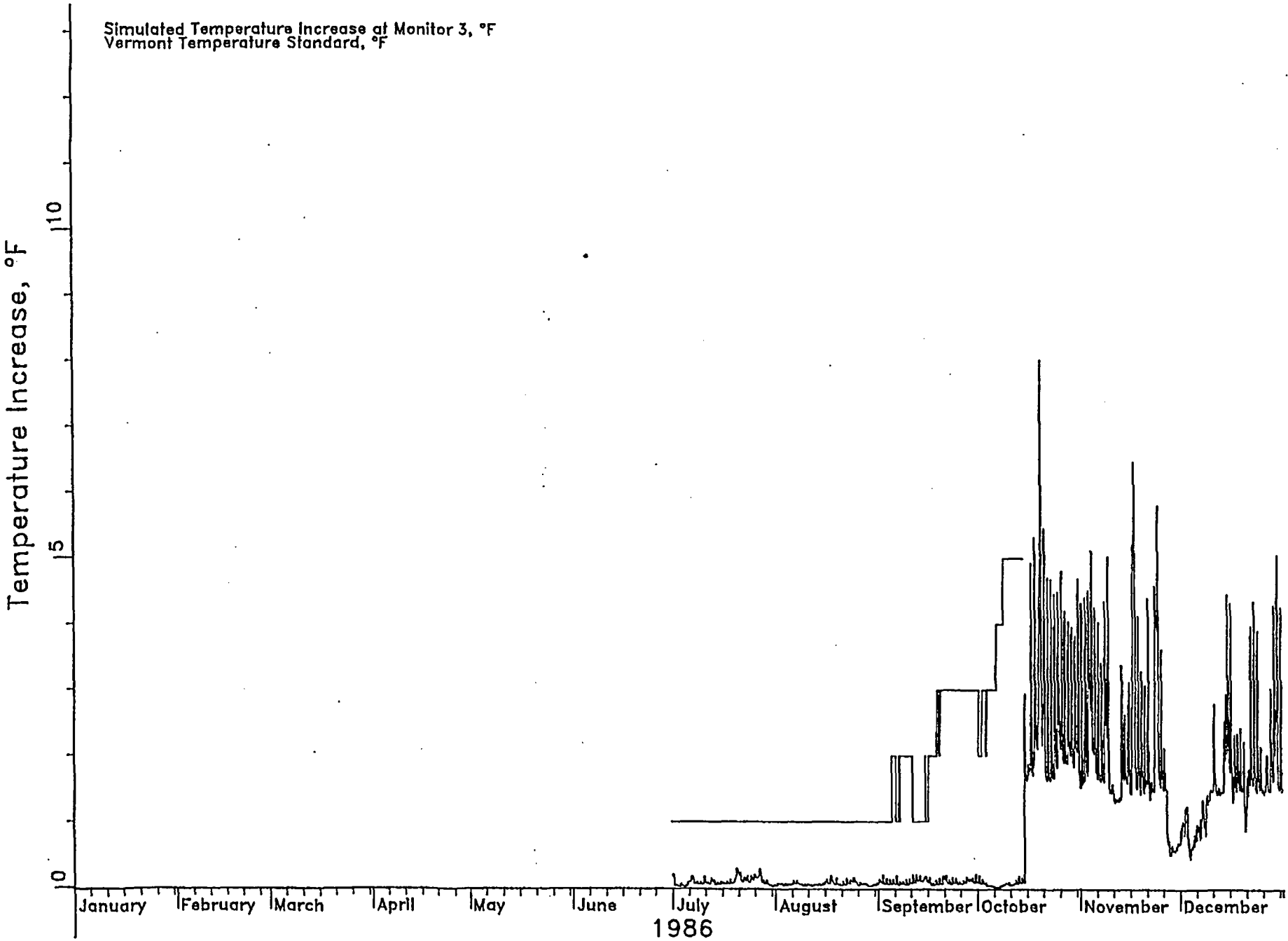


Figure 2.4 Connecticut River Temperature Increase, 1986

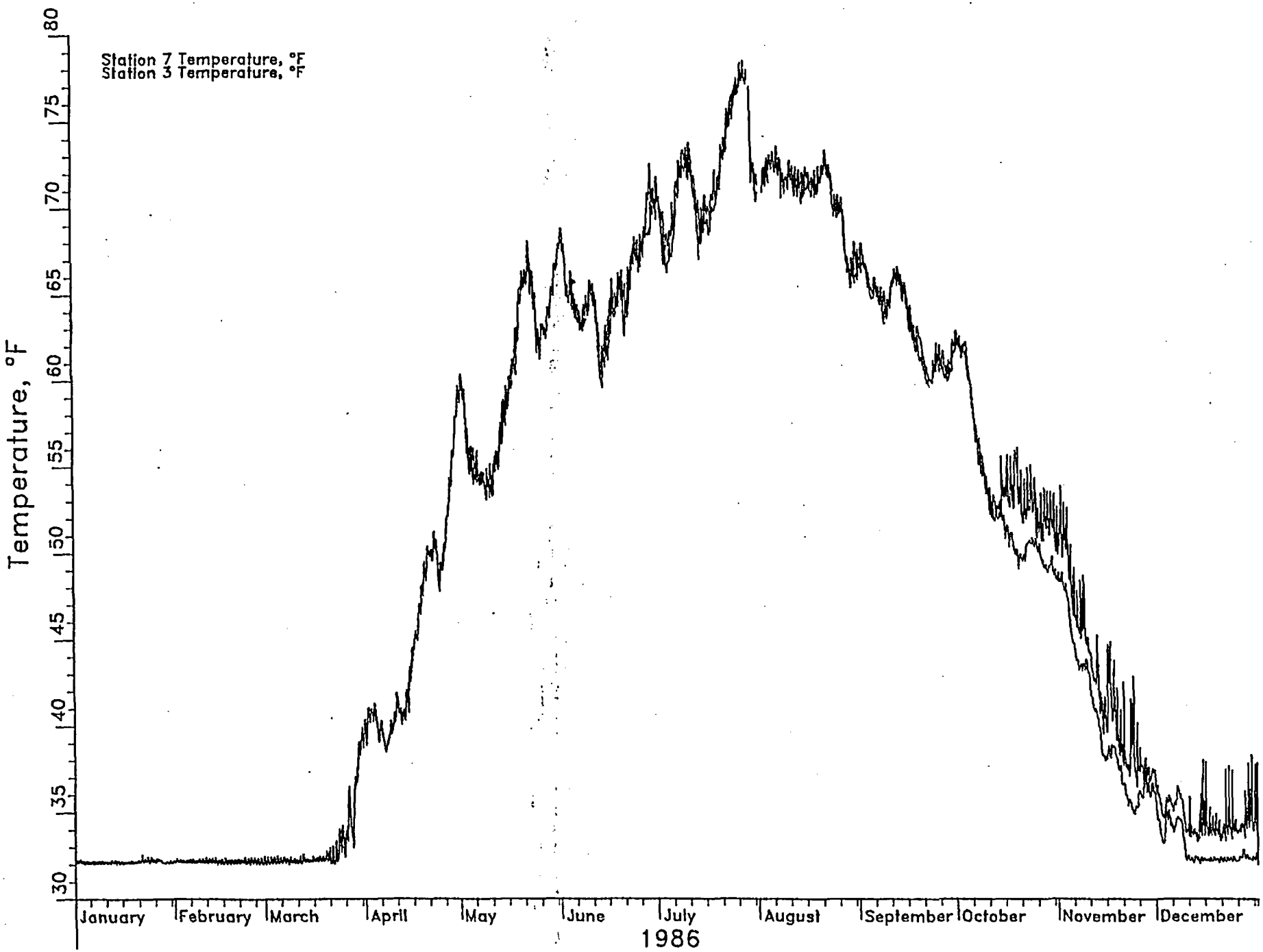


Figure 2.5 Connecticut River Temperatures, 1986

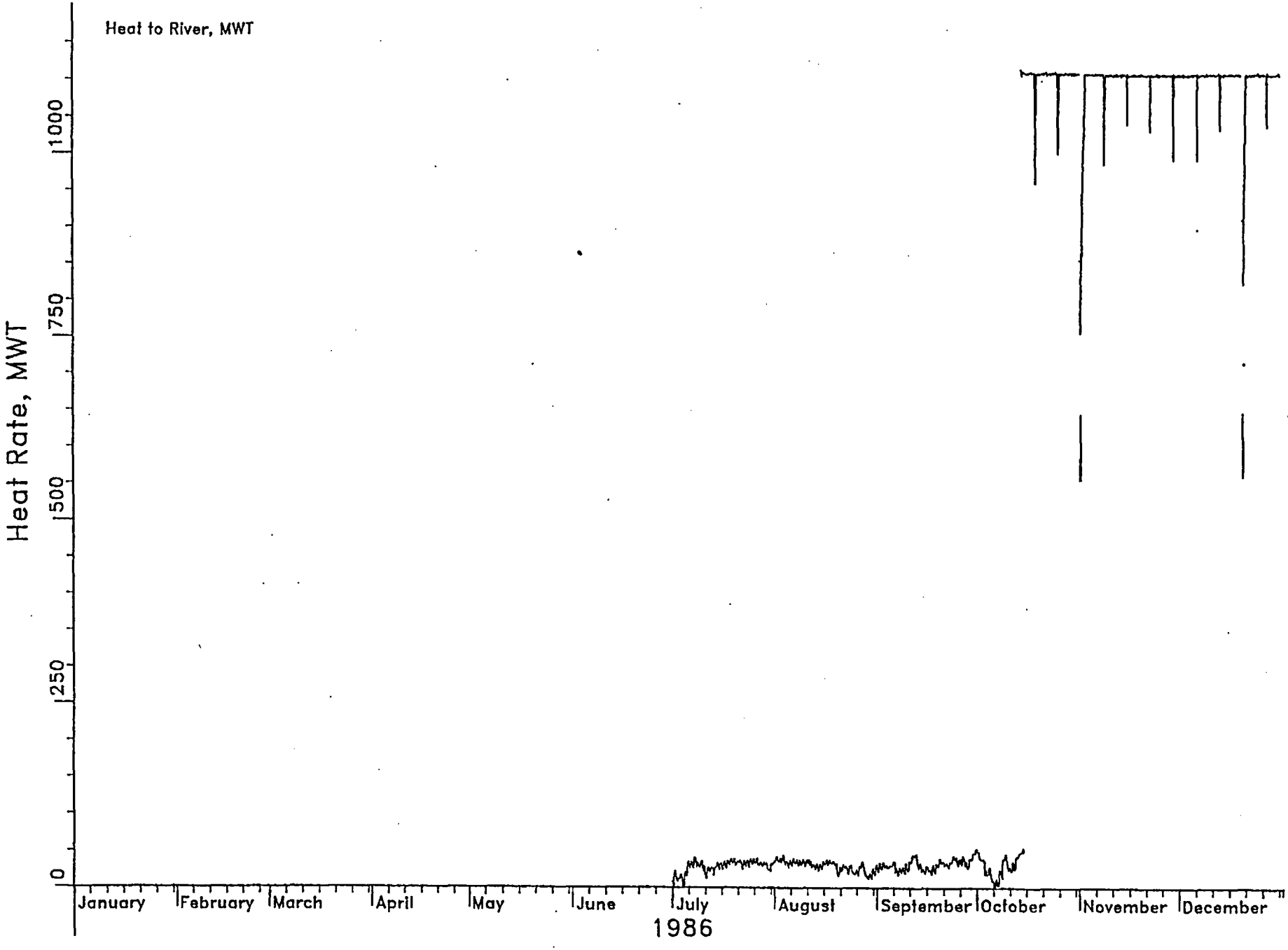


Figure 2.2 Vermont Yankee Discharged Heat, 1986

3. WATER QUALITY STUDIES

The continuous monitoring of dissolved oxygen concentration and pH at Monitors 3 and 7 was discontinued in 1986. At this time the only water quality parameter measured on a continuous basis is water temperature. The frequency of grab samples at Stations 3, 7, and the plant discharge has been increased. The previous permit required grab samples four times per year at three-month intervals. Grab samples are now collected monthly at Monitor 3, Monitor 7, and at the plant discharge when the plant is operational.

4. PLANKTON STUDIES

4.1 Phytoplankton Studies

In January 1986, Vermont Yankee's NPDES permit was renewed. In this new permit, the phytoplankton monitoring program was revised to reflect knowledge obtained during the previous permit studies. Routine phytoplankton collections at Monitors 3 and 7 have been discontinued. Monthly sampling at the intake and discharge structures when the plant is operating on open or hybrid cycle has been replaced with sampling of these organisms monthly from April through November at the intake and discharge if the plant is operating, or in front of the intake during these months if the plant is not operating.

In addition to fulfilling required permit sampling, whole water grab samples were collected weekly from June through October at five sites in the upper Turners Falls region. These samples were analyzed for phytoplankton composition and abundance. Biomass estimations, using measurements of individual cells, were also made. This information will be used to characterize the microhabitats present at the sites and to examine the relationship between microhabitat, plant operation, and shad population dynamics in the river. The analysis of these goal-oriented phytoplankton samples will be presented in bulletin form in 1987.

4.1.1 Methods of Collection and Processing

Vermont Yankee did not operate in an open or hybrid cooling mode from April through September 1986. During this time, with the exception of July, whole water grab samples were collected near the intake structure in 250 ml bottles and preserved with Lugol's solution. Phytoplankton composition and abundance were analyzed using a sedimentation tube and chamber with an inverted microscope at 200 magnification.

The July sample and the October/November open cycle entrainment samples were collected by filtering 40 liters of river water through a #20 mesh Wisconsin net. The July sample was preserved with formalin and

analyzed in the same manner as the whole water grab samples. Entrainment samples were analyzed immediately for living organisms using a Sedgewick Rafter counting cell and a compound microscope at 150 magnification. Phytoplankton cells were counted as living if chloroplasts were intact and healthy, or if movement was observed. The remainder of the sample was preserved with formalin for subsequent identification and enumeration of organisms.

References used in phytoplankton identification included: Bourrelly, 1970, 1972, 1981; Patrick and Reimer, 1966, 1975; and Prescott, 1962.

4.1.2 Summary

The checklist of phytoplankton observed in the Connecticut River near Vernon, Vermont is presented in Table 4.1.

Phytoplankton data for the whole water and net samples collected during the closed cycle period in 1986 are listed in Appendix B. In these samples Cryptophycophyta represented 48-89% of the total number of organisms, with Chroomonas spp. being the most abundant in the whole water samples. The Bacillariophycophyta (diatoms) contributed 6-33% and the Chlorophycophyta 2-25% of the total number of organisms observed. In addition, small numbers of Chrysophycophyta, Cyanochloronta and Pyrrophycophyta were also present.

During the April-November period, phytoplankton densities ranged from 438,000 to 1,740,000 organisms per liter. The phytoplankton density fluctuations were clearly a function of seasonal changes within the river. Lowest densities were observed in whole water samples during April and September, while peak numbers occurred in June. The lower densities of phytoplankton observed in July may have been a result of differences in sample collection for that month.

Entrainment samples of phytoplankton were collected in October and November 1986, Table 4.2. The percentage of live and dead cells observed do not vary significantly between intake and discharge samples

taken for either month. The percentage does vary, however, between months; about 75% of the cells observed in October were alive, compared to approximately 65% in November.

The total number of cells observed in intake and discharge samples was considerably higher in October (318) than in November (36). In October, intake samples were dominated by Anabaena wisconsinense (Cyanochloronta), (approximately 30% of the total number observed). Melosira sp. and Synedra sp. were also abundant. It was of interest to note while Melosira was dominant in the discharge as well, only one or two individual A. wisconsinense or Synedra sp. were noted, dead or alive. In November, dominance by a single genus or species could not be established. Intake samples did not contain more than three individuals of any genus or species. In the discharge Fragilaria sp. and Melosira sp. were more numerous than any other algae.

4.2 Zooplankton Studies

The zooplankton monitoring program requirements were revised in the 1986 permit. Routine zooplankton collections at Monitors 3 and 7 have been discontinued. Monthly sampling at the intake and discharge structures when the plant is operating on open or hybrid cycle has been replaced with sampling of these organisms monthly from April through November at the intake and discharge if the plant is operating, or in front of the intake during these months if the plant is not operating.

Zooplankton samples were also collected at five stations in the upper Turners Falls region from June through October. Length measurements were taken on cladocerans and copepods, and biomass was calculated using length-weight regressions. Data from these studies will be used to evaluate secondary productivity as it relates to plant operation and shad population dynamics. This information will be presented in an analytical bulletin in 1987.

4.2.1 Methods of Collection and Processing

Zooplankton samples were collected from April through September by filtering 40 liters of water collected by bucket at the intake through a #20 mesh Wisconsin net. Zooplankton samples were anesthetized after filtration with carbonated water and preserved with a formalin/sugar solution. The samples were analyzed using a Sedgewick-Rafter counting cell with a compound microscope at 100 and 200 magnification.

Entrainment samples were collected during open cycle operation in October and November at the intake and discharge by filtering 40 liters of water through a #20 mesh Wisconsin plankton net. Samples were analyzed immediately using a Sedgewick-Rafter counting cell and a compound microscope at 150 and 300 magnification. Individual zooplankters were evaluated for about one minute and counted as living if movement of limbs or internal organs was observed. The remainder of the sample was preserved with formalin for subsequent identification and enumeration of organisms.

References used in zooplankton identification were: Kudo, 1971; Pennak, 1978; Stemberger, 1979; Ward and Whipple, 1966.

4.2.2 Summary

A checklist of zooplankton organisms collected in 1986 is presented in Table 4.3. Protozoans and rotifers were the predominate organisms in the spring (April and May), while copepods and rotifers dominated the summer and fall months (June through November). Zooplankton densities observed were less than 20 per liter.

Entrainment data for zooplankton are displayed in Table 4.4. The percentage of live zooplankton in the discharge was on the average lower (67%) than the corresponding percentage of live zooplankton in the intake (75%). The percentage of live organisms in the intake samples decreased from 92% in October to 58% in November. The percentage of live organisms in the discharge samples increased from 59% in October to 75% in November. Rotifers comprised 40% of the entrainment organisms in the intake samples and 14% in the discharge samples.

Table 4.1 Checklist of phytoplankton of the Connecticut River near Vernon, Vermont in 1986.

CYANOCHLORONTA
- Cyanophyceae
  - Chroococcales
    - Chroococcaceae
      - *Aphanocapsa elachista*
      - *Gomphosphaeria* sp.
  - Nostocales
    - Nostocaceae
      - *Anabaena* sp.
      - *Anabaena wisconsinense*
    - Oscillatoriaceae
      - *Oscillatoria sp.*

CHLOROPHYCOPHYTA
- Chlorophyceae
  - Volvocales
    - Chlamydomonaceae
      - *Carteria* sp.
    - Volvocaceae
      - *Pandorina* sp.
  - Chlorococcales
    - Chlorococcaceae
      - *Characium* sp.
      - *Schroederia* sp.
    - Palmellaceae
      - *Gloeocystis* sp.
      - *Gloeocystis gigas*
    - Oocystaceae
      - *Ankistrodesmus convolutus*
      - *Ankistrodesmus falcatus*
      - *Ankistrodesmus falcatus* var. *acicularis*
      - *Oocystis* sp.
      - *Selenastrum minutum*
    - Micractinaceae
      - *Micractinium pusillum*
    - Dictyosphaeriaceae
      - *Dictyosphaerium pulchellum*
    - Scenedesmaceae
      - *Crucigenia rectangularis*
      - *Scenedesmus* sp.
      - *Tetrastrum* sp.
    - Hydrodictyaceae
      - *Pediastrum duplex*
      - *Pediastrum duplex* var. *gracilimum*
      - *Pediastrum simplex*

Table 4.1 Checklist of phytoplankton of the Connecticut River near Vernon, Vermont in 1986 (continued).

CHLOROPHYCOPHYTA (continued)
- Zygnematales
  - Zygnemataceae
    - *Mougeotia* sp.
    - *Spirogyra* sp.
  - Desmidiaceae
    - *Closterium* sp.
    - *Cosmarium* sp.
    - *Staurastrum* sp.
- Ulothricales
  - Ulothricaceae
    - *Ulothrix* sp.
- Tetrasporales
  - Tetrasporaceae
    - *Tetraspora* sp.

CHRYSOPHYCOPHYTA
- Chrysophyceae
  - Ochromonadales
    - Dinobryaceae
      - *Dinobryon* sp.
      - *Dinobryon bavaricum*
      - *Dinobryon divergens*
      - *Dinobryon sertularia*
    - Synuraceae
      - *Mallomonas* sp.
      - *Mallomonas urniformis*
      - *Synura* sp.
- Xanthophyceae
  - Heterochlondales
    - Stipitococeaceae
      - *Stipitococcus* sp.

BACILLARIOPHYCOPHYTA
- Bacillariophyceae
  - Fragilariales
    - Fragiliariaceae
      - *Asterionella formosa*
      - *Fragilaria* sp.
      - *Fragilaria crotonensis*
      - *Synedra* sp.
      - *Synedra ulna*
      - *Tabellaria* sp.
      - *Tabellaria fenestrata*
      - *Tabellaria flocculosa*
  - Naviculales
    - Naviculaceae
      - *Navicula* sp.

Table 4.1 Checklist of phytoplankton of the Connecticut River near Vernon, Vermont in 1986 (continued).

BACILLARIOPHYCOPHYTA (continued)
- Cymbellaceae
  - *Cymbella* sp.
- Surirellales
  - Surirellaceae
    - *Surirella* sp.
- Coscinodiscales
  - Coscinodiscaceae
    - *Melosira* sp.
- Rhizosoleniales
  - Rhizosoleniaceae
    - *Rhizosolenia* sp.

PYRROPHYCOPHYTA
- Dinophyceae
  - Peridiniales
    - Ceratiaceae
      - *Ceratium hirundinella*
    - Glenodinaceae
      - *Glenodinium* sp.

CRYPTOPHYCOPHYTA
- Cryptophyceae
  - Cryptomonadales
    - Cryptomonadaceae
      - *Chroomonas* sp.
      - *Cryptomonas ovata*

Table 4.2 Summary of phytoplankton entrainment in 1986.

Date 1986	Intake			Discharge		
	Units Counted	% Live	Dominant Live Organisms	Units Counted	% Live	Dominant Live Organisms
16 October	116	72	*Anabaena wisconsinense*	99	72	*Melosire* sp.
	65	75	*Anabaena wisconsinense*	38	76	*Melosira* sp.
14 November	8	63		9	44	
	8	63		11	55	

Table 4.3 Checklist of zooplankton of the Connecticut River near Vernon, Vermont in 1986.

PROTOZOA
- Sarcodina
  - Testacida
    - Arcellidae
      - *Arcella mitrata*
      - *Arcella vulgaris*
    - Centropyxidae
      - *Centropyxis aculeata*
- Ciliata
  - Gymnostomatida
    - Didiniidae
      - *Didinium nasutum*
  - Oligotrichida
    - Halteridae
      - *Strombidium* sp.

NEMATODA

ROTATORIA
- Digononta
  - Bdelloidea
    - Philodinidae
      - *Philodina* sp.
- Monogononta
  - Flosculariacea
    - Conochilidae
      - *Conochilus unicornis*
    - Testudinellidae
      - *Testudinella* sp.
  - Collothecacea
    - Collothecidae
      - *Collotheca mutabilis*
  - Ploima
    - Notommatidae
      - *Notommata* sp.
    - Synchaetidae
      - *Polyarthra* sp.
      - *Polyarthra vulgaris*
      - *Synchaeta* sp.
    - Ploesomatidae
      - *Ploesoma* sp.
    - Gastropodidae
      - *Ascomorpha* sp.
    - Trichocercidae
      - *Trichocerca* sp.
    - Asplanchnidae
      - *Asplanchna* sp.
    - Brachionidae
      - *Brachionus* sp.
      - *Brachionus budapestinensis*
      - *Euchlanis* sp.

Table 4.3 Checklist of zooplankton of the Connecticut River near Vernon, Vermont in 1986 (continued).

ROTATORIA (continued)
- *Euchlanis alata*
- *Euchlanis meneta*
- *Euchlanis parva*
- *Kellicottia longispina*
- *Keratella cochlearis*
- *Keratella quadrata*
- *Lecane* sp.
- *Macrochaetus* sp.
- *Monostyla* sp.
- *Mytilina* sp.
- *Notholca* sp.
- *Notholca acuminata*
- *Trichotria pocillum*
- *Trichotria tetractis*

TARDIGRADA

ANNELIDA

ARTHROPODA
- Crustacea
  - Cladocera
    - Daphnidae
      - *Ceriodaphnia* sp.
    - Bosminidae
      - *Bosmina longirostris*
    - Chydoridae
      - *Alona* sp.
      - *Chydorus sphaericus*
      - *Monospilus dispar*
      - *Pleuroxus* sp.
  - Ostracoda
  - Eucopepoda
    - Copepoda
      - Copepoda nauplii
      - Copepoda adult

Table 4.4 Summary of zooplankton entrainment in 1986.

	Intake		Discharge	
	Units Counted	% Live	Units Counted	% Live
16 October	6	83	3	67
	3	100	2	50
14 November	4	75	2	50
	5	40	3	100

5. MACROINVERTEBRATE STUDIES

The macroinvertebrate monitoring requirements were revised in the 1986 NPDES permit. Macroinvertebrates will be collected at the same stations and by the same methods, but the number of collections by dredge has been reduced from seven to three, and the number of collections by cage has been reduced from three to two.

Additional samples not required by the NPDES permit were collected from June through October at various downstream locations, in conjunction with the goal-oriented shad studies. This macroinvertebrate sampling consisted of collecting benthos grab and drift samples at five selected sites in the upper Turners Falls pool. Benthic organisms were collected bi-weekly with an Ekman dredge or a Hess sampler, while drifting invertebrates were collected weekly with a half-meter conical Nitex plankton net. This sampling program was undertaken in order to describe the composition of the macroinvertebrate drift fauna, as drifting organisms could provide a potential food source for juvenile shad. Data obtained from this study will be reported in a subsequent analytical bulletin.

5.1 Methods of Collection and Processing

Macroinvertebrates were collected in 1986 using an Ekman dredge and cage samplers. The nine-inch square Ekman dredge collects organisms resident on the river bottom. Three samples consisting of three (3) hauls each were collected, for a total of nine (9) hauls per station. Ekman dredge samples were taken in June, August, and October at river quarter points (Vermont, mid-stream, and New Hampshire), at two stations upstream (Stations 4 and 5) and two stations downstream (Stations 2 and 3) of Vernon Dam.

A cage sampler collects organisms that have colonized the artificial substrate over an extended period of time. The cage samplers consisted of a modified minnow trap (1/4-inch wire mesh) filled two thirds full with two- to three-inch diameter rocks obtained from the river. Cage

samplers were set in June and August near the Vermont shore of Stations 2, 3, 4, and 5. The cages and associated organisms were retrieved in August and October. Five of the eight samples were retrieved after a period of 62 days, and the remaining three samples were retrieved after a period of 64-65 days. The possibility of loss or vandalism of cage samplers in 1986 was minimized by setting duplicate cage samplers at each of the four stations. This succeeded in ensuring that two samples were collected at each station, as required by the NPDES permit.

Materials collected in the field by dredging or in the cages were concentrated through a set of standard sieves to reduce the amount of debris. Large debris and rocks retained by the larger mesh sieves were thoroughly examined for attached organisms before discarding. A #30 USGS standard sieve was used to concentrate the final portion of the sample. Material retained by this sieve was preserved with 70% denatured ethanol, or 10% formalin solution.

In the laboratory, preserved samples were examined with a 2 magnification hard lens and organisms were removed for taxonomic identification. If the sample contained large quantities of chironomid larvae, these organisms were subsampled into one quarter of the total and counted. These counts were multiplied by four to estimate total number present. Cladocerans, which were occasionally collected in large numbers in association with the cage samples, were not included as part of the macroinvertebrate summaries. The size of these organisms suggests that this group should be more appropriately classified as zooplankton. Bryozoans were quantified by their relative abundance within a sample (light, medium, or heavy) and were not included in the macroinvertebrate summaries.

Identification of organisms to the lowest practicable level were made with a dissecting microscope and inverted microscope. Representative samples of chironomid larvae and oligochaetes were mounted on slides, using a clearing mountant, and examined.

Identification, taxonomy, and phylogeny of the invertebrates were consistent with Merritt and Cummins (1984) and Pennak (1978). Identifications were supplemented with the following keys: Burks, 1978; Johannsen, 1977; Mason, 1973; Parrish, 1975; Schuster and Etnier, 1978; Simpson and Bode, 1980; Usinger, 1974; Wiggins, 1978.

5.2 SUMMARY

There were 108 Ekman dredge and eight cage samples obtained from the four Vermont Yankee stations in 1986. From these samples, over 18,000 macroinvertebrates, representing eight invertebrate phyla, were identified (Table 5.1). The composition of macroinvertebrates captured on the benthic substrates was primarily oligochaetes, molluscs, dipterans, trichopterans, and planarians (Figure 5.1). Cage samples were predominantly comprised of trichopterans, planarians, and dipterans.

Peak densities of macroinvertebrates captured by Ekman dredge were observed in October at all sampling locations excluding Station 4. More invertebrates overall were collected upstream than downstream. Oligochaetes, molluscs, and dipterans were the predominant organisms at both upstream stations. A more diverse fauna existed downstream, with trichopterans, planarians, molluscs, and dipterans representing the largest groups of invertebrates. Ephemeropterans were collected primarily downstream.

Macroinvertebrates captured upstream by cage sampling were more evenly distributed among the major invertebrate orders than those collected in downstream samples. Station 5 collections consisted primarily of dipterans and planarians, while trichopterans, planarians, and dipterans predominated at Station 4. Ephemeropterans were observed in sizable numbers at Station 4 only in the August collection.

The benthic fauna captured in the downstream cage samples was represented by several orders of invertebrates. Station 3 was dominated primarily by trichopterans and dipterans, while at Station 2 trichopterans and planarians represented major proportions of the macroinvertebrate community.

Table 5.1 Checklist of macroinvertebrates of the Connecticut River near Vernon, Vermont in 1986.

PORIFERA
- Demospongea
  - Haplosclerina
    - Spongillidae

COELENTERATA
- Hydrozoa
  - Hydroidea
    - Hydridae
      - *Hydra* sp.

PLATYHELMINTHES
- Turbellaria
  - Tricladida
    - Planariidae
      - *Dugesia tigrina*

NEMATODA

BRYOZOA
- Gymnolaemata
  - Ctenostomata
    - Paludicellidae
      - *Paludicella articulata*
  - Phylactolaemata
    - Fredericellidae
      - *Fredericella sultana*
    - Plumatellidae
      - *Plumatella* sp.
    - Lophopodidae
      - *Lophopodella carteri*

ANNELIDA
- Oligochaeta
  - Haplotaxida
    - Naididae
      - *Allonais* sp.
      - *Dero* sp.
      - *Nais* sp.
      - *Paranais* sp.
      - *Pristina* sp.
      - *Stylaria lacustris*
    - Tubificidae
      - *Branchiura sowerbyi*
  - Lumbriculida
    - Lumbriculidae
      - *Lumbriculus* sp.
- Hirudinea
  - Rhynchobdellida
    - Glossiphonidae

Table 5.1 Checklist of macroinvertebrates of the Connecticut River near Vernon, Vermont in 1986 (continued).

ARTHROPODA
- Arachnoidea
  - Hydracarina
- Crustacea
  - Cladocera
    - Sididae
  - Isopoda
    - Asellidae
      - *Asellus* sp.
  - Amphipoda
    - Gammaridae
      - *Gammarus* sp.
    - Talitridae
      - *Hyalella azteca*
  - Decapoda
    - Cambaridae
      - *Cambarinae*
  - Ostracoda
- Insecta
  - Plecoptera
    - Perlidae
      - *Acroneuria* sp.
      - *Neoperla* sp.
  - Ephemeroptera
    - Baetiscidae
      - *Baetisca* sp.
    - Baetidae
      - *Baetis* sp.
      - *Centroptilum* sp.
      - *Cloeon* sp.
      - *Pseudocloeon* sp.
    - Caenidae
      - *Caenis* sp.
    - Ephemerellidae
      - *Eurylophella* sp.
    - Ephemeridae
      - *Hexagenia limbata*
    - Heptageniidae
      - *Epeorus* sp.
      - *Heptagenia* sp.
      - *Nixe* sp.
      - *Stenacron* sp.
      - *Stenonema* sp.
    - Polymitarcidae
      - *Ephoron* sp.
    - Siphlonuridae
      - *Isonychia* sp.

Table 5.1 Checklist of macroinvertebrates of the Connecticut River near Vernon, Vermont in 1986 (continued).

ARTHROPODA (continued)
- Tricorythidae
  - *Tricorythodes* sp.
- Odonata
  - Aeschnidae
    - *Basiaeschna* sp.
    - *Boyeria* sp.
  - Coenagrionidae
    - *Enallagma* sp.
  - Corduliidae
    - *Neurocordulia* sp.
  - Gomphidae
    - *Stylurus* sp.
  - Libellulidae
  - Macromiidae
    - *Macromia* sp.
- Megaloptera
  - Sialidae
    - *Sialis* sp.
- Neuroptera
  - Sisyridae
    - *Sisyra* sp.
- Trichoptera
  - Hydropsychidae
    - *Cheumatopsyche* sp.
    - *Hydropsyche* sp.
    - *Macronema* sp.
  - Hydroptilidae
    - Hydroptilinae
      - *Agraylea* sp.
      - *Hydroptila* sp.
      - *Oxyethira* sp.
  - Lepidostomatidae
    - *Lepidostoma* sp.
  - Leptoceridae
    - *Ceraclea* sp.
    - *Mystacides* sp.
    - *Nectopsyche* sp.
    - *Oecetis* sp.
    - *Triaenodes* sp.
  - Limnephilidae
  - Molannidae
    - *Molanna* sp.
  - Philopotamidae
    - *Chimarra* sp.

Table 5.1 Checklist of macroinvertebrates of the Connecticut River near Vernon, Vermont in 1986 (continued).

ARTHROPODA (continued)
- Polycentropodidae
  - *Cyrnellus* sp.
  - *Neureclipsis* sp.
  - *Phylocentropus* sp.
  - *Polycentropus* sp.
- Hymenoptera
- Coleoptera
  - Elmidae
    - *Dubiraphia* sp.
    - *Optioservus* sp.
    - *Stenelmis* sp.
  - Gyrinidae
    - *Dineutes* sp.
  - Hydrophilidae
    - *Berosus* sp.
- Diptera
  - Anthomyiidae
  - Chironomidae
    - Tanypodinae
      - *Ablabesmyia annulata*
      - *Ablabesmyia mallochi*
      - *Coelotanypus* sp.
      - *Djalmabatista* sp.
      - *Labrundinia* sp.
      - *Procladius* sp.
      - *Thienemannimyia* sp.
    - Diamesinae
      - *Potthastia longimanus*
    - Prodiamesinae
      - *Monodiamesa* sp.
    - Orthocladiinae
      - *Corynoneura* sp.
      - *Cricotopus* sp.
      - *Cricotopus bicinctus*
      - *Nanocladius* sp.
      - *Parametriocnemus lundbecki*
      - *Psectrocladius* sp.
      - *Tvetenia discoloripes*
    - Chironominae
      - *Axarus* sp.
      - *Chironomus* sp.
      - *Cladopelma* sp.
      - *Cryptochironomus* sp.
      - *Cryptotendipes* sp.
      - *Demicryptochironomus* sp.
      - *Dicrotendipes* sp.
      - *Dicrotendipes neomodestus*

Table 5.1 Checklist of macroinvertebrates of the Connecticut River near Vernon, Vermont in 1986 (continued).

ARTHROPODA (continued)
- *Endochironomus* sp.
- *Endochironomus nigricans*
- *Endochironomus subtendens*
- *Glyptotendipes* sp.
- *Harnischia* sp.
- *Lauterborniella* sp.
- *Lenziella* sp.
- *Micropsectra* sp.
- *Nilothauma* sp.
- *Pagastiella* sp.
- *Parachironomus* sp.
- *Paracladopelma* sp.
- *Paracladopelma longanae*
- *Paralauterborniella* sp.
- *Paratanytarsus* sp.
- *Phaenopsectra* sp.
- *Phaenopsectra dyari*
- *Polypedilum* sp.
- *Polypedilum convictum*
- *Polypedilum illinoense*
- *Polypedilum* nr. *scalaenum*
- *Pseudochironomus* sp.
- *Rheotanytarsus* sp.
- *Rheotanytarsus exiguus*
- *Robackia* sp.
- *Robackia demeigerei*
- *Stempellina* sp.
- *Stempellinella* sp.
- *Stenochironomus* sp.
- *Tanytarsus* sp.
- *Tanytarsus glabrescens*
- *Tanytarsus guerlus*
- *Tribelos* sp.
- *Zavrelia* sp.

Empididae
- *Hemerodromia* sp.

Heleidae

Simuliidae

Hemiptera

Aphididae

MOLLUSCA

Gastropoda

Bassommatophora

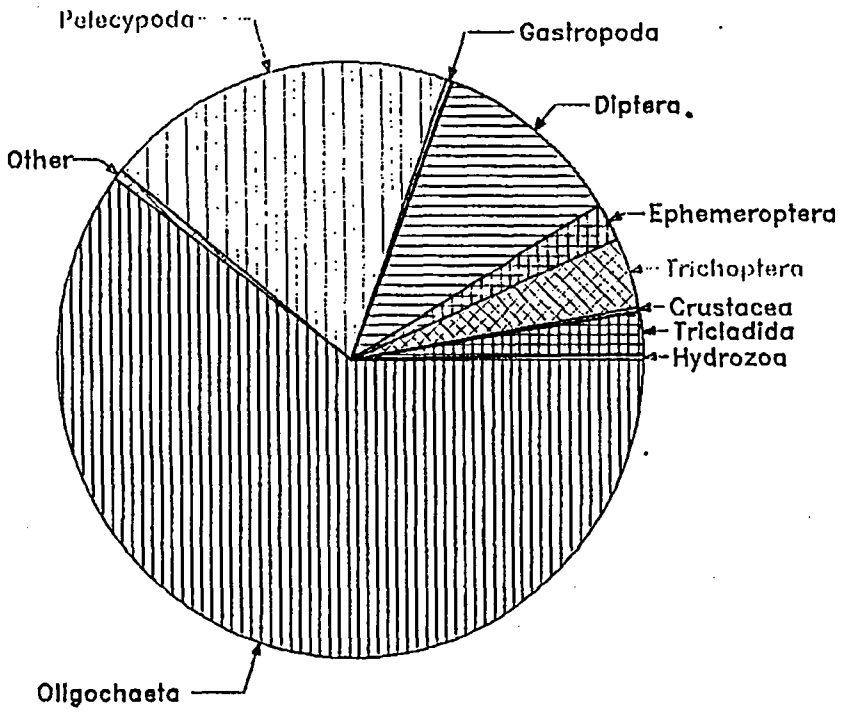
Ancylidae

Lymnaeidae
- *Lymnaea* sp.

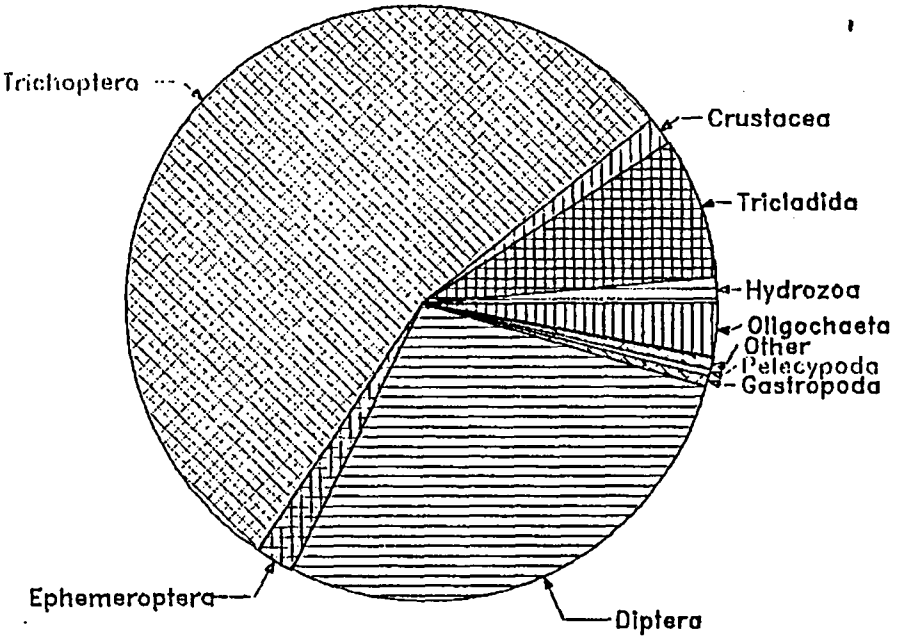
Physidae
- *Physa* sp.

Table 5.1 Checklist of macroinvertebrates of the Connecticut River near Vernon, Vermont in 1986 (continued).

MOLLUSCA (continued)
- Megagastropoda
  - Hydrobiidae
    - *Amnicola* sp.
- Pelecypoda
  - Prionodesmacea
    - Sphaeriidae
      - *Musculium* sp.
      - *Pisidium* sp.
      - *Sphaerium* sp.
    - Unionidae



EKMAN DREDGE



CAGE SAMPLER

Figure 5.1 Composition of Macroinvertebrates by Sampling Gear, 1986

6. FISH STUDIES

Fisheries monitoring programs were revised in the 1986 permit to more specifically address the monitoring objectives. Fish are now required to be collected on a defined schedule and at specified stations rather than in accordance with the loosely defined requirements in the previous permit. Collection procedures are also specified using trap nets and electrofishing gear. These changes reflect the actual procedures that have been employed to obtain representative spatial and temporal distribution of fish for several years.

Fish impingement sampling at service water traveling screens is no longer required. Collections at the circulating water traveling screens are no longer required from November through March, even if the plant is operating in an open or hybrid mode. Additional sampling is required in May, June, and August through October to reflect summer operation.

Larval fish collections not previously required will be collected from May to mid-June at the intake during open or hybrid cycle operation.

In 1986, additional goal-oriented fisheries studies were conducted. Investigations on resident fish included the continuation of a marking program with dart tags for smallmouth bass, ichthyoplankton sampling in May and June near Vermont Yankee intake, and annuli formation analysis for selected game species.

An investigation of juvenile shad was also undertaken in 1986. The objectives of this study were to examine spatial age distribution patterns and habitat preferences of the juvenile shad in the upper Turners Falls region. Juvenile shad were collected weekly from June through October at five stations by electrofishing and seining. Juvenile shad captured were weighed and measured, and a subsample of each collection had otoliths removed for aging of the individuals. Habitat measurements of these fish sampling locations were also made routinely and included

water quality, phytoplankton, zooplankton and macroinvertebrate composition and density. Analysis of the shad distribution studies and habitat evaluations will be presented in subsequent analytical bulletins in 1987.

6.1 Methods of Collection and Processing

Fish impinged on the circulating water traveling screens were sampled weekly from 15 October through 31 October when the plant was operated in open cycle. Initially all three circulating water screens are backwashed and debris removed from the collection galley. This debris is examined for Atlantic salmon or American shad. The screens are again backwashed after approximately 24 hours. The collected debris is examined for all species of fish. Fish impinged on traveling screens are preserved and later individually weighed and measured.

Fish were collected in 1986 by trap nets and electrofishing. The required monthly sets of trap nets were made at the eight designated stations near Vermont Yankee (Figures 1.1 and 6.1). Trap nets were constructed of a steel frame covered with a 1.3 cm knotless bar mesh nylon with a 1 by 2 meter front opening. These nets had two 8-meter wings and a 33-meter lead. Nets were checked daily for two consecutive days at each sample location.

Electrofishing was conducted in the evening beginning at dusk in areas near the trap net locations. Electrofishing utilized a boat-mounted Coffelt Electronics Model VVP-15 electroshocker.

Standard procedure for processing fish was to weigh and measure each fish captured. When a large number of fish were captured and processing of these fish individually would have resulted in high mortality, they were separated by species and the species weighed collectively.

Representative scale samples for annulus determinations were taken from five resident species: white perch, yellow perch, walleye, small-

mouth bass, and largemouth bass. White perch scales were taken dorsal to the lateral line and below the insertion of the dorsal fin. Scale samples from other species were taken ventral to the lateral line near the tip of the pectoral fin.

6.2 SUMMARY

Ichthyoplankton

No ichthyoplankton samples at the intake were required in 1986 since the plant was not operating in an open/hybrid mode during May through July.

Fish

Twenty-four species representing eleven families were collected in 1986 (Table 6.1). During 1986, 156 fish collections were made (Table 6.2). Trap net samples represented 72% and electrofishing 28% of the total number of collections required for the operational studies.

A total of 3,849 fish weighing 525 kg was collected in 1986 studies (Table 6.3). The most common fishes were minnows, perches and suckers, comprising 29%, 20%, and 11%, respectively. Biomass was mainly comprised of suckers (30%), carp (12%), and white perch (10%).

Upstream collections contained over 65% of the fish caught (Table 6.4). Yellow perch (27%), spottail shiners (19%), and suckers (14%) were the most abundant fish. Upstream biomass was predominately white suckers (30%), white perch (16%), and yellow perch (13%).

The most abundant fishes captured downstream were shiners (spottail and mimics) (30%), rock bass (18%), American shad (12%), and smallmouth bass (12%) (Table 6.5). The major contributors to downstream fish biomass were white suckers (32%), carp (18%), rock bass (16%) and smallmouth bass (12%).

Scales were obtained from 1,308 resident fish representing five species. Summary statistics for lengths and weights for each species are presented in Tables 6.6 through 6.10.

Impingement

During 1986 studies, a total of three samples were collected from the circulating water traveling screens (Table 6.11). A total of three fish (39 grams) representing two species was collected from circulating water screens; the average daily impingement rate was one fish per day, each with an average weight of less than 13 grams.

No Atlantic salmon or clupeids were impinged in 1986.

Table 6.1 Checklist of fishes collected during 1986.

	Common Name*
CHORDATA	
AGNATHA	
PETROMYZONTIFORMES	
Petromyzontidae	
Petromyzon marinus Linnaeus	Sea lamprey
OSTEICHTHYES	
ANGUILLIFORMES	
Anguillidae	
Anguilla rostrata (LeSueur)	American eel
CLUPEIFORMES	
Clupeidae	
Alosa aestivalis (Mitchill)	Blueback herring
Alosa sapidissima (Wilson)	American shad
SALMONIFORMES	
Salmonidae	
Salmo trutta Linnaeus	Brown trout
Esocidae	
Esox lucius Linnaeus	Northern pike
Esox niger LeSueur	Chain pickerel
CYPRINIFORMES	
Cyprinidae	
Cyprinus carpio Linnaeus	Common carp
Hybognathus regius Girard	Eastern silvery minnow
Notemigonus crysoleucas (Mitchill)	Golden shiner
Notropis hudsonius (Clinton)	Spottail shiner
Notropis volucellus (Cope)	Mimic shiner
Semotilus corporalis (Mitchill)	Fallfish
Catostomidae	
Catostomus commersoni (Lacepede)	White sucker
SILURIFORMES	
Ictaluridae	
Ictalurus nebulosus (LeSueur)	Brown bullhead
PERCIFORMES	
Percichthyidae	
Morone americana (Gmelin)	White perch
Centrarchidae	
Ambloplites rupestris (Rafinesque)	Rock bass
Lepomis gibbosus (Linnaeus)	Pumpkinseed
Lepomis macrochirus Rafinesque	Bluegill
Micropterus dolomieui Lacepede	Smallmouth bass
Micropterus salmoides (Lacepede)	Largemouth bass
Percidae	
Etheostoma olmstedi Storer	Tessellated darter
Perca flavescens (Mitchill)	Yellow perch
Stizostedion vitreum vitreum (Mitchill)	Walleye

* Source: Robins *et al.*, 1980.

Table 6.2 Fishing effort, 1986. (CPE = number of fish per hour). Impingement effect is not included.

	Electrofishing				Trap Net			
Station	Coll's	Hours	Fish	CPE	Coll's	Hours	Fish	CPE
Station 2	4	1.4	143	105.9	16	210.4	118	0.6
Stebbin Island	8	3.1	525	170.3	16	336.2	173	0.5
Station 3	4	1.0	169	177.9	8	166.6	31	0.2
0.1 Mile South of Vernon Dam	4	1.0	134	134.0	8	167.6	46	0.3
N.H. Setback	4	1.0	228	224.3	8	178.1	113	0.6
Station 4	8	2.4	418	180.4	32	691.1	488	0.7
Station 5	8	2.4	550	227.6	16	358.4	475	1.32
Rum Point	4	0.7	133	185.6	8	178.6	102	0.6
TOTALS	44	13.00	2,300		112	2,287.0	1,546	

Table 6.3 Numbers and weights of fishes collected upstream and downstream of Vernon Dam in 1986.

	TOTAL (#)	NUMBER (%)	TOTAL (g)	WEIGHT (%)
Sea lamprey	2	0.1	1000	0.2
American eel	21	0.5	5389	1.0
Cupleidae	5	0.1	50	<0.1
Blueback herring	4	0.1	683	0.1
American shad	157	4.1	13928	2.7
Brown trout	1	<0.1	143	<0.1
Northern pike	1	<0.1	1675	0.3
Chain pickerel	5	0.1	1825	0.3
Common carp	19	0.5	60137	11.5
Eastern silvery minnow	27	0.7	29	<0.1
Golden shiner	123	3.2	6706	1.3
Spottail shiner	754	19.6	6085	1.2
Mimic shiner	147	3.8	277	0.1
Fallfish	34	0.9	3285	0.6
White sucker	434	11.3	160283	30.5
Brown bullhead	4	0.1	868	0.2
White perch	219	5.7	51779	9.9
Rock bass	377	9.8	43799	8.3
Lepomis sp.	1	<0.1	2	<0.1
Pumpkinseed	217	5.6	17703	3.4
Bluegill	136	3.5	12013	2.3
Smallmouth bass	265	6.9	46403	8.8
Largemouth bass	89	2.3	19542	3.7
Tessellated darter	3	0.1	18	<0.1
Yellow perch	770	20.0	50368	9.6
Walleye	34	0.9	20768	4.0
TOTAL	3849	100	524758	100

Table 6.4 Numbers and weights of fishes captured by different gears upstream of Vernon Dam in 1986.

	CWTS		Electrofishing		Trap Net					
	Number	Total Wgt (g)	Number	Total Wgt (g)	Number	Total Wgt (g)	TOTAL (#)	NUMBER (%)	TOTAL (G)	WEIGHT (%)
American eel			7	2863			7	0.3	2863	0.9
American shad					1	1248	1	<0.1	1248	0.4
Common carp			4	11912	6	14678	10	0.4	26590	8.0
Eastern silvery minnow					1	15	1	<0.1	15	<0.1
Golden shiner	1	36	49	1711	68	4731	118	4.7	6478	1.9
Spottail shiner			276	2448	197	1803	473	18.8	4251	1.3
Mimic shiner			27	65	1	7	28	1.1	72	<0.1
White sucker			273	54396	66	44899	339	13.5	99295	29.8
Brown bullhead			1	7	1	281	2	0.1	288	0.1
White perch			99	19524	120	32255	219	8.7	51779	15.5
Rock bass	2	3	13	1225	115	11253	130	5.2	12481	3.7
Lepomis sp.			1	2			1	<0.1	2	<0.1
Pumpkinseed			51	3896	139	11756	190	7.6	15647	4.7
Bluegill			53	3511	34	2549	87	3.5	6060	1.8
Smallmouth bass			31	4631	79	18356	110	4.4	22987	6.9
Largemouth bass			65	18074	13	137	78	3.1	18211	5.5
Tessellated darter			3	18			3	0.1	18	<0.1
Yellow perch			365	19264	318	25373	683	27.2	44637	13.4
Walleye			11	8189	19	12221	30	1.2	20410	6.1
TOTAL	3	39	1329	151730	1178	181562	2510	100	333331	100

Table 6.5 Numbers and weights of fishes captured by different gears downstream of Vernon Dam in 1986.

	Electrofishing		Trap Net					
	Number	Total Wgt (g)	Number	Total Wgt (g)	TOTAL (#)	NUMBER (%)	TOTAL (g)	WEIGHT (%)
Sea lamprey	1	472	1	528	2	0.1	1000	0.5
American eel	13	2457	1	69	14	1.0	2526	1.3
Clupeidae			5	50	5	0.4	50	<0.1
Blueback herring	3	547	1	136	4	0.3	683	0.4
American shad	156	12680			156	11.7	12680	6.6
Brown trout	1	143			1	0.1	143	0.1
Northern pike	1	1675			1	0.1	1675	0.9
Chain pickerel	4	1339	1	486	5	0.4	1825	1.0
Common carp	3	13599	6	19948	9	0.7	33547	17.5
Eastern silvery minnow	1		25	14	26	1.9	14	<0.1
Golden shiner	4	147	1	81	5	0.4	228	0.1
Spottail shiner	242	1514	39	320	281	21.0	1834	1.0
Mimic shiner	118	204	1	1	119	8.9	205	0.1
Fallfish	34	3285			34	2.5	3285	1.7
White sucker	86	54007	9	6981	95	7.1	60988	31.9
Brown bullhead	1	79	1	501	2	0.1	580	0.3
Rock bass	54	5210	193	26107	247	18.4	31317	16.4
Pumpkinseed	14	858	13	1198	27	2.0	2056	1.1
Bluegill	22	2081	27	3872	49	3.7	5953	3.1
Smallmouth bass	135	18939	20	4477	155	11.6	23416	12.2
Largemouth bass	11	1331			11	0.8	1331	0.7
Yellow perch	63	3804	24	1927	87	6.5	5731	3.0
Walleye	4	358			4	0.3	358	0.2
TOTAL	971	124730	368	66696	1339	100	191426	100

Table 6.6 Length and weight statistics for white perch collected in 1986.

Upstream of Vernon Dam

Number of Annuli	Number of Fish	Total Length (mm)			Total Weight (g)		
		Avg	SD	Range	Avg	SD	Range
0	13	88	7	76 - 99	16	8	7 - 34
1	63	188	24	112 - 220	94	34	19 - 170
2	54	236	31	152 - 273	201	75	35 - 326
3	28	267	12	244 - 288	287	57	152 - 407
4	33	276	14	250 - 323	321	63	232 - 487
5	28	291	12	268 - 325	370	60	270 - 576
6	21	293	20	254 - 331	406	77	274 - 533
7	9	294	24	261 - 344	392	77	304 - 543
8	2	293	35	268 - 317	425	185	294 - 555
9	2	299	16	287 - 310	434	16	423 - 445

Downstream of Vernon Dam

Number of Annuli	Number of Fish	Total Length (mm)			Total Weight (g)		
		Avg	SD	Range	Avg	SD	Range
4	1	285		285 - 285	380		380 - 380

Table 6.7 Length and weight statistics for yellow perch collected in 1986.

Upstream of Vernon Dam

Number of Annuli	Number of Fish	Total Length (mm)			Total Weight (g)		
		Avg	SD	Range	Avg	SD	Range
0	46	93	13	67 - 134	14	7	4 - 45
1	235	140	24	91 - 196	34	17	3 - 93
2	138	198	21	137 - 253	89	31	41 - 185
3	99	224	21	155 - 283	132	42	47 - 259
4	27	253	23	221 - 310	195	66	124 - 354
5	13	262	18	233 - 300	207	58	128 - 360
6	6	263	35	201 - 296	208	67	92 - 264

Downstream of Vernon Dam

Number of Annuli	Number of Fish	Total Length (mm)			Total Weight (g)		
		Avg	SD	Range	Avg	SD	Range
0	2	94	9	87 - 100	9	0	9 - 9
1	20	157	24	117 - 215	47	20	17 - 102
2	12	197	41	135 - 258	109	76	30 - 252
3	8	225	29	180 - 264	144	62	58 - 220
4	3	251	48	208 - 303	240	166	136 - 431
5	1	296		296 - 296	295		295 - 295

Table 6.8 Length and weight statistics for walleye collected in 1986.

Upstream of Vernon Dam

Number of Annuli	Number of Fish	Total Length (mm)			Total Weight (g)		
		Avg	SD	Range	Avg	SD	Range
0	2	184	19	170 - 197	52	35	27 - 77
1	9	278	52	196 - 347	192	100	62 - 365
2	6	356	40	325 - 415	424	151	262 - 621
3	7	438	20	408 - 471	804	231	634 -1300
4	5	462	17	434 - 475	841	163	732 - 894
5	7	494	50	435 - 587	1016	345	682 -1666
8	1	574		574 - 574	1654		1654 -1654
9	1	667		667 - 667			

Downstream of Vernon Dam

Number of Annuli	Number of Fish	Total Length (mm)			Total Weight (g)		
		Avg	SD	Range	Avg	SD	Range
0	2	220	16	209 - 231	90	35	65 - 115
1	6	254	55	208 - 358	139	82	75 - 295
3	1	448		448 - 448	821		821 - 821

Table 6.9 Length and weight statistics for smallmouth bass collected in 1986.

Upstream of Vernon Dam

Number of Annuli	Number of Fish	Total Length (mm)			Total Weight (g)		
		Avg	SD	Range	Avg	SD	Range
0	2	81	23	64 - 97	14	13	4 - 23
1	44	173	23	125 - 232	68	30	32 - 175
2	46	224	27	153 - 280	156	63	57 - 360
3	16	281	37	230 - 364	273	96	141 - 495
4	7	334	57	251 - 421	547	270	199 - 940
5	4	402	20	374 - 420	873	170	620 - 980
6	2	404	69	355 - 453	869	508	510 -1228
7	1	515		515 - 515	2005		2005 -2005

Downstream of Vernon Dam

Number of Annuli	Number of Fish	Total Length (mm)			Total Weight (g)		
		Avg	SD	Range	Avg	SD	Range
0	9	66	15	51 - 97	6	4	2 - 13
1	69	165	26	88 - 238	67	36	13 - 207
2	61	230	29	174 - 295	170	63	82 - 352
3	34	275	33	195 - 352	275	99	91 - 610
4	8	288	43	229 - 345	380	136	187 - 577
5	3	349	23	329 - 374	562	111	490 - 690
6	7	374	15	356 - 398	706	90	578 - 822
7	2	380	33	356 - 403	876	262	690 -1061

Table 6.10 Length and weight statistics for largemouth bass collected in 1986.

Upstream of Vernon Dam

Number of Annuli	Number of Fish	Total Length (mm)			Total Weight (g)		
		Avg	SD	Range	Avg	SD	Range
0	16	118	31	77 - 178	31	22	9 - 85
1	18	202	64	90 - 294	154	109	18 - 349
2	14	305	61	178 - 370	449	214	84 - 750
3	16	345	38	256 - 404	660	182	283 -1031
4	7	369	20	351 - 400	751	138	606 -1010
5	2	403	7	398 - 408	1092	141	992 -1191
6	1	484		484 - 484	1600		1600 -1600
7	2	449	11	441 - 456	1391	118	1307 -1474

Downstream of Vernon Dam

Number of Annuli	Number of Fish	Total Length (mm)			Total Weight (g)		
		Avg	SD	Range	Avg	SD	Range
1	1	163		163 - 163			
2	1	324		324 - 324	495		495 - 495
3	3	345	10	335 - 355	624	13	611 - 636
7	1	459		459 - 459	1500		1500 -1500

Table 6.11 Monthly impingement of fish on Vermont Yankee's circulating water traveling screens in 1986.

	April	May	June	Sept.	Oct.
Number of Collections:					3
	No.-Weight (g)	No.-Weight (g)	No.-Weight (g)	No.-Weight (g)	No.-Weight (g)
Golden shiner	N.O.[1]	N.O.[1]	N.O.[1]	N.O.[1]	1-36
Rock Bass					2- 3
TOTAL					3-39

[1] N.O. - Vermont Yankee was not operating in an open/hybrid cycle and impingement sampling was not required by permit.

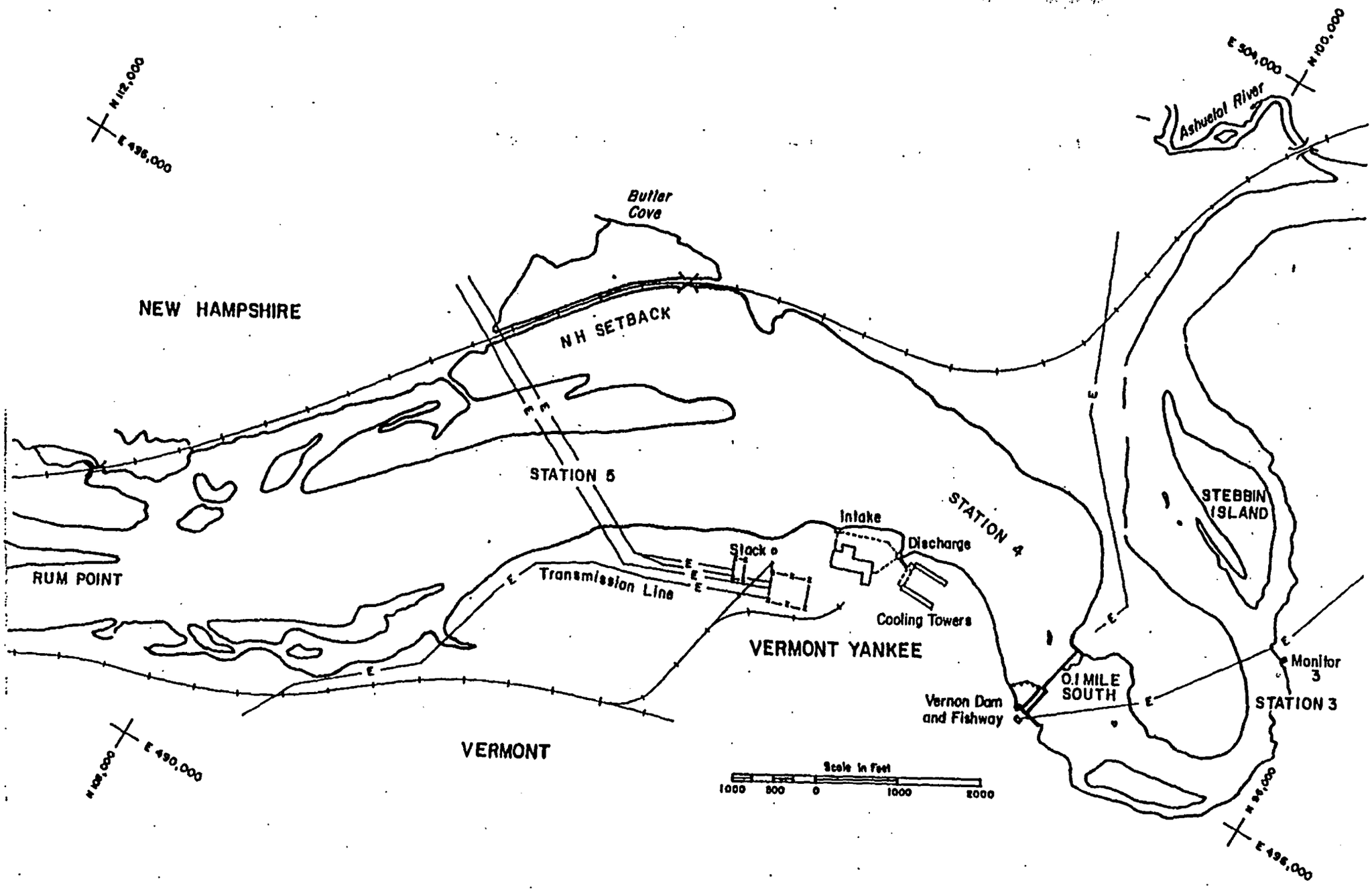


Figure 6.1 FISH SAMPLING LOCATIONS

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MONITOR 7
CONNECTICUT RIVER/VERMONT YANKEE

Results in milligrams per liter (mg/l) unless otherwise noted.

Parameters	January 16 11:00	February 18 13:00	March 17 11:35	April 16 08:45
Temperature (°F)	32.2	33.4	34.5	44.6
Dissolved Oxygen	13.5	14.2	14.6	12.1
pH (Std. Units)	7.6	7.9	7.8	7.0
Alkalinity as $CaCO_3$	34	39	26	27
Total Kjeldahl Nitrogen	0.36	0.44	0.38	0.30
Ammonia Nitrogen	0.10	0.09	0.08	0.04
Nitrate and Nitrite as N	<0.01	0.38	0.33	0.28
Nitrite as N	0.004	0.004	0.008	0.005
Total Phosphate as P	0.022	0.021	0.059	0.026
Orthophosphate as P	0.012	0.009	0.010	0.014
Total Solids	71	69	101	83
Total Suspended Solids	1.1	1.2	25	27
Turbidity (NTU)	2.2	1.2	8.5	2.2
Sodium	5.0	5.2	6.1	3.8
Chloride	6.3	6.5	9.0	4.8
Sulfate	9.5	9.8	8.8	7.9
Copper	0.005	0.007	0.005	<0.005
Iron	0.20	0.20	0.42	0.26
Zinc	0.045	0.037	0.011	0.013
Calcium	12.9	13.2	9.1	7.5
Calcium Hardness as $CaCO_3$	32.2	33.0	22.7	18.7
Magnesium	1.71	1.59	1.31	1.22
Magnesium Hardness as $CaCO_3$	7.0	6.5	5.4	5.0
Total Hardness as $CaCO_3$	39.2	39.5	28.1	23.7
Biochemical Oxygen Demand (5-day)				
Uninhibited	—	—	0.9	0.8
Inhibited	—	—	0.6	0.6
Biochemical Oxygen Demand (20-day)				
Uninhibited	—	—	2.2	1.5
Inhibited	—	—	1.3	1.1

MONITOR 7
CONNECTICUT RIVER/VERMONT YANKEE

Results in milligrams per liter (mg/l) unless otherwise noted.

Parameters	May 15 08:10	June 13 08:50	July 17 13:30	August 11:50
Temperature (°F)	57.8	62.1	—	70.6
Dissolved Oxygen	10.6	9.2	8.8	8.4
pH (Std. Units)	7.0	7.3	7.5	7.2
Alkalinity as $CaCO_3$	26	33	37	36
Total Kjeldahl Nitrogen	0.35	0.24	0.25	0.26
Ammonia Nitrogen	0.05	0.04	0.04	0.05
Nitrate and Nitrite as N	0.29	0.23	0.22	0.18
Nitrite as N	0.003	0.006	0.005	0.002
Total Phosphate as P	0.050	0.036	0.012	0.023
Orthophosphate as P	<0.005	0.017	<0.005	0.006
Total Solids	55	105	82	77
Total Suspended Solids	3.4	13	5.3	7.8
Turbidity (NTU)	1.6	2.4	2.2	3.0
Sodium	4.2	5.0	5.8	4.8
Chloride	4.4	6.0	8.3	6.2
Sulfate	7.9	8.4	8.8	6.5
Copper	<0.005	0.006	0.011	0.006
Iron	0.23	0.30	0.12	0.23
Zinc	0.014	0.017	0.024	0.019
Calcium	9.9	13.4	14.3	14.4
Calcium Hardness as $CaCO_3$	24.7	33.5	35.7	36.0
Magnesium	1.26	1.53	1.63	1.45
Magnesium Hardness as $CaCO_3$	5.2	6.3	6.7	6.0
Total Hardness as $CaCO_3$	29.9	39.8	42.4	42.0
Biochemical Oxygen Demand (5-day)				
Uninhibited	1.1	0.9	0.9	0.4
Inhibited	0.8	0.7	0.7	0.2
Biochemical Oxygen Demand (20-day)				
Uninhibited	2.3	1.4	1.8	1.9
Inhibited	1.7	2.1	1.4	1.2

MONITOR 7
CONNECTICUT RIVER/VERMONT YANKEE

Results in milligrams per liter (mg/l) unless otherwise noted.

Parameters	September 19 14:00	October 16 10:00	November 14 08:45	December 15 14:00
Temperature (°F)	62.8	55.1	39.6	33.2
Dissolved Oxygen	9.5	10.6	12.4	14.1
pH (Std. Units)	7.4	7.6	7.0	6.7
Alkalinity as $CaCO_3$	40	34	28	26
Total Kjeldahl Nitrogen	0.36	0.24	0.25	0.15
Ammonia Nitrogen	0.05	0.07	0.07	0.05
Nitrate and Nitrite as N	0.25	0.19	0.28	0.33
Nitrite as N	0.003	0.003	0.002	0.004
Total Phosphate as P	0.018	0.011	0.018	0.016
Orthophosphate as P	<0.005	<0.005	<0.005	<0.005
Total Solids	96	56	56	67
Total Suspended Solids	4.3	2.4	2.4	2.7
Turbidity (NTU)	1.2	1.7	1.6	2.0
Sodium	5.9	4.9	4.4	4.6
Chloride	7.6	5.3	4.6	6.3
Sulfate	9.7	8.2	8.1	8.4
Copper	<0.005	<0.005	<0.005	<0.005
Iron	0.10	0.19	0.19	0.14
Zinc	0.011	0.007	0.007	0.015
Calcium	14.9	12.7	10.8	10.3
Calcium Hardness as $CaCO_3$	37.2	31.7	27.0	25.7
Magnesium	1.79	1.62	1.46	1.46
Magnesium Hardness as $CaCO_3$	7.4	6.7	6.0	6.0
Total Hardness as $CaCO_3$	42.0	44.6	38.4	33.0
31.7				
Biochemical Oxygen Demand (5-day)				
Uninhibited	0.8	0.7	0.8	0.4
Inhibited	0.6	0.5	0.4	0.2
Biochemical Oxygen Demand (20-day)				
Uninhibited	2.4	1.5	1.7	1.2
Inhibited	1.5	0.9	0.8	0.8

VERMONT YANKEE DISCHARGE

Results in milligrams per liter (mg/l) unless otherwise noted.

Parameters	July 23[1] --	August 15[1] 08:25	September 17[1] 10:04	October 16 11:05	November 14 10:30	December 15 12:32
Temperature (°F)	81.3	77.1	--	79.1	77.7	72.5
Dissolved Oxygen	8.3	8.5	9.2	11.0	12.2	12.7
pH (std. units)	7.45	7.7	7.6	7.4	7.3	6.6
Alkalinity as $CaCO_3$	30	36	18	33	29	29
Total Solids	179	158	206	58	65	62
Total Suspended Solids	5.1	9.6	6.3	2.8	4.7	1.9
Turbidity (NTU)	2.7	6.2	3.7	1.7	2.3	1.4
Sodium	12.8	9.1	12.6	4.7	5.3	4.8
Chloride	18.6	11.5	16.2	4.7	8.5	6.4
Sulfate	53	42	55	8.8	8.9	8.7
Copper	0.20	0.26	0.29	0.007	0.008	0.008
Iron	0.22	0.46	0.22	0.20	0.27	0.14
Zinc	0.09	0.060	0.11	<0.005	0.014	0.013

[1] - Closed-cycle operation results from blow down discharge.

MONITOR 3
CONNECTICUT RIVER/VERMONT YANKEE

Results in milligrams per liter (mg/l) unless otherwise noted.

Parameters	January 16 10:30	February 18 10:25	March 17 09:30	April 16 10:36	May 15 09:15	June 13 13:30
Temperature (°F)	32.2	32.7	34.9	44.6	57.8	62.3
Dissolved Oxygen	13.6	14.5	15.0	12.5	10.2	9.4
pH (std. units)	7.7	7.9	7.2	6.9	7.0	7.2
Alkalinity as $CaCO_3$	32	37	30	26	30	38
Total Solids	75	68	121	116	60	118
Total Suspended Solids	0.8	2.3	34	15	4.5	13
Turbidity (NTU)	1.8	1.2	9.8	2.6	1.5	2.4
Sodium	4.7	4.8	—	3.7	4.3	5.1
Chloride	5.6	5.7	—	4.7	5.0	6.5
Sulfate	9.0	9.6	—	8.2	8.2	8.1
Copper	<0.005	0.006	—	0.007	<0.005	0.010
Iron	0.17	0.18	—	0.48	0.19	0.36
Zinc	0.008	0.043	—	0.019	0.009	0.013

MONITOR 3
CONNECTICUT RIVER/VERMONT YANKEE

Results in milligrams per liter (mg/l) unless otherwise noted.

Parameters	July 17 12:55	August 15 10:25	September 17 09:30	October 16 10:36	November 14 09:15	December 15 13:30
Temperature (°F)	--	71.5	63.0	53.5	41.0	35.4
Dissolved Oxygen	8.6	8.4	9.4	10.5	12.4	14.0
pH (std. units)	7.6	7.2	7.7	7.5	7.2	6.5
Alkalinity as $CaCO_3$	37	34	25	33	29	30
Total Solids	95	69	86	61	56	81
Total Suspended Solids	7.6	5.3	11	3.8	2.3	14
Turbidity (NTU)	5.1	2.6	1.6	1.7	1.5	3.5
Sodium	5.8	4.5	5.7	4.5	4.3	4.8
Chloride	8.4	5.6	6.8	4.7	4.0	6.4
Sulfate	7.4	6.6	6.0	8.4	9.1	8.7
Copper	0.13	0.008	0.01	<0.005	<0.005	0.62
Iron	0.16	0.26	0.10	0.20	0.19	0.54
Zinc	0.045	0.022	0.012	<0.005	<0.005	0.15

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 7

January 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.2	32.2	32.3	32.3	32.2	32.2	32.2	32.2
2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.3
3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
4	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
5	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
6	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
7	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
8	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
9	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
10	32.2	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
11	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
12	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
13	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
14	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
15	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
16	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
17	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
18	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
19	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
20	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2
21	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.4	32.6	32.3	32.3	32.3	32.2	32.2	32.2	32.2
22	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2
23	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.3
24	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.3	32.3	32.2	32.3
25	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
26	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
27	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.2
28	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
29	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
30	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1
31	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1

MONTHLY AVERAGE 32.2

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 7

February 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.2
3	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1
4	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1
5	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
6	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
7	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
8	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
9	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1
10	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1
11	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1
12	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1
13	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1
14	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1
15	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1
16	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1
17	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1
18	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1
19	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1
20	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
21	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
22	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
23	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
24	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
25	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
26	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
27	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
28	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2

MONTHLY AVERAGE 32.2

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 7

March 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
3	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2
4	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2
5	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2
6	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.2	32.2
7	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
8	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
9	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
10	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.2
11	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
12	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2
13	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
14	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
15	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.3	32.3	32.3
16	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.3
17	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.5	32.5	32.5	32.5	32.5	32.4	32.4	32.4	32.3	32.3	32.3
18	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.5	32.5	32.5	32.5	32.4	32.4	32.4	32.4	32.3	32.3	32.3
19	32.3	32.3	32.3	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.4	32.4	32.5	32.5	32.5	32.6	32.7	32.8	32.8	32.6	32.6	32.6	32.6	32.5	32.4
20	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.4	32.4	32.5	32.6	32.6	32.7	32.7	32.8	32.7	32.9	33.0	33.0	32.8	32.6	32.4	32.3	32.2	32.6
21	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.2	32.4	32.6	32.8	33.0	33.1	33.1	33.0	32.9	32.7	32.5	32.4	32.3	32.2	32.4
22	32.1	32.1	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.3	32.5	32.7	33.0	33.2	33.4	33.4	33.3	33.2	33.1	32.8	32.6	32.6	32.4	32.5
23	32.4	32.4	32.5	32.5	32.4	32.4	32.3	32.3	32.3	32.3	32.5	32.7	32.9	33.2	33.4	33.7	33.9	34.0	34.1	34.0	34.0	33.9	33.8	33.7	33.1
24	33.7	33.6	33.5	33.4	33.3	33.1	32.9	32.8	32.7	32.7	32.7	32.9	33.2	33.5	33.8	34.0	34.2	34.3	34.3	34.2	34.0	33.9	33.9	33.9	33.5
25	33.8	33.7	33.6	33.3	33.1	32.9	32.7	32.6	32.5	32.4	32.4	32.5	32.6	32.9	33.2	33.4	33.6	33.8	33.8	33.7	33.7	33.8	33.8	33.9	33.2
26	33.9	34.0	34.0	33.9	33.9	33.7	33.5	33.4	33.3	33.4	33.5	33.8	34.1	34.4	34.7	35.0	35.3	35.6	35.8	36.0	36.3	36.4	36.5	36.5	34.6
27	36.4	36.2	35.8	35.4	35.2	35.0	34.8	34.6	34.4	34.3	34.3	34.2	34.2	34.1	34.1	34.1	34.1	34.1	34.0	34.0	34.0	34.0	33.9	34.0	34.6
28	33.8	33.9	33.5	33.2	33.6	34.1	34.5	34.6	34.8	35.1	35.3	35.5	35.8	36.1	36.4	36.7	37.0	37.1	37.1	36.9	36.9	36.9	36.9	37.0	35.5
29	37.1	37.1	37.0	37.0	36.9	36.9	36.8	36.8	36.8	36.9	37.0	37.3	37.6	37.9	38.1	38.3	38.5	38.6	38.8	38.9	39.0	39.1	39.1	39.2	37.8
30	39.1	39.1	39.0	38.9	38.8	38.7	38.6	38.4	38.3	38.4	38.5	38.6	38.7	38.9	39.1	39.3	39.4	39.6	39.7	39.8	39.9	40.0	39.9	39.8	39.1
31	39.7	39.6	39.4	39.3	39.1	39.0	38.8	38.8	38.7	38.8	39.0	39.2	39.4	39.6	39.9	40.1	40.3	40.4	40.4	40.4	40.4	40.3	40.1	40.0	39.6

MONTHLY AVERAGE 33.3

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 7

April 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	39.9	39.7	39.6	39.4	39.3	39.1	39.0	38.9	38.9	39.0	39.1	39.3	39.6	39.9	40.2	40.5	40.7	40.9	41.0	41.1	41.0	41.0	41.0	41.0	40.0
2	40.9	40.8	40.7	40.6	40.6	40.5	40.4	40.3	40.2	40.2	40.3	40.4	40.4	40.6	40.8	40.9	41.0	41.0	41.0	41.0	41.0	40.9	40.9	40.9	40.7
3	40.8	40.8	40.8	40.7	40.7	40.6	40.5	40.3	40.3	40.3	40.4	40.5	40.6	40.8	41.0	41.1	41.3	41.3	41.3	41.3	41.1	41.1	41.0	41.0	40.8
4	40.9	40.9	40.8	40.7	40.6	40.6	40.5	40.4	40.4	40.4	40.4	40.3	40.3	40.2	40.2	40.2	40.2	40.1	40.0	40.0	39.9	39.8	39.7	39.6	40.3
5	39.6	39.5	39.4	39.3	39.2	39.2	39.1	39.1	39.2	39.2	39.4	39.6	39.7	39.9	40.1	40.2	40.3	40.3	40.3	40.3	40.3	40.3	40.2	40.1	39.7
6	40.1	40.0	40.0	39.9	39.8	39.7	39.7	39.6	39.5	39.5	39.4	39.4	39.4	39.3	39.3	39.2	39.2	39.2	39.2	39.1	39.0	39.0	38.9	38.9	39.4
7	38.8	38.8	38.7	38.7	38.6	38.6	38.6	38.5	38.5	38.5	38.5	38.6	38.6	38.7	38.8	38.9	38.9	39.0	39.0	39.1	39.1	39.2	39.2	39.2	38.8
8	39.3	39.3	39.4	39.4	39.4	39.5	39.5	39.5	39.6	39.6	39.6	39.6	39.6	39.6	39.8	40.0	40.2	40.3	40.4	40.3	40.3	40.2	40.2	40.2	39.8
9	40.1	40.1	40.1	40.1	40.1	40.0	39.8	39.7	39.7	39.9	40.0	40.1	40.1	40.1	40.1	40.2	40.2	40.4	40.6	40.7	40.8	40.8	40.8	40.8	40.2
10	40.7	40.7	40.6	40.6	40.6	40.5	40.5	40.5	40.6	40.6	40.7	40.9	41.1	41.3	41.6	41.7	41.9	41.9	41.9	41.9	41.9	41.9	41.7	41.6	41.2
11	41.5	41.4	41.3	41.2	41.0	40.9	40.8	40.8	40.8	40.7	40.8	40.9	41.0	41.0	41.0	41.0	41.0	41.0	41.0	40.9	41.0	41.0	41.1	41.0	41.0
12	40.9	40.8	40.6	40.5	40.4	40.3	40.2	40.1	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.8	40.9	40.9	41.0	41.0	41.0	40.9	40.9	40.6
13	40.8	40.8	40.7	40.6	40.5	40.4	40.4	40.3	40.4	40.4	40.5	40.6	40.8	41.1	41.4	41.5	41.7	41.9	42.0	42.0	42.1	42.1	41.9	41.9	41.1
14	41.9	41.9	41.8	41.6	41.3	41.1	40.9	40.8	40.8	40.9	41.1	41.4	41.7	42.1	42.4	42.7	43.0	43.1	43.3	43.5	43.4	43.3	43.3	43.2	42.1
15	43.1	43.1	43.2	43.3	43.3	43.3	43.2	43.1	43.1	43.2	43.2	43.3	43.4	43.6	43.8	44.0	44.1	44.3	44.4	44.4	44.5	44.5	44.6	44.6	43.7
16	44.6	44.6	44.6	44.6	44.6	44.7	44.8	44.9	45.0	45.1	45.1	45.2	45.2	45.2	45.2	45.3	45.2	45.2	45.2	45.2	45.2	45.3	45.3	45.3	45.0
17	45.3	45.2	45.1	45.0	45.0	45.0	45.0	45.1	45.2	45.4	45.7	45.9	46.2	46.4	46.6	46.8	46.9	47.0	47.0	47.1	47.1	47.1	47.0	46.9	46.0
18	46.7	46.6	46.6	46.5	46.5	46.5	46.6	46.6	46.7	46.8	47.0	47.2	47.3	47.5	47.6	47.9	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	47.3
19	48.0	48.0	48.1	48.2	48.2	48.2	48.2	48.2	48.2	48.3	48.4	48.5	48.6	48.8	48.9	49.0	49.0	49.1	49.1	49.0	49.0	48.9	48.9	48.9	48.6
20	48.8	48.8	48.8	48.8	48.8	48.9	49.0	49.0	49.1	49.2	49.4	49.5	49.6	49.8	50.0	50.1	50.1	50.1	50.1	50.1	50.2	50.2	50.2	50.2	49.5
21	50.2	50.1	50.1	50.0	49.9	49.8	49.8	49.8	49.8	49.9	50.0	50.0	50.1	50.1	50.1	50.1	50.0	49.9	49.8	49.7	49.7	49.6	49.6	49.6	49.9
22	49.6	49.6	49.6	49.7	49.7	49.7	49.7	49.8	49.9	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.7	50.7	50.8	50.8	50.8	50.9	50.9	50.9	50.3
23	50.8	50.8	50.8	50.7	50.7	50.6	50.5	50.4	50.2	50.1	50.1	50.0	49.9	49.7	49.5	49.3	49.1	48.9	48.8	48.6	48.5	48.5	48.4	48.4	49.7
24	48.3	48.2	48.1	48.1	48.0	47.9	47.8	47.8	47.8	47.9	48.1	48.3	48.5	48.7	48.9	49.0	49.1	49.2	49.3	49.3	49.3	49.3	49.3	49.2	48.6
25	49.2	49.1	49.1	49.0	49.0	49.0	49.1	49.1	49.1	49.2	49.2	49.4	49.5	49.7	49.8	49.9	50.0	50.2	50.3	50.4	50.5	50.5	50.6	50.6	49.7
26	50.7	50.6	50.6	50.6	50.6	50.7	50.7	50.9	51.0	51.1	51.3	51.4	51.6	51.8	51.9	52.0	52.1	52.1	52.1	52.1	52.1	52.2	52.2	52.4	51.5
27	52.5	52.6	52.7	52.8	52.8	52.9	52.9	52.9	53.0	53.1	53.2	53.3	53.5	53.7	53.9	54.0	54.1	54.1	54.1	54.2	54.2	54.2	54.2	54.2	53.5
28	54.2	54.2	54.1	54.0	53.9	53.9	53.8	53.9	54.0	54.2	54.4	54.5	54.8	55.0	55.2	55.4	55.5	55.6	55.6	55.6	55.7	55.7	55.8	55.9	54.8
29	55.9	55.9	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.3	56.5	56.7	56.9	57.2	57.4	57.6	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	56.9
30	57.9	57.9	58.0	57.9	57.9	57.9	57.9	58.0	58.1	58.1	58.3	58.5	58.7	58.9	59.2	59.4	59.5	59.5	59.5	59.5	59.4	59.3	59.2	59.1	58.7

MONTHLY AVERAGE 45.6

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 7

May 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.2	59.3	59.3	59.5	59.8	60.1	60.2	60.3	60.4	60.4	60.4	60.3	60.2	60.2	60.1	60.0	59.9	59.7
2	59.7	59.5	59.3	59.2	59.2	59.1	59.0	58.9	58.9	59.0	58.9	59.0	59.1	59.2	59.5	59.6	59.5	59.5	59.3	59.1	58.9	58.6	58.2	58.0	59.1
3	57.8	57.6	57.4	57.1	56.8	56.7	56.5	56.4	56.3	56.3	56.2	56.2	56.0	55.8	56.3	56.8	57.1	57.3	57.2	57.0	56.8	56.7	56.3	56.1	56.7
4	55.9	55.6	55.4	55.2	54.9	54.8	54.7	54.6	54.6	54.6	54.6	54.6	54.6	54.7	54.7	55.4	55.9	56.2	56.2	56.2	56.2	56.1	56.0	55.9	55.3
5	55.8	55.6	55.5	55.3	55.2	55.1	55.0	54.9	54.7	54.5	54.4	54.2	54.0	54.0	54.2	54.3	54.5	54.6	54.7	54.9	55.1	55.2	55.2	55.2	54.8
6	55.2	55.2	55.1	55.1	55.0	55.0	55.0	54.9	54.9	54.8	54.7	54.6	54.4	54.3	54.2	54.1	54.2	54.2	54.3	54.2	54.2	54.2	54.3	54.3	54.6
7	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.2	54.2	54.1	54.0	54.0	54.0	54.1	54.2	54.2	54.3	54.4	54.4	54.5	54.6	54.7	54.7	54.7	54.3
8	54.7	54.7	54.7	54.6	54.6	54.6	54.5	54.5	54.5	54.4	54.3	54.2	54.1	54.1	54.1	54.1	54.1	54.1	54.0	54.0	53.9	53.9	53.8	53.7	54.3
9	53.6	53.5	53.4	53.3	53.3	53.2	53.2	53.1	53.1	53.1	53.2	53.3	53.5	53.7	53.9	54.1	54.2	54.4	54.4	54.3	54.2	54.2	54.0	53.9	53.7
10	53.9	53.8	53.7	53.6	53.5	53.4	53.3	53.2	53.3	53.4	53.6	53.7	53.8	53.9	54.0	54.0	53.9	53.8	53.7	53.6	53.5	53.4	53.4	53.5	53.6
11	53.8	53.9	53.7	53.6	53.5	53.4	53.3	53.3	53.4	53.5	53.6	53.8	54.0	54.2	54.5	54.7	54.8	55.0	55.1	55.1	55.1	55.0	55.0	55.1	54.2
12	55.4	55.6	55.7	55.6	55.5	55.3	55.2	55.2	55.2	55.2	55.2	55.4	55.6	55.7	55.8	55.9	55.8	55.7	55.6	55.5	55.4	55.3	55.2	55.1	55.5
13	55.1	55.0	55.0	55.0	55.0	54.9	54.9	54.9	55.0	55.2	55.3	55.4	55.6	56.1	56.4	56.7	57.0	57.3	57.5	57.6	57.6	57.6	57.5	57.4	56.0
14	57.3	57.2	57.0	56.9	56.9	56.8	56.7	56.6	56.6	56.5	56.4	56.4	56.5	56.9	57.5	58.0	58.4	58.7	58.8	58.9	58.9	58.9	58.9	58.8	57.5
15	58.6	58.5	58.4	58.3	58.2	58.1	57.9	57.9	57.7	57.6	57.5	57.4	57.4	57.8	58.1	58.3	58.5	58.7	58.9	59.1	59.2	59.3	59.3	59.3	58.3
16	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.4	59.5	59.6	59.4	59.2	59.4	59.7	59.6	59.5	59.5	59.6	59.6	59.6	59.8	60.0	60.1	59.5
17	60.2	60.2	60.3	60.3	60.4	60.4	60.4	60.5	60.5	60.6	60.6	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.8	60.7	60.8	61.1	61.1	61.1	60.6
18	61.1	61.1	61.1	61.0	61.0	60.9	60.9	60.9	60.8	60.8	60.7	60.7	60.6	60.6	60.5	60.4	60.4	60.4	60.5	60.9	61.0	61.5	61.9	62.6	60.9
19	63.0	62.8	62.8	62.6	62.3	62.5	62.7	62.7	62.8	62.6	62.4	62.7	63.4	64.2	64.6	64.7	64.6	64.7	65.0	65.3	65.4	65.4	65.5	65.5	63.8
20	65.5	65.5	65.5	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.3	65.3	65.5	65.9	66.4	66.3	65.8	65.4	65.3	65.3	65.4	65.7	65.9	66.0	65.6
21	66.0	66.0	66.0	66.0	66.0	65.9	65.9	65.9	65.8	65.7	65.6	65.7	65.9	66.0	65.9	65.8	65.8	65.8	65.8	65.9	66.0	66.1	66.2	66.2	65.9
22	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.3	66.3	66.4	66.5	66.7	66.8	67.1	67.4	67.7	67.9	68.1	68.1	68.1	68.0	67.7	67.4	67.0	67.0
23	66.6	66.3	66.0	65.8	65.5	65.3	65.2	65.1	65.0	65.1	65.1	65.3	65.5	65.7	66.0	66.3	66.4	66.4	66.3	66.3	66.4	66.3	66.3	66.2	65.9
24	66.0	65.7	65.4	65.2	65.0	64.8	64.6	64.5	64.3	64.2	64.2	64.2	64.3	64.5	64.8	65.0	65.1	65.2	65.1	64.9	64.7	64.4	64.1	63.8	64.8
25	63.5	63.2	62.8	62.5	62.3	62.1	61.9	61.7	61.6	61.7	61.8	62.0	62.2	62.3	62.6	62.8	63.0	63.0	63.0	62.9	62.8	62.7	62.6	62.5	62.5
26	62.3	62.2	62.0	61.7	61.6	61.4	61.3	61.3	61.3	61.5	61.7	61.9	62.2	62.4	62.6	62.8	63.0	63.0	63.1	63.0	63.0	63.0	63.1	63.2	62.3
27	63.3	63.3	63.3	63.3	63.3	63.2	63.2	63.1	63.0	62.8	62.7	62.7	62.7	62.8	62.9	63.0	63.1	63.1	63.0	63.0	62.9	62.9	62.8	62.8	63.0
28	62.7	62.6	62.6	62.5	62.5	62.5	62.6	62.7	62.9	63.1	63.4	63.5	63.6	63.8	63.9	64.0	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3	63.5
29	64.2	64.2	64.1	64.0	63.9	63.8	63.7	63.7	63.6	63.7	63.8	63.9	64.0	64.3	64.6	64.9	65.1	65.3	65.5	65.5	65.5	65.4	65.4	65.4	64.5
30	65.3	65.3	65.3	65.2	65.1	65.0	65.0	65.0	65.0	65.0	65.1	65.2	65.4	65.8	66.1	66.4	66.5	66.7	66.8	66.8	66.8	66.9	66.9	66.9	65.8
31	66.9	66.7	66.6	66.6	66.6	66.5	66.5	66.4	66.5	66.8	66.9	66.8	66.7	66.5	66.8	67.1	67.1	67.1	67.1	67.2	67.3	67.3	67.4	67.6	66.9
																								MONTHLY AVERAGE	60.0

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 7

June 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	67.7	67.8	67.9	68.0	68.0	68.0	67.9	67.9	67.9	67.8	67.8	67.7	67.7	67.7	67.8	68.1	68.3	68.5	68.6	68.6	68.7	68.8	68.8	68.8	68.1
2	68.8	68.7	68.6	68.6	68.4	68.3	68.2	68.0	67.8	67.7	67.5	67.6	68.0	68.0	67.9	67.9	67.9	67.9	67.9	67.8	67.8	67.8	67.7	67.6	68.0
3	67.4	67.1	66.8	66.5	66.2	65.9	65.7	65.4	65.2	65.0	64.9	64.9	65.0	65.1	65.2	65.3	65.4	65.6	65.6	65.6	65.5	65.3	65.1	65.0	65.6
4	64.9	64.8	64.8	64.7	64.6	64.6	64.5	64.5	64.6	64.7	64.9	65.0	65.1	65.3	65.6	65.8	66.0	66.2	66.3	66.3	66.2	66.0	65.8	65.5	65.3
5	65.4	65.2	65.0	64.8	64.6	64.5	64.3	64.2	64.2	64.1	64.2	64.2	64.3	64.5	64.7	64.9	65.0	65.1	65.0	64.9	64.7	64.6	64.4	64.2	64.6
6	64.1	64.0	63.9	63.9	63.8	63.7	63.7	63.7	63.6	63.6	63.7	63.7	63.8	63.9	64.0	64.1	64.2	64.3	64.4	64.5	64.5	64.4	64.4	64.3	64.0
7	64.2	64.1	64.1	64.0	63.9	63.9	63.8	63.8	63.8	63.7	63.6	63.5	63.4	63.4	63.3	63.1	63.0	63.1	63.1	63.2	63.1	63.1	63.1	63.1	63.5
8	63.1	63.1	63.1	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	62.9	62.9	63.0	63.0	63.0	63.1	63.2	63.2	63.3	63.3	63.4	63.5	63.7	63.1
9	63.5	63.6	63.5	63.4	63.3	63.5	63.5	63.5	63.5	63.5	63.5	63.6	63.6	SYSTEM INOPERATIVE											63.5
10	SYSTEM INOPERATIVE												64.1	64.4	64.8	65.0	65.0	65.2	65.5	65.7	65.7	65.6	65.6	65.5	65.2
11	65.4	65.3	65.2	65.1	65.1	65.0	65.0	65.0	65.0	65.0	65.1	65.0	65.1	65.1	65.1	65.1	64.9	64.7	64.6	64.5	64.5	64.4	64.4	64.4	64.9
12	64.5	64.5	64.6	64.6	64.7	64.7	64.8	64.8	64.8	64.7	64.6	64.3	64.1	64.0	63.8	63.6	63.5	63.4	63.3	63.2	63.2	63.2	63.3	63.3	64.0
13	63.2	63.0	62.9	62.8	62.6	62.4	62.2	62.0	61.8	61.7	61.6	61.4	61.2	61.2	61.1	61.1	60.9	60.6	60.5	60.4	60.3	60.2	60.2	60.1	61.5
14	60.0	60.0	59.9	59.9	59.9	59.8	59.8	59.8	59.7	59.6	59.7	59.7	59.9	60.1	60.3	60.6	60.9	61.2	61.3	61.5	61.6	61.7	61.7	61.7	60.4
15	61.6	61.5	61.4	61.3	61.2	61.1	61.0	60.9	60.9	60.8	60.8	60.9	61.0	61.2	61.5	61.7	62.0	62.1	62.2	62.3	62.3	62.3	62.2	62.1	61.5
16	62.0	61.9	61.8	61.7	61.6	61.6	61.5	61.4	61.4	61.3	61.2	61.3	61.5	61.7	62.0	62.2	62.5	62.8	63.1	63.5	63.8	64.1	64.4	64.5	62.3
17	64.7	64.7	64.7	64.8	64.8	64.8	64.8	64.7	64.5	64.2	64.0	63.9	63.9	63.8	63.8	63.9	64.1	64.3	64.5	64.7	64.8	64.9	64.9	64.8	64.4
18	64.7	64.6	64.4	64.1	64.0	63.9	63.8	63.7	63.7	63.7	63.8	63.7	63.8	63.8	63.8	63.9	64.1	64.3	64.6	64.7	64.8	64.9	64.9	64.8	64.2
19	64.8	64.8	64.7	64.7	64.6	64.5	64.4	64.3	64.3	64.3	64.3	64.3	64.4	64.6	64.9	65.3	65.4	65.6	65.7	65.8	65.8	65.8	65.9	66.0	65.0
20	66.0	66.0	66.0	65.9	65.8	65.7	65.7	65.5	65.4	65.2	65.0	64.8	64.7	64.7	64.7	65.0	65.2	65.4	65.5	65.6	65.4	65.2	65.1	65.0	65.4
21	64.8	64.6	64.4	64.1	63.7	63.4	63.2	62.9	62.8	62.7	62.7	62.6	62.7	63.0	63.2	63.5	63.7	63.9	64.1	64.2	64.4	64.5	64.6	64.6	63.7
22	64.7	64.7	64.7	64.7	64.6	64.5	64.4	64.2	64.1	63.9	63.8	63.7	63.7	63.8	63.9	64.0	64.3	64.5	64.7	65.0	65.1	65.6	65.8	66.0	64.5
23	66.1	66.1	66.2	66.2	66.3	66.3	66.4	66.4	66.6	66.7	66.8	66.9	66.9	66.8	66.6	66.4	66.7	66.8	66.9	66.9	67.1	67.1	67.0	66.9	66.6
24	66.9	66.9	66.9	66.9	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	67.2	67.5	67.6	67.5	67.7	68.0	68.3	68.3	68.3	68.2	68.0	67.9	67.4
25	67.8	67.6	67.6	67.4	67.3	67.3	67.2	67.2	67.2	67.2	67.2	67.1	67.2	67.5	67.7	67.6	67.8	68.2	68.2	68.0	67.8	67.5	67.4	67.2	67.5
26	67.1	67.0	66.9	66.9	66.8	66.7	66.7	66.6	66.6	66.6	66.7	66.8	67.1	67.4	67.4	67.0	67.1	67.5	67.7	67.8	67.8	67.8	67.7	67.7	67.1
27	67.6	67.6	67.6	67.5	67.5	67.5	67.5	67.4	67.4	67.4	67.3	67.2	67.4	67.7	68.0	68.2	68.3	68.5	68.7	68.9	69.0	69.0	68.9	68.8	67.9
28	68.8	68.8	68.7	68.7	68.6	68.6	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.6	68.5
29	68.5	68.5	68.6	68.6	68.5	68.5	68.6	68.6	68.6	68.5	68.6	68.8	68.6	68.8	68.7	68.5	68.5	68.6	68.7	69.2	69.8	70.2	70.3	70.4	68.9
30	70.1	69.9	69.8	69.7	69.8	69.8	69.8	69.8	69.9	69.9	69.8	69.7	69.9	70.1	70.3	70.6	70.8	71.1	71.2	71.1	71.0	70.8	70.6	70.6	70.2

MONTHLY AVERAGE 65.3

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 7

July 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	70.4	70.3	70.2	70.1	70.0	69.9	69.8	69.8	69.7	69.6	69.5	69.3	69.4	69.7	70.0	70.4	70.8	71.2	71.3	71.4	71.4	71.3	71.1	70.9	70.3
2	70.7	70.6	70.5	70.4	70.5	70.5	70.5	70.5	70.4	70.4	70.2	70.1	69.9	69.8	69.7	69.7	69.6	69.5	69.5	69.4	69.4	69.3	69.3	69.1	69.9
3	69.0	68.9	68.8	68.7	68.7	68.6	68.5	68.4	68.3	68.2	68.0	67.5	67.0	66.7	66.7	66.9	67.4	67.8	68.1	68.1	68.1	67.9	67.8	67.6	68.0
4	67.5	67.3	67.1	66.9	66.8	66.7	66.7	66.6	66.6	66.6	66.6	66.5	66.4	66.3	66.3	66.3	66.3	66.3	66.3	66.6	66.8	66.8	66.9	66.9	66.7
5	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	67.0	67.1	67.2	67.2	67.2	67.6	67.9	68.0	68.0	67.8	67.4	67.3	67.2	67.3	67.2
6	67.2	67.3	67.3	67.3	67.3	67.3	67.4	67.4	67.2	67.2	67.2	67.3	67.6	67.8	67.9	67.9	67.9	68.1	68.1	68.2	68.1	68.3	68.4	68.4	67.7
7	68.4	68.4	68.5	68.7	68.9	69.0	69.0	69.0	69.1	69.3	69.3	69.4	69.6	69.9	70.1	70.4	70.6	70.9	70.9	70.9	70.8	70.8	70.7	70.7	69.7
8	70.7	70.7	70.7	70.8	70.8	70.7	70.7	70.7	70.6	70.6	70.6	70.8	70.9	71.2	71.5	71.8	71.9	72.0	72.1	72.1	72.0	72.1	72.2	72.3	71.2
9	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.3	72.2	72.0	71.8	71.8	71.9	72.1	72.4	72.5	72.4	72.5	72.4	72.4	72.4	72.4	72.4	72.2
10	72.4	72.3	72.3	72.3	72.2	72.2	72.1	72.1	72.1	72.2	72.2	72.3	72.5	72.5	72.7	73.0	73.2	73.4	73.5	73.5	73.4	73.3	73.2	73.1	72.6
11	73.0	72.9	72.8	72.7	72.7	72.6	72.4	72.4	72.3	72.2	72.1	71.9	71.8	71.6	71.8	72.1	72.5	72.8	72.6	72.6	72.5	72.5	72.4	72.4	72.4
12	72.3	72.3	72.2	72.1	72.1	72.0	72.0	72.0	71.9	71.9	71.9	71.9	72.0	71.9	71.9	71.7	71.6	71.5	71.5	71.6	71.7	71.8	71.8	71.9	71.9
13	71.9	71.9	71.9	71.9	71.9	71.8	71.8	71.7	71.7	71.6	71.6	71.5	71.3	71.0	70.7	70.5	70.3	70.2	69.9	69.8	70.1	70.1	70.0	69.8	71.0
14	69.5	69.3	69.1	69.0	68.7	68.6	68.5	68.6	68.7	68.9	69.1	69.0	68.8	68.5	67.8	67.3	67.1	67.2	67.7	68.2	68.2	68.2	68.3	68.4	68.4
15	68.4	68.3	68.2	68.1	68.1	68.0	67.9	67.9	67.9	68.0	68.0	68.1	68.3	68.7	68.6	68.4	68.2	68.1	68.1	68.7	69.1	69.3	69.3	69.4	68.4
16	69.3	69.3	69.3	69.2	69.2	69.3	69.3	69.3	69.3	69.4	69.4	69.4	69.4	69.3	69.2	69.1	69.2	69.3	69.3	69.3	69.2	69.2	69.2	69.1	69.2
17	69.1	69.1	69.2	69.1	69.2	69.2	69.2	69.2	69.3	69.4	69.3	69.2	69.1	69.1	69.1	68.9	68.8	68.7	68.6	68.6	68.5	68.5	68.5	68.5	68.9
18	68.5	68.6	68.6	68.6	68.6	68.6	68.7	68.7	68.9	69.1	69.3	69.4	69.4	69.5	69.6	69.7	69.8	69.8	69.9	69.9	69.9	70.0	70.1	70.0	69.3
19	70.0	69.9	69.9	69.8	69.8	69.8	69.8	69.8	69.9	69.9	69.9	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.2	69.9
20	70.3	70.3	70.3	70.3	70.4	70.5	70.5	70.5	70.6	70.6	70.6	70.7	71.3	71.4	71.3	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.7	71.8	71.0
21	71.9	71.9	71.9	71.9	71.9	71.9	71.8	71.8	71.8	71.7	71.7	72.0	72.3	72.1	72.4	72.7	73.0	73.3	73.4	73.0	73.0	73.2	73.3	73.3	72.3
22	73.3	73.2	73.2	73.2	73.1	73.0	73.0	73.0	73.0	73.1	73.2	73.1	73.1	73.1	73.3	73.4	73.4	73.5	73.7	74.0	74.0	73.6	73.6	73.9	73.3
23	74.0	74.0	73.7	73.7	73.8	73.9	74.0	74.0	74.1	74.0	74.0	74.0	74.0	74.0	74.1	74.6	75.1	75.1	75.3	75.5	75.6	75.5	75.5	75.5	74.4
24	75.5	75.4	75.3	75.3	75.2	75.2	75.1	75.0	75.0	75.0	75.0	74.9	74.9	74.8	74.8	75.0	75.4	75.9	75.9	76.0	76.2	76.2	76.3	76.4	75.3
25	76.3	76.3	76.5	76.5	76.5	76.5	76.4	76.4	76.4	76.4	76.2	76.1	76.1	75.9	75.8	75.8	76.0	76.1	76.4	76.6	76.7	76.8	76.8	76.7	76.3
26	76.8	76.9	77.0	77.1	77.1	77.0	77.0	77.0	77.0	77.1	77.0	77.0	76.8	76.7	76.6	76.6	76.6	76.5	76.6	76.7	76.6	76.7	76.6	76.7	76.8
27	76.9	77.0	77.0	77.0	77.0	77.1	77.1	77.0	77.1	77.2	77.1	77.0	77.1	77.2	77.2	77.2	77.3	77.4	77.5	77.6	77.7	77.9	77.8	77.9	77.2
28	77.8	77.7	77.6	77.6	77.5	77.5	77.5	77.5	77.5	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.7	77.8	78.0	78.0	77.9	77.9	77.8	77.6	77.6
29	77.5	77.4	77.3	77.3	77.3	77.3	77.4	77.5	77.5	77.5	77.4	77.3	77.2	77.2	77.4	77.7	77.9	78.0		SYSTEM INOPERATIVE					77.4
30						SYSTEM INOPERATIVE										75.2	75.0	74.6	74.0	73.5	72.9	72.4	71.8	71.5	73.3
31	71.5	71.7	72.0	72.2	72.3	72.2	72.2	72.1	72.2	72.1	72.1	72.2	72.2	72.2	72.2	72.1	72.0	72.0	72.0	71.9	71.8	71.8	71.7	71.6	72.0

MONTHLY AVERAGE 71.6

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 7

August 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	71.5	71.4	71.3	71.2	71.1	71.1	71.0	70.9	70.7	70.5	70.4	70.4	70.4	70.4	70.4	70.5	70.5	70.6	70.7	70.8	70.9				70.8
2											SYSTEM INOPERATIVE														
3				SYSTEM INOPERATIVE						70.9	71.1	71.3	71.6	71.8	71.9	72.0	72.1	72.1	72.1	72.1	72.0	71.9	71.8	71.8	71.8
4	71.7	71.6	71.6	71.5	71.5	71.4	71.3	71.2	71.2	71.3	71.5	71.6	71.8	71.9	72.2	72.4	72.5	72.7	72.8	72.9	72.8	72.7	72.6	72.4	72.0
5	72.2	72.1	72.0	71.9	71.7	71.6	71.5	71.5							SYSTEM INOPERATIVE										71.8
6											SYSTEM INOPERATIVE														
7					SYSTEM INOPERATIVE							72.9	72.8	72.7	72.5	72.4	72.4	72.4	72.4	72.4	72.4	72.3	72.2	72.2	72.4
8	72.3	72.4	72.5	72.5	72.4	72.3	72.1	72.0	72.0	71.9	71.9	71.9	72.1	72.1	72.4	72.6	72.8			SYSTEM INOPERATIVE					72.2
9											SYSTEM INOPERATIVE														
10											SYSTEM INOPERATIVE														
11				SYSTEM INOPERATIVE							71.6	71.7	71.8	71.9	72.0	72.1	72.2	72.2	72.2	72.1	72.0	72.0	71.9	71.9	72.0
12	71.9	71.9	71.8	71.8	71.8	71.8	71.7	71.7	71.6	71.6	71.6	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.6	71.6	71.6	71.5	71.5	71.4	71.7
13	71.3	71.2	71.2	71.1	71.0	70.9	70.8	70.7	70.7	70.7	70.8	70.9	71.0	71.1	71.2	71.3	71.4	71.5	71.6	71.7	71.7	71.5	71.4	71.3	71.2
14	71.1	71.1	71.0	71.0	70.9	70.9	70.8	70.7	70.6	70.6	70.7	70.7	70.7	70.8	71.0	71.2	71.4	71.6	71.8	71.9	71.9	71.8	71.8	71.7	71.2
15	71.6	71.4	71.3	71.2	71.1	70.9	70.8	70.7	70.6	70.4	70.3	70.3	70.3	70.3	70.4	70.5	70.7	70.9	71.1	71.3	71.4	71.5	71.6	71.7	70.9
16	71.8	71.9	72.0	72.0	71.9	71.9	71.8	71.8	71.8	71.7	71.7	71.5	71.3	71.1	71.0	71.0	71.0	71.0	71.1	71.1	71.1	71.1	71.1	71.1	71.5
17	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.3	71.3	71.3	71.4	71.4	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.4	71.3	71.1	71.3
18	71.1	71.0	71.0	71.0	71.0	71.0	71.0	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.8	70.7	70.7	71.1	71.4	71.6	71.6	71.6	71.6	71.6	71.1
19	71.5	71.5	71.4	71.4	71.3	71.3	71.2	71.2	71.2	71.2	71.1	71.0	71.1	71.1	71.0	70.6	70.6	70.9	71.2	71.4	71.4	71.4	71.4	71.4	71.2
20	71.3	71.3	71.2	71.1	71.1	71.0	70.9	70.9	70.9	70.8	70.8	70.9	70.9	70.9	70.9	71.1	71.3	71.4	71.6	71.6	71.7	71.7	71.7	71.7	71.2
21	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.7	71.7	71.8	71.9	72.0	72.0	72.1	72.2	72.1	72.1	72.0	72.0	72.0	71.9
22	72.0	72.0	72.1	72.1	72.1	72.1	72.1	72.1	72.2	72.3	72.5	72.8	73.0	73.2	73.3	73.4	73.3	73.2	73.1	73.0	72.9	72.9	72.8	72.7	72.6
23	72.7	72.6	72.5	72.5	72.3	72.3	72.2	72.1	72.1	72.1	72.1	72.1	72.0	71.8	71.7	71.7	71.8	72.0	72.1	72.1	72.2	72.2	72.2	72.2	72.1
24	72.1	72.1	72.1	72.0	72.0	71.9	71.9	71.9	71.9	71.9	72.0	72.0	72.0	71.9	71.7	71.6	71.5	71.5	71.4	71.4	71.3	71.3	71.1	71.0	71.7
25								SYSTEM INOPERATIVE											70.5	70.5	70.3	70.1	69.9	69.8	70.1
26	69.6	69.5	69.6	69.5	69.5	69.5	69.5	69.5	69.5	69.7	69.7	69.6	69.5	69.5	69.6	69.7	69.8	69.9	70.2	70.3	70.4	70.3	70.2	70.0	69.8
27	69.9	69.8	69.7	69.6	69.7	69.8	69.9	70.0	70.0	70.0	70.0	70.0	69.9	69.8	69.8	69.7	69.8	69.9	70.0	70.1	70.0	69.9	69.9	69.9	69.9
28	69.9	69.9	69.9	69.8	69.7	69.6	69.4	69.1	68.8	68.5	68.3	68.1	67.9	67.8	67.8	67.8	67.8	67.8	67.8	67.7	67.6	67.5	67.5	67.4	68.5
29	67.4	67.3	67.2	67.1	66.9	66.7	66.5	66.4	66.3	66.3	66.3	66.4	66.5	66.5	66.6	66.8	66.9	66.9	66.9	66.8	66.8	66.7	66.5	66.4	66.7
30	66.2	66.1	66.0	65.8	65.7	65.6	65.6	65.5	65.4	65.4	65.5	65.6	65.6	65.9	66.1	66.3	66.6	67.0	67.2	67.1	67.1	67.0	66.9	66.7	66.2
31	66.5	66.4	66.3	66.2	66.1	66.0	65.9	65.9	65.8	65.8	65.8	65.8	65.7	65.7	65.8	66.0	66.1	66.1	66.1	66.1	66.1	66.1	66.2	66.2	66.0

MONTHLY AVERAGE 70.6

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 7

September 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	66.2	66.2	66.1	66.0	66.0	66.0	65.9	65.9	65.8	65.8	65.9	66.1	66.2	66.4	66.6	66.7	66.9	67.0	67.0	67.0	67.1	67.1	67.2	67.2	66.4
2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.1	67.1	67.1	66.9	66.6	66.3	66.3	66.4	66.6	66.8	66.8	66.8	66.9	66.9	66.8	66.8	66.8	66.9
3	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.9	66.9	66.9	66.8	66.7	66.7	66.6	66.6	66.5	66.5	66.5	66.6	66.6	66.5	66.5	66.7
4	66.4	66.4	66.3	66.3	66.2	66.2	66.1	66.1	66.0	65.9	65.8	65.7	65.6	65.4	65.4	65.5	65.5	65.6	65.5	65.6	65.6	65.6	65.6	65.5	65.8
5	65.5	65.4	65.3	65.3	65.3	65.2	65.2	65.1	65.1	65.0	65.0	65.0	64.9	64.9	64.9	64.9	64.9	64.8	64.8	64.8	64.8	64.8	64.9	64.9	65.0
6	64.9	64.9	64.9	64.9	64.8	64.8	64.8	64.8	64.8	64.9	64.9	64.9	64.9	65.0	65.2	65.3	65.5	65.5	65.5	65.7	65.8	65.8	65.8	65.7	65.2
7	65.7	65.6	65.6	65.5	65.5	65.4	65.4	65.3	65.3	65.3	65.2	65.1	65.0	64.9	64.9	64.9	65.0	65.0	65.0	65.0	65.0	65.0	64.9	64.8	65.2
8	64.8	64.7	64.6	64.6	64.5	64.5	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.5	64.7	64.9	64.9	64.8	64.8	64.7	64.7	64.6	64.5	64.4	64.6
9	64.3	64.2	64.2	64.1	64.0	63.9	63.8	63.7	63.6	63.5	63.4	63.3	63.3	63.4	63.6	63.8	63.9	64.1	64.2	64.2	64.1	64.1	64.1	64.0	63.9
10	63.9	63.9	63.8	63.8	63.7	63.7	63.7	63.7	63.6	63.6	63.7	63.6	63.6	63.6	63.8	64.0	64.1	64.2	64.4	64.5	64.5	64.5	64.5	64.5	64.0
11	64.5	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.3	64.3	64.3	64.2	64.2	64.3	64.4	64.6	64.8	65.1	65.3	65.5	65.6	65.7	65.8	65.8	64.7
12	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.8	65.9	66.0	66.1	66.0	66.0	65.8
13	66.0	66.0	66.0	66.0	65.9	65.9	65.9	65.8	65.8	65.9	65.9	65.8	65.7	65.5	65.5	66.0	66.4	66.1	66.2	66.4	66.5	66.5	66.4	66.4	66.0
14	66.3	66.3	66.2	66.1	66.1	66.0	66.0	65.9	65.9	65.9	65.9	66.0	66.0	66.1	66.1	66.0	65.9	65.9	65.9	65.9	65.8	65.7	65.7	65.8	66.0
15	65.7	65.7	65.6	65.5	65.5	65.4	65.4	65.4	65.3	65.2	65.2	65.1	65.0	64.9	65.2	65.5	65.6	65.7	65.7	65.7	65.6	65.6	65.5	65.5	65.4
16	65.5	65.5	65.4	65.4	65.4	65.3	65.2	65.1	65.0	65.0	64.9	64.7	64.3	64.2	64.3	64.4	64.6	64.8	64.8	64.7	64.5	64.2	64.0	63.9	64.8
17	63.7	63.5	63.4	63.3	63.2	63.1	63.0	63.0	62.9	63.0	63.0	62.9	62.8	62.9	63.1	63.0	63.1	63.4	63.6	63.6	63.6	63.5	63.3	63.2	63.2
18	63.1	63.0	62.8	62.7	62.6	62.5	62.5	62.5	62.4	62.4	62.4	62.4	62.5	62.6	62.7	62.8	62.8	62.6	62.5	62.4	62.3	62.2	62.1	62.1	62.5
19	62.0	61.9	61.9	61.9	61.8	61.8	61.7	61.7	61.7	61.7	61.7	61.7	61.8	61.9	62.1	62.3	62.3	62.4	62.5	62.4	62.3	62.2	62.1	62.0	62.0
20	61.9	61.8	61.8	61.7	61.6	61.5	61.5	61.4	61.4	61.4	61.3	61.3	61.2	61.2	61.2	61.2	61.2	61.3	61.3	61.4	61.4	61.4	61.4	61.4	61.4
21	61.3	61.3	61.3	61.3	61.2	61.2	61.2	61.2	61.1	61.1	61.1	61.1	61.0	60.9	60.7	60.6	60.6	60.7	60.7	60.6	60.7	60.7	60.7	60.6	60.9
22	60.5	60.5	60.4	60.4	60.3	60.3	60.2	60.1	60.1	60.0	59.9	59.9	59.9	60.0	60.0	59.9	59.9	60.0	60.0	60.0	59.9	59.9	59.8	59.8	60.1
23	59.8	59.8	59.7	59.7	59.7	59.7	59.7	59.7	59.6	SYSTEM INOPERATIVE															59.7
24	SYSTEM INOPERATIVE												60.4	60.5	60.3	60.2	60.5	60.9	61.0	60.9	60.9	60.9	60.9	60.9	60.7
25	61.0	61.0	60.9	60.9	60.9	60.9	60.8	60.8	60.8	60.7	60.7	60.5	60.5	60.7	60.9	60.9	61.1	61.3	61.3	61.3	61.3	61.4	61.5	61.6	61.0
26	61.5	61.5	61.4	61.3	61.1	61.0	60.8	60.7	60.7	60.6	60.6	60.5	60.5	60.5	60.5	60.6	60.8	60.9	60.9	60.9	60.9	61.0	61.0	61.1	60.9
27	61.1	61.1	61.1	61.0	61.0	60.9	60.8	60.8	60.7	60.7	60.7	60.7	60.7	60.8	60.7	60.8	60.8	60.8	60.8	60.6	60.5	60.4	60.4	60.3	60.8
28	60.3	60.3	60.2	60.2	60.2	60.2	60.1	60.2	60.2	60.3	60.4	60.6	60.7	60.7	60.6	60.7	60.9	60.8	60.7	60.5	60.1	59.9	60.0	60.1	60.4
29	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.0	60.0	60.0	60.1	60.2	60.2	60.3	60.3	60.3	60.4	60.6	60.7	60.8	60.7	60.7	60.7	60.6	60.3
30	60.6	60.6	60.6	60.5	60.5	60.5	60.5	60.5	60.5	60.6	60.6	60.6	60.7	60.8	61.0	61.2	61.4	61.6	61.7	61.8	61.7	61.7	61.7	61.7	61.0
																						MONTHLY AVERAGE			63.5

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 7

October 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	61.6	61.6	61.6	61.7	61.7	61.7	61.7	61.7	61.8	61.8	61.8	61.7	61.8	61.8	61.9	62.0	62.1	62.2	62.1	62.1	62.1	62.1	62.1	62.1	61.9
2	62.2	62.3	62.3	62.4	62.4	62.4	62.5	62.5	62.4	62.4	62.3	62.1	62.0	62.0	62.0	61.9	62.0	62.0	62.0	61.9	61.9	61.9	61.9	61.9	62.2
3	62.0	62.0	61.9	61.9	61.8	61.7	61.6	61.5	61.4	61.3	61.4	61.5	61.7	61.8	61.8	61.9	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.0	61.8
4	61.9	61.9	61.8	61.7	61.6	61.6	61.6	61.5	61.6	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.6	61.6	61.4	61.3	61.2	61.1	60.9	60.8	61.5
5	60.7	60.6	60.5	60.3	60.3	60.2	60.2	60.2	60.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.1	60.1	60.1	60.1	60.0	59.9	59.8	59.6	60.1
6	59.4	59.2	59.0	58.9	58.8	58.7	58.6	58.5	58.4	58.4	58.4	58.4	58.5	58.5	58.6	58.6	58.6	58.5	58.4	58.3	58.1	58.0	57.9	57.7	58.5
7	57.6	57.4	57.3	57.2	57.0	56.9	56.7	56.6	56.5	56.4	56.4	56.4	56.5	56.5	56.6	56.8	57.0	57.1	57.1	57.0	56.9	56.8	56.7	56.5	56.8
8	56.4	56.2	56.0	55.8	55.7	55.6	55.4	55.3	55.2	55.1	55.1	55.2	55.4	55.4	55.3			55.9	55.8	55.7	55.6	55.5	55.4	55.2	55.6
9	55.1	54.9	54.8	54.7	54.6	54.5	54.5	54.4	54.5	54.5	54.4	54.5	54.5	54.7	54.8	54.8	54.9	54.9	54.9	55.0	55.0	54.9	54.9	54.8	54.7
10	54.6	54.5	54.3	54.2	54.1	53.9	53.8	53.7	53.5	53.5	53.4	53.4	53.5	53.6	53.7	53.8	53.9	54.0	54.0	54.0	53.9	53.8	53.7	53.7	53.9
11	53.6	53.5	53.4	53.3	53.2	53.0	52.9	52.8	52.6	52.5	52.5	52.4	52.3	52.2	52.2	52.2	52.3	52.5	52.7	52.9	52.9	52.9	53.0	53.1	52.8
12	53.0	52.9	52.9	52.8	52.8	52.7	52.7	52.6	52.6	52.6	52.7	52.7	52.6	52.4	52.5	52.5	52.2	52.0	52.0	52.1	52.1	52.0	52.0	51.9	52.5
13	51.9	51.9	51.8	51.8	51.8	51.9	51.9	51.9	52.0	52.0	52.2	52.3	52.4	52.4	52.4	52.2	52.1	52.1	52.1	52.1	52.1	52.1	52.0	52.0	52.1
14	52.0	51.9	52.0	52.0	52.0	52.0	52.0	52.1	52.2	52.2	52.3	52.3	52.3	52.1	52.0	52.0	52.1	52.2	52.2	52.3	52.4	52.4	52.5	52.5	52.2
15	52.5	52.5	52.5	52.5	52.4	52.4	52.3	52.2	52.1	52.0	51.9	51.9	51.9	51.9	51.9	51.9	52.0	52.0	52.1	52.1	52.2	52.2	52.1	52.1	52.2
16	52.0	51.9	51.8	51.7	51.6	51.5	51.4	51.3	51.1	51.0	50.9	50.9	50.9	51.0	51.0	51.1	51.3	51.5	51.5	51.6	51.6	51.6	51.6	51.6	51.4
17	51.6	51.6	51.5	51.5	51.4	51.4	51.3	51.3	51.2	51.1	51.0	51.0	50.9	50.5	50.4	50.5	50.7	50.8	50.8	50.9	51.0	51.1	51.1	51.1	51.1
18	51.2	51.2	51.2	51.2	51.2	51.1	51.1	51.1	51.1	51.0	51.1	51.0	51.1	51.1	51.0	50.5	50.3	50.5	50.6	50.7	50.6	50.5	50.4	50.2	50.9
19	50.2	50.2	50.2	50.1	50.0	50.0	49.9	50.0	50.0	50.0	50.1	50.1	50.3	50.2	50.1	50.0	49.9	49.9	49.9	50.0	50.0	50.0	50.2	50.2	50.1
20	50.1	50.0	49.9	49.9	49.7	49.6	49.5	49.3	49.2	49.1	49.3	49.3	49.4	49.6	49.7	49.5	49.5	49.7	49.8	49.9	49.9	50.0	49.9	49.9	49.7
21	49.9	49.9	49.8	49.8	49.7	49.7	49.6	49.6	49.6	49.6	49.6	49.5	49.6	49.7	49.7	49.5	49.5	49.5	49.6	49.8	49.9	49.9	49.9	49.9	49.7
22	49.9	49.8	49.8	49.8	49.7	49.7	49.6	49.6	49.5	49.5	49.6	49.6	49.8	50.0	50.2	50.4	50.4	50.5	50.5	50.5	50.4	50.4	50.4	50.5	50.0
23	50.5	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.7	50.7	50.7	50.7	50.7	50.8	50.8	50.8	50.7	50.7	50.6	50.6	50.6	50.6	50.6
24	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.5	50.5	50.6	50.6	50.6	50.6	50.6	50.8	50.9	50.9	50.8	50.8	50.7	50.7	50.6	50.5	50.4	50.6
25	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.5	50.7	50.8	50.8	50.8	50.8	50.9	50.8	50.7	50.6	50.5	50.5	50.6	50.5	50.4	50.6
26	50.4	50.3	50.3	50.3	50.2	50.1	50.1	50.1	50.1	50.1	50.1	50.2	50.2	50.3	50.4	50.4	50.5	50.6	50.5	50.3	50.1	50.0	49.9	49.9	50.2
27	49.9	49.9	49.9	49.8	49.8	49.7	49.7	49.7	49.7	49.6	49.6	49.6	49.6	49.6	49.7	49.6	49.4	49.4	49.5	49.6	49.6	49.6	49.6	49.5	49.6
28	49.4	49.3	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.3	49.2	49.2	49.3	49.3	49.3	49.2	49.1	49.2
29	49.0	49.0	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	49.0	49.0	49.1	49.3	49.2	49.2	49.2	49.3	49.3	49.2	49.2	49.2		49.0
30	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.4	49.4	49.5	49.5	49.5	49.7	49.8	49.7	49.7	49.5	49.4	49.2	49.1	49.0	49.0	49.4
31	48.9	48.9	48.9	48.8	48.8	48.8	48.7	48.7	48.7	48.8	48.9	48.9	48.9	49.0	49.1	49.0	48.8	48.7	48.7	48.7	48.6	48.5	48.5	48.5	48.8

MONTHLY AVERAGE 53.2

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 7

November 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.4	48.4	48.5	48.6	48.7	48.7	48.8	48.9	48.8	48.5	48.3	48.3	48.5	48.6	48.5	48.5	48.4	48.5
2	48.4	48.4	48.3	48.3	48.3	48.3	48.3	48.3	48.3	48.4	48.5	48.5	48.7	48.8	48.8	48.8	48.9	48.8	48.5	48.3	48.3	48.3	48.3	48.2	48.5
3	48.1	48.1	48.0	48.0	48.0	47.9	47.9	47.8	47.8	47.8	47.9	47.9	47.9	48.0	48.1	48.2	48.2	48.1	47.8	47.7	47.7	47.8	47.8	47.7	47.9
4	47.7	47.7	47.6	47.6	47.5	47.5	47.5	47.4	47.3	47.3	47.3	47.2	47.1	47.1	47.1	46.9	46.6	46.5	46.5	46.5	46.5	46.4	46.2	46.1	47.0
5	46.0	45.9	45.8	45.7	45.6	45.5	45.5	45.4	45.4	45.4	45.4	45.3	45.2	45.2	45.2	45.2	45.0	44.9	44.9	45.0	44.9	44.9	44.8	44.8	45.3
6	44.8	44.8	44.8	44.7	44.7	44.8	44.8	44.8	44.7	44.7	44.6	44.5	44.4	44.4	44.4	44.2	43.9	44.0	44.0	44.0	43.9	43.8	43.8	43.8	44.4
7	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.7	43.7	43.7	43.6	43.6	43.3	43.1	43.1	43.2	43.3	43.3	43.3	43.3	43.3	43.4	43.6
8	43.4	43.4	43.4	43.4	43.4	43.5	43.5	43.5	43.6	43.6	43.6	43.5	43.5	43.5	43.4	43.2	43.1	43.2	43.3	43.3	43.4	43.5	43.5	43.6	43.4
9	43.6	43.6	43.6	43.6	43.6	43.5	43.5	43.5	43.5	43.4	43.5	43.5	43.4	43.3	43.2	43.3	43.5	43.6	43.7	43.7	43.8	43.8	43.8	43.8	43.6
10	43.8	43.8	43.7	43.7	43.7	43.6	43.5	43.4	43.3	43.3	43.2	43.1	43.1	43.0	43.0	43.0	43.0	43.0	43.1	43.1	43.1	43.1	43.0	43.0	43.3
11	42.9	42.8	42.6	42.5	42.3	42.1	42.0	41.8	41.8	41.7	41.7	41.6	41.6	41.6	41.6	41.5	41.5	41.4	41.3	41.3	41.2	41.1	41.1	41.0	41.8
12	41.0	41.0	41.0	40.9	40.9	40.9	40.9	40.9	40.8	40.8	40.8	40.8	40.9	40.9	41.0	41.0	40.9	40.9	40.9	40.8	40.8	40.8	40.8	40.7	40.9
13	40.7	40.6	40.6	40.5	40.5	40.5	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.3	40.0	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.8	40.2
14	39.8	39.7	39.7	39.6	39.5	39.4	39.3	39.1	39.0	38.8	38.8	38.7	38.6	38.4	38.3	38.4	38.4	38.4	38.4	38.3	38.3	38.3	38.3	38.3	38.8
15	38.3	38.3	38.3	38.3	38.3	38.2	38.1	38.1	38.0	38.0	38.0	38.0	38.1	38.3	38.2	38.0	38.1	38.1	38.2	38.1	38.1	38.0	38.0	38.0	38.1
16	38.0	38.1	38.1	38.1	38.2	38.3	38.3	38.4	38.4	38.4	38.4	38.5	38.6	38.7	38.8	38.8	38.8	38.8	38.7	38.6	38.5	38.4	38.3	38.2	38.4
17	38.1	38.1	38.1	38.1	38.2	38.2	38.3	38.3	38.3	38.3	38.4	38.6	38.8	38.9	38.8	38.7	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.5
18	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.6	38.6	38.5	38.4	38.3	38.2	38.2	38.2	38.1	38.6
19	38.1	38.1	38.1	38.0	37.9	37.8	37.8	37.7	37.7	37.5	37.5	37.4	37.5	37.5	37.5	37.6	37.6	37.6	37.6	37.4	37.4	37.4	37.4	37.5	37.7
20	37.5	37.5	37.6	37.6	37.6	37.7	37.7	37.6	37.4	37.3	37.1	37.0	36.8	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.5	36.5	36.6	37.0
21	36.6	36.6	36.6	36.6	36.7	36.7	36.7	36.7	36.6	36.6	36.6	36.6	36.4	36.3	36.3	36.3	36.2	36.1	36.0	36.0	36.0	36.0	36.0	36.0	36.4
22	35.9	35.9	35.8	35.8	35.7	35.6	35.6	35.5	35.4	35.3	35.3	35.4	35.5	35.6	35.7	35.7	35.8	35.8	35.7	35.7	35.7	35.6	35.6	35.5	35.6
23	35.5	35.5	35.5	35.5	35.5	35.6	35.6	35.6	35.5	35.4	35.2	35.1	35.2	35.2	35.3	35.3	35.3	35.3	35.2	35.1	35.0	34.9	34.9	34.9	35.3
24	35.0	35.0	35.1	35.1	35.1	35.1	35.1	35.1	35.0	34.9	34.9	35.0	35.1	35.1	35.1	35.2	35.3	35.4	35.4	35.3	35.3	35.2	35.2	35.3	35.1
25	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.2	35.3	35.3	35.5	35.7	35.9	36.0	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.2	36.2	35.7
26	36.2	36.2	36.2	36.2	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.0	35.9	35.9	35.9	35.9	35.9	35.9	36.0	35.9	35.9	35.9	35.9	35.8	36.0
27	35.8	35.8	35.9	36.1	36.2	36.3	36.4	36.6	36.7	36.8	36.9	37.0	37.1	37.2	37.3	37.4	37.4	37.4	37.3	37.3	37.3	37.1	37.0	36.9	36.8
28	36.8	36.7	36.6	36.5	36.4	36.2	36.2	36.1	36.1	36.2	36.2	36.3	36.4	36.6	36.7	36.7	36.7	36.7	36.7	36.6	36.4	36.3	36.2	36.1	36.4
29	36.1	36.1	36.1	36.0	36.0	36.0	35.9	35.9	35.9	35.9	35.9	36.0	36.1	36.2	36.4	36.4	36.5	36.6	36.6	36.7	36.7	36.7	36.6	36.6	36.2
30	36.6	36.5	36.5	36.4	36.4	36.3	36.2	36.2	36.1	36.1	36.1	36.1	36.2	36.2	36.2	36.2	36.1	36.1	36.0	36.0	35.9	35.7	35.6	35.5	36.1

MONTHLY AVERAGE 40.2

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 7

December 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	35.4	35.3	35.2	35.1	35.0	34.9	34.9	34.8	34.7	34.6	34.5	34.5	34.5	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.5	34.5	34.4	34.7
2	34.3	34.2	34.1	34.0	34.0	33.9	33.9	33.8	33.7	33.7	33.7	33.6	33.6	33.5	33.5	33.4	33.4	33.3	33.3	33.3	33.2	33.2	33.2	33.2	33.6
3	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.3	33.3	33.3	33.4	33.5	33.6	33.7	33.8	33.9	34.0	34.2	34.3	34.5	34.7	34.8	35.0	35.0	33.8
4	35.1	35.1	35.0	35.0	35.0	34.9	34.9	34.8	34.7	34.6	34.5	34.5	34.5	34.6	34.7	34.9	35.0	35.1	35.1	35.1	35.0	34.9	34.8	34.7	34.9
5	34.7	34.6	34.6	34.6	34.6	34.6	34.5	34.4	34.3	34.2	34.2	34.2	34.2	34.3	34.4	34.4	34.4	34.3	34.3	34.2	34.2	34.2	34.2	34.1	34.4
6	34.1	34.1	34.0	34.0	34.0	34.0	33.9	33.9	33.9	33.8	33.8	33.9	33.9	34.0	34.1	34.1	34.1	34.2	34.2	34.2	34.3	34.3	34.3	34.4	34.1
7	34.4	34.4	34.5	34.5	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.7	34.7	34.7	34.7	34.7	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6
8	34.6	34.6	34.6	34.6	34.6	34.6	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.6	34.6	34.6	34.5	34.5	34.4	34.4	34.3	34.3	34.2	34.1	34.5
9	34.0	33.9	33.8	33.7	33.6	33.5	33.4	33.3	33.3	33.2	33.2	33.2	33.1	33.0	32.9	32.8	32.7	32.6	32.5	32.4	32.4	32.3	32.3	32.3	33.1
10	32.3	32.2	32.2	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.4	32.5	32.5	32.5	32.5	32.5	32.4	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.4
11	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.4	32.4	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.3
12	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.3
13	32.4	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.2	32.2	32.3	32.3	32.3	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.2	32.2	32.1	32.1	32.3
14	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.2	32.3	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.4	32.4	32.4	32.3	32.3	32.2
15	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.3
16	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.2
17	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.4	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
18	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.4	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.3
19	32.2	SYSTEM INOPERATIVE						32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.1	32.3
20	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.3	32.3	32.3	32.2
21	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.2	32.2	32.2	32.3	32.3	32.3	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.3
22	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.3	32.2	32.3
23	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.4	32.3	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.3	32.3	32.3	32.3
24	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.3	32.3
25	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
26	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.4	32.4	32.4	32.5	32.5	32.5	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4
27	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.5	32.6	32.7	32.7	32.8	32.8	32.9	32.8	32.8	32.7	32.7	32.6	32.6	32.6	32.6	32.6
28	32.6	32.5	32.5	32.4	32.4	32.4	32.3	32.3	32.3	32.3	32.4	32.5	32.5	32.5	32.6	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.4	32.4	32.4
29	32.4	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.4	32.4	32.4	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
30	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.4	32.4	32.4	32.4	32.4	32.5	32.5	32.4	32.4	32.4	32.3	32.3	32.3	32.3	32.3
31	32.3	32.3	32.3	32.3	32.3	32.2	32.3	32.2	32.3	32.3	32.3	32.4	32.5	32.6	32.6	32.7	32.7	32.6	32.6	32.5	32.5	32.5	32.5	32.5	32.4

MONTHLY AVERAGE 32.9

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 3

January 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1
2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1
3	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.1	32.1	32.1
4	32.1	32.1	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.1
5	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.0	32.1
6	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.0	32.0	32.1
7	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.1	32.1	32.0	32.0	32.0	32.0	32.0
8	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.0
9	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.1
10	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
11	32.1	32.1	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.1
12	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
13	32.1	32.1	32.1	32.1	32.1	32.0	32.1	32.0	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.0	32.0	32.0	32.1
14	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.2	32.1	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.1
15	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.0	32.1
16	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.0	32.1
17	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.1	32.1
18	32.1	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.1
19	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
20	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1
21	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
22	32.2	32.2	32.1	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2
23	32.2	32.2	32.2	32.2	32.2	32.1	32.2	32.1	32.1	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2
24	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.1	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.3	32.3	32.3	32.4	32.3	32.3	32.3	32.3	32.2
25	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.2
26	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.3	32.2	32.3	32.2	32.2	32.2
27	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2
28	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1
29	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.0	32.1
30	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1
31	32.1	32.1	32.1	32.1	32.0	32.0	32.0	32.0	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1

MONTHLY AVERAGE 32.1

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 3

February 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.2
2	32.1	32.1	32.1	32.1	32.2	32.2	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
3	32.2	32.2	32.1	32.1	32.2	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2
4	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
5	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.2	32.2	32.2	32.2	32.3	32.2	32.2	32.2	32.2
6	32.3	32.3	32.2	32.2	32.2	32.2	32.1	32.1	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.2	32.2	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2
7	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.2	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
8	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
9	32.2	32.1	32.1	32.2	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
10	32.1	32.1	32.1	32.1	32.2	32.1	32.1	32.1	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
11	32.1	32.1	32.1	32.0	32.1	32.1	32.0	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2
12	32.2	32.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2
13	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.4	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
14	32.2	32.1	32.1	32.0	32.0	32.0	32.0	32.1	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1
15	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.1	32.0	32.0	32.0	32.1
16	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.2	32.3	32.4	32.4	32.4	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
17	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.1	32.1	32.1
18	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.2	32.3	32.3	32.2	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.0	32.2
19	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
20	32.2	32.1	32.0	32.0	32.1	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.1	32.2
21	32.1	32.0	32.0	32.0	32.1	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
22	32.2	32.2	32.2	32.2	32.2	32.1	32.2	32.1	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.1	32.1	32.0	32.0	32.0	32.2
23	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.2	32.2	32.2	32.2	32.3	32.4	32.4	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.0	32.2
24	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.2	32.3	32.4	32.4	32.4	32.4	32.4	32.3	32.2	32.3	32.3	32.3	32.1	32.1	32.1	32.1	32.2
25	32.0	32.0	32.0	32.0	32.0	32.0	32.2	32.3	32.3	32.3	32.4	32.4	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.1	32.2
26	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.2	32.3	32.3	32.3	32.4	32.3	32.3	32.3	32.3	32.2	32.3	32.3	32.3	32.3	32.2	32.0	32.0	32.2
27	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.2	32.3	32.3	32.3	32.4	32.3	32.3	32.3	32.3	32.2	32.4	32.3	32.3	32.2	32.1	32.0	32.0	32.2
28	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.3	32.3	32.3	32.3	32.4	32.5	32.5	32.5	32.4	32.4	32.4	32.3	32.3	32.3	32.1	32.0	32.0	32.2

MONTHLY AVERAGE 32.2

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 3

March 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.2	32.3	32.3	32.3	32.4	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.2	32.2	32.2	32.1	32.0	32.2
2	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.2	32.3	32.4	32.4	32.4	32.3	32.3	32.4	32.3	32.3	32.3	32.3	32.2	32.2	32.1	32.2
3	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.2	32.3	32.3	32.4	32.4	32.4	32.5	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.2	32.1	32.0	32.2
4	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.2	32.3	32.4	32.4	32.4	32.5	32.5	32.5	32.4	32.4	32.4	32.3	32.3	32.2	32.1	32.1	32.1	32.2
5	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.3	32.4	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.4	32.4	32.2	32.1	32.1	32.1	32.2	32.2
6	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	32.3	32.4	32.4	32.4	32.4	32.2	32.2	32.3	32.2	32.4	32.4	32.3	32.3	32.3	32.3	32.3	32.2
7	32.1	32.1	32.1	32.1	32.1	32.0	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.2	32.2	32.3	32.3	32.2	32.3	32.3	32.3	32.2	32.2	32.2	32.2
8	32.1	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.3	32.3	32.3	32.3	32.2	32.3	32.3	32.4	32.4	32.4	32.3	32.1	32.1	32.1	32.1	32.2
9	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.3	32.1	32.1	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.2	32.1
10	32.1	32.0	32.0	32.0	32.0	32.0	32.0	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.1	32.0	32.0	32.2
11	32.0	32.0	32.1	32.1	32.1	32.1	32.1	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.4	32.5	32.4	32.4	32.3	32.2	32.2	32.0	32.0	32.2
12	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.2	32.3	32.4	32.4	32.5	32.5	32.6	32.6	32.5	32.5	32.4	32.4	32.3	32.3	32.3	32.3	32.2	32.3
13	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2
14	32.3	32.3	32.3	32.2	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.3	32.2	32.2	32.2	32.2	32.3
15	32.2	32.2	32.2	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.3	32.3	32.4	32.4	32.5	32.4	32.4	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.3
16	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2
17	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.4	32.4	32.5	32.4	32.4	32.4	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.3
18	32.2	32.2	32.2	32.2	32.1	32.1	32.1	32.2	32.2	32.3	32.3	32.4	32.4	32.4	32.4	32.4	32.3	32.3	32.2	32.2	32.2	32.2	32.2	32.2	32.3
19	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.4	32.4	32.4	32.4	32.3	32.3	32.3	32.3	32.3	32.3
20	32.3	32.2	32.2	32.2	32.1	32.2	32.3	32.2	32.3	32.3	32.3	32.5	32.6	32.6	32.6	32.6	32.2	32.5	32.6	32.6	32.5	32.3	32.2	32.1	32.3
21	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.2	32.3	32.5	32.7	32.8	32.9	32.8	32.7	32.6	32.5	32.4	32.2	32.1	32.3
22	32.1	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.1	32.1	32.3	32.5	32.7	32.9	33.0	33.0	33.1	33.1	33.0	32.7	32.7	32.7	32.5	32.4
23	32.4	32.2	32.1	32.2	32.3	32.3	32.3	32.3	32.3	32.3	32.5	32.6	32.7	32.9	33.1	33.2	33.3	33.3	33.4	33.5	33.5	33.6	33.6	33.5	32.8
24	33.5	33.4	33.4	33.4	33.3	33.2	33.2	33.1	33.1	33.0	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.6	33.7	33.7	33.8	33.8	33.8	33.7	33.4
25	33.6	33.6	33.6	33.5	33.5	33.4	33.2	33.1	33.0	33.0	32.8	32.7	32.8	33.0	33.2	33.2	33.2	33.2	33.3	33.4	33.5	33.6	33.6	33.6	33.3
26	33.6	33.6	33.6	33.7	33.7	33.7	33.7	33.7	33.7	33.8	33.9	34.0	34.2	34.4	34.6	34.8	34.9	35.0	35.1	35.2	35.4	35.5	35.6	35.7	34.4
27	35.8	35.9	35.9	35.8	35.6	35.4	35.1	34.8	34.6	34.5	34.4	34.2	34.1	34.1	34.0	34.0	33.9	33.9	33.8	33.8	33.7	33.6	33.6	33.6	34.5
28	33.5	33.5	33.4	33.3	33.0	32.9	33.3	33.9	34.3	34.6	35.0	35.3	35.5	35.8	36.0	36.1	36.3	36.3	36.3	36.4	36.4	36.4	36.4	36.5	35.0
29	36.5	36.6	36.6	36.7	36.7	36.8	36.8	36.8	36.8	36.9	37.0	37.3	37.5	37.7	37.8	37.9	38.0	38.1	38.1	38.1	38.2	38.3	38.4	38.5	37.4
30	38.6	38.6	38.7	38.7	38.8	38.7	38.7	38.7	38.6	38.6	38.6	38.6	38.6	38.7	38.9	39.0	39.1	39.2	39.2	39.3	39.3	39.4			38.8
31	SYSTEM INOPERATIVE																								

MONTHLY AVERAGE 32.9

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 3

April 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	SYSTEM INOPERATIVE											39.5	39.5	39.7	39.9	40.1	40.3	40.4	40.4	SYSTEM INOPERATIVE					40.0
2											SYSTEM INOPERATIVE														
3	SYSTEM INOPERATIVE									40.4	40.4	40.6	40.7	40.8	40.9	41.0	41.0	41.0	41.0	40.9	40.8	40.8	40.7	40.7	40.8
4	40.6	40.6	40.6	40.5	40.5	40.4	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.2	40.2	40.1	40.1	40.0	40.0	39.9	39.8	39.7	39.6	39.5	40.2
5	39.4	39.4	39.3	39.2	39.1	39.1	39.0	39.0	39.1	39.2	39.4	39.5	39.7	39.8	39.9	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	39.9	39.6
6	39.9	39.9	39.8	39.7	39.7	39.6	39.6	39.5	39.5	39.4	39.4	39.3	39.3	39.3	39.3	39.2	39.2	39.1	39.1	39.1	39.0	39.0	38.9	38.9	39.4
7	38.8	38.8	38.8	38.7	38.6	38.6	38.6	38.5	38.5	38.5	38.5	38.6	38.7	38.8	38.9	38.9	38.9	38.9	38.8	38.8	38.8	38.9	38.9	38.9	38.7
8	39.0	39.0	39.0	39.1	39.1	39.1	39.1	39.2	39.2	39.3	39.3	39.3	39.4	39.4	39.5	39.6	39.6	39.7	39.8	39.8	39.8	39.8	39.8	39.8	39.4
9	39.7	39.7	39.7	39.6	39.6	39.5	39.5	39.6	39.7	39.8	39.9	39.8	39.8	39.9	39.9	40.0	40.0	40.0	40.0	40.0	40.0	40.2	40.3	40.4	39.8
10	40.4	40.4	40.4	40.3	40.3	40.2	40.2	40.2	40.3	40.4	40.5	40.6	40.8	41.0	41.2	41.3	41.4	41.5	41.5	41.5	41.5	41.5	41.5	41.5	40.9
11	41.4	41.4	41.3	41.2	41.1	41.0	40.9	40.9	40.8	40.8	40.9	41.0	40.9	40.9	40.9	41.0	41.0	41.0	40.9	40.9	40.8	40.7	40.7	40.7	41.0
12	40.7	40.7	40.7	40.7	40.6	40.5	40.4	40.3	40.3	40.4	40.5	40.5	40.5	40.5	40.5	40.5	40.6	40.7	40.7	40.7	40.6	40.6	40.6	40.6	40.6
13	40.6	40.6	40.6	40.5	40.5	40.4	40.4	40.4	40.5	40.6	40.7	40.8	41.0	41.2	41.3	41.5	41.5	41.5	41.5	41.5	41.5	41.6	41.7	41.7	41.0
14	41.7	41.6	41.6	41.6	41.6	41.5	41.3	41.2	41.2	41.3	41.5	41.7	41.9	42.1	42.3	42.5	42.5	42.5	42.5	42.4	42.3	42.3	42.5	42.5	41.9
15	42.6	42.7	42.7	42.7	42.6	42.6	42.6	42.6	42.9	43.2	43.6	43.9	44.2	44.3	44.4	44.4	44.4	44.5	44.3	44.2	44.1	44.0	44.0	44.1	43.6
16	44.2	44.2	44.3	44.3	44.4	44.4	44.4	44.4	44.4	44.5	44.6	44.7	44.9	45.1	45.3	45.4	45.5	45.5	45.5	45.4	45.3	45.2	45.2	45.1	44.8
17	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.3	45.5	45.7	46.0	46.3	46.5	46.7	46.8	46.8	46.8	46.8	46.8	46.9	46.9	46.9	45.9
18	46.9	46.8	46.8	46.8	46.7	46.6	46.5	46.4	46.5	46.7	46.9	47.2	47.5	47.8	48.0	48.1	48.1	48.1	48.0	47.9	47.9	47.8	47.8	47.8	47.3
19	47.8	47.7	47.7	47.6	47.6	47.5	47.5	47.6	47.8	48.0	48.4	48.7	49.0	49.2	49.4	49.5	49.5	49.5	49.4	49.2	49.1	49.0	48.9	48.8	48.5
20	48.7	48.7	48.6	48.6	48.5	48.5	48.4	48.4	48.6	48.8	49.0	49.3	49.7	50.0	50.3	50.4	50.4	50.4	50.3	50.2	50.1	50.1	50.0	50.0	49.4
21	50.0	50.0	50.0	49.9	49.9	49.9	50.0	50.0	50.0	50.0	50.0	50.1	50.1	50.1	50.1	50.1	50.1	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.1
22	50.1	50.0	49.9	49.8	49.7	49.6	49.6	49.6	49.7	49.8	50.1	50.3	50.5	50.8	51.0	51.2	51.2	51.3	51.2	51.1	50.9	50.8	50.7	50.6	50.4
23	50.5	50.4	50.3	50.2	50.2	50.2	50.2	50.2	50.1	50.0	50.0	50.0	50.0	50.0	49.9	49.9	49.9	49.8	49.8	49.7	49.6	49.4	49.3	49.1	49.9
24	48.9	48.7	48.6	48.4	48.3	48.2	48.1	48.1	48.2	48.3	48.5	48.8	49.0	49.1	49.3	49.4	49.5	49.4	49.4	49.3	49.2	49.2	49.1	49.1	48.8
25	49.1	49.1	49.2	49.2	49.2	49.2	49.1	49.1	49.2	49.3	49.6	49.8	50.1	50.2	50.3	50.4	50.5	50.5	50.4	50.3	50.3	50.2	50.2	50.1	49.8
26	50.1	50.1	50.2	50.2	50.3	50.4	50.5	50.6	50.7	50.8	51.1	51.3	51.6	51.7	51.9	52.0	52.1	52.2	52.2	52.2	52.1	52.1	52.1	52.2	51.3
27	52.2	52.2	52.2	52.1	52.1	52.2	52.2	52.3	52.5	52.7	52.9	53.2	53.5	53.8	54.1	54.2	54.4	54.4	54.3	54.3	54.3	54.2	54.2	54.1	53.3
28	54.1	54.1	54.0	54.0	54.0	54.0	54.0	54.1	54.2	54.5	54.7	55.0	55.2	55.5	55.7	55.8	55.9	56.0	55.9	55.9	55.8	55.7	55.6	55.6	55.0
29	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.7	55.7	55.8	56.0	56.3	56.6	56.9	57.3	57.6	57.7	57.8	57.9	57.9	57.9	58.0	57.9	57.9	56.7
30	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	58.0	58.1	58.4	58.6	58.9	59.2	59.4	59.6	59.7	59.8	59.7	59.6	59.6	59.5	59.4	58.7

MONTHLY AVERAGE 46.0

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 3

May 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	59.3	59.3	59.2	59.1	59.0	58.9	58.9	58.9	58.8	58.7	58.9	59.1	59.3	59.4	59.5	59.5	59.6	59.6	59.6	59.7	59.7	59.8	59.8	59.9	59.3
2	59.9	60.0	59.9	59.9	59.8	59.7	59.6	59.4	59.3	59.2	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.1	59.1	58.9	58.8	58.7	58.6	58.7	59.2
3	58.7	58.6	58.5	58.3	58.1	57.9	57.9	57.7	57.5	57.4	57.3	57.2	57.2	57.3	57.2	57.2	57.1	57.0	56.8	56.5	56.3	56.0	55.7	55.5	57.3
4	55.7	55.9	56.1	56.2	56.0	55.8	55.7	55.7	55.9	55.9	55.8	55.7	55.8	55.9	56.1	56.1	56.0	55.9	55.8	55.6	55.3	55.2	55.0	54.9	55.8
5	54.8	54.8	54.9	55.1	55.1	55.1	55.1	55.4	55.6	55.6	55.7	55.8	56.0	56.1	56.1	56.0	56.0	55.8	55.6	55.5	55.4	55.1	54.8	54.6	55.4
6	54.5	54.5	54.4	54.4	54.3	54.3	54.3	54.5	54.5	54.6	54.6	54.8	54.9	55.2	55.5	55.7	55.9	56.0	55.9	55.8	55.5	55.3	55.1	54.8	55.0
7	54.6	54.6	54.5	54.4	54.4	54.3	54.3	54.3	54.2	54.1	54.1	54.2	54.3	54.4	54.4	54.5	54.6	54.6	54.6	54.6	54.5	54.4	54.4	54.3	54.4
8	54.1	54.1	54.1	54.0	54.0	54.0	54.0	54.1	54.3	54.3	54.4	54.5	54.6	54.6	54.7	54.7	54.7	54.6	54.5	54.3	54.3	54.1	54.1	54.0	54.3
9	53.9	53.8	53.8	53.6	53.5	53.5	53.4	53.4	53.5	53.6	53.7	53.9	54.1	54.4	54.5	54.7	54.9	54.9	54.8	54.7	54.6	54.5	54.4	54.3	54.1
10	54.2	54.2	54.1	54.0	53.9	53.8	53.8	53.7	53.7	53.8	53.9	54.1	54.4	54.6	54.8	54.9	55.1	55.2	55.2	55.2	55.1	54.9	54.7	54.4	54.4
11	54.2	53.9	53.7	53.5	53.4	53.3	53.3	53.4	53.7	53.9	54.2	54.4	54.6	54.7	54.9	55.1	55.2	55.2	55.2	55.2	55.2	55.1	55.0	54.9	54.4
12	54.9	54.8	54.8	54.8	54.8	54.7	54.7	54.7	54.8	55.0	55.2	55.5	55.7	55.9	55.9	56.0	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.4
13	55.7	55.6	55.5	55.4	55.3	55.3	55.2	55.3	55.4	55.5	55.7	55.8	56.0	56.3	56.6	56.9	57.0	57.1	57.1	57.1	57.0	56.9	56.9	56.9	56.1
14	56.7	56.6	56.5	56.4	56.4	56.3	56.3	56.6	56.8	56.9	57.3	57.7	58.0	58.3	58.6	58.8	58.8	58.8	58.6	58.4	58.2	58.0	57.9	58.0	57.5
15	57.8	57.8	57.7	57.6	57.6	57.6	57.6	57.8	57.9	58.1	58.4	58.6	58.8	59.0	59.2	59.5	59.6	59.7	59.6	59.5	59.5	59.2	59.0	58.9	58.6
16	58.8	58.8	58.7	58.6	58.6	58.5	58.4	58.3	58.4	58.5	58.6	58.9	59.1	59.3	59.7	59.9	60.0	60.2	60.2	60.3	60.1	60.0	59.8	59.7	59.2
17	59.7	59.6	59.6	59.6	59.6	59.6	59.5	59.5	59.6	59.6	59.7	59.8	60.1	60.5	60.9	60.9	60.8	60.6	60.4	60.5	60.9	61.3	61.3	61.2	60.2
18	61.1	61.1	61.0	60.9	60.9	60.9	60.9	60.9	60.9	61.1	61.4	61.9	62.3	62.7	63.1	63.0	62.6	62.7	62.5	61.5	61.7	62.1	62.6	62.8	61.8
19	63.0	63.1	63.0	62.9	62.9	62.8	62.7	62.7	63.1	63.1	63.2	63.4	63.8	64.0	64.2	64.5	64.6	64.7	64.8	64.8	64.5	64.5	64.5	64.5	63.7
20	64.5	64.5	64.4	64.4	64.4	64.5	64.5	64.6	64.9	65.0	64.9	64.9	65.1	65.3	65.6	65.7	65.9	66.0	66.0	65.9	65.8	65.8	65.7	65.8	65.2
21	65.8	65.8	65.9	65.9	65.9	65.8	65.7	65.7	65.5	65.4	65.6	65.8	66.0	66.2	66.4	66.4	66.4	66.4	66.3	66.2	66.0	65.9	65.9	65.8	65.9
22	65.8	65.7	65.6	65.6	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.3	66.4	66.5	66.7	66.8	66.8	66.9	66.9	67.0	67.0	67.1	67.2	67.3	66.3
23	67.5	67.7	67.7	67.7	67.6	67.4	67.2	66.9	66.6	66.4	66.2	66.1	66.1	66.1	66.3	66.3	66.4	66.3	66.2	66.2	66.3	66.3	66.3	66.2	66.7
24	66.2	66.2	66.1	65.9	65.7	65.5	65.2	65.1	64.9	64.7	64.6	64.5	64.4	64.5	64.6	64.7	64.8	64.9	65.0	65.1	65.1	65.1	65.0	64.7	65.1
25	64.4	64.1	63.8	63.6	63.3	63.0	62.6	62.4	62.3	62.2	62.3	62.3	62.5	62.6	62.8	62.9	63.0	63.0	63.1	63.0	62.9	62.8	62.8	62.7	62.9
26	62.6	62.4	62.4	62.2	62.1	61.9	61.7	61.6	61.6	61.6	61.8	62.0	62.3	62.5	62.8	63.0	63.2	63.3	63.3	63.3	63.3	63.2	63.1	63.1	62.5
27	63.0	62.9	63.0	SYSTEM INOPERATIVE																					63.0
28	SYSTEM INOPERATIVE																								
29	SYSTEM INOPERATIVE																								
30	SYSTEM INOPERATIVE																								
31	SYSTEM INOPERATIVE																								

MONTHLY AVERAGE 59.3

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 3

June 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	SYSTEM INOPERATIVE																								
2	SYSTEM INOPERATIVE																								
3	SYSTEM INOPERATIVE																								
4	SYSTEM INOPERATIVE																66.1	66.3	66.4	66.3	66.3	66.2	66.2	66.2	66.3
5	66.2	66.1	66.1	66.0	65.9	65.8	65.7	65.5	65.4	65.2	65.1	65.0	64.9	64.9	64.8	64.8	64.8	64.7	64.7	64.7	64.6	64.7	64.7	64.7	65.2
6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.5	64.4	64.2	64.1	64.0	63.9	63.9	63.9	63.8	63.8	63.7	63.7	63.7	63.7	63.6	64.2
7	63.5	63.5	63.5	63.4	63.4	63.4	63.4	63.4	63.5	63.7	63.8	63.8	64.0	64.1	64.0	64.0	64.0	63.9	63.9	63.9	63.8	63.7	63.6	63.6	63.7
8	63.5	63.4	63.4	63.3	63.2	63.2	63.1	63.1	63.1	63.1	63.1	63.1	63.2	63.4	63.6	63.8	63.9	64.1	64.1	63.9	63.6	63.6	64.0	64.2	63.5
9	64.4	64.4	64.4	64.4	64.3	64.1	64.0	63.9	63.9	64.0	63.8	63.8	63.9	64.2	64.4	64.6	64.8	64.9	65.0	65.0	64.9	64.6	64.5	64.4	64.3
10	64.3	64.2	64.1	64.0	63.9	63.9	63.8	63.8	64.0	64.2	64.4	64.6	64.9	65.2	65.5	65.7	65.8	65.8	65.8	65.8	65.7	65.6	65.4	65.4	64.8
11	65.4	65.4	65.3	65.3	65.3	65.3	65.2	65.2	65.3	65.4	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.5	65.5	65.4	65.4	65.2	65.1	65.4
12	65.1	65.0	65.0	65.0	65.0	64.9	64.9	65.1	65.1	64.9	64.8	64.7	64.6	64.5	64.5	64.5	64.6	64.7	64.7	64.6	64.5	64.3	64.0	63.6	64.7
13	63.4	63.3	63.3	63.3	63.4	63.2	63.1	63.0	62.9	62.8	62.7	62.7	62.6	62.6	62.7	62.8	62.8	62.7	62.4	62.1	61.9	61.7	61.3	61.1	62.7
14	60.9	60.7	60.6	60.5	60.5	60.5	60.4	60.4	60.5	60.6	60.8	61.1	61.3	61.6	61.8	61.9	62.0	62.0	62.0	61.9	61.7	61.7	61.6	61.5	61.2
15	61.5	61.4	61.5	61.5	61.6	61.7	61.8	61.9	61.9	62.0	62.2	62.4	62.6	62.8	63.1	63.2	63.1	63.1	63.2	63.2	63.1	62.9	62.9	62.8	62.4
16	62.5	62.4	62.4	62.4	62.4	62.4	62.5	62.7	62.7	62.8	63.0	63.2	63.3	63.5	63.5	63.6	63.7	63.7	63.7	63.6	63.5	63.3	63.0	63.0	63.0
17	63.0	63.0	62.9	62.9	62.8	62.7	62.7	63.1	63.1	63.3	63.5	63.9	64.4	64.9	65.3	65.7	65.9	65.9	65.8	65.5	65.2	64.9	64.6	64.4	64.1
18	64.2	64.2	64.2	64.2	64.3	64.4	64.5	64.6	64.7	64.8	64.9	64.9	64.9	64.9	64.9	65.0	65.1	65.1	65.0	64.9	64.8	64.7	64.5	64.4	64.7
19	64.3	64.3	64.3	64.3	64.3	64.4	64.4	64.5	64.6	64.7	64.9	65.1	65.4	65.7	66.0	66.1	66.2	66.2	66.1	66.0	65.9	65.8	65.7	65.6	65.2
20	65.4	65.3	65.3	65.3	65.3	65.3	65.3	65.4	65.5	65.5	65.6	65.7	65.9	66.1	66.2	66.3	66.3	66.4	66.2	66.1	65.9	65.7	65.5	65.4	65.7
21	65.3	65.3	65.2	65.2	65.1	65.1	65.0	64.9	64.9	64.9	65.0	65.1	65.2	65.3	65.5	65.6	65.6	65.5	65.2	64.9	64.8	64.6	64.5	64.3	65.1
22	64.2	64.1	64.0	64.0	64.0	64.0	64.1	64.1	64.3	64.5	64.8	65.1	65.5	65.7	66.1	66.3	66.6	66.6	66.5	66.2	66.1	66.3	66.2	65.9	65.2
23	65.8	65.8	65.8	65.7	65.6	65.5	65.4	65.3	65.4	65.4	65.3	65.2	65.4	65.7	66.1	66.5	66.9	67.0	67.2	67.2	67.2	67.2	67.2	67.2	66.1
24	67.2	67.2	67.2	67.2	67.2	67.1	67.1	67.3	67.5	67.6	67.7	67.7	67.6	67.5	67.6	67.7	67.8	67.9	67.9	67.9	67.9	67.8	67.7	67.6	67.5
25	67.5	67.4	67.3	67.2	67.1	67.0	67.0	66.9	67.1	67.1	67.0	67.2	67.3	67.4	67.7	67.8	67.8	67.8	67.7	67.6	66.7	66.5	66.4	66.3	67.2
26	67.1	67.0	66.9	66.8	66.7	66.6	66.6	66.6	66.8	66.9	67.0	67.4	67.7	68.1	68.4	68.4	68.5	68.4	68.3	68.3	68.2	68.2	68.1	68.0	67.5
27	68.0	67.9	67.9	67.8	67.8	67.7	67.7	67.7	67.7	67.8	67.8	68.0	68.1	68.1	68.2	68.4	68.6	68.6	68.7	68.6	68.6	68.6	68.6	68.5	68.1
28	68.5	68.4	68.4	68.4	68.3	68.3	68.3	68.3	68.3	68.4	68.6	68.8	69.4	69.5	69.8	70.0	69.9	69.9	69.9	69.9	70.2	70.4	70.7	70.8	69.2
29	70.9	70.8	70.7	70.6	70.5	70.4	70.5	70.5	70.7	70.8	70.9	71.2	71.4	71.5	71.7	72.0	72.5	72.6	72.4	72.2	72.2	72.0	71.6	71.3	71.3
30	71.1	70.9	70.9	70.7	70.6	70.5	70.4	70.4	70.5	70.6	70.6	70.7	70.7	70.8	70.9	71.0	71.0	71.1	71.2	71.1	71.0	70.8	70.7	70.6	70.8
																							MONTHLY AVERAGE		65.5

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 3

July 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	70.5	70.4	70.3	70.2	70.0	70.0	69.9	69.8	69.9	70.0	70.1	70.3	70.6	71.0	71.4	71.7	71.8	71.7	71.6	71.5	71.4	71.2	71.0	70.8	70.7
2	70.6	70.5	70.4	70.3	70.3	70.4	70.4	70.4	70.5	70.6	70.6	70.5	70.3	70.1	70.1	70.0	70.0	70.0	69.9	69.9	69.9	69.8	69.8	69.8	70.2
3	69.7	69.7	69.6	69.6	69.5	69.4	69.3	69.3	69.3	69.4	69.4	69.4	69.3	69.5	69.6	69.7	69.7	69.6	69.5	69.4	69.1	68.9	68.6	68.4	69.4
4	68.1	67.7	67.3	67.1	66.9	66.8	66.7	66.8	66.9	67.1	67.4	67.7	68.0	68.2	68.3	68.4	68.5	68.5	68.4	68.4	68.5	68.5	68.5	68.4	67.7
5	68.4	68.3	68.2	68.0	67.9	67.9	67.8	67.8	67.9	68.0	68.2	68.2	68.1	68.1	68.3	68.5	68.6	68.7	68.7	68.7	68.7	68.6	68.5	68.6	68.3
6	68.7	68.6	68.5	68.4	68.3	68.3	68.4	68.5	68.6	68.6	68.7	68.9	69.1	69.5	69.8	70.2	70.3	70.3	70.0	69.7	69.4	69.1	69.0	69.0	69.1
7	69.0	68.7	68.9	69.1	69.1	69.2	69.4	69.6	69.6	69.6	69.7	69.8	70.1	70.3	70.3	70.7	71.2	71.4	71.5	71.5	71.5	71.5	71.5	71.5	70.2
8	71.4	71.3	71.3	71.3	71.3	71.2	71.1	71.1	71.2	71.2	71.4	71.6	71.8	72.1	72.4	72.7	72.7	72.6	72.6	72.5	72.4	72.3	72.2	72.1	71.9
9	72.1	72.0	71.9	71.9	71.8	71.8	71.8	71.8	71.9	71.9	72.0	72.2	72.4	72.6	72.9	73.1	73.1	73.2	73.2	73.3	73.3	73.3	73.3	73.4	72.5
10	73.4	73.3	73.2	73.2	73.1	73.0	72.9	72.8	72.8	73.0	73.0	73.0	73.0	72.9	72.9	72.9	73.0	73.0	73.0	72.9	72.9	72.8	72.7	72.5	73.0
11	72.4	72.3	72.2	72.1	72.0	71.9	71.8	71.8	71.8	72.0	72.1	72.2	72.5	72.8	73.0	73.3	73.6	73.8	73.8	73.8	73.7	73.6	73.5	73.5	72.7
12	73.3	73.2	73.2	73.1	73.0	72.9	72.9	72.8	72.8	72.8	72.7	72.6	72.5	72.3	72.2	72.0	71.9	71.7	71.6	71.5	71.3	71.2	71.2	71.2	72.3
13	71.1	71.0	71.0	70.9	70.8	70.8	70.7	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.7	70.7	70.8	70.9	71.0	71.0	71.0	71.0	70.9	70.8	70.8
14	70.6	70.5	70.3	70.2	70.0	70.0	69.9	69.8	69.7	69.7	69.7	69.8	69.8	70.0	70.3	70.4	70.4	70.3	70.1	69.9	69.8	69.8	69.7	69.5	70.0
15	69.3	69.1	69.0	68.9	68.8	68.6	68.5	68.4	68.2	68.2	68.2	68.3	68.5	68.9	69.3	69.5	69.7	69.9	70.0	70.0	69.9	69.8	69.6	69.4	69.1
16	69.3	69.1	69.0	69.0	68.9	68.8	68.7	68.6	68.5	68.6	68.7	69.0	69.4	69.8	70.2	70.4	70.6	70.7	70.7	70.7	70.6	70.5	70.4	70.3	69.6
17	70.2	70.2	70.0	70.0	69.9	69.8	69.8	69.7	69.6	69.7	69.7	69.7	69.8	69.8	69.9	70.0	70.1	70.0	70.1	70.1	70.1	70.0	70.0	69.9	69.9
18	69.9	69.8	69.8	69.7	69.7	69.6	69.6	69.6	69.5	69.4	69.3	69.4	69.5	69.8	70.0	70.3	70.5	70.6	70.7	70.7	70.8	70.7	70.7	70.7	70.0
19	70.6	70.6	70.5	70.5	70.4	70.4	70.4	70.4	70.5	70.5	70.7	71.0	71.4	71.7	71.7	72.1	72.0	72.2	72.0	71.8	71.5	71.3	71.0	70.9	71.1
20	70.8	70.6	70.6	70.6	70.6	70.6	70.6	70.7	70.7	70.8	70.8	71.1	71.5	71.6	71.7	71.7	71.7	71.6	71.5	71.4	71.4	71.3	71.3	71.3	71.1
21	71.2	71.2	71.1	71.1	71.0	71.0	71.0	71.0	71.1	71.4	71.7	71.9	72.2	72.6	73.0	73.3	73.5	73.6	73.6	73.6	73.6	73.6	73.5	73.4	72.3
22	73.4	73.2	73.2	73.1	73.0	72.9	72.8	72.8	72.8	72.9	72.9	72.9	73.1	73.3	73.5	73.7	74.0	74.1	74.0	73.8	73.6	73.6	73.5	73.5	73.3
23	73.4	73.3	73.2	73.2	73.2	73.2	73.2	73.3	73.3	73.5	73.8	74.2	74.6	74.9	75.0	75.3	75.6	75.7	75.7	75.6	75.6	75.5	75.4	75.2	74.4
24	75.0	74.9	74.8	74.7	74.6	74.6	74.6	74.6	74.7	74.8	75.1	75.4	75.6	75.8	75.9	76.0	76.0	76.0	76.1	76.1	76.1	76.0	75.8	75.7	75.4
25	75.6	75.5	75.4	75.3	75.2	75.2	75.1	75.1	75.1	75.3	75.5	75.7	75.7	76.0	76.3	76.5	76.6	76.7	76.8	76.8	76.8	76.8	76.8	76.8	76.0
26	76.8	76.7	76.7	76.6	76.6	76.5	76.5	76.5	76.5	76.5	76.6	76.9	77.1	77.3	77.5	77.5	77.4	77.3	77.2	77.1	76.9	76.8	76.8	76.8	76.9
27	76.9	76.9	76.9	77.0	76.9	76.9	76.9	76.9	76.9	77.0	77.1	77.1	77.1	77.3	77.4	77.6	77.9	78.1	78.2	78.3	78.4	78.3	78.1	77.9	77.4
28	77.7	77.7	77.6	77.6	77.5	77.5	77.4	77.4	77.4	77.4	77.4	77.3	77.4	77.6	77.9	78.1	78.2	78.4	78.5	78.4	78.3	78.3	78.2	78.2	77.8
29	SYSTEM INOPERATIVE																								
30	SYSTEM INOPERATIVE													77.0	76.8	76.6	76.3	76.0	75.8	75.7	75.5	75.2	74.7	74.0	75.7
31	73.3	72.6	72.0	71.7	71.6	71.7	72.0	72.2	72.2	72.2	72.2	72.3	72.4	72.4	72.5	72.5	72.6	72.6	72.6	72.5	72.5	72.4	72.3	72.2	72.3

MONTHLY AVERAGE 72.0

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 3

August 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	72.2	72.1	72.0	71.9	71.9	71.8	71.7	71.6	71.5	71.4	71.5	71.5	71.6	71.8	71.9	72.0	71.9	71.8	71.8	71.6	71.5	71.5	71.3		71.8
2											SYSTEM INOPERATIVE														
3				SYSTEM INOPERATIVE							71.4	71.4	71.5	71.7	72.0	72.2	72.2	72.3	72.3	72.3	72.3	72.2	72.2	72.2	72.0
4	72.2	72.3	72.3	72.2	72.1	72.0	71.8	71.7	71.6	71.7	71.9	72.0	72.2	72.4	72.5	72.6	72.7	72.8	72.8	72.8	72.8	72.7	72.7	72.7	72.3
5	72.5	72.5	72.5	72.5	72.5	72.4	72.4	72.2	72.2	72.2	72.2	72.5	72.6	72.6	72.8	72.9	73.0	73.0	72.9	72.8	72.6	72.5	72.6	72.5	72.6
6	72.5	72.5	72.4	72.3	72.3	72.2	72.2	72.2	72.3	72.4	72.5	72.8	72.9	73.0	73.1	73.2	73.2	73.2	73.2	73.1	73.0	72.8	72.7	72.5	72.7
7	72.5	72.3	72.3	72.2	72.2	72.2	72.2	72.1	72.0	72.1	72.2	72.2	72.4	72.6	72.8	73.0	73.2	73.4	73.5	73.5	73.5	73.4	73.3	73.1	72.7
8	72.8	72.6	72.4	72.3	72.2	72.1	72.1	72.0	72.1	72.2	72.3	72.5	72.7	72.8	72.8	72.8	72.9	72.8	72.8	72.8	72.6	72.6	72.6	72.6	72.5
9	72.8	72.8	72.7	72.6	72.3	71.7	71.0	70.6	70.5	70.7	70.9	71.2	71.4	71.6	71.8	71.9	71.9	72.0	72.0	71.9	72.0	71.8	71.7	71.6	71.7
10	71.4	71.3	71.2	71.2	71.1	71.0	70.9	70.8	70.8	70.9	71.0	71.2	71.4	71.6	71.7	71.8	71.8	71.8	71.8	71.8	71.7	71.7	71.7	71.7	71.4
11	71.6	71.7	71.6	71.6	71.5	71.4	71.3	71.3	71.2	71.1	71.1	71.2	71.4	71.6	71.8	72.0	72.3	72.5	72.6	72.7	72.7	72.6	72.5	72.4	71.8
12	72.3	72.1	72.0	71.9	71.8	71.7	71.7	71.6	71.6	71.7	71.8	71.9	72.0	72.2	72.3	72.4	72.4	72.4	72.4	72.3	72.2	72.0	71.9	71.8	72.0
13	71.7	71.5	71.4	71.3	71.2	71.2	71.1	71.1	71.0	71.0	71.2	71.3	71.5	71.8	72.0	72.1	72.3	72.3	72.2	72.2	72.1	71.9	71.8	71.8	71.6
14	71.6	71.5	71.4	71.3	71.3	71.2	71.1	71.0	70.9	70.9	71.0	71.1	71.3	71.6	71.8	72.1	72.2	72.2	72.1	72.0	71.8	71.7	71.6	71.6	71.5
15	71.5	71.5	71.5	71.4	71.3	71.3	71.2	71.2	71.2	71.3	71.4	71.5	71.7	71.9	72.0	72.0	72.0	72.0	71.9	71.8	71.7	71.5	71.4	71.3	71.6
16	71.1	71.0	70.9	70.8	70.7	70.7	70.6	70.6	70.6	70.6	70.7	70.8	70.9	71.1	71.3	71.6	71.9	72.1	72.3	72.3	72.3	72.2	72.2	72.1	71.3
17	72.0	72.0	71.9	71.9	71.9	71.8	71.8	71.7	71.7	71.7	71.8	71.9	72.0	72.0	72.0	72.0	71.9	71.9	71.8	71.8	71.7	71.6	71.5	71.5	71.8
18	71.5	71.5	71.5	71.4	71.3	71.3	71.3	71.3	71.4	71.4	71.5	71.5	71.6	71.6	71.6	71.6	71.6	71.7	71.7	71.7	71.7	71.6	71.6	71.6	71.5
19	71.5	71.5	71.5	71.4	71.3	71.3	71.2	71.2	71.2	71.1	71.0	71.0	71.2	71.5	71.8	71.9	72.1	72.2	72.1	72.0	71.8	71.7	71.6	71.4	71.5
20	71.2	71.2	71.1	71.0	70.9	70.9	70.8	70.8	70.8	70.8	71.0	71.2	71.5	71.8	72.1	72.3	72.3	72.4	72.4	72.2	72.2	72.1	72.0	71.9	71.5
21	71.8	71.8	71.7	71.6	71.6	71.5	71.5	71.4	71.4	71.5	71.5	71.6	71.8	72.0	72.2	72.3	72.3	72.4	72.5	72.5	72.5	72.4	72.3	72.3	71.9
22	72.3	72.2	72.2	72.1	72.1	72.0	71.9	71.9	72.0	72.1	72.2	72.2	72.3	72.5	72.7	72.9	73.0	73.0	73.0	72.9	72.8	72.8	72.6	72.6	72.4
23	72.5	72.3	72.3	72.2	72.1	72.0	71.9	71.9	71.9	71.9	72.0	72.1	72.2	72.2	72.3	72.4	72.3	72.4	72.5	72.5	72.5	72.4	72.3	72.3	72.2
24	72.2	72.2	72.2	72.1	72.0	71.9	71.8	71.7	71.7	71.6	71.6	71.5	71.5	71.5	71.5	71.5	71.4	71.2	71.0	70.9	70.8	70.7	70.6	70.4	71.5
25	70.3	70.2	70.1	70.0	70.0	69.9	69.9	69.7	69.6	69.5	69.6	69.7	69.8	70.0	70.3	70.6	70.7	70.7	70.6	70.6	70.5	70.5	70.4	70.3	70.2
26	70.2	70.1	70.0	69.9	69.8	69.7	69.7	69.7	69.7	69.8	70.0	70.1	70.4	70.5	70.7	70.7	70.7	70.5	70.5	70.5	70.5	70.4	70.3	70.3	70.2
27	70.3	70.2	70.1	70.0	70.0	69.9	70.0	70.0	70.0	70.1	70.1	70.2	70.2	70.3	70.3	70.4	70.4	70.5	70.5	70.6	70.6	70.6	70.5	70.4	70.3
28	70.3	70.1	70.0	69.8	69.7	69.6	69.5	69.4	69.3	69.2	69.1	69.1	69.0	69.1	69.1	69.3	69.3	69.2	68.9	68.6	68.3	68.0	67.8	67.6	69.1
29	67.4	67.3	67.2	67.1	67.0	66.9	66.8	66.7	66.7	66.8	67.0	67.1	67.2	67.2	67.1	67.1	67.0	66.9	66.9	66.8	66.6	66.5	66.4	66.4	66.9
30	66.3	66.2	66.2	66.1	66.0	66.0	65.9	65.8	65.8	65.8	65.9	66.1	66.4	66.6	66.8	67.0	67.1	67.1	67.1	67.0	66.9	66.7	66.5	66.4	66.4
31	66.3	66.2	66.2	66.1	66.0	66.0	66.0	65.9	65.9	66.0	66.2	66.4	66.8	67.1	67.4	67.6	67.8	67.9	67.9	67.9	68.0	67.9	67.7	67.6	66.8
																						MONTHLY AVERAGE			69.3

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 3

September 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	67.5	67.4	67.2	67.1	67.0	66.9	66.9	66.8	66.7	66.5	66.4	66.5	66.6	66.9	67.3	67.5	67.6	67.5	67.3	67.2	67.0	66.8	66.7	66.6	67.0
2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.6	66.7	66.7	66.9	67.1	67.4	67.6	67.8	67.9	68.0	67.9	67.9	67.9	67.9	67.8	67.1
3	67.7	67.7	67.6	67.5	67.4	67.4	67.3	67.3	67.2	67.0	66.9	66.6	66.5	66.6	66.7	66.7	66.8	66.8	66.7	66.8	66.8	66.8	66.8	66.7	67.0
4	66.7	66.7	66.6	66.6	66.5	66.5	66.5	66.4	66.4	66.3	66.3	66.1	66.1	66.1	66.1	66.2	66.2	66.3	66.2	66.2	66.1	66.0	66.0	65.9	66.3
5	65.8	65.7	65.7	65.6	65.6	65.5	65.5	65.4	65.4	65.3	65.3	65.2	65.2	65.3	65.3	65.4	65.4	65.4	65.4	65.3	65.3	65.3	65.3	65.2	65.4
6	65.2	65.2	65.2	65.1	65.1	65.1	65.0	65.1	65.0	65.1	65.2	65.4	65.5	65.7	65.8	65.9	66.0	66.0	66.0	66.0	65.9	65.8	65.8	65.7	65.5
7	65.6	65.5	65.5	65.4	65.3	65.2	65.2	65.1	65.1	65.1	65.1	64.9	64.9	64.9	65.0	65.2	65.3	65.4	65.4	65.4	65.4	65.4	65.3	65.2	65.2
8	65.1	65.1	65.0	64.9	64.9	64.8	64.7	64.7	64.6	64.6	64.6	64.6	64.7	64.8	65.0	65.2	65.3	65.4	65.3	65.3	65.2	65.1	65.0	64.8	64.9
9	64.8	64.7	64.6	64.6	64.5	64.5	64.4	64.4	64.4	64.3	64.3	64.4	64.6	64.8	65.0	65.2	65.2	65.1	65.0	65.0	64.9	64.8	64.7	64.6	64.7
10	64.5	64.4	64.3	64.3	64.2	64.1	64.1	64.0	63.9	63.8	63.7	63.8	63.9	64.2	64.4	64.6	64.7	64.7	64.7	64.7	64.7	64.6	64.6	64.6	64.3
11	64.5	64.5	64.4	64.4	64.4	64.4	64.3	64.3	64.3	64.4	64.5	64.7	64.8	64.9	65.0	65.1	65.3	65.4	65.4	65.5	65.5	65.5	65.5	65.5	64.8
12	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.4	65.4	65.6	65.7	65.7	65.7	65.8	65.9	66.1	66.2	66.3	66.4	66.5	66.5	66.5	66.4	66.4	65.9
13	66.3	66.2	66.2	66.2	66.1	66.0	65.9	65.9	65.8	65.9	66.0	66.0	66.1	66.3	66.3	66.4	66.5	66.5	66.6	66.6	66.4	66.4	66.3	66.2	66.2
14	66.2	66.1	66.1	66.0	65.9	65.8	65.7	65.6	65.5	65.5	65.6	65.8	65.9	65.9	66.1	66.2	66.1	66.0	65.9	65.8	65.7	65.6	65.5	65.4	65.8
15	65.2	65.2	65.0	65.0	64.9	64.8	64.7	64.7	64.6	64.6	64.6	64.6	64.7	64.9	65.0	65.2	65.3	65.4	65.4	65.4	65.4	65.4	65.3	65.3	65.0
16	65.2	65.2	65.1	65.1	65.0	64.9	64.8	64.7	64.6	64.5	64.4	64.4	64.3	64.3	64.3	64.3	64.3	64.4	64.4	64.4	64.3	64.2	64.1	64.0	64.5
17	63.8	63.7	63.6	63.4	63.3	63.2	63.1	63.1	63.0	63.0	63.1	63.4	63.8	64.2	64.4	64.4	64.3	64.2	64.2	64.1	63.9	63.8	63.7	63.6	63.6
18	63.5	63.4	63.3	63.2	63.1	63.0	62.9	62.8	62.8	62.6	62.5	62.5	62.6	62.8	63.1	63.2	63.2	63.1	63.1	63.0	62.9	62.8	62.7	62.7	62.9
19	62.6	62.6	62.5	62.5	62.4	62.4	62.4	62.4	62.4	62.3	62.2	62.3	62.5	62.6	62.8	63.0	63.1	63.1	63.1	63.1	63.0	63.0	63.0	62.9	62.7
20	62.9	62.9	62.8	62.8	62.8	62.7	62.7	62.6	62.6	62.6	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.4	62.4	62.4	62.4	62.3	62.3	62.5
21	62.2	62.1	62.1	62.1	62.0	62.0	61.9	61.9	61.9	61.8	61.8	61.6	61.4	61.3	61.3	61.3	61.3	61.4	61.4	61.4	61.4	61.3	61.3	61.2	61.6
22	61.2	61.1	61.1	61.1	61.0	60.9	60.9	60.9	60.8	60.6	60.4	60.4	60.5	60.6	60.8	60.9	60.9	60.8	60.7	60.6	60.5	60.5	60.4	60.4	60.7
23	60.4	60.3	60.3	60.3	60.2	60.2	60.2	60.2	60.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.1	60.0	60.0	60.0	59.9	59.9	60.1
24	59.9	59.9	59.9	59.9	59.8	59.8	59.8	59.8	59.9	60.0	60.0	60.1	60.2	60.5	60.7	60.9	61.0	61.1	61.1	61.2	61.2	61.2	61.1	61.0	60.4
25	60.7	60.6	60.6	60.6	60.6	60.5	60.5	60.6	60.6	60.7	60.7	61.0	61.2	61.5	61.7	62.0	62.1	62.2	62.1	62.0	61.8	61.5	61.3	61.2	61.2
26	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.3	61.4	61.6	61.9	62.0	62.1	61.9	61.9	61.8	61.6	61.4	61.3	61.2	61.4
27	61.1	61.1	61.0	61.0	60.9	60.9	60.8	60.7	60.7	60.6	60.7	60.9	61.2	61.3	61.4	61.6	61.6	61.7	61.7	61.7	61.6	61.6	61.5	61.5	61.2
28	61.4	61.3	61.2	61.1	61.0	61.0	60.9	60.8	60.8	60.8	60.7	60.7	60.7	60.7	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.5	60.5	60.4	60.7
29	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.6	60.7	60.8	60.9	61.1	61.2	61.2	61.1	61.0	61.1	61.0	61.0	61.0	61.0	61.0	61.0	60.7
30	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.1	61.2	61.3	61.5	61.7	61.8	62.1	62.2	62.3	62.4	62.3	62.3	62.3	62.2	62.2	61.5
																						MONTHLY AVERAGE			63.7

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 3

October 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	62.2	62.1	62.1	62.1	62.1	62.1	62.0	62.0	62.1	62.1	62.1	62.2	62.3	62.5	62.6	62.7	62.8	62.9	62.9	62.9	62.8	62.8	62.6	62.5	62.4
2	62.4	62.4	62.4	62.4	62.3	62.3	62.3	62.3	62.2	62.1	62.1	62.1	62.1	62.1	62.2	62.3	62.4	62.5	62.6	62.5	62.4	62.3	62.2	62.1	62.3
3	62.0	61.9	61.9	61.9	61.8	61.8	61.7	61.7	61.6	61.7	61.7	61.9	62.0	62.0	62.0	62.0	61.9	61.8	61.7	61.6	61.6	61.7	61.7	61.8	61.8
4	61.9	61.9	61.9	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.2	62.2	62.2	62.2	62.3	62.2	62.3	62.2	62.2	62.1	62.1	62.0	61.9	62.1
5	61.8	61.6	61.5	61.4	61.3	61.2	61.0	60.9	60.8	60.7	60.6	60.5	60.4	60.4	60.4	60.3	60.3	60.2	60.2	60.0	59.9	59.9	59.8	59.8	60.6
6	59.8	59.7	59.7	59.7	59.7	59.7	59.6	59.4	59.3	59.2	59.1	59.0	59.0	59.0	58.9	58.8	58.7	58.6	58.4	58.2	58.0	57.9	57.8	57.7	58.9
7	57.7	57.6	57.6	57.5	57.5	57.4	57.3	57.2	57.1	57.1	57.1	57.1	57.2	57.3	57.4	57.4	57.4	57.3	57.2	57.0	56.9	56.7	56.6	56.5	57.2
8	56.5	56.5	56.5	56.5	56.5	56.4	56.3	56.3	56.2	56.2	56.3	56.4	56.5	56.6	56.7	56.6	56.6	56.5	56.4	56.2	56.1	56.0	55.9	55.8	56.3
9	55.7	55.7	55.7	55.8	55.8	55.7	55.7	55.7	55.6	55.5	55.6	55.6	55.6	55.6	55.6	55.5	55.4	55.4	55.3	55.2	55.1	54.9	54.8	54.8	55.5
10	54.7	54.7	54.7	54.6	54.5	54.3	54.3	54.2	54.2	54.2	54.2	54.3	54.3	54.4	54.4	54.5	54.5	54.4	54.3	54.1	53.9	53.8	53.7	53.6	54.3
11	53.5	53.5	53.4	53.4	53.4	53.3	53.3	53.2	53.1	53.1	53.2	53.3	53.4	53.6	53.7	53.8	53.8	53.8	53.7	53.5	53.3	53.2	52.9	52.8	53.4
12	52.7	52.6	52.5	52.4	52.3	52.2	52.2	52.1	52.1	52.1	52.0	52.1	52.2	52.5	52.7	53.0	53.2	53.3	53.3	53.3	53.2	53.2	53.1	53.1	52.6
13	53.1	53.0	53.0	53.0	52.9	52.9	52.9	52.9	52.9	52.9	52.8	52.6	52.5	52.5	52.5	52.5	52.4	52.4	52.4	52.5	52.6	52.6	52.7	52.7	52.7
14	52.7	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.5	52.6	52.5	52.6	52.6	52.7	52.8	52.9	53.0	53.0	52.9	52.8	52.7	52.6	52.7
15	52.5	52.4	52.3	52.3	52.3	52.2	53.7	55.6	55.1	54.3	53.9	53.9	54.0	54.2	54.2	54.2	54.2	54.1	54.0	53.8	53.7	53.5	53.4	53.3	53.6
16	53.3	53.2	53.2	53.3	53.3	53.2	53.5	53.8	53.5	53.4	53.4	53.5	53.6	53.5	53.6	53.6	53.5	53.3	53.5	53.9	53.9	53.9	53.9	53.9	53.5
17	54.0	54.4	54.8	54.9	55.0	55.2	55.7	55.6	55.0	53.7	53.1	53.0	52.9	52.9	52.9	52.9	52.9	52.9	53.2	53.2	52.9	52.8	52.7	52.6	53.7
18	52.8	53.3	53.7	54.1	54.3	54.4	54.5	54.8	55.0	55.6	55.2	54.2	53.1	53.0	53.0	53.5	53.7	53.8	53.8	53.9	53.8	53.3	53.0	52.8	53.9
19	52.7	52.7	52.6	52.7	53.2	53.6	53.8	53.8	53.9	54.0	54.5	55.3	55.6	55.7	55.9	55.9	55.8	55.7	55.7	55.7	55.6	55.5	55.4	55.3	54.6
20	55.3	55.3	55.2	55.2	55.0	55.0	54.9	55.0	55.5	56.1	55.7	54.3	53.4	52.9	52.8	52.9	53.0	53.2	53.8	53.6	53.2	53.2	53.1	53.1	54.2
21	52.9	53.0	53.3	53.5	53.6	53.7	53.8	53.9	54.4	54.8	54.4	53.2	52.4	52.1	52.1	52.1	52.1	52.2	52.1	52.0	52.0	51.9	51.8	51.7	52.9
22	51.8	52.1	52.4	52.7	52.9	53.1	53.2	53.4	54.0	54.3	53.8	52.8	52.2	52.3	52.2	52.3	52.3	52.3	52.2	52.1	52.1	52.1	52.0	52.3	52.6
23	52.4	52.5	52.6	52.9	53.3	53.7	54.0	54.2	54.6	54.9	54.7	53.9	53.0	52.6	52.5	52.4	52.5	52.6	52.7	52.7	52.6	52.6	52.5	52.5	53.1
24	52.5	52.5	52.8	53.1	53.4	53.7	53.9	54.2	54.8	55.1	54.7	54.2	53.8	53.4	53.1	53.1	53.3	53.6	53.3	52.7	52.4	52.4	52.3	52.4	53.3
25	52.4	52.5	52.5	52.6	52.6	52.8	53.0	53.3	53.7	54.3	54.3	53.8	53.1	52.9	53.1	53.4	53.5	53.3	53.2	53.2	52.7	52.2	51.5	51.2	53.0
26	51.1	51.1	51.1	51.1	51.0	51.0	50.9	50.9	50.9	51.0	51.8	52.5	52.6	52.4	51.9	51.6	51.6	51.6	51.8	51.7	51.4	51.3	51.2	51.2	51.4
27	51.2	51.5	51.6	51.7	51.7	51.8	51.9	52.1	52.4	53.5	53.3	52.5	51.3	50.7	51.2	51.6	51.7	51.8	51.7	51.6	51.6	51.6	51.6	51.4	51.8
28	50.8	50.7	51.1	51.3	51.4	51.6	51.9	52.2	52.5	53.4	53.8	53.5	53.0	52.6	52.3	52.1	52.1	52.1	52.0	51.9	51.9	51.8	51.7	51.5	52.0
29	51.5	51.4	51.4	51.5	51.7	52.0	52.4	52.9	53.6	53.3	53.1	52.6	52.1	51.9	51.9	52.0	52.0	51.9	51.8	51.6	51.5	51.4	51.3	51.2	52.0
30	51.1	51.0	51.0	51.1	51.4	51.9	52.4	53.0	53.5	53.2	53.1	52.7	52.1	52.0	52.0	51.9	51.9	51.8	51.7	51.6	51.5	51.5	51.7	51.7	51.9
31	51.6	51.5	51.4	51.5	51.8	52.1	52.3	52.7	53.2	53.5	53.2	52.8	52.1	51.7	51.6	51.5	51.3	51.1	50.6	50.4	50.4	50.3	50.2	50.1	51.6
																								MONTHLY AVERAGE	54.9

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 3

November 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	50.1	50.1	50.1	50.3	50.6	51.2	51.5	51.8	52.0	52.7	52.2	51.2	50.3	49.9	49.9	49.9	50.1	50.4	51.1	51.1	50.7	50.4	50.4	50.4	50.8
2	50.4	50.6	51.0	51.1	51.2	51.5	52.0	52.1	52.5	53.3	53.9	53.6	53.5	52.8	52.0	51.6	51.4	50.9	50.2	50.0	49.9	49.7	49.8	49.8	51.4
3	50.0	50.2	50.4	50.5	50.8	51.2	51.5	52.0	52.7	52.9	52.5	52.1	51.4	50.9	50.8	50.7	50.8	51.4	51.3	50.9	50.6	50.3	50.3	50.2	51.1
4	50.2	50.3	50.6	50.8	51.1	51.5	51.8	52.0	52.3	52.6	52.5	51.8	50.8	50.1	49.9	49.9	49.9	49.9	49.8	49.6	49.4	49.2	49.0	48.8	50.6
5	48.6	48.5	48.4	48.4	48.4	48.8	48.9	49.1	50.0	50.5	49.2	48.4	48.2	48.1	47.9	47.8	47.7	47.6	47.3	47.1	47.0	46.9	46.8	46.6	48.2
6	46.5	46.4	46.3	46.3	46.3	46.4	46.7	47.2	48.4	49.1	47.8	46.8	46.4	46.2	46.2	46.3	46.3	46.2	46.3	46.3	46.3	46.3	46.1	46.1	46.6
7	45.9	45.8	45.7	45.7	45.9	46.2	46.6	47.7	47.8	47.0	46.5	46.0	45.7	45.6	45.6	45.5	45.5	45.5	45.5	45.5	45.5	45.4	45.4	45.4	45.9
8	45.3	45.6	46.2	46.8	47.1	47.3	47.7	48.4	47.9	47.1	45.5	45.0	45.5	45.5	45.5	45.5	46.1	47.3	46.7	45.8	45.5	45.5	45.5	45.4	46.2
9	45.6	46.1	46.9	47.4	47.8	47.8	47.9	48.2	48.4	48.7	47.6	46.4	45.9	45.6	45.5	45.6	45.6	45.5	45.4	45.3	45.1	44.9	44.7	44.7	46.4
10	44.9	44.9	44.9	44.8	44.8	44.7	44.7	44.6	44.6	44.7	44.8	45.0	45.0	45.0	45.0	45.0	44.9	44.8	44.6	44.4	44.3	44.2	44.2	44.2	44.7
11	44.1	44.1	44.2	44.2	44.2	44.2	44.2	44.2	44.1	44.1	44.1	44.0	43.8	43.6	43.4	43.3	43.2	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.7
12	43.1	43.0	42.9	42.9	42.8	42.7	42.6	42.6	42.5	42.5	42.6	42.6	42.7	42.7	42.7	42.6	42.6	42.6	42.5	42.5	42.5	42.5	42.5	42.5	42.7
13	42.5	42.4	42.3	42.6	43.0	43.6	43.8	44.1	45.2	43.9	43.2	42.9	42.9	42.8	43.4	43.5	43.5	43.3	42.3	41.9	41.7	41.5	41.3	41.2	42.9
14	41.1	40.9	40.7	41.2	41.6	41.9	41.9	41.7	41.8	41.0	40.9	40.8	41.0	41.2	41.2	41.4	41.4	41.1	40.9	40.7	40.5	40.3	40.0	39.8	41.0
15	39.7	39.7	39.5	39.9	40.8	41.0	41.2	41.2	41.6	41.6	41.6	41.2	40.9	41.1	41.4	41.5	40.7	40.4	40.5	40.2	40.1	40.0	39.9	39.9	40.6
16	39.9	39.8	39.8	39.7	39.6	39.6	39.8	40.8	41.6	42.2	42.9	43.9	44.6	44.0	43.7	43.5	43.3	43.2	43.8	44.1	43.1	43.0	42.8	42.8	42.2
17	42.6	42.4	42.6	43.0	43.4	43.6	43.8	44.3	44.8	42.7	42.0	41.4	41.1	41.0	40.8	40.9	40.4	40.4	40.3	40.2	40.3	40.3	40.2	40.4	41.8
18	40.9	40.9	40.9	40.9	40.9	40.8	41.0	42.2	43.7	42.3	41.7	41.2	40.8	40.7	40.8	40.8	40.8	41.0	40.7	40.5	40.3	40.3	40.2	40.0	41.0
19	39.9	39.6	39.4	39.3	39.2	39.1	40.8	42.1	40.5	39.8	39.3	39.3	39.3	39.3	39.3	39.4	39.2	39.1	39.0	38.9	38.7	38.6	38.5	38.6	39.4
20	38.6	38.5	38.4	38.2	38.2	39.1	40.9	40.9	38.9	38.6	38.4	38.5	38.7	38.8	38.9	38.9	38.9	38.9	38.8	38.7	38.5	38.3	38.1	38.0	38.8
21	38.0	38.0	37.8	37.7	37.7	38.0	38.5	40.6	42.5	40.1	38.9	38.4	38.3	38.4	38.4	38.5	38.3	38.2	38.2	38.0	37.8	37.7	37.7	37.6	38.5
22	37.5	37.5	37.6	37.6	37.6	37.5	37.7	37.6	37.5	37.4	37.4	37.5	37.6	37.7	37.7	37.7	37.7	37.6	37.4	37.3	37.2	37.2	37.0	37.1	37.5
23	37.2	37.3	37.6	37.8	37.7	37.5	37.8	38.4	39.6	41.5	40.6	39.4	39.0	39.0	38.9	38.8	38.7	39.2	41.3	40.1	39.6	39.4	39.2	38.9	38.9
24	39.1	39.1	38.9	39.1	39.7	40.5	41.1	41.8	42.8	40.6	39.4	38.6	38.1	37.8	37.6	37.5	37.3	37.3	37.4	37.1	37.1	37.0	36.9	36.9	38.7
25	37.0	37.0	37.2	37.0	36.8	36.4	36.7	39.5	40.1	38.4	37.8	37.6	37.5	37.6	37.6	37.6	37.6	37.6	37.5	37.4	37.3	37.4	37.4	37.5	37.6
26	37.5	37.5	37.5	37.4	37.3	38.1	38.7	37.8	37.6	37.6	37.6	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.6	37.6	37.6	37.6	37.5	37.7
27	37.6	37.5	37.4	37.3	37.0	36.9	36.8	36.9	37.0	37.1	37.2	37.4	37.6	37.8	37.9	38.0	38.0	37.9	38.0	38.1	37.9	37.9	37.9	37.8	37.5
28	37.7	37.6	37.5	37.4	37.4	37.3	37.2	37.1	37.1	37.1	37.1	37.1	37.3	37.4	37.5	37.5	37.6	37.6	37.5	37.5	37.5	37.4	37.3	37.1	37.4
29	37.0	36.9	36.8	36.7	36.7	36.7	36.8	36.8	36.8	36.8	36.8	36.9	37.0	37.1	37.1	37.2	37.2	37.2	37.2	37.3	37.3	37.4	37.4	37.4	37.0
30	37.5	37.4	37.3	37.4	37.3	37.3	37.2	37.2	37.3	37.3	37.3	37.4	37.4	37.4	37.4	37.3	37.2	37.2	37.1	37.0	36.9	36.9	36.8	36.7	37.2

MONTHLY AVERAGE 42.5

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Station 3

December 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	36.6	36.5	36.5	36.4	36.4	36.3	36.2	36.2	36.2	36.2	36.3	36.4	36.5	36.4	36.3	36.2	36.1	36.0	36.0	36.0	36.0	35.9	35.9	35.9	36.2
2	35.9	35.9	35.8	35.8	35.7	35.6	35.5	35.4	35.4	35.4	35.4	35.5	35.5	35.4	35.4	35.4	35.3	35.1	35.0	34.9	34.8	34.8	34.8	34.7	35.3
3	34.7	34.7	34.7	34.7	34.8	34.8	34.8	34.8	34.8	34.7	34.6	34.6	34.6	34.6	34.7	34.8	34.9	35.0	35.0	35.0	35.1	35.1	35.2	35.3	34.8
4	35.6	35.6	35.7	35.7	35.8	35.8	35.7	35.7	35.6	35.7	35.7	35.6	35.6	35.5	35.5	35.5	35.5	35.5	35.6	35.7	35.8	35.9	35.9	35.9	39.7
5	35.9	35.8	35.7	35.6	35.6	35.5	35.6	35.7	35.8	35.6	35.6	35.6	35.6	35.5	35.5	35.4	35.4	35.4	35.4	35.4	35.3	35.3	35.2	35.2	35.5
6	35.2	35.3	35.3	35.2	35.2	35.2	35.1	35.0	35.0	35.0	35.1	35.2	35.4	35.5	35.5	35.5	35.4	35.4	35.4	35.4	35.4	35.4	35.5	35.6	35.3
7	35.6	35.5	35.3	35.4	35.6	35.7	35.6	35.7	35.7	35.7	35.9	36.1	36.1	36.2	36.3	36.4	36.4	36.4	36.4	36.3	36.3	36.3	36.3	36.2	36.0
8	36.2	36.1	36.1	36.1	36.1	36.0	35.9	35.9	35.8	35.7	35.8	35.8	35.9	35.9	36.0	35.9	35.8	35.8	35.8	35.7	35.7	35.6	35.6	35.5	35.9
9	35.5	35.5	35.5	35.4	35.4	35.3	35.3	35.2	35.1	35.0	34.9	34.8	34.8	34.7	34.7	34.6	34.5	34.4	34.4	34.3	34.3	34.2	34.2	34.1	34.8
10	34.0	34.0	33.9	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.9	33.9	34.0	34.0	34.0	34.1	34.0	34.0	34.0	34.0	33.9	33.9	33.9
11	33.8	33.7	33.6	34.1	34.6	35.4	35.9	35.2	34.0	33.8	33.7	33.8	33.7	33.6	33.5	34.3	34.1	34.2	33.9	33.8	33.8	33.8	33.8	33.8	34.1
12	33.8	33.8	33.8	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.8	33.8	33.9	34.0	34.0	33.9	33.8	33.8	33.7	33.7	33.7	33.8	33.8	33.8
13	33.8	33.8	33.8	33.7	33.7	33.6	33.6	33.5	33.4	33.3	33.4	33.8	33.8	33.7	33.7	33.6	33.6	33.5	33.5	33.3	33.5	33.5	33.5	33.6	33.6
14	33.6	33.5	33.4	33.5	34.1	34.6	34.7	34.9	35.1	34.2	33.9	33.9	34.0	34.0	34.0	33.8	34.1	35.9	36.0	34.5	34.1	34.0	33.9	33.8	34.2
15	33.6	33.7	33.8	34.1	34.5	35.0	36.1	38.0	37.3	35.4	34.5	34.3	34.2	34.2	35.1	35.5	35.6	35.2	34.2	34.1	33.9	34.0	33.8	33.6	34.7
16	33.8	33.9	34.2	34.6	35.1	35.9	37.9	36.6	35.3	34.6	34.4	34.3	34.2	34.1	34.1	34.0	34.0	34.1	34.0	33.9	33.8	33.8	33.8	33.8	34.5
17	33.6	33.6	33.8	33.8	33.8	33.8	33.7	34.1	35.0	35.3	34.1	34.0	33.9	33.8	34.0	34.1	34.4	34.2	33.8	33.8	33.8	33.8	33.8	33.8	34.0
18	33.7	33.7	33.9	34.1	34.3	34.4	34.5	34.5	34.8	34.7	34.1	33.9	33.8	33.8	34.0	34.0	34.1	33.9	33.8	33.7	33.7	33.7	33.8	33.8	34.0
19	33.7	33.6	33.7	34.2	34.6	34.8	34.9	34.3	34.0	34.0	34.0	34.0	34.0	34.0	33.9	33.9	33.9	33.9	33.9	33.9	33.8	33.8	33.9	33.9	34.0
20	33.8	33.7	34.0	34.3	34.4	34.5	34.5	34.3	33.9	33.8	33.6	33.4	33.4	33.3	33.4	33.4	33.4	33.3	33.3	33.6	33.7	33.6	33.6	33.6	33.7
21	33.6	33.5	33.5	33.7	33.7	33.8	33.8	33.8	33.7	33.8	33.8	33.8	33.9	34.0	34.2	34.2	34.3	34.1	33.9	33.9	33.8	33.8	33.7	33.7	33.8
22	33.7	33.4	33.3	33.5	33.8	34.2	35.8	37.4	36.1	34.8	34.4	34.2	34.1	34.1	34.1	34.1	34.2	34.1	33.9	33.9	33.8	33.8	33.7	34.0	34.3
23	34.1	34.4	34.8	35.0	35.2	35.3	36.2	37.6	36.4	35.1	34.4	34.3	34.0	34.1	34.3	34.4	34.3	34.1	34.0	34.0	34.0	33.9	34.0	33.8	34.6
24	33.8	33.7	33.5	33.4	33.4	33.9	34.9	36.7	37.4	35.9	34.8	34.4	34.3	34.3	34.3	34.2	34.1	34.1	34.0	34.0	34.0	34.0	34.0	33.9	34.4
25	34.0	33.9	33.9	33.9	34.1	34.4	34.6	34.6	34.4	34.2	34.0	34.0	33.9	33.9	33.9	34.0	33.9	33.9	33.9	33.9	33.7	33.8	33.8	33.9	34.0
26	33.8	33.8	33.8	33.8	33.9	33.8	33.9	33.9	33.9	33.9	33.9	33.9	34.0	34.0	34.0	34.0	33.9	33.9	33.9	33.9	33.9	33.8	33.8	34.0	33.9
27	34.2	34.2	34.3	34.2	34.3	34.2	34.3	34.3	34.3	34.2	34.1	34.1	34.2	34.2	34.3	34.2	34.2	34.2	34.1	34.1	34.1	34.1	34.0	34.0	34.2
28	34.0	33.9	33.9	33.7	33.6	33.5	34.1	35.1	36.2	36.2	34.6	34.3	34.3	34.3	34.5	34.9	35.2	34.9	34.3	34.2	34.1	34.0	34.0	34.1	34.4
29	34.5	34.5	34.5	34.6	34.8	34.8	35.1	36.4	37.8	36.1	35.0	34.4	34.2	34.2	34.2	34.1	34.6	36.3	35.3	34.5	34.4	34.7	35.0	35.0	35.0
30	34.9	34.9	34.9	34.8	35.0	35.4	35.9	37.2	38.3	36.4	35.3	34.7	34.3	34.2	34.1	34.0	34.0	34.1	33.9	34.0	33.9	33.9	33.9	34.0	34.8
31	34.4	34.5	34.6	34.6	34.5	34.4	34.7	35.9	37.7	35.9	35.0	34.6	34.4	34.3	34.3	34.3	34.2	34.2	34.1	34.0	34.0	33.9	33.9	33.9	34.6

MONTHLY AVERAGE 34.6

Connecticut River Discharge
at Vernon Station, Vernon, Vermont
January 1986

Discharge, cfs

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	1180	1175	1170	1170	1170	1160	1915	2565	2700	3130	2850	3925	10570	7615	8160	7140	1185	8740	9725	6835	1190	1175	1170	1170
2	1470	1470	1470	1470	1470	1470	1470	9425	10245	10105	9910	9730	9730	4980	5920	5920	10345	9680	9670	9290	3415	3370	3665	3650
3	4215	4275	4215	4215	4160	3285	3705	4800	9955	10005	9435	9730	8865	9700	10170	9540	9595	9750	9645	9175	9665	1245	1205	1195
4	1170	1175	1165	1160	1160	1155	1155	1155	1155	10335	9375	9795	9820	9825	9505	10115	9460	9575	9685	9725	6595	5120	5200	1230
5	1195	1195	1195	1190	1185	1185	1185	1185	5080	4955	4830	4655	5230	1205	1195	1180	10495	9595	1220	1185	1185	1175	1170	1170
6	1170	1170	1170	1170	1170	1170	1170	9435	9755	9995	10020	10180	9775	9645	9920	9470	9725	9680	5680	5150	5970	5500	1245	1215
7	1175	1175	1175	1175	1175	1175	1175	8505	9815	9515	10270	9680	1215	1195	1790	1170	1165	6960	10345	9255	1215	1195	1190	1185
8	1160	1160	1160	1160	1160	1160	1160	8820	9670	10180	9435	9985	7525	7045	4630	4630	10145	9620	9600	10365	7215	1245	1225	1215
9	1185	1180	1170	1170	1165	1165	1165	8310	9610	9670	9320	9435	9300	8005	5230	5230	9700	10105	9325	9420	3945	3885	1230	1205
10	1210	1210	1195	1195	1180	1180	1180	3620	8145	6520	7660	6930	6980	6480	7330	6630	6980	6105	6980	6980	6630	6630	6495	6980
11	1225	1200	1195	1195	1190	1185	1185	1185	1185	1185	4650	6235	6760	6395	6760	6900	6565	6565	7095	6615	7420	6430	6430	6760
12	1205	1205	1205	1205	1200	1190	1190	1190	1190	1190	4040	4080	3705	1185	1500	1185	5120	4955	4950	4695	4950	1185	1180	1175
13	1175	1175	1175	1175	1170	1160	1160	1160	8720	8455	8925	8385	8410	7990	8140	8630	8230	8100	9260	7560	5230	1230	1215	1205
14	1195	1190	1180	1175	1170	1170	1170	7880	8455	8405	7915	7955	8160	7995	8465	7955	9280	8020	9260	7280	8720	8060	5230	1230
15	1195	1180	1170	1170	1170	1170	1170	7535	8550	7705	8690	8165	7670	7785	8565	8075	8310	8570	7825	7950	7880	7825	1275	1250
16	1235	1230	1215	1200	1200	1195	1195	4620	8615	8155	8245	8320	7885	5410	1225	5190	8730	8290	8075	4775	1245	1235	1230	1225
17	1230	1230	1215	1205	1195	1190	1190	5050	8465	8085	8745	7830	8305	8495	8010	8495	7690	8430	7375	6520	5040	1255	1245	1220
18	1230	1230	1215	1215	1195	1195	1195	1195	2830	7575	8235	8960	8490	7875	8180	6500	6195	6935	6660	6630	6660	6660	6775	3170
19	1230	1215	1200	1195	1185	1185	1185	1185	4160	6365	7025	7025	7155	6180	5265	4700	6285	6285	6650	5930	5780	6285	6100	6285
20	7365	4750	5300	4725	5300	5300	5300	4750	5330	4840	5330	4775	7345	8380	8025	8025	8025	7950	8665	6715	6660	6225	6535	6535
21	6535	6535	6700	7395	5680	5680	6630	7255	6545	6285	8770	8680	8730	7165	6715	6225	7515	6745	6745	6635	7085	8875	8385	7905
22	9225	8585	8135	8615	8135	8405	7755	7145	7145	6595	6700	6595	6595	7145	6535	6635	9515	9515	9460	9540	10050	9540	10290	9700
23	9635	9635	9190	9385	9345	9300	9505	9670	9225	8785	9460	9875	9640	9005	10100	9610	9595	10100	10115	9610	9630	9645	10115	9645
24	1275	1275	1230	1205	1190	1190	1190	4890	9255	8230	8440	8880	8000	8765	8655	5515	1225	1210	6315	9825	9735	9255	9505	9485
25	10410	6540	7235	6880	7095	1195	1190	1190	1190	8315	7925	9090	8605	8080	8655	8205	8205	8230	8345	8205	8865	8205	1755	1220
26	1205	1205	1195	1185	1175	1175	1170	1165	9835	11225	11365	13155	15945	16350	15440	17295	18280	19345	17625	17180	18435	15520	16210	16350
27	18375	17695	17870	16180	15485	16085	18445	18425	21360	23815	25030	25200	24590	24790	23250	23790	25025	25575	25285	25460	25640	26890	26985	26935
28	27175	28235	29095	30055	30020	30575	30955	31470	30990	30265	30455	31215	30865	32730	32510	34075	33540	33110	33190	32585	31270	32635	31905	32160
29	31725	31725	32920	32350	32690	32690	32815	33025	32780	32535	33350	33640	31615	31615	31110	30560	27245	28455	28175	25480	25840	26940	26940	26940
30	27655	27655	27095	27105	27090	27285	25280	25270	24735	24370	24200	23510	25465	25115	25215	26465	26515	26465	26290	26355	26305	26300	26030	26030
31	25870	25740	26365	26335	25910	25885	25970	25145	23555	23865	23565	23055	25775	25350	24780	26265	26345	25855	24500	23785	24010	23890	23485	23405

Connecticut River Discharge
at Vernon Station, Vernon, Vermont
February 1986

Discharge, cfs

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	24290	24405	22660	22980	21840	20540	21700	21065	21105	21065	21885	21900	21105	21065	18565	18915	17920	17155	17640	18039	17280	16960	17010	17865
2	17575	17630	17930	16780	17405	16465	16580	17055	16095	16310	15360	16135	15900	15685	14575	14595	15345	14170	15110	14585	14740	14585	14585	14645
3	15040	15580	15180	14180	15265	15355	14105	15355	14855	15340	14645	14815	15340	14725	15355	14725	19590	17580	17540	17195	17990	18690	19395	19740
4	19795	18665	17605	17650	15950	15920	15310	13800	14560	14970	13320	13735	10155	11835	13870	1820	7160	9465	8765	10130	10245	9795	10155	10155
5	16120	10090	10585	10545	11035	11055	13190	13605	15090	15325	14760	14585	12245	12795	12995	9615	9395	9880	10245	9090	9630	9140	9175	9645
6	9960	9385	9855	10400	10530	10690	10365	9435	9740	9680	9680	9495	9680	9680	9855	9680	9595	9845	10090	9525	9675	9575	9685	10430
7	11280	10320	11050	11940	11295	10725	10630	10585	10630	10230	11215	10825	10785	10900	10360	11225	10395	10865	10395	10810	10485	10925	10945	10480
8	10975	11140	10960	10485	10010	11580	10590	10635	10710	10650	10715	10320	10850	10315	10535	10850	10360	11470	11055	10625	11055	11095	11055	11110
9	9205	10425	10305	10270	10265	10875	11020	9710	9805	9710	9755	9760	9225	9710	9765	9485	9760	9490	9760	9710	9755	10250	9760	9755
10	4635	5010	4775	5265	5355	5425	8490	7620	7670	7885	8145	8450	8305	7875	8210	8210	8245	8120	7670	8680	8600	8185	7715	8085
11	5230	4630	4600	4650	5125	5125	5835	8820	8890	9085	7885	8380	7935	7950	7950	7935	8380	7890	8305	7885	8305	7885	8060	8060
12	8245	8045	8385	8500	8120	8060	9010	8730	8225	8290	8185	7830	8245	8245	8515	7755	7830	8185	7945	7945	8815	8185	7825	7825
13	9390	7410	8000	8000	8650	8520	8130	8000	9150	8225	8060	7845	8280	8450	8280	8390	8305	8825	8135	8135	8080	8400	8080	8080
14	8685	8715	6145	1375	1195	1195	1195	1055	9725	10615	9460	10090	9175	9725	8060	8720	9690	9245	10180	9760	9840	9350	9840	9840
15	1255	1225	1215	1215	1175	1175	1175	9690	10915	9775	9875	9675	9595	9845	9795	9250	9775	9835	9405	9875	4550	4800	4945	4750
16	1215	1205	1195	1195	1190	1190	1185	1175	1170	10600	9715	10325	9680	9805	9865	9775	9735	10250	9900	9995	10265	9665	9690	9595
17	1235	1215	1195	1185	1175	1170	1170	10385	9730	9375	10555	8995	9775	10090	9525	9665	9235	10285	9960	9775	9970	9495	4910	5260
18	1300	1285	1230	1190	1180	1180	1180	9680	9400	10340	9985	9915	8575	10019	9595	9645	9645	10100	9595	9645	9140	9190	5330	1265
19	1230	1205	1195	1185	1185	1185	1185	9495	9550	9625	9525	9910	9175	9740	9680	9235	9725	9295	9680	9385	9875	9915	9630	9630
20	4980	1265	1235	1215	5360	5020	10825	9000	9840	9775	10130	9375	9100	10015	10065	9075	9140	9595	9645	9645	10100	9595	4980	4980
21	1255	1225	1215	1210	1205	9885	9505	9405	8930	9640	9335	10020	9015	9410	9580	9515	10155	9705	9565	9565	9600	9600	10120	9010
22	6530	7125	6960	6960	6890	6790	6775	6995	7255	6180	6535	6285	7505	6785	7355	6535	6535	6535	6535	1265	1265	1265	1265	1265
23	1235	1235	1225	1225	1215	1200	3720	5460	5080	5290	5415	4545	10475	10465	5420	5555	5555	9795	9370	9995	4790	5060	5060	1265
24	1225	1195	1185	1175	1170	1170	1170	5490	10050	9925	9335	9825	9530	10120	9725	4790	5100	11205	10250	10175	5195	4945	5195	5195
25	3445	1230	1220	1205	1195	1190	9835	9895	10070	8805	10070	10040	9610	9635	9645	10100	9090	9630	9645	10100	9155	9630	7625	3945
26	3485	3785	4080	4080	3750	3750	5460	10120	9740	9775	9915	9520	3890	4225	4825	4165	4165	9995	10350	9875	9695	7135	4115	2685
27	1650	1600	1575	1565	1560	1540	5595	9355	9460	9675	9725	9775	6225	4750	4700	5675	4045	10615	10835	10210	4800	3440	3425	1265
28	1190	1185	1175	1175	1170	1170	5290	9435	9795	9965	9460	7585	6135	7145	7265	6535	6535	10265	9990	9850	9595	5125	1285	1265

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Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	1225	1220	1205	1195	1195	1195	3750	9875	9425	10100	10400	9405	10110	9645	8810	9830	9880	9985	9945	10120	9830	10725	3825	1380
2	1265	1250	1225	1215	1205	1195	1190	1185	1185	5915	9825	9900	9525	9665	3960	3835	10260	9710	9580	9325	9960	10025	5005	1300
3	1230	1195	1185	1175	1170	1170	5780	9875	9850	10035	9595	10595	9775	6660	6135	7145	6490	7085	9595	9595	6745	4700	1215	1205
4	1185	1170	1165	1165	1160	1160	3850	9425	9735	9990	10675	9600	9595	9680	9330	9680	9835	9265	9835	9775	5180	1245	1205	1185
5	1180	1170	1170	1170	1160	1160	1160	9845	10150	9735	10580	9480	10535	5230	2430	2790	2770	10120	9680	1195	1175	1170	1160	4735
6	1965	1965	1965	1965	1935	1935	1935	10560	10040	10225	9735	9865	9900	2455	2830	2785	3345	9310	9085	10385	10435	9425	9815	9320
7	1230	1215	1205	1205	1185	1185	11305	10085	10705	9645	9595	9325	9325	5390	1265	1235	1230	1205	10385	9835	10345	9915	9400	9320
8	9840	1265	1245	1245	1220	1220	1220	1220	10395	10875	9570	10675	10275	1300	1230	1230	1230	9325	9775	9485	1275	1255	1235	1235
9	1225	1225	1210	1200	1195	1190	1190	1190	1175	1175	1175	2380	9665	2120	1200	1190	1190	1185	10995	10825	9460	9595	10190	9680
10	1230	1210	1195	1185	1180	1180	1180	10415	9815	10270	9685	9835	9875	9405	9645	10100	10100	9585	9225	9715	9805	1255	1250	1230
11	1225	1225	1215	1210	1205	1200	1200	10015	9830	10315	9645	9905	8720	6200	7065	6455	9105	9195	10100	8950	5095	4945	1405	1220
12	1205	1195	1190	1180	1175	1170	1170	9545	9980	9665	9680	9930	9405	9875	9930	9915	9460	9005	9570	9620	10000	8170	10015	5290
13	1230	1205	1195	1180	1170	1160	4940	10120	10365	9505	9965	9460	10210	10020	9510	9835	9265	9835	9775	9960	9680	9725	10020	9680
14	10285	9760	9595	10275	9600	10165	9525	11235	10950	10630	10305	10665	11190	11050	10415	10900	10350	10810	10870	10395	10700	11155	10680	10650
15	13320	13285	14790	20365	19740	20575	19595	19735	19110	19395	21040	22175	21255	19800	18295	18850	50105	20065	21190	21235	21285	21880	20590	20570
16	20630	20635	20625	20665	21195	21170	21555	21705	20860	21540	21050	21080	21050	21000	21695	20505	21105	18585	19110	19185	19110	18130	19110	18585
17	21960	21440	21115	21635	22815	23395	20385	20275	20840	22725	23090	22670	23090	20400	22560	21315	21440	20845	20830	20790	19555	18360	18360	19160
18	21115	21455	20845	20845	21755	22280	21720	21660	21125	21030	20560	20530	21080	21315	21550	21705	26435	24710	24090	24240	23635	23170	23265	22585
19	23320	22755	23380	22845	22325	22830	22235	22780	22065	22235	22845	22930	21095	20855	21340	26330	27205	27850	28325	28350	29885	29770	30525	30615
20	35910	35100	34985	38390	48570	53950	52725	52500	52500	52500	52500	52500	52500	52500	54910	55365	54955	55185	54955	54955	54955	54955	54955	54955
21	53775	54095	51410	49490	47170	48100	46675	47250	47030	47030	49675	51465	50670	49880	49880	48455	48665	48665	46545	46545	46545	46545	46545	46545
22	41805	41190	42370	42110	44935	39420	35365	34900	34900	40450	42730	44525	47940	48695	41695	41695	39185	36940	36940	34975	34975	34975	34975	34975
23	34655	34460	34460	32900	32900	32935	39695	39750	31215	30605	30605	30605	29995	29270	29270	29270	29170	29000	28370	28370	28115	28115	28115	28115
24	28115	28115	28115	28370	28115	28640	27120	26430	26645	26430	26430	26430	26400	26150	26645	27080	27515	27080	26485	26845	26620	26205	26000	26000
25	26000	26000	26170	26130	26170	26170	24355	24280	24290	24290	24245	24220	24220	24220	24975	24630	24630	24290	24400	23850	23580	23210	22940	22940
26	22770	22770	22770	22770	22855	22855	23010	22030	21660	21660	21660	21660	21660	21660	21660	21660	22205	22940	22940	23750	24020	24630	25660	26000
27	29945	30165	29945	29945	30165	30365	30365	31985	33195	33340	33495	33955	34575	34575	36050	36815	37035	38215	39020	39215	42925	44565	46525	48390
28	48990	48990	49210	49210	49425	49640	49210	49300	49470	49470	49470	49470	49675	49675	50460	50460	50850	50460	48025	48025	50025	49810	49810	49810
29	50725	50955	51180	51180	51410	51410	49675	49675	47880	47880	47880	49675	49675	49675	49675	49675	49675	49675	49675	49675	50065	50065	50420	50420
30	51020	51635	52035	52265	52665	53865	54100	53800	53640	53640	53640	55600	55420	55420	55420	55420	55420	55420	55600	55600	56605	57850	59090	59510
31	59930	60150	59950	60165	61020	60595	61245	61220	61650	64025	65175	65760	67500	67500	67675	67500	67500	67500	68195	68375	68375	68375	68375	68375

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Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	68375	68375	68375	68375	68375	68545	68545	67500	67500	67500	67850	67850	67850	67850	67325	66150	65800	65800	65800	65450	66105	66105	65365	65365
2	64970	64970	64185	63360	62735	62735	62735	62735	62735	62505	62735	62735	62735	62735	62735	63165	63595	63165	63165	63165	62935	62735	62735	62735
3	61220	60800	60165	59330	59360	58545	57915	57470	57470	57245	57020	56560	56790	57020	59085	58895	58485	57245	56835	56425	55600	55600	55185	55185
4	54785	54385	53410	51810	51410	51020	49855	49855	49855	49465	49465	49465	49465	49465	49470	49470	49470	49470	47665	47665	45860	45860	45860	45860
5	43300	42785	42785	43085	40520	41230	41230	41230	40965	40705	40225	40225	40225	40225	38390	38390	38570	38570	38570	38570	38570	38570	38570	38570
6	34710	34710	34710	34710	34710	34710	34845	34845	34710	34710	34710	34710	33500	33500	33195	33195	33195	33195	33175	33195	33195	33195	33195	33195
7	31375	30470	29670	29570	29410	29410	29410	29285	29025	28770	29025	29025	29410	29170	30370	31860	31680	31680	31680	31680	31680	31680	31680	31680
8	30770	30770	30365	30365	29965	29790	29570	29570	29345	28935	30270	30270	31110	31110	31430	32380	32700	32065	30425	27400	26000	26205	24180	23750
9	22755	21160	20285	20330	20610	20890	21725	21660	22480	23030	23305	24630	24825	24680	25215	25215	27180	26965	26060	26560	26560	26560	28425	28425
10	27735	27800	27800	28035	27450	27510	26055	26055	26055	26055	25850	25660	25470	25470	25470	25790	25790	25790	25290	25290	24830	24830	24545	24540
11	24180	24180	24290	22940	23030	23030	21725	21385	21325	20470	20425	20385	20895	21665	21605	21605	21605	21545	21545	21545	21490	21490	21490	21490
12	22470	22400	22540	22615	22690	22770	21795	21860	21860	21860	21860	21860	21000	21000	21470	21410	21410	21355	21355	21300	21245	21245	21245	21245
13	21245	21245	21300	21355	21410	21210	20425	20205	20245	20245	20245	20285	20285	20285	20285	20560	21385	22480	22940	22940	22615	23625	23780	23780
14	23780	23875	22615	22770	22940	21660	20330	18600	17590	17575	16220	14825	13060	13175	6595	6305	9200	9435	9875	9310	10810	10240	10550	10700
15	11115	10940	13470	13405	13295	15570	15735	13405	13900	12985	13520	13500	13370	10330	10865	11290	10810	13370	13005	13370	14035	13080	12945	13405
16	12840	13210	13200	12945	12140	12745	14935	13405	16055	15440	15520	15405	13300	13540	13125	12585	15535	15735	15665	15265	14820	15355	15585	15585
17	14445	14680	15355	15590	15650	15760	16055	15525	16220	15525	16040	15650	15525	16125	14615	14705	18200	18395	18225	15280	15740	15260	15730	15740
18	15000	15305	15305	15520	15245	15305	16720	15660	15515	14940	15160	16460	15735	14655	16780	15490	15415	15980	10700	15910	16060	15980	15595	15980
19	14800	15500	15025	15245	15910	16480	15490	16380	15785	15560	15450	15910	15560	15615	14125	13035	13930	14245	13125	13580	12935	13370	12935	14030
20	14350	13680	13265	12975	13425	13520	14055	13155	12960	14150	13105	13375	12990	11080	11475	10785	11495	10700	10975	10765	11100	11080	11040	11115
21	11135	10520	11030	11090	10450	10865	10765	11365	10875	10865	10765	10865	11265	11085	11265	11375	10385	11475	11375	10765	10975	11375	10725	10725
22	11105	10725	11210	11305	11150	11255	13030	13125	13030	13500	11205	10430	11080	11010	11080	11465	11465	11110	11580	10885	11205	10910	12815	13325
23	13825	13825	12815	13425	13215	13415	13825	12925	14285	12815	12530	10540	10540	10540	11125	11160	10920	10920	11430	11305	13700	13000	13005	13005
24	13665	13550	13540	13465	16060	16080	15860	17465	17775	18265	13390	12640	14010	13390	12890	12890	13390	13650	13390	12890	13900	12890	13270	13040
25	13715	12945	13605	12945	15670	16265	15860	12435	9950	12505	13390	12725	12995	12995	12710	12390	13025	13460	11050	10940	10840	10940	10840	10940
26	10710	10770	10860	10285	11460	10770	11815	11365	11575	11255	10970	11610	11105	11010	10980	10770	11460	11255	13555	12910	13555	13440	13535	12910
27	10540	10540		10840	11050	11550	10885	10785	11180	10325	11380	10705	10785	11300	11275	10705	11380	11300	10785	10905	11180	10890	10720	11255
28	10800	10935	11180	10890	11180	10905	11100	11300	11280	11060	11085	11450	11235	11130	11185	11035	11230	11035	11160	11230	11035	11160	13465	13465
29	12935	13500	10630	10705	11695	11100	10705	10875	10950	11475	11205	11195	10950	10950	11100	11225	10705	11100	10830	11100	10725	10735	10630	10630
30	13540	13690	12965	13030	10860	10940	11970	10255	10380	9180	9910	10440	9430	9410	9430	10560	9410	10040	9810	9475	10060	9910	10060	9810

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Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	6400	6040	6345	6820	6725	6740	7655	10715	5700	9285	10385	9500	10110	9985	9625	9675	10665	10680	10165	10190	10265	9570	10035	10595
2	9690	9750	9690	9985	10250	10595	10385	9805	9195	10180	9670	9915	10180	9760	9370	10180	9915	9710	10265	10805	8830	10265	9790	9680
3	9845	9650	6725	6725	4370	4370	9995	10165	10105	9225	9730	9605	10225	9605	10215	9240	10185	9725	9730	10105	10805	9610	9225	10105
4	10185	10355	10225	10185	1960	1960	2105	8300	7450	9140	10100	9545	10165	10180	10120	9590	9670	10320	9545	9670	9670	10040	10120	5895
5	5465	6040	5210	5210	1985	1985	6555	10040	9665	9820	9280	9680	9700	9710	10620	9670	9560	8585	6450	6450	10385	9910	4765	2915
6	1540	1500	1695	1695	1475	1470	4220	10305	9860	9950	9910	9645	9970	9440	9280	9670	10410	9800	9785	9670	9320	9670	9670	5030
7	1205	1195	1185	1175	1170	1170	6535	9475	10165	10165	9725	9370	9670	9700	9625	9400	9615	9735	9755	9835	9275	9845	9485	9485
8	1215	1195	1185	1170	1165	1160	1160	11130	11145	10050	10160	10245	9545	10040	10000	10035	9605	9650	10535	9455	10455	9605	9605	9230
9	11455	10105	10465	4545	3980	4925	4925	9420	9975	9485	10050	10665	10145	10170	9545	9855	9280	9980	11375	11375	10535	11025	11160	11040
10	10860	11150	11025	10535	11150	11130	11620	11130	11025	11725	11145	11130	13750	13145	13235	13425	13825	13215	13325	13215	13425	13280	13215	13825
11	12970	13405	14045	13045	10845	10430	11375	11265	10920	10865	11265	10875	10765	10365	11070	10365	10765	10765	11475	11375	10765	10810	11265	11265
12	11335	10115	11180	11295	11290	11180	11515	10960	10065	9675	9735	9355	9735	9375	10435	9525	9860	9920	9320	9840	9400	9815	9815	9815
13	1200	1180	1170	1165	1165	1165	1165	10935	10835	10315	9730	10305	9325	9815	9680	9950	9690	9640	9815	10315	9815	9690	9690	9690
14	1195	1190	1185	1180	1180	1080	4950	10590	9650	10465	9755	9255	10685	9035	10065	10090	10100	9995	9595	9460	10020	10065	9995	9995
15	1205	1200	1190	1185	1185	1185	5695	10445	9430	10145	10705	9185	5230	4675	5845	4625	5775	5125	5125	5775	10585	1520	1515	1505
16	1480	1475	1170	1170	1170	1170	5080	4520	10105	10255	9400	10720	9815	9345	10460	9320	9955	9425	9815	9815	10020	10115	4120	1230
17	1220	1220	1205	1195	1190	1190	1190	1190	4950	4950	5080	5710	1195	1190	1190	1190	1190	1190	1190	4990	5440	5440	1190	1185
18	1195	1185	1175	1175	1170	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	3920	5290	5330	5330	4490	4925
19	5375	5395	1180	1170	1170	1170	1170	10590	9770	9940	10505	9880	10065	9880	9670	9670	10305	9790	10265	9200	5165	5815	1195	1195
20	1190	1185	1175	1170	1165	1160	1155	4805	10165	10595	9805	10155	9850	9805	10430	9425	10305	9350	10425	9805	9295	9775	4105	2485
21	2465	2440	2610	2585	2415	4310	7095	10505	9970	10075	10185	9455	9620	9955	9955	9935	9955	9075	10065	10215	9800	9400	9930	9800
22	6585	6460	6945	6460	6945	9900	10645	9725	9690	8700	9250	9510	9510	9940	9975	9975	9975	9840	10355	10035	9965	9900	9840	9900
23	9580	9605	9525	10590	9660	10180	10115	10875	9755	10660	10810	11555	10880	11295	13655	18500	17535	17550	20740	25615	26415	25990	28170	28385
24	23635	23735	23655	24340	25975	25925	26215	23870	23810	24320	23210	23795	23210	24320	23845	23805	23770	26115	26650	25505	26200	26035	25490	25580
25	25615	25575	25565	26095	26825	25660	26620	26805	26095	25565	26190	26195	26085	25660	26725	25560	26275	25560	26115	25560	26115	26270	23355	23910
26	22330	23285	23350	23280	21695	21695	23085	21445	19485	19840	19355	19835	19690	19600	17845	17290	18500	17755	18450	17690	15900	15975	15725	15220
27	15905	15450	15475	15010	15010	15010	15930	13925	10545	9960	10850	10225	10155	10630	10910	11465	11475	12560	10880	10880	11450	13355	11110	11110
28	13750	13565	14075	13465	14075	14175	13035	13415	13415	13915	14125	13525	10910	10895	11980	11555	11460	11305	11045	11305	11505	11305	11155	11060
29	10685	11305	10950	11685	11305	10850	11305	11505	10925	9880	9805	9970	9805	10385	9850	10505	10035	9655	9900	9805	10155	9440	9670	9760
30	10485	9945	4650	4060	5070	4460	4460	10860	10085	9870	9900	10260	10050	9600	9710	6195	7150	2660	2660	2660	10495	10060	5920	5920
31	1320	1310	1295	1295	1290	1290	1290	1425	9175	6490	6675	7035	6565	7820	7370	7590	7425	7225	6645	10645	9495	9495	7145	7145

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Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	6430	6750	6560	6390	1275	1275	1275	1410	1410	10495	9870	10565	10675	9455	10055	9430	10100	10100	10100	9735	9455	9455	9530	5125
2	5265	1265	1245	1245	4155	9570	9345	9190	9065	9240	9125	9815	9175	8685	8810	9310	9365	9330	9245	9945	8770	8655	8880	8880
3	10005	10570	8825	8825	8550	9180	12035	13345	14800	17400	16930	12890	12345	10225	9320	10350	9605	9675	9185	9065	8930	9480	8810	8810
4	9300	9375	9975	9975	9325	9195	10035	9510	10100	8860	9580	10180	10420	10415	10555	10185	10050	10170	10690	10235	10160	10040	10280	10280
5	10370	10040	10245	10045	10280	10040	9870	9170	9490	10325	9115	9535	10395	9285	9825	9120	9210	8790	9445	9445	9195	9390	9255	9645
6	6990	5385	5620	5705	5680	5655	6985	10050	9855	9135	9980	9370	9550	10115	9550	9555	9115	9115	10190	9535	8980	9975	9505	1285
7	1270	1250	1235	1230	1225	1225	1355	1355	9820	10480	9375	9310	10600	8970	5815	6255	5980	5980	5980	5980	5845	5845	5845	5845
8	4105	3685	4355	4355	3685	4110	4210	4245	5070	5530	4400	5005	5160	5075	1370	1360	1965	1355	1355	1350	5610	5225	1215	1210
9	1205	1205	1205	1205	1200	1200	1335	4970	9700	10010	9465	10020	9820	9650	9740	9265	9840	9760	9990	9990	10395	5020	1245	1240
10	1225	1225	1215	1215	1210	1205	1205	4820	9495	9850	9680	10430	8830	9955	9220	9385	9375	9990	10065	10045	9295	7860	3795	3795
11	1270	1260	1250	1235	1230	1225	1225	5250	4760	7420	10205	9625	10040	10040	9845	9905	9220	9405	9925	9370	9785	9230	6900	5145
12	1250	1235	1125	1215	1215	1205	7455	10585	10105	9625	10490	9650	10310	9740	10170	10375	11085	9735	10545	9800	12545	16455	23150	21835
13	20455	19995	21675	21125	21555	21555	19390	19280	19005	17160	15035	15185	14390	14510	14445	14745	14815	15620	16980	16815	17990	20330	21840	21875
14	18500	18990	18995	19460	17055	17015	16215	17025	12415	11675	12705	12210	15095	15095	15305	14805	12250	10115	10640	9560	9730	9730	9855	9925
15	10275	10355	9795	10280	10270	10280	10035	9965	10215	10185	10310	10965	10310	9650	10890	10310	10300	9650	10175	10420	10380	9870	10205	9600
16	4090	8990	4080	3945	3760	3560	8145	9515	9625	10295	9770	9170	9830	9710	9170	9770	9820	9220	9685	9085	9415	9350	3685	1565
17	1235	1215	1205	1200	1190	1190	8695	9890	10475	13335	13520	12555	13105	13100	12555	12555	12690	13335	12735	12735	13335	12690	12735	12735
18	11545	12440	12295	13055	12105	13475	11030	9945	10475	10360	10865	10360	10305	10360	9990	10865	10815	12735	12720	13235	12845	12890	12720	12735
19	10170	10405	9675	10030	9675	11120	10100	10160	8160	8390	8555	8140	9940	9940	9370	10010	9495	9495	9360	9360	9350	9420	9360	9360
20	6295	6680	6340	7675	6295	7235	7100	9120	10645	10150	10235	13100	12555	13105	12640	13115	12820	13420	12170	13470	12310	12915	12915	12915
21	12985	12375	9650	11550	10310	10960	10770	10575	10505	10570	10025	10575	10575	10580	10570	10505	10660	10465	10460	9940	10475	10010	10540	9430
22	10265	10300	9710	10200	10220	10310	9695	9740	9770	9770	9885	9820	9820	5530	5025	5395	5435	5435	5030	5400	9625	9740	9110	1380
23	1660	1360	1360	1360	1360	1360	1345	9680	10760	10280	9830	9760	9885	9880	10460	9250	9920	5430	1385	1375	1370	1360	1350	1350
24	1350	1350	1350	1350	1350	1350	1350	9560	9930	9560	10105	9695	10310	9740	9820	9935	9845	9855	9990	9895	9785	9235	9235	5145
25	1260	1250	1260	1260	1230	1230	1230	6260	10205	9720	9355	10560	9220	10015	9250	9920	9445	9425	9625	10045	9345	1270	1270	1260
26	1250	1240	1235	1235	1230	1230	1230	5350	10040	8830	10200	9920	9320	9250	10175	9425	9495	5325	5280	5280	1260	1260	1250	1245
27	1245	1245	1245	1245	1245	1245	1245	5260	7950	9250	10605	9495	9490	10170	9690	9500	9190	5500	5295	5265	5265	5275	4895	4895
28	1290	1275	1270	1270	1260	1255	1255	1255	1390	1390	1385	1385	1385	1385	1380	1375	1375	1235	1235	1235	1235	1235	1235	1235
29	1235	1235	1235	1235	1225	1225	1215	1215	1340	1340	1340	1340	1340	1340	5495	5010	5530	5020	5095	5525	5115	5150	4840	5180
30	1235	1235	1230	1230	1225	1225	1225	5560	4750	5135	9990	9060	9820	9740	9525	9770	4755	5085	5440	4970	4935	4935	1260	1255

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Discharge, cfs

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	1240	1235	1230	1230	1225	1215	1215	4985	4930	9015	9920	9280	9575	9550	9990	9855	9855	5190	5760	5145	5680	5100	5605	5055
2	5690	5680	5100	5680	5700	8995	9220	9765	9055	9885	10105	10190	9765	10185	9955	9520	6650	1355	1330	1300	1295	1290	1280	1270
3	1265	1260	1250	1250	1245	1245	1235	1235	8985	9680	9350	10545	10290	10385	10315	9625	9835	8515	5215	6365	6100	5595	5920	5920
4	6045	5890	5890	5890	6835	6820	7135	6520	6205	6205	10325	10285	10140	10105	4460	5150	5030	4385	4690	4665	5130	4640	1270	1260
5	1260	1260	1260	1255	1245	1240	1235	1235	1225	1225	4875	4795	4795	4840	4840	4875	4795	5315	2985	1225	1225	1225	1225	1225
6	1225	1225	1225	1225	1220	1215	1205	1205	1205	1205	1205	4315	4370	4370	4370	4405	4420	4430	4750	4430	4430	4740	1215	1215
7	3865	5525	5070	5495	6600	6675	6965	7100	9095	8805	9295	9435	9470	9000	9470	9115	9110	9865	9490	9415	9480	7045	5355	4935
8	5090	4990	4905	4905	5300	5300	5300	9575	9110	9110	9185	9205	9785	8750	10760	10140	9915	9845	10175	9770	9725	9150	7790	7790
9	1225	1215	1200	1185	1165	1160	9550	9040	9180	9040	9115	8660	9180	8635	9140	3580	1175	1175	1175	1175	1165	1165	1165	1165
10	1160	1160	1155	1155	1150	1150	1140	1140	1140	4325	9740	8165	8440	8975	8460	5160	5200	5200	5200	4790	1175	1175	1175	1175
11	1170	1170	1170	1170	1165	1165	1150	1150	1150	4635	9830	9440	9045	9045	5265	5045	5285	1175	1175	1175	1170	1170	1170	1170
12	1170	1170	1165	1165	1165	1165	1160	1150	1150	1150	1150	5030	5030	5030	4975	4730	5050	5050	4730	5070	4175	4760	5650	4760
13	1165	1165	1165	1165	1160	1150	1145	1145	4215	4510	4160	11035	10655	10710	9600	9600	10890	10690	10215	4905	10820	10085	6315	6315
14	6120	6120	6120	6160	3855	3855	3405	3660	3865	3865	8910	8920	10275	9185	8680	9185	9260	9310	8875	9350	8940	9425	8805	8805
15	5710	1195	1185	1185	1175	1170	1160	4325	4325	3825	9665	9800	8980	9800	8765	5320	5725	5285	9310	9310	9350	8800	8745	8745
16	9485	3630	3660	3660	4290	4290	3605	3970	9595	9340	9925	8600	9250	9505	8860	8505	9475	9475	8985	9115	9475	8865	4765	4765
17	5395	5395	1205	1205	1170	1165	1165	9040	9830	9185	9310	9315	9415	9415	9610	8605	9170	9145	9205	8685	8915	4675	4700	4700
18	1585	1565	1200	1200	1185	1170	1170	9185	10105	9560	9155	8535	8585	9085	8825	8295	8930	9360	1190	1190	1195	1195	1195	1195
19	1195	1195	1195	1195	1190	1175	1165	1165	1160	1160	1160	1160	1160	1160	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165
20	1165	1165	1165	1165	1160	1150	1150	1150	1150	1150	9545	9185	9785	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165	1165
21	1160	1155	1150	1150	1145	1140	1140	1140	5005	4675	8985	9045	9695	9245	8550	10650	1175	1165	1165	1165	1165	1165	1165	1165
22	1160	1160	1150	1150	1145	1140	1140	1135	4955	5205	5205	4685	5035	5035	5225	5035	5085	4715	5085	5035	1170	1170	1170	1170
23	1170	1170	1170	1170	1160	1160	1155	1150	1150	1150	3705	7755	9040	9595	9225	9295	9320	8780	4905	1190	1190	1185	1185	1185
24	1190	1195	1185	1185	1160	1150	1155	1150	1150	1145	1145	5185	4715	9045	9765	9265	9295	1185	1180	1185	1185	1185	1185	1185
25	1185	1185	1175	1170	1160	1155	1155	1160	1160	1160	1160	5050	4730	5070	4730	5070	4775	4730	5115	4730	4730	1185	1185	1185
26	1185	1185	1175	1170	1165	1160	1155	1150	1150	1150	1150	1150	1155	1160	1160	1160	1170	1170	1175	1175	1175	1175	1175	1175
27	1175	1175	1170	1170	1165	1165	1150	4070	4955	4640	4975	4730	4995	4675	4995	4995	4945	4685	5035	5070	9875	10560	10050	10050
28	1185	1185	1170	1165	1155	1150	1140	1140	7080	9190	9295	9445	9910	9535	9535	8530	10110	9820	9325	7590	7820	7150	6810	7955
29	1210	1195	1180	1170	1160	1150	5030	5050	9835	9905	9415	10030	9495	8970	9110	8630	10280	10280	8680	8785	8445	9475	8435	9290
30	10545	10415	10620	12995	12400	12370	12995	12295	12275	10825	10100	10650	10030	12765	13310	12860	15270	14690	18115	17310	21385	25475	27880	27615
31	23680	25355	25170	25175	25285	23375	21770	16945	16595	11890	12270	12270	12115	12060	12400	15120	14660	14590	15350	15235	14590	14820	14590	14340

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Discharge, cfs

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	19445	18285	17615	17125	17720	17350	16990	12350	13450	10095	10655	10230	10095	10230	10020	9590	10275	10385	10260	10385	10260	10385	10260	10300
2	9845	9590	10125	10700	10125	10805	9675	10590	10040	10690	10580	10265	10100	9570	10260	9185	9770	9640	9695	9700	9760	9695	9695	9105
3	10280	10230	10095	11315	12465	17350	17465	17965	17465	17455	14859	14859	12351	12551	12350	12930	9900	10260	9620	9855	9050	9720	9375	9550
4	12970	15310	14965	15435	14840	14915	12845	13450	10390	10465	10310	10465	10030	9515	10230	10655	10095	9845	10235	10195	9705	10580	10045	10045
5	10020	10135	9990	9700	10260	10260	10575	11105	10475	10575	10250	9590	10260	10260	9110	9380	9790	9175	9430	9245	9720	9310	9295	9295
6	1200	1185	1170	1170	1165	1165	1165	8640	9620	9790	9170	9170	9565	9410	9420	8650	8990	8710	9110	8790	8670	9580	9010	9010
7	8325	1230	1215	1205	1195	1195	9655	9225	9015	9090	9675	8225	9260	8840	8910	9495	9935	8960	8890	8910	9495	9085	9085	9075
8	9300	9300	8895	9310	9165	9025	9785	8600	9415	9970	9355	9280	8790	9940	9415	8830	9335	8915	9355	9905	9790	12250	12870	15450
9	17065	17535	17040	17775	16650	17415	17245	17680	17255	17090	17545	14450	12765	10385	9775	9705	10260	10285	9900	10275	12780	12200	12540	15120
10	15000	15395	14920	14435	14950	14860	12015	10260	10835	9105	9560	9630	9570	9295	9030	9620	9630	9105	9570	10230	10590	10165	9515	10690
11	12830	12300	14735	14930	14995	14995	15160	14845	12200	12590	9500	9170	10220	10080	10685	10000	13600	16020	16715	16130	16375	16505	16505	16400
12	14625	14445	16000	15300	15330	15075	16005	13400	13315	13310	10965	11135	10520	10910	10795	10270	10795	10795	10795	10735	10685	10745	10795	10795
13	11375	11730	10330	10995	11020	11020	11450	11190	10710	10170	11680	11185	10850	10835	9640	10250	10085	10085	9800	9735	10270	3030	5295	8690
14	9710	10170	9885	9815	10150	10345	10285	11510	9800	9730	9915	10280	10425	10115	9910	9975	9660	10125	9950	10330	9770	10410	9770	10440
15	5595	4745	4630	4630	4600	4600	5125	10185	9860	9460	10680	4800	4725	10005	4500	4750	4750	4830	4725	5300	5265	4700	5230	4675
16	4745	4675	4675	1205	1215	1200	1195	1185	1185	4840	4905	9785	9895	9850	10820	9910	9920	10040	9790	5230	5165	5165	1230	1230
17	1220	1210	1210	1210	1195	1185	1170	1170	1165	1165	1160	1160	5110	5160	4760	4760	4760	4980	4760	4760	10125	4790	5200	4790
18	5200	4790	5200	4790	5160	4760	4980	4940	4760	9975	10485	9365	9790	9850	10600	10150	10200	10170	10335	9745	9750	4725	1220	1210
19	1200	1190	1175	1170	1165	1160	1160	1160	4770	9730	9730	10405	10990	9450	9910	10715	9505	10060	10910	9235	9415	9770	9990	9425
20	1250	1230	1220	1210	1195	1195	1180	9930	10550	9970	9850	9895	9435	9020	9710	9415	10495	10080	7855	4650	4775	4750	4830	5330
21	1225	1220	1205	1195	1185	1180	1170	1170	5000	9685	10280	9910	9985	10005	10280	9815	9770	9615	6400	1265	1255	1235	1230	1225
22	1200	1190	1165	1165	1155	1155	1155	1155	3880	5650	6680	8590	9370	9720	9845	7665	6785	3685	1875	1875	3705	1210	1205	1205
23	1190	1190	1180	1170	1160	1160	1150	1150	1150	3825	6460	8430	5200	3925	3620	3540	3925	3880	3925	3925	3925	1480	1165	1160
24	1160	1160	1160	1160	1150	1150	1140	1140	1140	4305	4605	6230	7660	6120	3925	3795	3450	3440	3440	3470	7610	6325	2365	1165
25	1150	1135	1135	1135	1135	1135	1135	4965	6305	9675	9450	8885	9640	9360	9770	10205	10215	9730	10035	6915	5330	5560	4500	2440
26	1195	1190	1170	1165	1155	1150	1150	7550	7270	7240	7730	7340	7260	7750	7485	7480	8040	7070	7770	7635	8300	7635	7770	7635
27	6840	7385	7160	8940	7570	8250	7635	8165	8165	8165	7770	7620	7745	7620	7960	7745	7960	7620	7795	7795	8015	7450	7670	7670
28	7580	7580	7470	6875	6820	7245	7370	7030	7535	7180	7180	7660	7030	9450	10700	10885	9975	9585	9560	11660	10040	10255	10215	10215
29	8610	9435	10215	9920	9770	9550	9840	10500	9495	9915	9985	9545	10430	10485	10640	11245	10930	9790	7515	7085	7430	7435	7630	7630
30	2395	2380	2665	2615	2590	2565	2730	2690	2690	6710	7185	9390	9170	6785	1205	1205	9865	8810	9225	9850	9415	9910	9290	9290
31	6265	1210	1195	1180	1175	1175	1175	1175	3815	9620	10005	10110	9450	9035	4010	1170	1165	1165	1165	9295	9205	9560	1180	1170

Connecticut River Discharge
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Discharge, cfs

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	1165	1160	1160	1160	1150	1150	1150	1150	11255	11395	10775	9900	5290	1165	1160	1150	1150	1140	1140	1140	1145	1150	1155	1150
2	1150	1150	1140	1135	1135	1130	1130	1130	1130	13465	11920	10555	10615	11080	11185	11185	4905	4870	4870	4870	4870	4870	4870	1180
3	1180	1180	1180	1170	1165	1160	1160	4730	5625	4730	10905	10290	9885	10285	9860	9910	10570	10600	4625	5150	5150	5150	1205	1195
4	1195	1195	1185	1180	1170	1170	1165	5200	4840	5250	9615	10410	9840	11045	9445	10035	9535	4625	5080	5190	5080	4560	5080	5190
5	1195	1190	1180	1170	1170	1165	1165	5120	4440	5250	10275	9790	11260	10015	9780	9790	4395	4725	6025	1230	1215	1205	1195	1195
6	1180	1170	1170	1170	1170	1165	1160	1160	1160	5350	4870	9325	10650	9530	10060	10040	10380	9815	10430	9285	9330	4725	1245	1230
7	1215	1205	1195	1185	1170	1165	1160	1160	4800	4805	9415	9995	9855	9730	6120	1180	1170	1165	10220	10270	10285	9730	1220	1210
8	1185	1165	1155	1150	1150	1150	1150	5245	4760	5120	9195	8860	9335	8540	10240	8805	5080	4900	4870	1170	1160	1155	1150	1150
9	1150	1150	1150	1150	1150	1150	1150	4505	4470	4800	11385	10445	10800	10570	9660	10100	10025	8695	2530	2830	5540	1195	1185	1165
10	1165	1165	1165	1165	1165	1165	1150	5145	5780	5190	9580	9480	10175	9545	5710	3620	4040	4040	2105	3240	2710	1175	1170	1170
11	1170	1170	1165	1160	1160	1160	1150	1150	3905	3925	3925	10455	9485	10100	10100	10100	9115	6785	5265	7420	5980	1560	1205	1205
12	1205	1205	1195	1190	1190	1190	1190	5395	4990	4990	9290	8470	8305	6880	6325	5785	4835	4575	3300	2715	4990	1195	1195	1195
13	1195	1195	1195	1195	1185	1175	1170	1170	1170	4480	3600	5995	6610	6130	6395	5860	6095	6095	5910	6260	6235	1190	1190	1190
14	1190	1190	1180	1170	1165	1165	1155	1155	1155	1155	2405	2405	2405	2405	1155	1155	1150	1150	1150	3330	3425	3350	1150	1150
15	1150	2305	2315	2315	2315	2315	2300	2300	2300	4730	8990	9035	4790	5200	3865	4015	2685	2835	2835	2835	2685	1460	1160	1160
16	1160	1160	1155	1150	1150	1150	1140	1140	3800	3450	9295	8890	9440	8040	9360	9170	9085	9890	9540	9240	9105	4905	4905	4905
17	5375	1185	1170	1160	1160	1155	1155	5360	8945	10765	9725	9860	9975	9715	9735	10635	9255	6170	6170	9140	4485	6445	1225	1220
18	1215	1205	1195	1185	1180	1175	1175	1175	4955	9425	10100	9150	10225	10225	9255	9485	5150	5150	4955	5150	5150	1195	1190	1185
19	1190	1185	1180	1175	1175	1175	1175	1175	5465	10165	9825	9320	9435	9900	9575	10110	9830	9325	1265	1250	1250	1235	1220	1215
20	1210	1205	1185	1185	1175	1170	1170	1170	5250	4910	4955	4510	4950	5460	4950	5460	3255	3645	5395	4950	4950	1185	1175	1170
21	1175	1175	1170	1165	1165	1160	1160	1160	1160	1160	8955	9655	9800	9850	9835	4805	5170	8710	9185	9960	9170	5080	1185	1170
22	1180	1170	1150	1150	1150	1150	1150	4125	9745	9915	10520	10030	9420	9040	9975	9635	10165	10185	9700	9200	4725	1195	1185	1185
23	1185	1175	1170	1170	1170	1170	1170	4620	9850	10035	9480	9535	9735	9545	9195	9690	9195	9225	9200	9365	9320	9480	9555	9555
24	1245	1220	1200	1190	1185	1170	1170	5770	9335	8160	10665	8815	10085	9570	9095	10305	9740	9845	9355	9845	9815	9555	9840	9320
25	9455	5390	1225	1215	1200	1190	3920	4905	9535	10295	9255	9815	9470	10065	9525	9810	9595	10180	9645	9175	9955	9775	9575	9575
26	8990	9570	9570	9545	4905	4995	4800	5155	5155	1270	1270	1255	3170	5450	4980	9840	9580	6170	6730	9840	9245	9645	8915	8915
27	1270	1250	1235	1230	1220	1205	1205	1205	1195	1195	1195	1195	1190	7500	7790	5490	5795	5470	5855	9920	5695	4980	5395	1185
28	1180	1180	1175	1170	1170	1165	1160	1160	1160	4580	4435	5110	5330	5290	4870	4910	4910	6320	6760	8040	8825	8160	1475	1160
29	1155	1155	1150	1150	1150	1150	4705	6830	6410	7840	7355	7625	9370	9415	8885	8520	8435	9475	8610	8975	4410	3360	1200	1195
30	1185	1175	1170	1165	1160	1160	2455	5425	7575	8960	8120	8795	8730	9915	9385	9760	9650	9365	9870	9290	9910	9845	4655	1220

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Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	1205	1195	1185	1175	1160	1155	3925	7120	9770	8725	8980	9520	8785	8710	8435	10085	9070	9340	9605	8535	8725	9230	9230	8635
2	1215	1195	1190	1180	1170	1165	4160	9390	9375	9915	10105	9725	9595	10160	9140	9170	10225	9350	9245	10605	8875	9300	9300	9465
3	5235	5235	4620	5250	5125	4990	4950	9970	10175	10175	9160	10160	9110	9135	10105	10240	9790	10860	9915	9620	10470	10170	10290	10320
4	7685	7685	6955	7465	7315	7315	7315	11140	10835	10615	11275	11215	11275	10345	11275	10470	10200	11335	10945	10945	10360	10175	10345	10200
5	10975	10595	10845	10780	11315	11790	10050	10210	10115	9855	10115	10050	9835	9605	9950	10085	10615	10535	11510	10345	10325	9860	10855	10340
6	10715	10325	10815	11070	10740	10485	10680	9800	10630	9190	8650	9275	9365	10515	10230	9840	9975	10870	11280	10765	11290	10770	11025	11035
7	10495	10765	9855	11305	10325	11060	10085	9980	10820	9920	10865	10645	10380	11320	10635	11035	10845	11450	10650	10715	11455	10715	10850	11370
8	10830	4480	4840	5115	4730	5115	4655	9910	9600	9995	9930	10560	10515	10560	10560	9180	9740	10975	10990	10530	11140	11275	11080	11140
9	7440	8330	7660	7270	7270	8160	10635	10650	10845	10540	9980	9945	8795	9175	9520	9845	9915	10370	11480	10410	10670	10570	7620	5920
10	2730	3315	3255	3220	3200	3165	9135	10535	11140	11325	10400	10340	10405	8115	9145	10250	9620	10295	10300	10235	9685	10400	10340	10400
11	6610	7190	7190	6610	6665	6665	6510	9980	9975	9650	10225	9645	9730	9645	5080	5615	4990	9170	9780	9480	9230	9280	3650	4100
12	1175	1165	1160	1160	1160	1160	1160	1160	3515	5990	9680	9655	9110	9855	9245	8700	9780	9780	9295	9295	9225	3600	1165	1165
13	1155	1155	1150	1150	1150	1150	1150	6490	5770	6180	9320	10335	9495	9475	9980	9480	10030	9980	9480	9555	9655	10100	7980	7980
14	1175	1160	1160	1160	1160	1160	10685	9535	10120	10345	9455	9500	10055	10065	10100	9590	9790	10100	10135	9590	10100	10100	9900	9900
15	1400	1390	1375	1370	1365	1365	9445	11275	9515	9995	9870	9985	10380	9440	10545	9455	9740	10195	10085	10180	10060	9525	9605	9605
16	10030	7580	10405	10425	8035	5755	9345	9445	9075	9210	8810	9230	9245	9230	9205	9245	5100	5435	4815	4790	1285	1275	1260	1260
17	1250	1250	1250	1250	3705	5020	5055	9935	10265	9800	9445	10040	9995	9925	9510	9925	6035	6290	9745	9805	1315	1295	1285	1280
18	1270	1265	1265	1265	1265	1260	1260	1260	7385	9670	9190	9365	9880	6315	6490	6135	5760	5665	5325	9015	9890	9785	9240	1295
19	1295	1295	1285	1275	1265	1260	1245	1245	1380	1380	5405	5410	1375	1340	1370	1370	1235	1235	1235	1235	1235	1230	1215	1210
20	1210	1210	1210	1210	1210	1210	1210	5245	9865	10075	10180	10110	10500	10180	1370	1360	1355	5315	9305	10545	1235	1230	1230	1230
21	1230	1230	1225	1225	1220	1215	1215	4770	9820	10740	10045	10115	10585	10045	9665	10115	9980	9530	10045	10030	9610	5215	1270	1235
22	1235	1235	1235	1235	1225	1215	1215	4885	8990	9940	10195	10075	10015	10075	9475	10675	9535	10005	10015	9945	9475	4935	4505	1235
23	1225	1225	1225	1225	1215	1210	1210	4730	4930	9820	10540	10505	10585	10115	10245	9630	9915	9495	9495	9565	10045	9370	2860	1180
24	1175	1170	1170	1165	1160	1160	1160	4715	9935	9400	5615	6585	9475	9235	5080	4830	4845	10790	10405	9925	9295	8315	4950	4510
25	1200	1195	1190	1185	1180	1175	1175	4480	4805	10030	10060	10035	4555	4840	5285	4840	5285	4840	9840	9350	9225	8905	4765	4740
26	1195	1180	1165	1165	1160	1160	1160	1160	5115	4760	9540	9510	9280	9145	4870	4875	9535	9685	9155	9620	9095	4490	4870	4460
27	4790	1165	1155	1150	1145	1145	1145	9760	9460	9445	9780	9845	8295	8290	8420	9205	8260	8435	8165	8120	8795	8120	8165	8120
28	1160	1150	1150	1145	1140	1140	1140	7850	7885	7870	7960	8060	7960	7880	7420	7420	7605	7655	7930	8070	7980	7980	7980	7980
29	3880	1160	1150	1150	1150	1150	1150	8070	8105	8070	7605	7555	7555	8145	7875	7885	7615	7630	9180	8555	9110	8770	9110	8840
30	4235	1185	1170	1170	1165	1165	4255	4255	7610	8205	7705	7710	7640	7640	7975	7705	7985	7975	7750	7750	5735	5690	5655	1190
31	1205	1205	1195	1195	1195	1195	1195	4670	7185	7820	7210	7750	7820	7855	9040	8170	10360	10510	11160	11250	10720	10660	7490	4675

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Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	1250	1230	1225	1225	1215	1205	1195	1195	5540	10170	10270	10215	10380	4715	5165	4630	5165	10125	10305	4770	4655	1220	1205	1200
2	1195	1195	1185	1185	1175	1170	1165	1165	4570	4870	4905	5395	4925	5395	4490	4905	10345	10345	10490	10030	10410	4625	4575	1205
3	1170	1160	1160	1160	1160	1160	1160	5035	7465	6870	7105	6930	8025	1175	1155	5060	7470	7535	7410	7535	7520	2055	1160	1150
4	1150	1150	1145	1140	1140	1140	1140	4365	7880	8530	7410	8040	8655	7410	8025	8025	8040	7940	7960	7950	7330	7880	7300	7300
5	1155	1140	1135	1135	1135	1135	1135	5090	8950	9660	8890	8235	8250	7750	7820	8880	9695	9630	9570	10170	9685	9620	9680	9620
6	1185	1170	1165	1160	1160	1160	1160	4335	9420	10320	10410	10345	9805	9320	10345	9685	10420	9685	10345	9745	9820	10285	9805	9805
7	4480	4870	1185	1180	1175	1175	4775	10145	9430	8915	9980	9370	10525	9980	9970	9910	9915	9980	9420	10520	10105	5395	1180	1170
8	1165	1160	1155	1150	1150	1150	5160	9980	6305	9415	9760	9910	4990	1175	1165	1165	5590	11185	11950	11870	4870	1165	1160	1155
9	1145	1140	1135	1135	1135	1130	1130	1130	10755	10915	11480	11480	11105	11480	11060	10940	11455	11085	11470	11625	11485	11060	10915	10915
10	11515	11515	10835	11520	11470	11070	11495	11355	10255	9705	9720	10495	10515	9980	10610	9550	12330	11505	10895	11460	11505	10900	11725	11725
11	12520	12570	12215	12570	12520	12570	12470	13405	11630	11295	11580	12555	12670	12510	12620	11700	12030	12350	12580	12620	11435	12030	12030	11920
12	12630	12570	11665	12475	12755	12020	12175	12515	12100	12130	12950	12150	12705	11485	10925	12475	12075	12150	12705	12140	11650	11965	12045	12390
13	3575	3985	2985	1460	1450	1440	1440	9990	10240	10155	9745	6765	4875	5385	5495	5005	10270	10405	9885	10405	10425	9375	10405	9880
14	5075	5075	5235	5235	5235	5235	4705	11475	10420	10450	9915	9845	9970	8700	9020	9495	9980	10535	10525	10605	9485	9845	10605	10455
15	8955	4400	4035	4035	4035	4035	3825	3865	6365	5310	5660	4720	5265	5345	10660	9855	9015	10975	10545	12405	11140	11200	11140	11200
16	1200	1195	1195	1185	1175	1170	1160	1155	1150	1140	4745	4975	4360	1150	1140	1135	1135	5990	5750	5920	1145	1140	1135	1135
17	1135	1135	1135	1135	1135	1135	1135	9305	10190	10360	9880	9880	9850	9870	8480	9280	10850	12345	10995	11580	10410	6030	6265	6265
18	1145	1145	1135	1135	1130	1130	1130	10100	9720	9850	10260	9850	9350	9350	9445	7930	9720	11310	11810	11550	11280	11550	11550	11295
19	1140	1135	1130	1130	2000	3290	9735	9390	9970	9915	10060	9550	9975	8730	10140	10250	11620	10710	10995	10995	11580	11310	10995	11265
20	2940	2600	2300	2300	2300	3780	11245	11740	10650	11330	11940	10120	9970	9915	9980	9370	9815	9980	10520	9910	10035	8450	2690	1165
21	1165	1160	1155	1150	1140	1140	2595	8830	10610	11760	11760	11075	11705	10660	9865	11400	12075	12330	12225	12225	12400	12405	11965	11965
22	10385	9975	9780	9780	10460	9855	9560	10720	11550	11550	10970	10550	10975	10550	10515	10630	11050	10975	10830	11090	10610	6075	3665	1185
23	1180	1175	1170	1170	1160	1155	1150	1150	5685	9540	10110	4740	1155	1150	1145	1145	2300	8970	7465	4790	2665	1450	1150	1150
24	1150	1150	1140	1140	1140	1140	1140	7465	10685	9580	10155	9565	10155	10710	10130	10425	9110	10155	10575	10850	10320	10540	10725	10540
25	1165	1155	1155	1155	1155	1155	4995	10820	10340	10385	9900	10385	9780	9780	9845	9980	9365	10115	11405	11060	11260	10790	11060	10790
26	10865	11085	4425	4425	4425	10915	11050	10660	11110	11190	10950	10775	10280	11330	10430	10965	10965	10855	11300	10690	11135	11160	10720	10730
27	11800	14775	16145	19965	23025	24925	24480	24235	24295	23880	23780	23330	23370	23425	23465	25630	26030	25720	26280	30450	30880	33755	33305	33340
28	32615	32145	32870	32110	31845	32670	34150	31160	28480	26960	28430	27270	25920	27150	27260	27215	27875	29655	29705	29735	30225	29775	30030	30030
29	29335	29320	29820	30275	29565	29785	29775	29825	29970	29320	30440	29365	30935	29820	29345	29295	28095	28550	28595	28145	28015	26365	26375	26365
30	25970	26030	26360	26325	26370	26625	24820	25190	24420	24555	25065	24670	24715	25170	25445	25300	24555	24310	25150	24845	24800	24650	25065	24640

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Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	24745	25330	24055	21120	21535	21650	20015	20550	18520	18025	20065	21060	21785	21350	21595	21555	17310	17820	18430	17015	16620	16530	16530	16530
2	17390	17120	17015	17325	17015	17120	17145	16945	14355	14480	13670	13700	13565	13225	13330	13565	13595	13700	13700	13565	13290	13760	13080	13080
3	13050	13695	12985	13120	13560	13015	14135	15520	18260	21130	23060	27135	26490	26135	24975	24965	24920	25420	24460	28695	28005	34600	31805	31835
4	36015	36100	35510	36220	36115	38095	37400	37150	27570	27570	27570	27570	28020	28020	28020	28020	28225	27990	28050	28020	26260	26330	25755	25730
5	25285	24515	23850	23850	23750	22130	22060	22060	26620	22060	20665	21730	21530	22325	23385	23895	22325	22325	22030	21675	21735	21140	18570	18635
6	15575	15520	15785	15220	15270	19795	19540	19460	18285	19340	18420	18885	18285	19340	18335	19165	18475	18985	17995	18895	14785	15365	15115	15285
7	15205	15695	15185	15335	16305	15740	15740	15740	15845	15085	15630	15795	16195	12435	12170	12300	12415	12105	11575	12565	12680	12030	12030	12680
8	15950	15950	15685	15690	15925	15925	16730	16730	17980	17980	16570	15925	15190	16630	16960	16825	14430	14740	13650	11870	12595	11890	12465	11870
9	11525	11675	11270	11390	11845	12305	13695	13175	12645	11965	11750	13000	12305	12430	11820	12235	12430	11725	12985	11750	12305	11725	12405	12305
10	10360	10775	10720	10840	10720	11145	11330	10845	11455	10340	11400	10720	11470	10770	10900	11400	11260	11020	10845	10720	10895	10720	10845	10775
11	3575	3575	3865	4270	3815	4235	11105	11060	11310	11580	10080	9845	9935	9890	10065	7410	12025	12045	10410	10995	11580	11040	10995	11580
12	11705	11565	10995	11565	11610	11040	12180	11040	11090	11570	11750	10060	10060	11150	10185	10625	11180	10565	11775	10350	12640	11480	10620	10620
13	12345	11785	11520	10535	10995	11740	10725	11185	11395	10650	11315	10785	11190	11330	11260	11320	10845	11115	11320	10715	11320	11030	10920	11115
14	10795	5230	4780	4750	4700	4750	4700	9635	9875	9200	9740	9355	5210	1170	1155	1145	6190	11020	10365	10780	10065	6320	1180	1170
15	1150	1140	1140	1140	1140	1140	4610	10660	11080	11305	11260	4255	4620	4560	4405	4270	11910	11080	10915	11255	6140	1155	1145	1140
16	1140	1135	1135	1135	1135	6290	11810	10245	9555	9195	9245	9180	9230	8785	9610	9005	9920	11935	12465	11935	13745	12500	12385	12020
17	8970	10585	9425	10115	7595	3880	3815	3995	11520	10030	11120	11250	7810	8030	7310	8190	10995	11595	10995	10950	11610	10995	10950	10950
18	6370	6370	6370	6370	6370	6370	6780	5630	11205	11385	11330	11260	8220	7960	8265	8655	11305	10580	11330	11325	10720	10895	10720	10720
19	6505	5290	5120	5080	5330	5945	11790	11385	10965	10870	10990	11570	10995	10410	10415	11070	11010	10970	11055	11050	10970	10930	10930	10595
20	5550	6770	6885	6945	6055	5870	11025	12020	11185	10410	10905	10410	9445	9080	11015	10590	10975	11050	11550	11050	10540	11125	10770	10770
21	11640	8015	7455	7455	7120	7120	10945	10530	11240	10750	10470	10750	7310	8430	6520	7705	10640	10485	9975	9985	10295	10485	3705	1205
22	1185	1170	1170	1170	1170	2990	7430	9780	10300	10655	9895	9910	10075	9700	9790	9635	10930	10590	10670	11090	3720	3620	4045	1185
23	1195	1190	1190	1190	1190	3255	6315	10735	11550	10865	10350	11330	8590	7665	9085	10630	10690	11200	10610	11150	11470	10700	10775	1230
24	1195	1185	1185	1185	1185	1185	5740	6830	10905	10550	9735	9865	9945	9735	9865	9755	10355	11300	10790	11430	11030	10790	10355	10355
25	11390	11540	5680	6550	5860	6455	8070	8070	11330	10840	11330	11330	10290	11330	10840	10915	11330	11455	10840	11260	11330	10845	10400	10400
26	11480	10840	11405	11480	10910	10840	12010	11870	11075	10770	11115	10875	10910	10790	11095	10970	11015	10890	10970	11075	10410	8180	7435	7815
27	7680	7655	8050	7580	8015	8040	8190	8015	11325	11455	10570	10965	11185	11185	10350	10350	11405	11530	10840	10350	10965	10840	10790	10915
28	10825	10410	2790	2390	2745	2750	2750	2750	12075	11675	10410	11445	5260	5260	5650	5160	11470	11050	11050	10515	10470	5080	5145	4555
29	1175	1170	1170	1170	1165	1165	1165	11115	11750	10410	10590	9545	7030	1190	1185	1170	11120	9900	5460	5330	5290	5285	1165	1165
30	1160	1160	1160	1155	1150	1145	1145	11035	10655	11875	10165	11520	10785	11260	10900	10895	10970	10775	10845	11450	10360	5080	4990	4510
31	1180	1175	1170	1160	1155	1150	1150	10410	9825	9790	10395	11040	11465	11330	11385	11415	11455	10285	10720	11260	10845	11330	10720	11330

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Vernon Fishway

May 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	FISHWAY INOPERATIVE																								
2	FISHWAY INOPERATIVE																								
3	FISHWAY INOPERATIVE																								
4	FISHWAY INOPERATIVE																								
5	FISHWAY INOPERATIVE																								
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15	FISHWAY INOPERATIVE																								
16	FISHWAY INOPERATIVE																								
17	FISHWAY INOPERATIVE																								
18	FISHWAY INOPERATIVE																								
19	FISHWAY INOPERATIVE																								
20	FISHWAY INOPERATIVE								65.8	65.5	65.4	65.4	65.6	65.9	66.1	66.3	66.4	66.5	66.5	66.3	66.3	66.4	66.6	66.7	66.1
21	66.8	66.8	66.8	SYSTEM INOPERATIVE					65.8				66.7	66.9	67.0	67.0	67.0	SYSTEM INOPERATIVE							66.8
22	SYSTEM INOPERATIVE										66.8	66.9	67.1	67.2	67.2	67.3	67.4	67.5	67.5	67.6	67.7	67.8	67.9	68.0	67.5
23	68.2	68.3	68.3	68.2	68.1	67.8	67.5	67.2	66.9	66.7	66.5	66.4	66.4	66.4	66.5	66.7	66.8	66.8		66.9	66.9	66.9	66.8	66.8	67.1
24	66.8	66.8	66.7	66.5	66.3	66.0	65.8	65.6	65.5	65.3	65.1	65.0	65.0	65.1	65.3	65.4	65.5	65.6	65.6	65.7	65.7	65.6	65.5	65.2	65.7
25	64.9	64.7	64.4	64.1	63.8	63.5	63.2	63.0	62.9	62.9	63.0	63.1	63.3	63.4	63.5	63.6	63.7	63.8	63.8	63.7	63.6	63.5	63.4	63.4	63.6
26	63.2	63.1	63.0	62.9	62.7	62.5	62.3	62.2	62.2	62.4	62.5	62.8	63.0	63.2	63.4	63.6	63.8	63.9	63.9	63.9	63.8	63.8	63.7	63.6	63.1
27	63.6	63.5	63.4	63.4	63.5		63.6	63.6	63.7	63.8	64.0	64.2	64.4	64.6	64.9	64.8	64.8	64.8	64.8	64.6	64.5	64.4	64.2	64.1	64.1
28	64.0	63.9	63.7	63.6	63.5	63.4	63.3	63.3	63.3	63.4	63.6	63.8	64.1	64.3	64.5	64.8	65.0	65.1	65.2	65.2	65.1	65.0	64.9	64.8	64.2
29	64.7	64.7	64.6	64.5	64.5	64.4	64.3	64.4	64.5	64.7	64.9	65.1	65.2	65.4	65.5	65.7	65.8	65.8	65.9	65.8	66.0	65.9	65.8	65.8	65.2
30	65.9	65.9	65.8	65.8	65.8	65.8	65.8	65.8	65.8	66.0	66.1	66.2	66.5	66.7	66.8	66.9	68.0	68.4	68.3	68.9	68.8	68.2	68.4	67.6	66.8
31	67.6	67.5	67.4	67.4	67.3	67.2	67.1	67.1	67.2	67.1	67.2	67.4	67.5	67.5	67.7	67.9	68.1	68.1	68.2	68.3	68.3	68.1	68.0	67.9	67.6

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Vernon Fishway

June 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	67.7	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.8	67.8	67.9	68.4	69.3	69.8	69.9	69.6	69.5	69.6	69.6	69.5	69.3	69.1	69.2	68.5
2	69.2	69.1	69.1	69.1	68.9	68.7	68.6	68.4	68.3	68.2	68.4	68.5	68.7	68.7	68.8	68.7	68.6	68.5	68.3	68.0	67.7	67.5	67.4	67.4	68.4
3	67.3	67.3	67.1		67.0	67.0	67.0	67.2	67.2	67.2	67.1	67.0	66.9	66.9	66.8	66.8	66.8	66.8	66.7	66.6	66.5	66.3	66.2	66.0	66.9
4	65.9	65.7	65.6	65.5	65.4	65.2	65.1	65.0	65.1	65.2	65.4	65.8	66.2	66.4	66.6	66.7	66.8	66.7	66.5	66.5	66.6	66.5	66.5	66.5	66.0
5	66.5	66.5	66.5	66.4	66.3	66.2	66.1	66.0	65.8	65.7	65.5	65.4	65.3	65.3	65.3	65.3	65.3	65.3	65.2	65.2	65.2	65.3	65.3	65.4	65.7
6	65.4	65.5	65.5	65.5	65.5	65.5	65.4	65.3	65.1	65.0	64.8	64.7	64.6	64.5	64.5	64.4	64.4	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.8
7	64.4	64.4	64.3	64.3	64.3	64.3	64.3	64.3	64.4	64.4	64.5	64.6	64.7	64.8	64.8	64.8	64.8	64.7	64.7	64.5	64.4	64.4	64.3	64.2	64.5
8	64.1	64.1	64.0	64.0	63.9	63.9	63.9	63.9	63.9	64.0	64.0	64.2	64.5	65.1	65.2	65.0	64.6	64.4	64.4	64.3	64.6	65.6	66.5	66.4	64.5
9	66.3	66.2	65.9	65.7	65.5	65.2	65.0	64.7	64.7	64.4	64.2	64.3	64.5	64.6	64.8	64.9	65.2	65.3	65.3	65.4	65.3	65.2	65.1	65.2	65.1
10	65.1	65.0	64.9	64.8	64.8	64.7	64.7	64.7	64.7	64.7	64.8	64.9	65.4	67.0	67.4	66.9	66.9	66.8	66.6	65.9	65.9	66.0	66.1	66.2	65.6
11	66.2	66.2	66.2	66.1	66.1	66.1	66.0	66.0	66.1	66.0	66.0	66.1	66.1	66.1	66.2	66.2	66.1	66.0	66.0	65.9	65.9	65.9	65.9	65.8	66.1
12	65.8	65.8	65.8	65.8	65.8	65.8	65.7	65.6	65.5	65.3	65.2	65.1	65.0	65.0	65.0	65.1	65.1	65.2	65.2	65.0	64.8	64.7	64.4	64.1	65.2
13	63.9	63.7	63.7	63.8	63.8	63.6	63.5	63.4	63.3	63.2	63.1	63.1	63.1	63.1	63.2	63.2	63.1	63.0	62.8	62.6	62.4	62.2	61.9	61.7	63.1
14	61.5	61.3	61.2	61.1	61.0	61.0	60.9	61.0	61.0	61.2	61.3	61.6	61.8	61.9	62.2	62.2	62.3	62.3	62.2	62.1	62.1	62.0	62.0	62.0	61.6
15	62.0	62.0	62.0	62.0	62.1	62.2	62.3	62.3	62.4	62.5	62.7	62.8	62.9	63.0	63.2	63.4	62.9	63.1	63.1	63.5	63.3	63.1	63.1	63.1	62.7
16	63.2	63.6	63.5	63.4	63.3	63.2	63.3	63.2	63.2	63.3	63.6	64.1	64.2	64.2	64.4	64.4	64.5	64.5	64.5	64.2	64.1	63.8	63.7	63.9	63.8
17	64.0	63.9	63.8	63.7	63.7	63.6	63.5	63.4	63.6	63.8	64.1	64.6	65.1	65.6	65.9	66.2	66.3	66.1	65.9	65.7	65.5	65.2	65.0	64.8	64.7
18	64.7	64.6	64.6	64.7	64.9	64.9	65.0	65.0	65.1	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.4	65.3	65.3	65.2	65.1	65.0	64.9	65.1
19	64.9	64.8	64.8	64.8	64.8	64.9	64.9	65.0	65.1	65.3	65.4	65.6	65.8	65.9	66.0	66.3	66.3	66.2	66.3	66.3	66.2	66.2	66.1	66.0	65.6
20	65.9	66.0	65.9	65.9	65.9	65.9	65.9	66.0	66.1	66.1	66.2	66.3	66.5	66.7	66.7	66.7	66.6	66.6	66.5	66.4	66.2	66.0	65.9	65.9	66.2
21	65.9	65.8	65.8	65.7	65.6	65.5	65.4	65.3	65.3	65.3	65.4	65.5	65.5	65.5	66.0	66.3	66.6	66.5	65.4	64.8	64.7	64.8	64.8	64.7	65.5
22	64.6	64.6	64.6		64.5	64.5	64.5	64.7	64.9	65.1	65.4	65.7	65.9	67.4	69.4	70.4	70.2	69.8	69.3	68.8	68.5	67.8	67.3	66.8	66.7
23	67.1	66.8	66.7	66.8	66.6	66.6	66.4	66.5	66.5	65.6	65.7	65.7			66.7	66.8	67.2	67.7	68.1	68.4	68.4	68.4	68.4	68.4	67.1
24	68.4	68.4	68.4	68.3	68.3	68.3	68.3	68.2	68.2	68.2	68.4	68.2	68.1	68.2	68.3	68.4	68.3	68.2	68.3	68.3	68.2	68.1	68.1	68.1	68.3
25	68.1	68.2	68.1	68.0	67.9	67.9	67.8	67.8	67.7	67.7	67.8	67.9	68.0	68.2	68.4	68.4	68.3	68.3	68.3	68.2	68.1	68.0	67.9	67.8	68.0
26	67.7	67.7	67.6	67.5	67.4	67.4	67.4	67.3	67.4	67.4	67.6	67.8	68.1	68.4	68.7	68.8	68.8	68.8	68.7	68.6	68.7	68.8	68.7	68.6	68.1
27	68.5	68.5	68.5	68.4	68.4	68.3	68.3	68.3	68.2	68.3	68.4	68.6	69.1	69.1	68.7	69.0	69.5	69.6	69.6	69.5	69.4	69.3	69.3	69.1	68.8
28	69.1	69.0	69.0	69.0	69.0	69.0	68.9	69.0	69.0	69.2	69.3	69.9	70.2	70.6	70.7	70.5	70.7	72.1	73.4	74.0	74.3	74.3	73.8	73.3	70.7
29	72.9	72.5	72.4	72.3	72.5	72.5	72.4	72.3	72.0	71.9	71.9	72.1	72.4	73.2	73.7	73.9	73.5	73.1	73.2	73.2	72.9	72.2	71.9	71.8	72.6
30	71.5	71.4	71.3	71.3	71.2	71.1	71.1	71.1	71.1	71.2	71.2	70.9	71.0	71.1	71.2	71.3	71.4	71.5	71.5	71.4	71.3	71.2	71.1	71.1	71.2

AVERAGE HOURLY TEMPERATURE IN DEGREES F

Vernon Fishway

July 1986

DAY	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAILY AVERAGE
1	71.0	70.9	70.8	70.8	70.7	70.6	70.5	70.5	70.5	70.7	70.7	70.8	70.7	71.0	71.3	72.4	73.0	72.8	72.9	72.9	72.5	71.9	71.4	71.3	71.4
2	71.0	71.0	70.9	70.8	70.9	70.9	70.8	70.9	70.9	71.0	70.9	70.8	70.6	70.4	70.3	70.4	70.5	70.6	70.6	70.6	70.6	70.5	70.5	70.4	70.7
3	70.3	70.2	70.2	70.1	70.1	70.0	70.0	69.9	69.9	70.0	70.2	69.8	69.8	70.0	70.1	70.1	70.0	69.9	69.8	69.5	69.3	69.1	68.8	68.5	69.8
4	68.1	67.7	67.5	67.3	67.2	67.2	67.3	67.4	67.5	67.8	68.1	68.3	68.5	69.4	69.7	69.6	69.7	69.8	69.8	69.8	69.9	69.8	69.6	69.2	68.6
5	69.0	69.1	68.9	68.7	68.6	68.5	68.5	68.5	68.7	69.0	69.4	69.5	69.3	69.5	70.7	71.0	71.3	71.7	70.9	69.7	70.5	70.8	70.5	70.6	69.7
6	70.5	70.2	70.3	70.3	70.4	70.4	70.5	70.4	70.3	70.7	70.7	71.5	72.0	72.7	74.0	73.8	74.3	74.3	73.9	73.5	73.3	72.5	71.1	69.8	71.7
7	71.1	72.6	72.7	72.3	72.1	72.0	71.8	71.5	71.3	71.4	71.5	72.2	72.8	72.9	72.0	72.2	72.8	72.5	72.4	72.6	72.5	72.6	72.7	72.5	72.2
8	72.2	72.6	72.3	72.2	71.9	71.9	72.0	72.1	71.9	71.6	70.8	FISHWAY INOPERATIVE													
9	FISHWAY INOPERATIVE																								
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30	FISHWAY INOPERATIVE																								
31	FISHWAY INOPERATIVE																								

DATE : April 30, 1986 12:15
LOCATION : Vermont Yankee Intake
METHOD : Whole water by bucket, 0.25 Liters
SAMPLE : 9163
CONVERSION FACTOR : 4817/Liter

REMARKS : Warm, clear, cloud cover 5-10%.

Organism	Number	Remarks
CHLOROPHYCOPHYTA		
Chlorophyceae		
Volvocales		
Chlamydomonaceae		
Chlamydomonas sp.	1	
Chlorococcales		
Micractinaceae		
Micractinium pusillum	4	
Tetrasporales		
Tetrasporaceae		
Tetraspora sp.	1	
CHRYSOPHYCOPHYTA		
Chrysophyceae		
Ochromonadales		
Synuraceae		
Mallomonas sp.	1	
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Indeterminate	2	
Fragilariales		
Fragilariaceae		
Asterionella formosa	2	
Synedra sp.	17	
Naviculales		
Cymbellaceae		
Cymbella sp.	1	
CRYPTOPHYCOPHYTA		
Cryptophyceae		
Cryptomonadales		
Cryptomonadaceae		
Chroomonas sp.	46	
Cryptomonas ovata	16	

DATE : April 30, 1986 12:10
LOCATION : Vermont Yankee Intake
METHOD : Whole water by bucket, 0.25 Liters
SAMPLE : 9164
CONVERSION FACTOR : 2569/Liter

REMARKS : Warm, clear, cloud cover 5-10%.

Organism	Number	Remarks
CHLOROPHYCOPHYTA		
Indeterminate	2	
Chlorophyceae		
Volvocales		
Chlamydomonaceae		
Carteria sp.	3	
Chlorococcales		
Oocystaceae		
Ankistrodesmus falcatus var. acicularis	3	
Micractinaceae		
Micractinium pusillum	5	
CHRYSOPHYCOPHYTA		
Chrysophyceae		
Ochromonadales		
Synuraceae		
Synura sp.	3	
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Fragilariales		
Fragilariaceae		
Asterionella formosa	4	
Synedra sp.	28	
Tabellaria flocculosa	1	
Coscinodiscales		
Coscinodiscaceae		
Melosira sp.	1	
PYRROPHYCOPHYTA		
Dinophyceae		
Peridiniales		
Glenodinaceae		
Glenodinium sp.	2	
CRYPTOPHYCOPHYTA		
Cryptophyceae		
Cryptomonadales		
Cryptomonadaceae		
Chroomonas sp.	100	
Cryptomonas ovata	23	

DATE : May 14, 1986 11:55
LOCATION : Vermont Yankee Intake
METHOD : Whole water by bucket, 0.25 Liters
SAMPLE : 9208
CONVERSION
FACTOR : 4056/Liter

Organism	Number	Remarks
CHLOROPHYCOPHYTA		
Chlorophyceae		
Chlorococcales		
Oocystaceae		
Ankistrodesmus falcatus var. acicularis	12	
Micractinaceae		
Micractinium pusillum	28	
CHRYSOPHYCOPHYTA		
Chrysophyceae		
Ochromonadales		
Dinobryaceae		
Dinobryon sertularia	1	
Xanthophyceae		
Heterochlondales		
Stipitococeaceae		
Stipitococcus sp.	3	
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Fragilariales		
Fragilariaceae		
Asterionella formosa	4	
Synedra sp.	10	
Naviculales		
Naviculaceae		
Navicula sp.	2	
Cymbellaceae		
Cymbella sp.	1	
CRYPTOPHYCOPHYTA		
Cryptophyceae		
Cryptomonadales		
Cryptomonadaceae		
Chroomonas sp.	95	
Cryptomonas ovata	3	

DATE : May 14, 1986 11:55
LOCATION : Vermont Yankee Intake
METHOD : Whole water by bucket, 0.25 Liters
SAMPLE : 9209
CONVERSION FACTOR : 5505/Liter

Organism	Number	Remarks
CHLOROPHYCOPHYTA		
Chlorophyceae		
Chlorococcales		
Oocystaceae		
Ankistrodesmus convolutus	1	
Ankistrodesmus falcatus var. acicularis	5	
Micractinaceae		
Micractinium pusillum	26	
Scenedesmaceae		
Tetrastrum sp.	1	
CHRYSOPHYCOPHYTA		
Indeterminate	1	
Chrysophyceae		
Ochromonadales		
Dinobryaceae		
Dinobryon divergens	1	
Synuraceae		
Mallomonas sp.	1	
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Indeterminate	3	
Fragilariales		
Fragilariaceae		
Synedra sp.	13	
Rhizosoleniales		
Rhizosoleniaceae		
Rhizosolenia sp.	1	
CRYPTOPHYCOPHYTA		
Cryptophyceae		
Cryptomonadales		
Cryptomonadaceae		
Chroomonas sp.	120	
Cryptomonas ovata	4	

DATE : June 12, 1986 16:50
LOCATION : Vermont Yankee Intake
METHOD : Whole water by bucket, 0.25 Liters
SAMPLE : 9419
CONVERSION FACTOR : 7706/Liter

REMARKS : Raining

Organism	Number	Remarks
CYANOCHLORONTA		
Cyanophyceae		
Chroococcales		
Chroococaceae		
Aphanocapsa elachista	1	
CHLOROPHYCOPHYTA		
Chlorophyceae		
Chlorococcales		
Palmellaceae		
Gloeocystis gigas	1	
Oocystaceae		
Ankistrodesmus convolutus	2	
Micractinaceae		
Micractinium pusillum	4	
CHRYSOPHYCOPHYTA		
Chrysophyceae		
Ochromonadales		
Dinobryaceae		
Dinobryon sp.	5	
Dinobryon divergens	1	
Synuraceae		
Mallomonas sp.	1	
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Fragilariales		
Fragilariaceae		
Synedra sp.	18	
Coscinodiscales		
Coscinodiscaceae		
Melosira sp.	1	
Rhizosoleniales		
Rhizosoleniaceae		
Rhizosolenia sp.	20	
CRYPTOPHYCOPHYTA		
Cryptophyceae		
Cryptomonadales		
Cryptomonadaceae		
Chroomonas sp.	150	
Cryptomonas ovata	23	

DATE : June 12, 1986 16:50
LOCATION : Vermont Yankee Intake
METHOD : Whole water by bucket, 0.25 Liters
SAMPLE : 9420
CONVERSION FACTOR : 7706/Liter

REMARKS : Raining

Organism	Number	Remarks
CHLOROPHYCOPHYTA		
Chlorophyceae		
Chlorococcales		
Palmellaceae		
Gloeocystis gigas	2	
Scenedesmaceae		
Scenedesmus sp.	2	
CHRYSOPHYCOPHYTA		
Chrysophyceae		
Ochromonadales		
Dinobryaceae		
Dinobryon sertularia	1	
Synuraceae		
Mallomonas sp.	3	
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Indeterminate	2	
Fragilariales		
Fragilariaceae		
Synedra sp.	14	
Coscinodiscales		
Coscinodiscaceae		
Melosira sp.	2	
Rhizosoleniales		
Rhizosoleniaceae		
Rhizosolenia sp.	22	
PYRROPHYCOPHYTA		
Dinophyceae		
Peridiniales		
Glenodinaceae		
Glenodinium sp.	2	
CRYPTOPHYCOPHYTA		
Cryptophyceae		
Cryptomonadales		
Cryptomonadaceae		
Chroomonas sp.	127	
Cryptomonas ovata	44	

DATE : July 17, 1986 10:35
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 9754
CONVERSION
FACTOR : 55.1/Liter

REMARKS : Partly cloudy. Zooplankton.

Organism	Number	Remarks
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Fragilariales		
Fragilariaceae		
Asterionella formosa	3	
Fragilaria crotonensis	1	
Coscinodiscales		
Coscinodiscaceae		
Melosira sp.	1	
CRYPTOPHYCOPHYTA		
Cryptophyceae		
Cryptomonadales		
Cryptomonadaceae		
Chroomonas sp.	15	

DATE : July 17, 1986 10:45
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 9755
CONVERSION
FACTOR : 77.2/Liter

REMARKS : Partly cloudy. Zooplankton.

Organism	Number	Remarks
CHLOROPHYCOPHYTA		
Chlorophyceae		
Chlorococcales		
Oocystaceae		
Ankistrodesmus falcatus	1	
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Fragilariales		
Fragilariaceae		
Fragilaria crotonensis	5	
Synedra sp.	1	
Tabellaria fenestrata	3	
Coscinodiscales		
Coscinodiscaceae		
Melosira sp.	3	
CRYPTOPHYCOPHYTA		
Cryptophyceae		
Cryptomonadales		
Cryptomonadaceae		
Chroomonas sp.	23	

DATE : August 15, 1986 16:55
LOCATION : Vermont Yankee Intake
METHOD : Surface grab, 0.25 Liters
SAMPLE : 9909
CONVERSION FACTOR : 5928/Liter

REMARKS : Temp-70's, clear, sunny. Entrainment. Phytoplankton.

Organism	Number	Remarks
CYANOCHLORONTA		
Cyanophyceae		
Nostocales		
Nostocaceae		
Anabaena sp.	1	
CHLOROPHYCOPHYTA		
Chlorophyceae		
Volvocales		
Volvocaceae		
Pandorina sp.	1	
Chlorococcales		
Chlorococcaceae		
Schroederia sp.	1	
Palmellaceae		
Gloeocystis gigas	5	
Oocystaceae		
Selenastrum minutum	4	
Micractinaceae		
Micractinium pusillum	1	
Scenedesmaceae		
Crucigenia rectangularis	1	
Zygnematales		
Zygnemataceae		
Mougeotia sp.	1	
CHRYSOPHYCOPHYTA		
Chrysophyceae		
Ochromonadales		
Dinobryaceae		
Dinobryon sertularia	1	
Synuraceae		
Mallomonas urniformis	3	
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Indeterminate	8	
Fragilariales		
Fragilariaceae		
Synedra sp.	6	
Rhizosoleniales		
Rhizosoleniaceae		
Rhizosolenia sp.	3	
CRYPTOPHYCOPHYTA		
Cryptophyceae		
Cryptomonadales		
Cryptomonadaceae		
Chroomonas sp.	108	
Cryptomonas ovata	12	

DATE : August 15, 1986 16:55
LOCATION : Vermont Yankee Intake
METHOD : Surface grab, 0.25 Liters
SAMPLE : 9910
CONVERSION FACTOR : 5138/Liter

REMARKS : Temp-70's, clear, sunny. Entrainment. Phytoplankton.

Organism	Number	Remarks
CHLOROPHYCOPHYTA		
Chlorophyceae		
Chlorococcales		
Palmellaceae		
Gloeocystis gigas	4	
Oocystaceae		
Ankistrodesmus convolutus	1	
Scenedesmaceae		
Scenedesmus sp.	2	
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Indeterminate	3	
Fragilariales		
Fragilariaceae		
Synedra sp.	5	
Naviculales		
Naviculaceae		
Navicula sp.	1	
CRYPTOPHYCOPHYTA		
Cryptophyceae		
Cryptomonadales		
Cryptomonadaceae		
Chroomonas sp.	114	
Cryptomonas ovata	17	

DATE : September 19, 1986 13:30
LOCATION : Vermont Yankee Intake
METHOD : Surface grab, 0.25 Liters
SAMPLE : 10218
CONVERSION FACTOR : 2964/Liter

REMARKS : Clear

Organism	Number	Remarks
CYANOCHLORONTA		
Cyanophyceae		
Chroococcales		
Chroococcaceae		
Aphanocapsa elachista	2	
Nostocales		
Nostocaceae		
Anabaena wisconsinense	6	
CHLOROPHYCOPHYTA		
Chlorophyceae		
Volvocales		
Chlamydomonaceae		
Chlamydomonas sp.	4	
Chlorococcales		
Oocystaceae		
Ankistrodesmus convolutus	2	
Ankistrodesmus falcatus	1	
Ankistrodesmus falcatus var. acicularis	24	
Oocystis sp.	1	
Selenastrum minutum	1	
Micractinaceae		
Micractinium pusillum	6	
CHRYSOPHYCOPHYTA		
Indeterminate	30	
Chrysophyceae		
Ochromonadales		
Dinobryaceae		
Dinobryon bavaricum	1	
Dinobryon divergens	1	
Synuraceae		
Mallomonas sp.	6	
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Indeterminate	12	
Fragilariales		
Fragilariaceae		
Synedra sp.	6	
Coscinodiscales		
Coscinodiscaceae		
Melosira sp.	5	
Rhizosoleniales		
Rhizosoleniaceae		
Rhizosolenia sp.	30	
PYRROPHYCOPHYTA		
Dinophyceae		
Peridiniales		
Glenodinaceae		
Glenodinium sp.	2	
CRYPTOPHYCOPHYTA		
Cryptophyceae		
Cryptomonadales		
Cryptomonadaceae		
Chroomonas sp.	126	
Cryptomonas ovata	9	

DATE : October 16, 1986 10:46
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10447

Organism	Number	Remarks
CYANOCHLORONTA		
Cyanophyceae		
Chroococcales		
Chroococaceae		
Gomphosphaeria sp.	8	live
Nostocales		
Nostocaceae		
Anabaena sp.	1	live
Anabaena wisconsinense	2	dead
Anabaena wisconsinense	27	live
Oscillatoriaceae		
Oscillatoria sp.	5	dead
Oscillatoria sp.	3	live
CHLOROPHYCOPHYTA		
Chlorophyceae		
Chlorococcales		
Chlorococcaceae		
Characium sp.	1	live
Hydrodictyaceae		
Pediastrum duplex var. gracilimum	1	live
Pediastrum simplex	2	dead
CHRYSOPHYCOPHYTA		
Chrysophyceae		
Ochromonadales		
Dinobryaceae		
Dinobryon bavaricum	1	dead
Dinobryon divergens	1	dead
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Indeterminate	5	dead
Indeterminate	4	live
Fragilariales		
Fragilariaceae		
Asterionella formosa	3	live
Fragilaria sp.	2	live
Fragilaria crotonensis	3	dead
Fragilaria crotonensis	4	live
Synedra sp.	12	live
Synedra ulna	1	dead
Tabellaria sp.	1	dead
Naviculales		
Cymbellaceae		
Cymbella sp.	1	dead
Cymbella sp.	1	live
Coscinodiscales		
Coscinodiscaceae		
Melosira sp.	10	dead
Melosira sp.	11	live
Rhizosoleniales		
Rhizosoleniaceae		
Rhizosolenia sp.	1	dead
Rhizosolenia sp.	5	live

DATE : October 16, 1986 11:28
LOCATION : Vermont Yankee Discharge
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10448

Organism	Number	Remarks
CYANOCHLORONTA		
Cyanophyceae		
Chroococcales		
Chroococcaceae		
Gomphosphaeria sp.	8	live
Nostocales		
Nostocaceae		
Anabaena wisconsinense	1	live
Oscillatoriaceae		
Oscillatoria sp.	7	live
CHLOROPHYCOPHYTA		
Chlorophyceae		
Chlorococcales		
Chlorococcaceae		
Characium sp.	3	live
Palmellaceae		
Gloeocystis sp.	1	live
Oocystaceae		
Ankistrodesmus falcatus var. acicularis	1	live
Oocystis sp.	1	live
Hydrodictyaceae		
Pediastrum simplex	1	dead
Zygnematales		
Desmidiaceae		
Cosmarium sp.	1	live
Ulothricales		
Ulothricaceae		
Ulothrix sp.	6	live
CHRYSOPHYCOPHYTA		
Chrysophyceae		
Ochromonadales		
Dinobryaceae		
Dinobryon bavaricum	1	live
Dinobryon divergens	1	live
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Fragilariales		
Fragilariaceae		
Asterionella formosa	2	dead
Asterionella formosa	6	live
Fragilaria sp.	2	live
Fragilaria crotonensis	5	dead
Fragilaria crotonensis	5	live
Synedra sp.	2	live
Tabellaria fenestrata	1	dead
Tabellaria fenestrata	4	live
Naviculales		
Naviculaceae		
Navicula sp.	1	dead
Cymbellaceae		
Cymbella sp.	1	dead
Surirellales		
Surirellaceae		
Surirella sp.	1	dead
Coscinodiscales		
Coscinodiscaceae		
Melosira sp.	16	dead
Melosira sp.	20	live

(CONTINUED)

DATE : October 16, 1986 11:28
LOCATION : Vermont Yankee Discharge
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10448

Organism	Number	Remarks
CRYPTOPHYCOPHYTA		
Cryptophyceae		
Cryptomonadales		
Cryptomonadaceae		
Cryptomonas ovata	1	live

DATE : October 16, 1986 12:20
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10449

Organism	Number	Remarks
CYANOCHLORONTA		
Cyanophyceae		
Chroococcales		
Chroococcaceae		
Gomphosphaeria sp.	1	dead
Gomphosphaeria sp.	5	live
Nostocales		
Nostocaceae		
Anabaena wisconsinense	2	dead
Anabaena wisconsinense	20	live
Oscillatoriaceae		
Oscillatoria sp.	5	live
CHLOROPHYCOPHYTA		
Chlorophyceae		
Chlorococcales		
Chlorococcaceae		
Characium sp.	1	live
Zygnematales		
Desmidiaceae		
Staurastrum sp.	1	live
CHRYSOPHYCOPHYTA		
Chrysophyceae		
Ochromonadales		
Synuraceae		
Mallomonas sp.	1	dead
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Indeterminate	1	live
Fragilariales		
Fragilariaceae		
Asterionella formosa	1	dead
Asterionella formosa	4	live
Fragilaria sp.	2	live
Fragilaria crotonensis	6	dead
Fragilaria crotonensis	2	live
Synedra ulna	1	live
Tabellaria fenestrata	2	live
Coscinodiscales		
Coscinodiscaceae		
Melosira sp.	4	dead
Melosira sp.	3	live
Rhizosoleniales		
Rhizosoleniaceae		
Rhizosolenia sp.	1	dead
Rhizosolenia sp.	2	live

DATE : October 16, 1986 12:40
LOCATION : Vermont Yankee Discharge
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10450

Organism	Number	Remarks
CYANOCHLORONTA		
Cyanophyceae		
Chroococcales		
Chroococcaceae		
Gomphosphaeria sp.	5	live
Nostocales		
Oscillatoriaceae		
Oscillatoria sp.	2	live
CHLOROPHYCOPHYTA		
Chlorophyceae		
Chlorococcales		
Oocystaceae		
Ankistrodesmus falcatus var. acicularis	1	live
Dictyosphaeriaceae		
Dictyosphaerium pulchellum	1	live
Hydrodictyaceae		
Pediastrum duplex var. gracilimum	1	live
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Fragilariales		
Fragilariaceae		
Asterionella formosa	1	dead
Asterionella formosa	2	live
Fragilaria sp.	2	live
Fragilaria crotonensis	1	dead
Fragilaria crotonensis	3	live
Synedra sp.	1	live
Tabellaria fenestrata	1	dead
Tabellaria fenestrata	2	live
Coscinodiscales		
Coscinodiscaceae		
Melosira sp.	6	dead
Melosira sp.	8	live
CRYPTOPHYCOPHYTA		
Cryptophyceae		
Cryptomonadales		
Cryptomonadaceae		
Cryptomonas ovata	1	live

DATE : November 14, 1986 10:10
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10588

REMARKS : Clear

Organism	Number	Remarks
CYANOCHLORONTA		
Cyanophyceae		
Chroococcales		
Chroococaceae		
Gomphosphaeria sp.	2	live
CHLOROPHYCOPHYTA		
Chlorophyceae		
Zygnematales		
Zygnemataceae		
Spirogyra sp.	1	live
CHRYSOPHYCOPHYTA		
Chrysophyceae		
Ochromonadales		
Synuraceae		
Mallomonas sp.	1	live
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Fragilariales		
Fragilariaceae		
Asterionella formosa	1	live
Fragilaria sp.	1	dead
Coscinodiscales		
Coscinodiscaceae		
Melosira sp.	2	dead

DATE : November 14, 1986 10:10
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10589

REMARKS : Clear

Organism	Number	Remarks
CYANOCHLORONTA		
Cyanophyceae		
Chroococcales		
Chroococaceae		
Gomphosphaeria sp.	1	dead
CHLOROPHYCOPHYTA		
Chlorophyceae		
Chlorococcales		
Hydrodictyaceae		
Pediastrum duplex	1	live
Zygnematales		
Desmidiaceae		
Closterium sp.	1	live
CHRYSOPHYCOPHYTA		
Chrysophyceae		
Ochromonadales		
Dinobryaceae		
Dinobryon sp.	1	live
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Fragilariales		
Fragilariaceae		
Asterionella formosa	1	dead
Fragilaria sp.	1	dead
Fragilaria sp.	2	live

DATE : November 14, 1986 10:30
LOCATION : Vermont Yankee Discharge
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10590

REMARKS : Clear

Organism	Number	Remarks
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Indeterminate	1	live
Fragilariales		
Fragilariaceae		
Asterionella formosa	1	dead
Fragilaria sp.	1	live
Coscinodiscales		
Coscinodiscaceae		
Melosira sp.	3	dead
Melosira sp.	2	live
PYRROPHYCOPHYTA		
Dinophyceae		
Peridiniales		
Ceratiaceae		
Ceratium hirundinella	1	dead

DATE : November 14, 1986 10:30
LOCATION : Vermont Yankee Discharge
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10591

REMARKS : Clear

Organism	Number	Remarks
CHLOROPHYCOPHYTA		
Chlorophyceae		
Zygnematales		
Zygnemataceae		
Spirogyra sp.	1	live
BACILLARIOPHYCOPHYTA		
Bacillariophyceae		
Fragilariales		
Fragilariaceae		
Fragilaria sp.	2	dead
Fragilaria sp.	3	live
Tabellaria sp.	1	dead
Coscinodiscales		
Coscinodiscaceae		
Melosira sp.	2	dead
Melosira sp.	2	live

DATE : April 30, 1986 12:20
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 9162
CONVERSION FACTOR : 0.02/Liter

REMARKS : Warm, clear, cloud cover 5-10%.

Organism	Number	Remarks
PROTOZOA		
Indeterminate	10	
Sarcodina		
Testacida		
Arcellidae		
Arcella vulgaris	57	
Centropyxidae		
Centropyxis aculeata	10	
NEMATODA		
Indeterminate	29	
ROTATORIA		
Indeterminate	5	
Monogononta		
Ploima		
Synchaetidae		
Synchaeta sp.	2	
Brachionidae		
Kellicottia longispina	2	
Keratella cochlearis	1	
Keratella quadrata	1	
Macrochaetus sp.	1	
Monostyla sp.	1	
Notholca sp.	7	
ANNELIDA		
Indeterminate	1	
ARTHROPODA		
Crustacea		
Cladocera		
Indeterminate	2	
Bosminidae		
Bosmina longirostris	2	
Chydoridae		
Chydorus sphaericus	1	
Monospilus dispar	1	
Eucopepoda		
Copepoda		
Copepoda nauplii	11	
Copepoda adult	3	

DATE : May 14, 1986 12:00
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 9210
CONVERSION
FACTOR : 0.02/Liter

Organism	Number	Remarks
PROTOZOA		
Indeterminate	8	
Sarcodina		
Testacida		
Arcellidae		
Arcella mitrata	1	
Arcella vulgaris	57	
Centropyxidae		
Centropyxis aculeata	2	
Ciliata		
Gymnostomatida		
Didiniidae		
Didinium nasutum	1	
Oligotrichida		
Halteridae		
Strombidium sp.	2	
NEMATODA		
Indeterminate	18	
ROTATORIA		
Digononta		
Bdelloidea		
Philodinidae		
Philodina sp.	1	
Monogononta		
Flosculariacea		
Testudinellidae		
Testudinella sp.	1	
Ploima		
Notommatidae		
Notommata sp.	2	
Gastropodidae		
Ascomorpha sp.	8	
Trichocercidae		
Trichocerca sp.	1	
Asplanchnidae		
Asplanchna sp.	5	
Brachionidae		
Euchlanis parva	3	
Lecane sp.	1	
Mytilina sp.	2	
Notholca sp.	3	
Notholca acuminata	2	
Trichotria tetractis	1	
TARDIGRADA		
Indeterminate	1	
ANNELIDA		
Indeterminate	3	
ARTHROPODA		
Crustacea		
Cladocera		
Bosminidae		
Bosmina longirostris	1	
Chydoridae		
Chydorus sphaericus	3	
Eucopepoda		
Copepoda		
Copepoda nauplii	4	
Copepoda adult	3	

DATE : May 14, 1986 12:05
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 9211
CONVERSION
FACTOR : 0.17/Liter

Organism	Number	Remarks
PROTOZOA		
Indeterminate	2	
Sarcodina		
Testacida		
Arcellidae		
Arcella mitrata	1	
Arcella vulgaris	4	
NEMATODA		
Indeterminate	4	
ROTATORIA		
Monogononta		
Ploima		
Notommatidae		
Notommata sp.	2	
Synchaetidae		
Synchaeta sp.	1	
Brachionidae		
Brachionus budapestinensis	1	
Euchlanis sp.	6	
Euchlanis alata	1	
Euchlanis meneta	1	
Keratella cochlearis	1	
Notholca sp.	2	
Notholca acuminata	2	
ARTHROPODA		
Crustacea		
Eucopepoda		
Copepoda		
Copepoda nauplii	2	

DATE : May 14, 1986 12:10
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 9212
CONVERSION
FACTOR : 0.50/Liter

Organism	Number	Remarks
PROTOZOA		
Indeterminate	1	
Sarcodina		
Testacida		
Arcellidae		
Arcella vulgaris	4	
ROTATORIA		
Monogononta		
Ploima		
Brachionidae		
Brachionus sp.	1	
Notholca acuminata	1	

DATE : June 12, 1986 16:55
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 9417
CONVERSION
FACTOR : 0.50/Liter

REMARKS : Raining

Organism	Number	Remarks
ROTATORIA		
Indeterminate	10	
Monogononta		
Ploima		
Synchaetidae		
Synchaeta sp.	2	
Ploesomatidae		
Ploesoma sp.	1	
Brachionidae		
Keratella cochlearis	6	
Lecane sp.	1	
ARTHROPODA		
Crustacea		
Cladocera		
Bosminidae		
Bosmina longirostris	1	
Eucopepoda		
Copepoda		
Copepoda nauplii	1	
Copepoda adult	1	

DATE : June 12, 1986 16:55
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 9418
CONVERSION FACTOR : 0.50/Liter

REMARKS : Raining

Organism	Number	Remarks
PROTOZOA		
Sarcodina		
Testacida		
Arcellidae		
Arcella vulgaris	2	
NEMATODA		
Indeterminate	1	
ROTATORIA		
Indeterminate	10	
Monogononta		
Ploima		
Synchaetidae		
Polyarthra vulgaris	1	
Synchaeta sp.	3	
Brachionidae		
Brachionus sp.	1	
Keratella cochlearis	3	
ARTHROPODA		
Crustacea		
Cladocera		
Bosminidae		
Bosmina longirostris	1	
Eucopepoda		
Copepoda		
Copepoda nauplii	1	

DATE : July 17, 1986 10:35
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 9754
CONVERSION FACTOR : 0.50/Liter

REMARKS : Partly cloudy. Zooplankton.

Organism	Number	Remarks
ROTATORIA		
Monogononta		
Ploima		
Brachionidae		
Kellicottia longispina	1	
Keratella cochlearis	3	
ANNELIDA		
Indeterminate	1	
ARTHROPODA		
Crustacea		
Cladocera		
Bosminidae		
Bosmina longirostris	2	
Chydoridae		
Pleuroxus sp.	1	
Eucopepoda		
Copepoda		
Copepoda nauplii	1	
Copepoda adult	1	

DATE : July 17, 1986 10:45
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 9755
CONVERSION
FACTOR : 0.50/Liter

REMARKS : Partly cloudy. Zooplankton.

Organism	Number	Remarks
PROTOZOA		
Sarcodina		
Testacida		
Arcellidae		
Arcella vulgaris	2	
ROTATORIA		
Monogononta		
Floscularlacea		
Conochilidae		
Conochilus unicornis	3	
Ploima		
Brachionidae		
Kellicottia longispina	1	
Keratella cochlearis	2	
TARDIGRADA		
Indeterminate	1	
ARTHROPODA		
Crustacea		
Cladocera		
Daphnidae		
Ceriodaphnia sp.	1	
Eucopepoda		
Copepoda		
Copepoda nauplii	4	
Copepoda adult	2	

DATE : August 15, 1986 17:00
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 9911
CONVERSION
FACTOR : 0.50/Liter

REMARKS : Temp-70's, clear, sunny. Entrainment. Zooplankton.

Organism	Number	Remarks
PROTOZOA		
Sarcodina		
Testacida		
Arcellidae		
Arcella vulgaris	2	
ARTHROPODA		
Crustacea		
Eucopepoda		
Copepoda		
Copepoda nauplii	1	

DATE : August 15, 1986 17:00
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 9912

REMARKS : Temp-70's, clear, sunny. Entrainment. Zooplankton.

NO ORGANISMS FOUND

DATE : September 19, 1986 13:30
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10219
CONVERSION
FACTOR : 0.50/Liter

REMARKS : Clear. 40 liters filtered through net. Zooplankton.

Organism	Number	Remarks
PROTOZOA		
Sarcodina		
Testacida		
Arcellidae		
Arcella vulgaris	1	
Centropyxidae		
Centropyxis aculeata	1	
ROTATORIA		
Monogononta		
Ploima		
Notommatidae		
Notommata sp.	3	
Synchaetidae		
Polyarthra sp.	1	
Synchaeta sp.	1	
ARTHROPODA		
Crustacea		
Eucopepoda		
Copepoda		
Copepoda nauplii	1	

DATE : October 16, 1986 10:46
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10447

Organism	Number	Remarks
ROTATORIA		
Monogononta		
Ploima		
Brachionidae		
Kellicottia longispina	1	dead
Keratella cochlearis	1	live
Trichotria pocillum	1	live
ARTHROPODA		
Crustacea		
Cladocera		
Chydoridae		
Alona sp.	1	live
Ostracoda		
Indeterminate	1	live
Eucopepoda		
Copepoda		
Copepoda nauplii	1	live

DATE : October 16, 1986 11:28
LOCATION : Vermont Yankee Discharge
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10448

Organism	Number	Remarks
PROTOZOA		
Sarcodina		
Testacida		
Centropyxidae		
Centropyxis aculeata	1	dead
ROTATORIA		
Digononta		
Bdelloidea		
Philodinidae		
Philodina sp.	1	live
ANNELIDA		
Indeterminate	1	live

DATE : October 16, 1986 12:20
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10449

Organism	Number	Remarks
ARTHROPODA		
Crustacea		
Cladocera		
Chydoridae		
Alona sp.	1	live
Eucopepoda		
Copepoda		
Copepoda nauplii	2	live

DATE : October 16, 1986 12:40
LOCATION : Vermont Yankee Discharge
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10450

Organism	Number	Remarks
ARTHROPODA		
Crustacea		
Cladocera		
Bosminidae		
Bosmina longirostris	1	dead
Eucopepoda		
Copepoda		
Copepoda nauplii	1	live

DATE : November 14, 1986 10:10
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10588

REMARKS : Clear

Organism	Number	Remarks
ROTATORIA		
Monogononta		
Ploima		
Brachionidae		
Euchlanis sp.	1	live
Keratella cochlearis	2	live
ARTHROPODA		
Crustacea		
Eucopepoda		
Copepoda		
Copepoda nauplii	1	dead

DATE : November 14, 1986 10:10
LOCATION : Vermont Yankee Intake
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10589

REMARKS : Clear

Organism	Number	Remarks
ROTATORIA		
Digononta		
Bdelloidea		
Philodinidae		
Philodina sp.	1	live
Monogononta		
Ploima		
Brachionidae		
Kellicottia longispina	2	dead
Kellicottia longispina	1	live
Notholca acuminata	1	dead

DATE : November 14, 1986 10:30
LOCATION : Vermont Yankee Discharge
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10590

REMARKS : Clear

Organism	Number	Remarks
ROTATORIA		
Monogononta		
Ploima		
Brachionidae		
Notholca acuminata	1	live
ARTHROPODA		
Crustacea		
Eucopepoda		
Copepoda		
Copepoda nauplii	1	dead

DATE : November 14, 1986 10:30
LOCATION : Vermont Yankee Discharge
METHOD : Plankton net-bucket, 40 Liters
SAMPLE : 10591

REMARKS : Clear

Organism	Number	Remarks
ROTATORIA		
Digononta		
Bdelloidea		
Philodinidae		
Philodina sp.	1	live
Monogononta		
Collothecacea		
Collothecidae		
Collotheca mutabilis	1	live
ARTHROPODA		
Crustacea		
Cladocera		
Chydoridae		
Chydorus sphaericus	1	live

DATE : June 11, 1986
LOCATION: Station 5-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9368

REMARKS : Raining. Substrate type: sand.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Indeterminate	25	
Haplotaxida		
Naididae		
Indeterminate	5	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	1	
Crustacea		
Isopoda		
Asellidae		
Asellus sp.	1	
Insecta		
Ephemeroptera		
Baetidae		
Indeterminate	1	
Diptera		
Chironomidae		
Chironominae		
Lenziella sp.	1	
Heleidae		
Indeterminate	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	4	

DATE : June 11, 1986
LOCATION: Station 5-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9369

REMARKS : Raining. Substrate type: sand.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Indeterminate	42	
Haplotaxida		
Naididae		
Indeterminate	1	
Tubificidae		
Indeterminate	24	
Branchiura sowerbyi	1	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	1	
Insecta		
Ephemeroptera		
Baetidae		
Cloeon sp.	3	
Caenidae		
Caenis sp.	1	
Megaloptera		
Sialidae		
Sialis sp.	1	
Diptera		
Chironomidae		
Tanypodinae		
Thienemannimyia sp.	1	
Orthocladiinae		
Indeterminate	2	
Chironominae		
Chironomus sp.	2	
Cladopelma sp.	1	
Dicrotendipes sp.	1	
Harnischia sp.	1	
Lenziella sp.	2	
Pseudochironomus sp.	1	
Stempellinella sp.	1	
Tanytarsus sp.	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	1	

DATE : June 11, 1986
LOCATION: Station 5-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9370

REMARKS : Raining. Substrate type: sand.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Indeterminate	221	
Haplotaxida		
Naididae		
Indeterminate	27	
Tubificidae		
Branchiura sowerbyi	1	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	4	
Insecta		
Ephemeroptera		
Baetidae		
Cloeon sp.	2	
Polymitarcidae		
Ephoron sp.	1	
Trichoptera		
Leptoceridae		
Nectopsyche sp.	1	
Diptera		
Chironomidae		
Indeterminate	4	
Tanypodinae		
Ablabesmyia mallochi	2	
Procladius sp.	1	
Orthocladiinae		
Indeterminate	1	
Cricotopus sp.	1	
Chironominae		
Chironomus sp.	2	
Cryptochironomus sp.	6	
Demicryptochironomus sp.	3	
Lenziella sp.	2	
Pagastiella sp.	5	
Parachironomus sp.	1	
Paratanytarsus sp.	1	
Phaenopsectra sp.	1	
Polypedilum nr. scalaenum	1	
Pseudochironomus sp.	1	
Stempellinella sp.	3	
Tanytarsus sp.	1	
Heleidae		
Indeterminate	4	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	6	
Sphaerium sp.	1	
Unionidae		
Indeterminate	1	

DATE : June 11, 1986
LOCATION: Station 5-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9371

REMARKS : Raining. Substrate type: sand, gravel.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	5	
Haplotaxida		
Tubificidae		
Indeterminate	4	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	1	
Insecta		
Coleoptera		
Elmidae		
Stenelmis sp.	1	
Diptera		
Chironomidae		
Tanypodinae		
Procladius sp.	1	
Orthocladiinae		
Indeterminate	1	
Chironominae		
Indeterminate	3	
Chironomus sp.	1	
Paracladopelma longanae	1	
Tanytarsus sp.	3	
Tanytarsus guerlus	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	1	

DATE : June 11, 1986
LOCATION: Station 5-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9372

REMARKS : Raining. Substrate type: sand, gravel.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	3	
ARTHROPODA		
Insecta		
Trichoptera		
Leptoceridae		
Oecetis sp.	1	
Diptera		
Chironomidae		
Tanypodinae		
Procladius sp.	3	
Chironominae		
Indeterminate	2	
Tanytarsus sp.	1	
Tanytarsus guerlus	2	
Heleidae		
Indeterminate	2	

DATE : June 11, 1986
LOCATION: Station 5-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9373

REMARKS : Raining. Substrate type: sand, gravel.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	14	
Haplotaxida		
Naididae		
Indeterminate	1	
Tubificidae		
Indeterminate	2	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	1	
Insecta		
Diptera		
Chironomidae		
Chironominae		
Indeterminate	3	
Cryptochironomus sp.	1	
Dicrotendipes neomodestus	1	
Tanytarsus sp.	5	
Tanytarsus guerlus	2	

DATE : June 11, 1986
LOCATION: Station 5-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9374

REMARKS : Raining. Substrate type: silt, sand.

Organism	Number	Remarks
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
ANNELIDA		
Oligochaeta		
Indeterminate	13	
Haplotaxida		
Naididae		
Indeterminate	8	
Tubificidae		
Indeterminate	60	
Lumbriculida		
Lumbriculidae		
Indeterminate	1	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	1	
Insecta		
Ephemeroptera		
Baetidae		
Cloeon sp.	2	
Diptera		
Chironomidae		
Tanypodinae		
Ablabesmyia mallochi	1	
Orthocladiinae		
Indeterminate	1	
Chironominae		
Indeterminate	1	
Chironomus sp.	3	
Cryptochironomus sp.	1	
Tanytarsus sp.	2	
Tanytarsus guerlus	5	
Tribelos sp.	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	1	

DATE : June 11, 1986
LOCATION: Station 5-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9375

REMARKS : Raining. Substrate type: silt, sand.

Organism	Number	Remarks
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
ANNELIDA		
Oligochaeta		
Indeterminate	19	
Haplotaxida		
Naididae		
Indeterminate	6	
Tubificidae		
Indeterminate	38	
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Indeterminate	1	
Chironominae		
Indeterminate	1	
Chironomus sp.	1	
Cryptochironomus sp.	1	
Lenziella sp.	1	
Parachironomus sp.	1	
Tanytarsus sp.	8	
Tanytarsus guerlus	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	3	

DATE : June 11, 1986
LOCATION: Station 5-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9376

REMARKS : Raining. Substrate type: silt, sand.

Organism	Number	Remarks
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
ANNELIDA		
Oligochaeta		
Indeterminate	7	
Haplotaxida		
Naididae		
Indeterminate	2	
Tubificidae		
Indeterminate	40	
ARTHROPODA		
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	1	
Diptera		
Chironomidae		
Indeterminate	1	
Tanypodinae		
Procladius sp.	1	
Chironominae		
Axarus sp.	1	
Chironomus sp.	1	
Polypedilum nr. scalaenum	1	
Tanytarsus sp.	2	
Tanytarsus guerlus	2	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	1	

DATE : June 11, 1986
LOCATION: Station 4-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9377

REMARKS : Not raining. Substrate type: sand, organic matter. 2 jars.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
Plumatellidae		
Plumatella sp.		light
ANNELIDA		
Oligochaeta		
Haplotaxida		
Naididae		
Indeterminate	68	
Tubificidae		
Indeterminate	125	
ARTHROPODA		
Insecta		
Trichoptera		
Leptoceridae		
Ceraclea sp.	1	
Oecetis sp.	1	
Diptera		
Indeterminate	1	
Chironomidae		
Indeterminate	7	
Orthocladiinae		
Indeterminate	1	
Psectrocladius sp.	4	
Chironominae		
Cryptochironomus sp.	8	
Cryptotendipes sp.	3	
Dicrotendipes neomodestus	4	
Harnischia sp.	5	
Paracladopelma longanae	1	
Polypedilum nr. scalaenum	1	
Pseudochironomus sp.	1	
Heleidae		
Indeterminate	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	21	

DATE : June 11, 1986
LOCATION: Station 4-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9378

REMARKS : Not raining. Substrate type: sand, organic matter. 2 jars.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Indeterminate	6	
Haplotaxida		
Naididae		
Indeterminate	63	
Tubificidae		
Indeterminate	135	
ARTHROPODA		
Crustacea		
Ostracoda		
Indeterminate	5	
Insecta		
Ephemeroptera		
Caenidae		
Caenis sp.	5	
Ephemeridae		
Hexagenia limbata	2	
Odonata		
Gomphidae		
Stylurus sp.	1	
Trichoptera		
Leptoceridae		
Oecetis sp.	6	
Polycentropodidae		
Indeterminate	1	
Diptera		
Chironomidae		
Indeterminate	4	
Tanypodinae		
Procladius sp.	4	
Orthocladiinae		
Indeterminate	1	
Chironominae		
Chironomus sp.	1	
Cryptochironomus sp.	4	
Cryptotendipes sp.	2	
Dicrotendipes neomodestus	13	
Harnischia sp.	3	
Pagastiella sp.	3	
Pseudochironomus sp.	1	
Tanytarsus sp.	1	
Heleidae		
Indeterminate	5	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	16	
Sphaerium sp.	1	

DATE : June 11, 1986
LOCATION: Station 4-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9379

REMARKS : Not raining. Substrate type: sand, organic matter. 2 jars.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	59	
Haplotaxida		
Naididae		
Indeterminate	91	
Tubificidae		
Indeterminate	134	
ARTHROPODA		
Crustacea		
Ostracoda		
Indeterminate	3	
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	1	
Trichoptera		
Leptoceridae		
Ceraclea sp.	1	
Oecetis sp.	4	
Diptera		
Chironomidae		
Indeterminate	3	
Tanypodinae		
Indeterminate	1	
Procladius sp.	1	
Thienemannimyia sp.	1	
Orthocladiinae		
Corynoneura sp.	1	
Chironominae		
Indeterminate	2	
Dicrotendipes sp.	1	
Dicrotendipes neomodestus	11	
Endochironomus sp.	1	
Endochironomus nigricans	2	
Glyptotendipes sp.	69	
Micropsectra sp.	7	
Parachironomus sp.	1	
Paratanytarsus sp.	3	
Polypedilum convictum	2	
Pseudochironomus sp.	1	
Rheotanytarsus sp.	3	
Heleidae		
Indeterminate	7	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	14	

DATE : June 11, 1986
LOCATION: Station 4-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9380

REMARKS : Overcast, not raining. Substrate type: sand, silt.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Haplotaxida		
Tubificidae		
Indeterminate	37	
Branchiura sowerbyi	1	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	1	
Insecta		
Ephemeroptera		
Baetidae		
Cloeon sp.	1	
Trichoptera		
Leptoceridae		
Ceraclea sp.	1	
Diptera		
Chironomidae		
Indeterminate	4	
Chironominae		
Chironomus sp.	2	
Cryptochironomus sp.	1	
Dicrotendipes neomodestus	1	
Pseudochironomus sp.	1	
Tanytarsus sp.	2	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	2	

DATE : June 11, 1986
LOCATION: Station 4-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9381

REMARKS : Overcast, not raining. Substrate type: sand, silt.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	11	
Haplotaxida		
Naididae		
Indeterminate	2	
Tubificidae		
Indeterminate	44	
ARTHROPODA		
Insecta		
Ephemeroptera		
Baetidae		
Cloeon sp.	1	
Diptera		
Chironomidae		
Indeterminate	1	
Chironominae		
Tanytarsus sp.	1	
Tanytarsus guerlus	3	

DATE : June 11, 1986
LOCATION: Station 4-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9382

REMARKS : Overcast, not raining. Substrate type: sand, silt.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Haplotaxida		
Naididae		
Indeterminate	1	
Tubificidae		
Indeterminate	28	
ARTHROPODA		
Insecta		
Ephemeroptera		
Baetidae		
Cloeon sp.	1	
Diptera		
Chironomidae		
Indeterminate	6	
Tanypodinae		
Djalmabatista sp.	1	
Chironominae		
Polypedilum nr. scalaenum	1	
Stempellinella sp.	1	
Tanytarsus guerlus	3	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	1	

DATE : June 11, 1986
LOCATION: Station 4-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9383

REMARKS : Overcast, not raining. Substrate type: sand, silt.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	2	
Haplotaxida		
Naididae		
Indeterminate	66	
Tubificidae		
Indeterminate	221	
Branchiura sowerbyi	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Baetidae		
Cloeon sp.	3	
Polymitarcidae		
Ephoron sp.	2	
Trichoptera		
Leptoceridae		
Ceraclea sp.	1	
Diptera		
Chironomidae		
Indeterminate	7	
Orthocladiinae		
Indeterminate	2	
Nanocladius sp.	2	
Psectrocladius sp.	1	
Chironominae		
Axarus sp.	1	
Cryptochironomus sp.	1	
Cryptotendipes sp.	1	
Demicryptochironomus sp.	1	
Dicrotendipes sp.	3	
Lenziella sp.	2	
Pagastiella sp.	12	
Paratanytarsus sp.	1	
Polypedilum nr. scalaenum	7	
Stempellinella sp.	2	
Tanytarsus sp.	3	
Tanytarsus guerlus	6	
Heleidae		
Indeterminate	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	11	
Sphaerium sp.	1	

DATE : June 11, 1986
LOCATION: Station 4-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9384

REMARKS : Overcast, not raining. Substrate type: sand, silt.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	406	
Haplotaxida		
Naididae		
Indeterminate	24	
Tubificidae		
Branchiura sowerbyi	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Caenidae		
Caenis sp.	1	
Coleoptera		
Elmidae		
Dubiraphia sp.	1	
Optioservus sp.	1	
Diptera		
Chironomidae		
Indeterminate	5	
Orthocladiinae		
Indeterminate	1	
Chironominae		
Cryptochironomus sp.	4	
Cryptotendipes sp.	2	
Dicrotendipes sp.	1	
Micropsectra sp.	2	
Pagastiella sp.	2	
Polypedilum nr. scalaenum	1	
Stempellinella sp.	2	
Tanytarsus sp.	5	
Tanytarsus guerlus	5	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	8	

DATE : June 11, 1986
LOCATION: Station 4-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9385

REMARKS : Overcast, not raining. Substrate type: sand, silt.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	84	
Haplotaxida		
Naididae		
Indeterminate	1	
Tubificidae		
Indeterminate	27	
Branchiura sowerbyi	1	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	1	
Insecta		
Diptera		
Chironomidae		
Indeterminate	1	
Tanypodinae		
Procladius sp.	1	
Orthocladiinae		
Indeterminate	1	
Psectrocladius sp.	3	
Chironominae		
Indeterminate	1	
Tanytarsus sp.	3	
Tanytarsus guerlus	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Musculium sp.	1	
Pisidium sp.	5	

DATE : June 12, 1986
LOCATION: Station 3-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9386

REMARKS : Raining. Substrate type: rock.

Organism	Number	Remarks
ARTHROPODA		
Crustacea		
Cladocera		
Sididae		
Indeterminate	1	
Insecta		
Ephemeroptera		
Baetidae		
Cloeon sp.	5	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	2	

DATE : June 12, 1986
LOCATION: Station 3-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9387

REMARKS : Raining. Substrate type: rock.

Organism	Number	Remarks
ARTHROPODA		
Crustacea		
Cladocera		
Sididae		
Indeterminate	1	
Insecta		
Ephemeroptera		
Baetidae		
Cloeon sp.	1	

DATE : June 12, 1986
LOCATION: Station 3-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9388

REMARKS : Raining. Substrate type: rock.

Organism	Number	Remarks
ARTHROPODA		
Insecta		
Ephemeroptera		
Baetidae		
Cloeon sp.	3	
Trichoptera		
Leptoceridae		
Ceraclea sp.	1	

DATE : June 12, 1986
LOCATION: Station 3-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9389

REMARKS : Raining. Substrate type: rock.

Organism	Number	Remarks
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light

DATE : June 12, 1986
LOCATION: Station 3-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9390

REMARKS : Raining. Substrate type: rock.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Indeterminate	1	
ANNELIDA		
Oligochaeta		
Indeterminate	1	
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Indeterminate	1	
Orthocladiinae		
Indeterminate	1	
Chironominae		
Tanytarsus guerlus	1	

DATE : June 12, 1986
LOCATION: Station 3-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9391

REMARKS : Raining. Substrate type: rock.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Indeterminate	1	
ARTHROPODA		
Crustacea		
Cladocera		
Sididae		
Indeterminate	1	
Amphipoda		
Gammaridae		
Indeterminate	1	

DATE : June 12, 1986
LOCATION: Station 3-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9392

REMARKS : Raining. Substrate type: silt, organic matter.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	22	
Haplotaxida		
Tubificidae		
Indeterminate	9	
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Orthocladiinae		
Cricotopus sp.	1	
Chironominae		
Phaenopsectra sp.	2	

DATE : June 12, 1986
LOCATION: Station 3-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9393

REMARKS : Raining. Substrate type: silt, organic matter.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Indeterminate	10	
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Indeterminate	4	
Chironominae		
Nilothauma sp.	1	
Phaenopsectra sp.	1	
Polypedilum convictum	1	
Polypedilum nr. scalaenum	1	

DATE : June 12, 1986
LOCATION: Station 3-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9394

REMARKS : Raining. Substrate type: silt, organic matter.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	25	
Haplotaxida		
Naididae		
Indeterminate	5	
Tubificidae		
Indeterminate	2	
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Indeterminate	4	
Tanypodinae		
Procladius sp.	1	
Orthocladiinae		
Indeterminate	1	
Cricotopus bicinctus	1	
Chironominae		
Chironomus sp.	1	
Phaenopsectra sp.	3	
Phaenopsectra dyari	1	
Polypedilum nr. scalaenum	1	
Rheotanytarsus sp.	1	
Tanytarsus sp.	2	
Tanytarsus guerlus	1	
Tribelos sp.	1	
Heleidae		
Indeterminate	1	

DATE : June 12, 1986
LOCATION: Station 2-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9395

REMARKS : Raining. Substrate type: rock.

Organism	Number	Remarks
PORIFERA		
Demospongea		
Haplosclerina		
Spongillidae		
Indeterminate		moderate
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Indeterminate	1	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	1	
Insecta		
Ephemeroptera		
Heptageniidae		
Stenonema sp.	1	
Neuroptera		
Sisyridae		
Sisyra sp.	1	
Trichoptera		
Hydropsychidae		
Cheumatopsyche sp.	1	
Diptera		
Indeterminate	1	

DATE : June 12, 1986
LOCATION: Station 2-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9396

REMARKS : Raining. Substrate type: rock.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	2	
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
ARTHROPODA		
Insecta		
Ephemeroptera		
Indeterminate	1	
Heptageniidae		
Stenonema sp.	1	
Trichoptera		
Hydropsychidae		
Cheumatopsyche sp.	2	
Leptoceridae		
Ceraclea sp.	3	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	1	

DATE : June 12, 1986
LOCATION: Station 2-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9397

REMARKS : Raining. Substrate type: rock.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Indeterminate	1	
ARTHROPODA		
Crustacea		
Cladocera		
Sididae		
Indeterminate	1	
Insecta		
Plecoptera		
Perlidae		
Indeterminate	1	
Ephemeroptera		
Ephemerellidae		
Eurylophella sp.	1	
Trichoptera		
Hydropsychidae		
Indeterminate	1	
Leptoceridae		
Oecetis sp.	3	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	1	

DATE : June 12, 1986
LOCATION: Station 2-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9398

REMARKS : Raining. Substrate type: rock, organic matter.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	2	
ARTHROPODA		
Insecta		
Ephemeroptera		
Baetidae		
Baetis sp.	1	
Trichoptera		
Leptoceridae		
Ceraclea sp.	1	
Diptera		
Chironomidae		
Tanypodinae		
Thienemannimyia sp.	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Sphaerium sp.	2	

DATE : June 12, 1986
LOCATION: Station 2-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9399

REMARKS : Raining. Substrate type: rock, organic matter.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	1	
Haplotaxida		
Naididae		
Indeterminate	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Baetidae		
Baetis sp.	1	
Trichoptera		
Leptoceridae		
Ceraclea sp.	4	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Sphaerium sp.	2	

DATE : June 12, 1986
LOCATION: Station 2-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9400

REMARKS : Raining. Substrate type: rock, organic matter.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	3	
ARTHROPODA		
Insecta		
Ephemeroptera		
Heptageniidae		
Indeterminate	1	
Trichoptera		
Leptoceridae		
Ceraclea sp.	1	
Oecetis sp.	5	
Diptera		
Chironomidae		
Orthocladiinae		
Indeterminate	1	
Empididae		
Hemerodromia sp.	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Sphaerium sp.	4	
Unionidae		
Indeterminate	1	

DATE : June 12, 1986
LOCATION: Station 2-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9401

REMARKS : Raining. Substrate type: rock, organic matter.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	3	
ARTHROPODA		
Insecta		
Ephemeroptera		
Baetidae		
Cloeon sp.	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	1	

DATE : June 12, 1986
LOCATION: Station 2-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9402

REMARKS : Raining. Substrate type: rock, organic matter.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Heptageniidae		
Indeterminate	1	
Nixe sp.	3	
Trichoptera		
Leptoceridae		
Ceraclea sp.	1	
Oecetis sp.	1	

DATE : June 12, 1986
LOCATION: Station 2-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9403

REMARKS : Raining. Substrate type: rock, organic matter.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Haplotaxida		
Naididae		
Indeterminate	1	
Lumbriculida		
Lumbriculidae		
Indeterminate	2	
ARTHROPODA		
Insecta		
Ephemeroptera		
Baetidae		
Cloeon sp.	1	
Pseudocloeon sp.	1	
Heptageniidae		
Heptagenia sp.	1	
Trichoptera		
Leptoceridae		
Ceraclea sp.	2	

DATE : August 13, 1986
LOCATION: Station 2-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9913

REMARKS : Temp-high 70's-low 80's, cloud cover 20%, calm, fairly humid.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	2	
ARTHROPODA		
Insecta		
Trichoptera		
Hydropsychidae		
Indeterminate	5	
Hydropsyche sp.	1	
Leptoceridae		
Ceraclea sp.	1	
Diptera		
Chironomidae		
Chironominae		
Glyptotendipes sp.	2	
Micropsectra sp.	1	
Rheotanytarsus sp.	1	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	1	

DATE : August 13, 1986
LOCATION: Station 2-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9914

REMARKS : Temp-high 70's-low 80's, cloud cover 20%, calm, fairly humid.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	3	
ARTHROPODA		
Insecta		
Trichoptera		
Hydropsychidae		
Indeterminate	8	
Macronema sp.	1	
Leptoceridae		
Oecetis sp.	1	
Diptera		
Chironomidae		
Indeterminate	1	
Empididae		
Indeterminate	1	

DATE : August 13, 1986
LOCATION: Station 2-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9915

REMARKS : Temp-high 70's-low 80's, cloud cover 20%, calm, fairly humid.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	19	
ARTHROPODA		
Insecta		
Ephemeroptera		
Tricorythidae		
Tricorythodes sp.	1	
Trichoptera		
Hydropsychidae		
Indeterminate	1	
Leptoceridae		
Indeterminate	1	
Ceraclea sp.	1	
Diptera		
Chironomidae		
Orthocladiinae		
Nanocladius sp.	1	

DATE : August 13, 1986
LOCATION: Station 2-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9916

REMARKS : Temp-high 70's-low 80's, cloud cover 20%, calm, fairly humid.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Indeterminate	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Sphaerium sp.	3	

DATE : August 13, 1986
LOCATION: Station 2-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9917

REMARKS : Temp-high 70's-low 80's, cloud cover 20%, calm, fairly humid.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	2	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	1	

DATE : August 13, 1986
LOCATION: Station 2-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9918

REMARKS : Temp-high 70's-low 80's, cloud cover 20%, calm, fairly humid.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	2	
ARTHROPODA		
Insecta		
Ephemeroptera		
Heptageniidae		
Indeterminate	2	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	1	

DATE : August 13, 1986
LOCATION: Station 2-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9919

REMARKS : Temp-high 70's-low 80's, cloud cover 20%, calm, fairly humid.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	11	
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ARTHROPODA		
Insecta		
Ephemeroptera		
Tricorythidae		
Tricorythodes sp.	1	
Trichoptera		
Hydropsychidae		
Indeterminate	2	
Lepidostomatidae		
Indeterminate	1	
Diptera		
Chironomidae		
Chironominae		
Rheotanytarsus sp.	1	

DATE : August 13, 1986
LOCATION: Station 2-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9920

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	7	
ARTHROPODA		
Insecta		
Ephemeroptera		
Tricorythidae		
Tricorythodes sp.	1	
Trichoptera		
Hydropsychidae		
Indeterminate	1	
Cheumatopsyche sp.	1	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	1	
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	1	
Sphaerium sp.	1	

DATE : August 13, 1986
LOCATION: Station 2-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9921

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	9	
ANNELIDA		
Oligochaeta		
Indeterminate	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Tricorythidae		
Tricorythodes sp.	1	
Trichoptera		
Hydropsychidae		
Indeterminate	1	
Leptoceridae		
Oecetis sp.	1	
Diptera		
Chironomidae		
Chironominae		
Glyptotendipes sp.	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	1	

DATE : August 13, 1986
LOCATION: Station 2-Vermont
METHOD : Cage sampler, 62 Days
SAMPLE : 9922

REMARKS : Two jars. Orange tagged cage (downstream one) lost when line broke. Replaced. Substrate type: organic debris.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	12	
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Indeterminate	29	
Dugesia tigrina	119	
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
Lophopodidae		
Lophopodella carteri		light
ANNELIDA		
Oligochaeta		
Indeterminate	10	
Haplotaxida		
Naididae		
Indeterminate	5	
Tubificidae		
Indeterminate	8	
ARTHROPODA		
Crustacea		
Isopoda		
Asellidae		
Asellus sp.	1	
Decapoda		
Cambaridae		
Cambarinae		
Indeterminate	5	
Insecta		
Plecoptera		
Perlidae		
Acroneuria sp.	2	
Ephemeroptera		
Heptageniidae		
Indeterminate	12	
Stenacron sp.	17	
Stenonema sp.	2	
Tricorythidae		
Tricorythodes sp.	34	
Odonata		
Aeschnidae		
Boyeria sp.	1	
Coenagrionidae		
Indeterminate	1	
Trichoptera		
Indeterminate	1	
Hydropsychidae		
Indeterminate	668	
Cheumatopsyche sp.	147	

(CONTINUED)

DATE : August 13, 1986
LOCATION: Station 2-Vermont
METHOD : Cage sampler, 62 Days
SAMPLE : 9922

Organism	Number	Remarks
ARTHROPODA		
Insecta		
Trichoptera		
Hydropsychidae		
Hydropsyche sp.	18	
Macronema sp.	12	
Leptoceridae		
Indeterminate	1	
Ceraclea sp.	5	
Oecetis sp.	2	
Triaenodes sp.	1	
Polycentropodidae		
Indeterminate	1	
Cyrnellus sp.	4	
Neureclipsis sp.	32	
Diptera		
Chironomidae		
Indeterminate	49	
Empididae		
Hemerodromia sp.	1	
Simuliidae		
Indeterminate	1	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	4	
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Sphaerium sp.	1	

DATE : August 13, 1986
LOCATION: Station 3-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9923

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Plumatellidae		
Plumatella sp.		light
ARTHROPODA		
Insecta		
Trichoptera		
Indeterminate	1	
Leptoceridae		
Oecetis sp.	1	

DATE : August 13, 1986
LOCATION: Station 3-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9924

Organism	Number	Remarks
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Indeterminate	1	

DATE : August 13, 1986
LOCATION: Station 3-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9925

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Plumatellidae		
Plumatella sp.		light
ARTHROPODA		
Insecta		
Trichoptera		
Leptoceridae		
Ceraclea sp.	1	
Nectopsyche sp.	1	

DATE : August 13, 1986
LOCATION: Station 3-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9926

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Indeterminate	2	
ARTHROPODA		
Insecta		
Trichoptera		
Hydropsychidae		
Indeterminate	9	
Cheumatopsyche sp.	1	
Hydropsyche sp.	5	
Macronema sp.	3	
Leptoceridae		
Ceraclea sp.	1	
Oecetis sp.	1	
Diptera		
Chironomidae		
Tanypodinae		
Thienemannimyia sp.	1	
Orthocladiinae		
Tvetenia discoloripes	1	

DATE : August 13, 1986
LOCATION: Station 3-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9927

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	1	
ARTHROPODA		
Insecta		
Trichoptera		
Hydropsychidae		
Indeterminate	17	
Hydropsyche sp.	1	
Leptoceridae		
Ceraclea sp.	1	
Diptera		
Chironomidae		
Chironominae		
Rheotanytarsus sp.	1	
Simuliidae		
Indeterminate	1	

DATE : August 13, 1986
LOCATION: Station 3-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9928

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	2	
ARTHROPODA		
Insecta		
Trichoptera		
Hydropsychidae		
Indeterminate	1	

DATE : August 13, 1986
LOCATION: Station 3-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9929

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	4	
ARTHROPODA		
Insecta		
Trichoptera		
Hydropsychidae		
Indeterminate	1	
Diptera		
Chironomidae		
Orthocladiinae		
Nanocladius sp.	1	

DATE : August 13, 1986
LOCATION: Station 3-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9930

Organism	Number	Remarks
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Indeterminate	1	

DATE : August 13, 1986
LOCATION: Station 3-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9931

NO ORGANISMS FOUND

DATE : August 13, 1986
LOCATION: Station 3-Vermont
METHOD : Cage sampler, 62 Days
SAMPLE : 9932

REMARKS : Orange tagged cage taken. Substrate type: organic debris.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	23	
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Indeterminate	42	
Dugesia tigrina	57	
NEMATODA		
Indeterminate	1	
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		moderate
Phylactolaemata		
Plumatellidae		
Plumatella sp.		moderate
ANNELIDA		
Oligochaeta		
Indeterminate	29	
Haplotaxida		
Naididae		
Indeterminate	8	
ARTHROPODA		
Crustacea		
Cladocera		
Indeterminate	13	
Amphipoda		
Indeterminate	3	
Decapoda		
Cambaridae		
Indeterminate	1	
Insecta		
Plecoptera		
Perlidae		
Acroneuria sp.	3	
Ephemeroptera		
Baetiscidae		
Baetisca sp.	1	
Baetidae		
Cloeon sp.	1	
Heptageniidae		
Indeterminate	9	
Stenonema sp.	3	
Siphlonuridae		
Isonychia sp.	1	
Odonata		
Aeschnidae		
Boyeria sp.	3	
Corduliidae		
Indeterminate	1	
Libellulidae		
Indeterminate	1	
Macromiidae		
Macromia sp.	1	

(CONTINUED)

DATE : August 13, 1986
LOCATION: Station 3-Vermont
METHOD : Cage sampler, 62 Days
SAMPLE : 9932

Organism	Number	Remarks
ARTHROPODA		
Insecta		
Trichoptera		
Hydropsychidae		
Indeterminate	1265	
Cheumatopsyche sp.	282	
Hydropsyche sp.	29	
Macronema sp.	42	
Hydroptilidae		
Indeterminate	2	
Leptoceridae		
Ceraclea sp.	1	
Oecetis sp.	3	
Polycentropodidae		
Indeterminate	9	
Neureclipsis sp.	4	
Polycentropus sp.	2	
Coleoptera		
Elmidae		
Indeterminate	1	
Gyrinidae		
Dineutes sp.	1	
Diptera		
Anthomyiidae		
Indeterminate	1	
Chironomidae		
Indeterminate	346	
Tanypodinae		
Indeterminate	84	
Coelotanypus sp.	1	
Labrundinia sp.	1	
Thienemannimyia sp.	25	
Orthocladiinae		
Indeterminate	8	
Cricotopus sp.	4	
Parametriocnemus lundbecki	8	
Tvetenia discoloripes	8	
Chironominae		
Indeterminate	166	
Chironomus sp.	4	
Dicrotendipes sp.	4	
Dicrotendipes neomodestus	4	
Glyptotendipes sp.	726	
Micropsectra sp.	40	
Phaenopsectra sp.	4	
Polypedilum sp.	16	
Polypedilum convictum	4	
Polypedilum illinoense	4	
Rheotanytarsus sp.	284	
Tanytarsus sp.	20	
Tanytarsus glabrescens	8	
Tanytarsus guerlus	16	
Zavrelia sp.	4	
Empididae		
Hemerodromia sp.	9	
MOLLUSCA		
Gastropoda		
Indeterminate	2	
Megagastropoda		
Hydrobiidae		
Amnicola sp.	10	

(CONTINUED)

DATE : August 13, 1986
LOCATION: Station 3-Vermont
METHOD : Cage sampler, 62 Days
SAMPLE : 9932

Organism	Number	Remarks
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	1	
Pisidium sp.	1	

DATE : August 14, 1986
LOCATION: Station 4-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9933

REMARKS : Clear, sunny, temp-70's. Substrate type: organic debris and sand.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Plumatellidae		
Plumatella sp.		light
ANNELIDA		
Oligochaeta		
Indeterminate	16	
ARTHROPODA		
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	2	
Polymitarcidae		
Ephoron sp.	2	
Diptera		
Chironomidae		
Indeterminate	1	
Chironominae		
Glyptotendipes sp.	1	
Harnischia sp.	1	
Polypedilum nr. scalaenum	4	
MOLLUSCA		
Gastropoda		
Indeterminate	1	
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	3	

DATE : August 14, 1986
LOCATION: Station 4-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9934

REMARKS : Clear, sunny, temp-70's. Substrate type: organic debris.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Plumatellidae		
Plumatella sp.		moderate
ANNELIDA		
Oligochaeta		
Indeterminate	7	
Haplotaxida		
Naididae		
Paranais sp.	3	
Tubificidae		
Indeterminate	9	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	1	
Insecta		
Ephemeroptera		
Polymitarcidae		
Ephoron sp.	1	
Diptera		
Chironomidae		
Prodiamesinae		
Monodiamesa sp.	1	
Chironominae		
Indeterminate	2	
Chironomus sp.	1	
Cryptochironomus sp.	1	
Demicryptochironomus sp.	2	
Lenziella sp.	2	
Polypedilum nr. scalaenum	3	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	3	

DATE : August 14, 1986
LOCATION: Station 4-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9935

REMARKS : Clear, sunny, temp-70's.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
Plumatellidae		
Plumatella sp.		light
ANNELIDA		
Oligochaeta		
Indeterminate	16	
Haplotaxida		
Naididae		
Indeterminate	4	
Tubificidae		
Indeterminate	21	
Branchiura sowerbyi	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	1	
Diptera		
Chironomidae		
Indeterminate	2	
Prodiamesinae		
Monodiamesa sp.	5	
Chironominae		
Cryptochironomus sp.	1	
Lauterborniella sp.	2	
Polypedilum sp.	1	
Polypedilum nr. scalaenum	2	
Tanytarsus sp.	5	
Tanytarsus guerlus	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	3	

DATE : August 14, 1986
LOCATION: Station 4-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9936

REMARKS : Clear, sunny, temp-70's.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	1	
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Haplotaxida		
Tubificidae		
Indeterminate	26	
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Indeterminate	1	
Chironominae		
Lenziella sp.	1	
Paralauterborniella sp.	1	
Tanytarsus glabrescens	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	58	

DATE : August 14, 1986
LOCATION: Station 4-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9937

REMARKS : Clear, sunny, temp-70's.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	2	
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
Plumatellidae		
Plumatella sp.		light
ANNELIDA		
Oligochaeta		
Indeterminate	2	
Haplotaxida		
Tubificidae		
Indeterminate	11	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	1	
Insecta		
Ephemeroptera		
Polymitarcidae		
Ephoron sp.	1	
Diptera		
Indeterminate	1	
Chironomidae		
Indeterminate	3	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	22	

DATE : August 14, 1986
LOCATION: Station 4-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9938

REMARKS : Clear, sunny, temp-70's.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		moderate
ANNELIDA		
Oligochaeta		
Indeterminate	8	
Haplotaxida		
Tubificidae		
Indeterminate	27	
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Chironominae		
Tanytarsus sp.	2	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	30	

(CONTINUED)

DATE : August 14, 1986
LOCATION: Station 4-Vermont
METHOD : Cage sampler, 64 Days
SAMPLE : 9942

Organism	Number	Remarks
ARTHROPODA		
Insecta		
Trichoptera		
Indeterminate	1	
Hydropsychidae		
Indeterminate	23	
Cheumatopsyche sp.	14	
Hydropsyche sp.	1	
Macronema sp.	1	
Leptoceridae		
Nectopsyche sp.	2	
Oecetis sp.	1	
Polycentropodidae		
Indeterminate	1	
Neureclipsis sp.	4	
Diptera		
Chironomidae		
Indeterminate	16	
Tanypodinae		
Procladius sp.	12	
Orthocladiinae		
Psectrocladius sp.	1	
Chironominae		
Chironomus sp.	2	
Cryptochironomus sp.	2	
Dicrotendipes neomodestus	1	
Harnischia sp.	3	
Pagastiella sp.	1	
MOLLUSCA		
Gastropoda		
Bassommatophora		
Ancylidae		
Indeterminate	1	
Physidae		
Physa sp.	1	

DATE : August 14, 1986
LOCATION: Station 5-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9943

REMARKS : Clear, sunny, temp-70's.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Indeterminate	1	
Haplotaxida		
Tubificidae		
Indeterminate	24	
ARTHROPODA		
Insecta		
Ephemeroptera		
Indeterminate	1	
Caenidae		
Caenis sp.	1	
Diptera		
Chironomidae		
Indeterminate	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	22	

DATE : August 14, 1986
LOCATION: Station 5-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9944

REMARKS : Clear, sunny, temp-70's. Substrate type: organic debris, sand.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	1	
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	1	
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Indeterminate	94	
Haplotaxida		
Naididae		
Indeterminate	7	
Pristina sp.	20	
Stylaria lacustris	1	
Tubificidae		
Indeterminate	42	
Hirudinea		
Rhynchobdellida		
Glossiphonidae		
Indeterminate	3	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	1	
Crustacea		
Cladocera		
Indeterminate	6	
Ostracoda		
Indeterminate	1	
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	13	
Heptageniidae		
Stenonema sp.	2	
Trichoptera		
Leptoceridae		
Indeterminate	1	
Oecetis sp.	2	
Polycentropodidae		
Phylocentropus sp.	12	
Diptera		
Chironomidae		
Indeterminate	1	
Tanypodinae		
Procladius sp.	2	
Prodiamesinae		
Monodiamesa sp.	7	
Chironominae		
Indeterminate	5	
Chironomus sp.	2	

(CONTINUED)

DATE : August 14, 1986
LOCATION: Station 5-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9944

Organism	Number	Remarks
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Chironominae		
Cryptochironomus sp.	1	
Demicryptochironomus sp.	2	
Lenziella sp.	1	
Paralauterborniella sp.	1	
Polypedilum nr. scalaenum	2	
Tanytarsus sp.	12	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	173	
Sphaerium sp.	3	

DATE : August 14, 1986
LOCATION: Station 5-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9945

REMARKS : Clear, sunny, temp-70's.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Plumatellidae		
Plumatella sp.		light
ANNELIDA		
Oligochaeta		
Indeterminate	3	
Haplotaxida		
Naididae		
Indeterminate	1	
Tubificidae		
Indeterminate	26	
Hirudinea		
Rhynchobdellida		
Glossiphonidae		
Indeterminate	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	1	
Trichoptera		
Leptoceridae		
Oecetis sp.	1	
Polycentropodidae		
Phylocentropus sp.	2	
Diptera		
Chironomidae		
Chironominae		
Chironomus sp.	1	
Lenziella sp.	1	
Nilothauma sp.	1	
Phaenopsectra sp.	2	
Pseudochironomus sp.	1	
Tanytarsus sp.	5	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	40	
Sphaerium sp.	1	

DATE : August 14, 1986
LOCATION: Station 5-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9946

REMARKS : Clear, sunny, temp-70's.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Indeterminate	2	
Haplotaxida		
Tubificidae		
Indeterminate	5	
Branchiura sowerbyi	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	1	
Trichoptera		
Leptoceridae		
Oecetis sp.	1	
Diptera		
Chironomidae		
Tanypodinae		
Procladius sp.	1	

DATE : August 14, 1986
LOCATION: Station 5-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9947

REMARKS : Clear, sunny, temp-70's.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Plumatellidae		
Plumatella sp.		light
ANNELIDA		
Oligochaeta		
Indeterminate	14	
ARTHROPODA		
Insecta		
Ephemeroptera		
Polymitarcidae		
Ephoron sp.	2	
Diptera		
Chironomidae		
Indeterminate	3	
Tanypodinae		
Indeterminate	1	
Chironominae		
Indeterminate	1	
Robackia sp.	2	

DATE : August 14, 1986
LOCATION: Station 5-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9948

REMARKS : Clear, sunny, temp-70's.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Plumatellidae		
Plumatella sp.		light
ANNELIDA		
Oligochaeta		
Indeterminate	13	
Haplotaxida		
Naididae		
Indeterminate	10	
Tubificidae		
Indeterminate	24	
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Indeterminate	2	
Chironominae		
Cryptochironomus sp.	1	
Demicryptochironomus sp.	3	
Pagastiella sp.	1	
Paralauterborniella sp.	1	
Phaenopsectra sp.	1	
Robackia demeigerei	2	
Tanytarsus sp.	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	31	
Sphaerium sp.	10	

DATE : August 14, 1986
LOCATION: Station 5-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9949

REMARKS : Clear, sunny, temp-70's. Substrate type: organic debris, sand.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	2	
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Indeterminate	22	
Haplotaxida		
Naididae		
Indeterminate	7	
Pristina sp.	6	
Tubificidae		
Indeterminate	103	
Branchiura sowerbyi	7	
Lumbriculida		
Lumbriculidae		
Indeterminate	1	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	1	
Crustacea		
Cladocera		
Indeterminate	1	
Ostracoda		
Indeterminate	1	
Insecta		
Ephemeroptera		
Caenidae		
Caenis sp.	2	
Megaloptera		
Sialidae		
Sialis sp.	1	
Trichoptera		
Leptoceridae		
Oecetis sp.	2	
Polycentropodidae		
Indeterminate	1	
Diptera		
Chironomidae		
Indeterminate	2	
Tanypodinae		
Procladius sp.	2	
Thienemannimyia sp.	1	
Chironominae		
Cryptochironomus sp.	2	
Glyptotendipes sp.	1	
Harnischia sp.	1	
Lenziella sp.	1	
Pagastiella sp.	1	

(CONTINUED)

DATE : August 14, 1986
LOCATION: Station 5-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9949

Organism	Number	Remarks
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Chironominae		
Paracladopelma sp.	1	
Polypedilum nr. scalaenum	8	
Tanytarsus sp.	6	
Tribelos sp.	3	
Heleidae		
Indeterminate	1	
MOLLUSCA		
Gastropoda		
Bassommatophora		
Physidae		
Physa sp.	1	
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	104	

DATE : August 14, 1986
LOCATION: Station 5-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9950

REMARKS : Clear, sunny, temp-70's. Substrate type: organic debris.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	48	
Haplotaxida		
Naididae		
Indeterminate	2	
Pristina sp.	8	
Tubificidae		
Indeterminate	63	
ARTHROPODA		
Insecta		
Ephemeroptera		
Polymitarcidae		
Ephoron sp.	1	
Trichoptera		
Hydropsychidae		
Indeterminate	1	
Leptoceridae		
Nectopsyche sp.	1	
Coleoptera		
Elmidae		
Dubiraphia sp.	1	
Diptera		
Chironomidae		
Tanypodinae		
Procladius sp.	2	
Prodiamesinae		
Monodiamesa sp.	1	
Chironominae		
Indeterminate	1	
Chironomus sp.	1	
Cryptochironomus sp.	1	
Harnischia sp.	1	
Polypedilum nr. scalaenum	1	
Tanytarsus sp.	3	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	35	

DATE : August 14, 1986
LOCATION: Station 5-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 9951

REMARKS : Clear, sunny, temp-70's. Substrate type: organic debris, silt.

Organism	Number	Remarks
NEMATODA		
Indeterminate	1	
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
ANNELIDA		
Oligochaeta		
Indeterminate	24	
Haplotaxida		
Naididae		
Pristina sp.	1	
Tubificidae		
Indeterminate	3	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	3	
Crustacea		
Cladocera		
Indeterminate	2	
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	3	
Megaloptera		
Sialidae		
Sialis sp.	1	
Trichoptera		
Leptoceridae		
Indeterminate	1	
Coleoptera		
Gyrinidae		
Dineutes sp.	1	
Diptera		
Chironomidae		
Indeterminate	1	
Chironominae		
Indeterminate	1	
Axarus sp.	1	
Glyptotendipes sp.	1	
Micropsectra sp.	1	
Phaenopsectra sp.	1	
Pseudochironomus sp.	2	
Tanytarsus sp.	3	
Heleidae		
Indeterminate	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	56	

DATE : August 14, 1986
LOCATION: Station 5-Vermont
METHOD : Cage sampler, 64 Days
SAMPLE : 9952

REMARKS : Clear, sunny, temp-70's. Substrate type: organic debris.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	22	
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	19	
BRYOZOA		
Phylactolaemata		
Plumatellidae		
Plumatella sp.		moderate
ANNELIDA		
Oligochaeta		
Indeterminate	3	
ARTHROPODA		
Crustacea		
Amphipoda		
Indeterminate	5	
Decapoda		
Cambaridae		
Cambarinae		
Indeterminate	7	
Insecta		
Ephemeroptera		
Baetidae		
Cloeon sp.	2	
Heptageniidae		
Indeterminate	1	
Stenacron sp.	1	
Stenonema sp.	5	
Megaloptera		
Sialidae		
Sialis sp.	2	
Trichoptera		
Hydropsychidae		
Indeterminate	3	
Cheumatopsyche sp.	1	
Hydroptilidae		
Indeterminate	1	
Polycentropodidae		
Indeterminate	2	
Neureclipsis sp.	1	
Polycentropus sp.	1	
Diptera		
Chironomidae		
Indeterminate	24	
Tanypodinae		
Indeterminate	1	
Ablabesmyia mallochi	3	
Labrundinia sp.	1	
Chironominae		
Dicrotendipes neomodestus	1	
Endochironomus nigricans	5	
Glyptotendipes sp.	93	
Micropsectra sp.	5	
Nilothauma sp.	1	

(CONTINUED)

DATE : August 14, 1986
LOCATION: Station 5-Vermont
METHOD : Cage sampler, 64 Days
SAMPLE : 9952

Organism	Number	Remarks
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Chironominae		
Paratanytarsus sp.	1	
Polypedilum convictum	3	
Rheotanytarsus sp.	5	
Tanytarsus sp.	4	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	2	

DATE : October 14, 1986
LOCATION: Station 3
METHOD : Cage sampler, 62 Days
SAMPLE : 10365

REMARKS : Substrate type: organic debris.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	42	
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Indeterminate	14	
Dugesia tigrina	54	
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		heavy
Phylactolaemata		
Indeterminate		light
Fredericellidae		
Fredericella sultana		heavy
ANNELIDA		
Oligochaeta		
Indeterminate	39	
Haplotaxida		
Naididae		
Indeterminate	165	
ARTHROPODA		
Crustacea		
Cladocera		
Indeterminate	116	
Amphipoda		
Indeterminate	1	
Gammaridae		
Gammarus sp.	10	
Talitridae		
Hyalella azteca	2	
Insecta		
Plecoptera		
Indeterminate	1	
Ephemeroptera		
Ephemerellidae		
Indeterminate	1	
Heptageniidae		
Indeterminate	7	
Stenonema sp.	7	
Odonata		
Indeterminate	2	
Aeschnidae		
Boyeria sp.	1	
Coenagrionidae		
Indeterminate	1	
Enallagma sp.	7	
Corduliidae		
Neurocordulia sp.	9	
Megaloptera		
Sialidae		
Sialis sp.	1	
Trichoptera		
Hydropsychidae		
Indeterminate	960	

(CONTINUED)

DATE : October 14, 1986
LOCATION: Station 3
METHOD : Cage sampler, 62 Days
SAMPLE : 10365

Organism	Number	Remarks
ARTHROPODA		
Insecta		
Trichoptera		
Hydropsychidae		
Cheumatopsyche sp.	1189	
Hydropsyche sp.	5	
Macronema sp.	3	
Hydroptilidae		
Hydroptilinae		
Hydroptila sp.	3	
Leptoceridae		
Indeterminate	2	
Ceraclea sp.	7	
Oecetis sp.	7	
Polycentropodidae		
Indeterminate	12	
Neureclipsis sp.	77	
Polycentropus sp.	46	
Hymenoptera		
Indeterminate	1	
Coleoptera		
Elmidae		
Indeterminate	1	
Hydrophilidae		
Berosus sp.	1	
Diptera		
Chironomidae		
Indeterminate	203	
Tanypodinae		
Indeterminate	11	
Chironominae		
Indeterminate	358	
Glyptotendipes sp.	102	
Empididae		
Indeterminate	3	
Hemerodromia sp.	2	
Hemiptera		
Aphididae		
Indeterminate	1	
MOLLUSCA		
Gastropoda		
Indeterminate	1	
Bassommatophora		
Lymnaeidae		
Lymnaea sp.	2	
Megagastropoda		
Hydrobiidae		
Amnicola sp.	41	
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	11	
Sphaerium sp.	18	

DATE : October 15, 1986
LOCATION: Station 4-Vermont
METHOD : Cage sampler, 62 Days
SAMPLE : 10432

REMARKS : Partly sunny. Two juvenile Rock Bass found. Substrate type: organic debris.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	5	
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Indeterminate	7	
Dugesia tigrina	89	
ANNELIDA		
Oligochaeta		
Indeterminate	4	
Haplotaxida		
Naididae		
Indeterminate	1	
Pristina sp.	2	
Hirudinea		
Rhynchobdellida		
Glossiphonidae		
Indeterminate	1	
ARTHROPODA		
Crustacea		
Cladocera		
Indeterminate	69	
Isopoda		
Asellidae		
Asellus sp.	2	
Amphipoda		
Indeterminate	26	
Gammaridae		
Gammarus sp.	23	
Talitridae		
Hyalella azteca	14	
Decapoda		
Cambaridae		
Cambarinae		
Indeterminate	3	
Ostracoda		
Indeterminate	3	
Insecta		
Plecoptera		
Perlidae		
Acroneuria sp.	1	
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	1	
Odonata		
Aeschnidae		
Basiaeschna sp.	1	
Megaloptera		
Sialidae		
Sialis sp.	3	
Trichoptera		
Hydropsychidae		
Indeterminate	25	
Cheumatopsyche sp.	24	

(CONTINUED)

DATE : October 15, 1986
LOCATION: Station 4-Vermont
METHOD : Cage sampler, 62 Days
SAMPLE : 10432

Organism	Number	Remarks
ARTHROPODA		
Insecta		
Trichoptera		
Hydroptilidae		
Indeterminate	3	
Hydroptilinae		
Agraylea sp.	2	
Oxyethira sp.	1	
Leptoceridae		
Mystacides sp.	32	
Nectopsyche sp.	3	
Oecetis sp.	12	
Polycentropodidae		
Phylocentropus sp.	2	
Polycentropus sp.	19	
Coleoptera		
Elmidae		
Indeterminate	1	
Diptera		
Chironomidae		
Indeterminate	2	
Tanypodinae		
Indeterminate	1	
Ablabesmyia annulata	1	
Procladius sp.	3	
Thienemannimyia sp.	4	
Orthocladiinae		
Indeterminate	1	
Chironominae		
Dicrotendipes neomodestus	4	
Endochironomus nigricans	1	
Endochironomus subtendens	1	
Glyptotendipes sp.	3	
Polypedilum nr. scalaenum	1	
Tanytarsus sp.	2	
Tribelos sp.	6	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	1	

DATE : October 15, 1986
LOCATION: Station 5-Vermont
METHOD : Cage sampler, 62 Days
SAMPLE : 10433

REMARKS : Partly sunny. Substrate type: organic debris.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	6	
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Indeterminate	15	
Dugesia tigrina	106	
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Indeterminate	2	
Haplotaxida		
Naididae		
Dero sp.	9	
Nais sp.	1	
Pristina sp.	2	
Stylaria lacustris	1	
Hirudinea		
Rhynchobdellida		
Glossiphonidae		
Indeterminate	1	
ARTHROPODA		
Crustacea		
Cladocera		
Indeterminate	108	
Amphipoda		
Indeterminate	2	
Gammaridae		
Gammarus sp.	3	
Talitridae		
Hyalella azteca	1	
Decapoda		
Cambaridae		
Cambarinae		
Indeterminate	8	
Insecta		
Ephemeroptera		
Heptageniidae		
Stenonema sp.	16	
Odonata		
Coenagrionidae		
Indeterminate	1	
Trichoptera		
Hydropsychidae		
Indeterminate	23	
Cheumatopsyche sp.	53	
Hydroptilidae		
Hydroptilinae		
Oxyethira sp.	1	

(CONTINUED)

DATE : October 15, 1986
LOCATION: Station 5-Vermont
METHOD : Cage sampler, 62 Days
SAMPLE : 10433

Organism	Number	Remarks
ARTHROPODA		
Insecta		
Trichoptera		
Leptoceridae		
Indeterminate	1	
Polycentropodidae		
Neureclipsis sp.	18	
Polycentropus sp.	26	
Diptera		
Chironomidae		
Indeterminate	3	
Tanypodinae		
Thienemannimyia sp.	1	
Orthocladiinae		
Psectrocladius sp.	1	
Chironominae		
Indeterminate	1	
Glyptotendipes sp.	56	
Tanytarsus guerlus	1	
Heleidae		
Indeterminate	1	
Hemiptera		
Aphididae		
Indeterminate	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	3	

DATE : October 17, 1986
LOCATION: Station 2-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10346

REMARKS : Overcast. Substrate type: rocks, clam shells.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	19	
ANNELIDA		
Oligochaeta		
Indeterminate	3	
ARTHROPODA		
Crustacea		
Isopoda		
Asellidae		
Asellus sp.	1	
Insecta		
Trichoptera		
Hydropsychidae		
Indeterminate	2	
Cheumatopsyche sp.	4	
Polycentropodidae		
Neureclipsis sp.	2	
Polycentropus sp.	1	
Diptera		
Chironomidae		
Chironominae		
Indeterminate	1	
Rheotanytarsus sp.	1	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	5	
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Sphaerium sp.	1	
Unionidae		
Indeterminate	1	

DATE : October 17, 1986
LOCATION: Station 2-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10347

REMARKS : Overcast. Substrate type: rocks, organic debris.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	3	
ARTHROPODA		
Insecta		
Ephemeroptera		
Heptageniidae		
Indeterminate	1	
Diptera		
Chironomidae		
Chironominae		
Rheotanytarsus sp.	1	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	2	

DATE : October 17, 1986
LOCATION: Station 2-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10348

REMARKS : Overcast. Substrate type: rocks, clam shells.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	10	
ARTHROPODA		
Insecta		
Ephemeroptera		
Heptageniidae		
Stenonema sp.	4	
Trichoptera		
Hydropsychidae		
Cheumatopsyche sp.	4	
Hydropsyche sp.	1	
Leptoceridae		
Oecetis sp.	1	
Polycentropodidae		
Polycentropus sp.	1	
Diptera		
Chironomidae		
Tanypodinae		
Thienemannimyia sp.	1	
Chironominae		
Rheotanytarsus sp.	1	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	1	

DATE : October 17, 1986
LOCATION: Station 2-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10349

REMARKS : Overcast. Substrate type: rocks.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	6	
ARTHROPODA		
Insecta		
Trichoptera		
Hydropsychidae		
Indeterminate	3	
Cheumatopsyche sp.	3	
Lepidostomatidae		
Lepidostoma sp.	1	
Diptera		
Chironomidae		
Chironominae		
Polypedilum sp.	1	

DATE : October 17, 1986
LOCATION: Station 2-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10350

REMARKS : Overcast. Substrate type: rocks, clam shells.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	27	
ARTHROPODA		
Insecta		
Ephemeroptera		
Heptageniidae		
Epeorus sp.	1	
Trichoptera		
Hydropsychidae		
Cheumatopsyche sp.	5	
Diptera		
Chironomidae		
Chironominae		
Indeterminate	15	

DATE : October 17, 1986
LOCATION: Station 2-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10351

REMARKS : Overcast. Substrate type: rocks.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	3	
ANNELIDA		
Oligochaeta		
Indeterminate	2	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Sphaerium sp.	1	

DATE : October 17, 1986
LOCATION: Station 2-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10352

REMARKS : Overcast. Substrate type: rocks.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Indeterminate	2	
Dugesia tigrina	23	
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Haplotaxida		
Naididae		
Indeterminate	3	
Lumbriculida		
Lumbriculidae		
Indeterminate	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Heptageniidae		
Stenonema sp.	2	
Trichoptera		
Indeterminate	1	
Hydropsychidae		
Cheumatopsyche sp.	9	
Polycentropodidae		
Polycentropus sp.	1	
Diptera		
Chironomidae		
Indeterminate	1	
Tanypodinae		
Thienemannimyia sp.	1	
Chironominae		
Rheotanytarsus sp.	2	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	1	
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Sphaerium sp.	5	

DATE : October 17, 1986
LOCATION: Station 2-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10353

REMARKS : Substrate type: rocks.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	5	
ANNELIDA		
Oligochaeta		
Haplotaxida		
Naididae		
Indeterminate	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Heptageniidae		
Stenonema sp.	2	
Trichoptera		
Hydropsychidae		
Cheumatopsyche sp.	3	
Diptera		
Chironomidae		
Orthocladiinae		
Cricotopus bicinctus	1	
Tvetenia discoloripes	2	
Chironominae		
Rheotanytarsus exiguus	3	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	1	
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	1	

DATE : October 17, 1986
LOCATION: Station 2-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10354

REMARKS : Substrate type: rocks.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	3	
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Haplotaxida		
Naididae		
Indeterminate	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Heptageniidae		
Stenonema sp.	3	
Trichoptera		
Hydropsychidae		
Cheumatopsyche sp.	1	
Leptoceridae		
Ceraclea sp.	3	
Polycentropodidae		
Polycentropus sp.	1	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	1	
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	3	
Pisidium sp.	2	

DATE : October 17, 1986
LOCATION: Station 3-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10355

REMARKS : Substrate type: slight organic debris.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	2	
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		heavy
Phylactolaemata		
Fredericellidae		
Fredericella sultana		moderate
Plumatellidae		
Plumatella sp.		light
ANNELIDA		
Oligochaeta		
Indeterminate	1	
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Indeterminate	1	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	2	
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	1	
Pisidium sp.	6	

DATE : October 17, 1986
LOCATION: Station 3-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10356

REMARKS : Substrate type: slight organic debris.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	1	
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		heavy
ANNELIDA		
Oligochaeta		
Indeterminate	2	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	2	
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	2	

DATE : October 17, 1986
LOCATION: Station 3-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10357

REMARKS : Substrate type: rocks.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	1	
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ARTHROPODA		
Crustacea		
Cladocera		
Indeterminate	1	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	2	

DATE : October 17, 1986
LOCATION: Station 3-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10358

REMARKS : Substrate type: no debris.

Organism	Number	Remarks
ARTHROPODA		
Insecta		
Trichoptera		
Hydropsychidae		
Cheumatopsyche sp.	1	

DATE : October 17, 1986
LOCATION: Station 3-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10359

REMARKS : Substrate type: small rocks.

Organism	Number	Remarks
PORIFERA		
Demospongea		
Haplosclerina		
Spongillidae		
Indeterminate		light
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
ARTHROPODA		
Insecta		
Trichoptera		
Hydropsychidae		
Cheumatopsyche sp.	4	

DATE : October 17, 1986
LOCATION: Station 3-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10360

REMARKS : Substrate type: rocks.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	1	
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	3	
ARTHROPODA		
Insecta		
Plecoptera		
Perlidae		
Neoperla sp.	1	
Ephemeroptera		
Heptageniidae		
Stenonema sp.	5	
Trichoptera		
Hydropsychidae		
Cheumatopsyche sp.	12	
Leptoceridae		
Ceraclea sp.	3	
Diptera		
Chironomidae		
Chironominae		
Glyptotendipes sp.	1	

DATE : October 17, 1986
LOCATION: Station 3-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10361

REMARKS : Substrate type: organic debris.

Organism	Number	Remarks
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
ANNELIDA		
Oligochaeta		
Indeterminate	6	
Haplotaxida		
Naididae		
Indeterminate	5	
Pristina sp.	1	
Tubificidae		
Indeterminate	2	
Branchiura sowerbyi	1	
Lumbriculida		
Lumbriculidae		
Indeterminate	4	
Lumbriculus sp.	1	
ARTHROPODA		
Insecta		
Trichoptera		
Leptoceridae		
Oecetis sp.	1	
Polycentropodidae		
Phylocentropus sp.	1	
Diptera		
Chironomidae		
Prodiamesinae		
Monodiamesa sp.	1	
Chironominae		
Cryptochironomus sp.	2	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	19	
Sphaerium sp.	2	

DATE : October 17, 1986
LOCATION: Station 3-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10362

REMARKS : Substrate type: organic debris.

Organism	Number	Remarks
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light

DATE : October 17, 1986
LOCATION: Station 3-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10363

REMARKS : Substrate type: organic debris.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	5	
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Indeterminate	2	
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Indeterminate	3	
ARTHROPODA		
Crustacea		
Cladocera		
Indeterminate	1	
Insecta		
Ephemeroptera		
Heptageniidae		
Stenonema sp.	3	
Trichoptera		
Hydropsychidae		
Indeterminate	8	
Cheumatopsyche sp.	66	
Hydropsyche sp.	2	
Leptoceridae		
Oecetis sp.	2	
Polycentropodidae		
Indeterminate	1	
Diptera		
Chironomidae		
Orthocladiinae		
Indeterminate	1	
Chironominae		
Rheotanytarsus sp.	3	
Stenochironomus sp.	1	

DATE : October 17, 1986
LOCATION: Station 2
METHOD : Cage sampler, 65 Days
SAMPLE : 10364

REMARKS : Substrate type: organic debris.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Indeterminate	13	
Dugesia tigrina	183	
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
ANNELIDA		
Oligochaeta		
Indeterminate	1	
ARTHROPODA		
Crustacea		
Cladocera		
Indeterminate	1	
Amphipoda		
Indeterminate	11	
Gammaridae		
Gammarus sp.	3	
Talitridae		
Hyalella azteca	3	
Decapoda		
Cambaridae		
Cambarinae		
Indeterminate	5	
Insecta		
Plecoptera		
Indeterminate	2	
Ephemeroptera		
Heptageniidae		
Indeterminate	4	
Stenacron sp.	40	
Stenonema sp.	13	
Odonata		
Aeschnidae		
Boyeria sp.	3	
Megaloptera		
Sialidae		
Sialis sp.	1	
Trichoptera		
Hydropsychidae		
Indeterminate	132	
Cheumatopsyche sp.	285	
Macronema sp.	2	
Leptoceridae		
Ceraclea sp.	7	
Oecetis sp.	6	
Triaenodes sp.	1	
Limnephilidae		
Indeterminate	1	
Philopotamidae		
Chimarra sp.	2	
Polycentropodidae		
Indeterminate	1	
Neureclipsis sp.	51	
Polycentropus sp.	18	

(CONTINUED)

DATE : October 17, 1986
LOCATION: Station 2
METHOD : Cage sampler, 65 Days
SAMPLE : 10364

Organism	Number	Remarks
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Indeterminate	13	
Tanypodinae		
Indeterminate	1	
Thienemannimyia sp.	11	
Chironominae		
Indeterminate	21	
Rheotanytarsus exiguus	12	
MOLLUSCA		
Gastropoda		
Megagastropoda		
Hydrobiidae		
Amnicola sp.	1	

DATE : October 21, 1986
LOCATION: Station 5-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10423

REMARKS : Partly cloudy. Substrate type: organic debris.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	2	
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Indeterminate	5	
Haplotaxida		
Naididae		
Indeterminate	1	
Pristina sp.	7	
Tubificidae		
Indeterminate	3	
Branchiura sowerbyi	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	7	
Trichoptera		
Leptoceridae		
Oecetis sp.	1	
Molannidae		
Molanna sp.	3	
Diptera		
Chironomidae		
Chironominae		
Dicrotendipes neomodestus	1	
MOLLUSCA		
Gastropoda		
Bassommatophora		
Physidae		
Physa sp.	1	
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	40	
Sphaerium sp.	11	

DATE : October 21, 1986
LOCATION: Station 5-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10424

REMARKS : Partly cloudy. Substrate type: organic debris.

Organism	Number	Remarks
PORIFERA		
Demospongea		
Haplosclerina		
Spongillidae		
Indeterminate	1	small colony
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	8	
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Haplotaxida		
Tubificidae		
Indeterminate	1	
ARTHROPODA		
Crustacea		
Cladocera		
Indeterminate	1	
Insecta		
Trichoptera		
Leptoceridae		
Oecetis sp.	1	
Diptera		
Chironomidae		
Chironominae		
Glyptotendipes sp.	4	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	9	
Sphaerium sp.	1	

DATE : October 21, 1986
LOCATION: Station 5-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10425

REMARKS : Partly cloudy. Substrate type: organic debris.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Indeterminate	1	
ANNELIDA		
Oligochaeta		
Indeterminate	1	
Haplotaxida		
Naididae		
Indeterminate	2	
Pristina sp.	3	
Tubificidae		
Indeterminate	2	
Hirudinea		
Rhynchobdellida		
Glossiphonidae		
Indeterminate	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	1	
Trichoptera		
Leptoceridae		
Oecetis sp.	1	
MOLLUSCA		
Gastropoda		
Bassommatophora		
Physidae		
Physa sp.	1	
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	2	
Pisidium sp.	13	

DATE : October 21, 1986
LOCATION: Station 5-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10426

REMARKS : Partly cloudy. Substrate type: organic debris.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	22	
Haplotaxida		
Naididae		
Indeterminate	8	
Pristina sp.	7	
Tubificidae		
Branchiura sowerbyi	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	3	
Diptera		
Chironomidae		
Tanypodinae		
Procladius sp.	2	
Chironominae		
Demicryptochironomus sp.	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	8	
Unionidae		
Indeterminate	1	

DATE : October 21, 1986
LOCATION: Station 5-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10427

REMARKS : Partly cloudy. Substrate type: organic debris.

Organism	Number	Remarks
PLATYHELMINTHES		
Turbellaria		
Tricladida		
Planariidae		
Dugesia tigrina	1	
ANNELIDA		
Oligochaeta		
Indeterminate	10	
Haplotaxida		
Naididae		
Indeterminate	3	
Pristina sp.	2	
Tubificidae		
Indeterminate	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	1	
Diptera		
Chironomidae		
Tanypodinae		
Procladius sp.	1	
Chironominae		
Polypedilum nr. scalaenum	2	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	9	

DATE : October 21, 1986
LOCATION: Station 5-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10428

REMARKS : Partly sunny. Substrate type: organic debris.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	6	
Haplotaxida		
Naididae		
Indeterminate	11	
Pristina sp.	10	
ARTHROPODA		
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	2	
Trichoptera		
Leptoceridae		
Oecetis sp.	1	
Diptera		
Chironomidae		
Chironominae		
Cryptochironomus sp.	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	1	
Pisidium sp.	1	

DATE : October 21, 1986
LOCATION: Station 5-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10429

REMARKS : Partly sunny. Substrate type: organic debris.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	1	
ANNELIDA		
Oligochaeta		
Indeterminate	88	
Haplotaxida		
Naididae		
Indeterminate	23	
Pristina sp.	68	
Tubificidae		
Branchiura sowerbyi	18	
ARTHROPODA		
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	5	
Trichoptera		
Leptoceridae		
Oecetis sp.	4	
Diptera		
Chironomidae		
Tanypodinae		
Ablabesmyia annulata	1	
Procladius sp.	4	
Chironominae		
Pseudochironomus sp.	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	10	
Pisidium sp.	52	

DATE : October 21, 1986
LOCATION: Station 5-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10430

REMARKS : Partly sunny. 2 jars. Substrate type: organic debris.

Organism	Number	Remarks
BRYOZOA		
Gymnolaemata		
Ctenostomata		
Paludicellidae		
Paludicella articulata		light
ANNELIDA		
Oligochaeta		
Indeterminate	420	
Haplotaxida		
Naididae		
Indeterminate	48	
Pristina sp.	64	
Tubificidae		
Branchiura sowerbyi	42	
ARTHROPODA		
Crustacea		
Cladocera		
Indeterminate	1	
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	10	
Trichoptera		
Leptoceridae		
Oecetis sp.	3	
Coleoptera		
Elmidae		
Dubiraphia sp.	2	
Diptera		
Chironomidae		
Tanypodinae		
Ablabesmyia annulata	1	
Coelotanypus sp.	1	
Procladius sp.	4	
Prodiamesinae		
Monodiamesa sp.	2	
Chironominae		
Cryptochironomus sp.	5	
Phaenopsectra sp.	1	
Polypedilum nr. scalaenum	6	
Pseudochironomus sp.	1	
Tribelos sp.	2	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	1	
Pisidium sp.	147	

DATE : October 21, 1986
LOCATION: Station 5-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10431

REMARKS : Partly sunny. 2 jars. Substrate type: organic debris.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	138	
Haplotaxida		
Naididae		
Indeterminate	31	
Allonais sp.	8	
Pristina sp.	104	
Tubificidae		
Indeterminate	8	
Branchiura sowerbyi	27	
Lumbriculida		
Lumbriculidae		
Indeterminate	4	
Hirudinea		
Rhynchobdellida		
Glossiphonidae		
Indeterminate	1	
ARTHROPODA		
Crustacea		
Cladocera		
Indeterminate	2	
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	3	
Trichoptera		
Leptoceridae		
Oecetis sp.	1	
Polycentropodidae		
Phylocentropus sp.	2	
Diptera		
Chironomidae		
Indeterminate	3	
Tanypodinae		
Procladius sp.	1	
Prodiamesinae		
Monodiamesa sp.	1	
Chironominae		
Indeterminate	1	
Cryptochironomus sp.	1	
Demicryptochironomus sp.	1	
Polypedilum nr. scalaenum	27	
Tribelos sp.	1	
Heleidae		
Indeterminate	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	34	
Pisidium sp.	91	

DATE : October 22, 1986
LOCATION: Station 4-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10414

REMARKS : Foggy, clearing skies by 10:30. Substrate type: organic debris, sand.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Indeterminate	55	
Haplotaxida		
Naididae		
Indeterminate	8	
Pristina sp.	7	
Tubificidae		
Indeterminate	20	
Branchiura sowerbyi	4	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	1	
Crustacea		
Ostracoda		
Indeterminate	6	
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	2	
Trichoptera		
Leptoceridae		
Oecetis sp.	1	
Diptera		
Chironomidae		
Tanypodinae		
Procladius sp.	3	
Diamesinae		
Potthastia longimanus	1	
Chironominae		
Cryptochironomus sp.	4	
Demicryptochironomus sp.	1	
Polypedilum sp.	1	
Pseudochironomus sp.	1	
Robackia demeigerei	1	
Tribelos sp.	7	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	2	
Pisidium sp.	20	

DATE : October 22, 1986
LOCATION: Station 4-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10415

REMARKS : Foggy, clearing skies by 10:30. Substrate type: organic debris.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	30	
Haplotaxida		
Naididae		
Indeterminate	6	
Pristina sp.	13	
Tubificidae		
Indeterminate	12	
Branchiura sowerbyi	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	7	
Diptera		
Chironomidae		
Tanypodinae		
Procladius sp.	2	
Prodiamesinae		
Monodiamesa sp.	1	
Chironominae		
Phaenopsectra sp.	1	
Polypedilum nr. scalaenum	1	
Tribelos sp.	5	
Hemiptera		
Aphididae		
Indeterminate	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	8	

DATE : October 22, 1986
LOCATION: Station 4-Vermont
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10416

REMARKS : Foggy, clearing skies by 10:30. Substrate type: organic debris, sand.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	19	
Haplotaxida		
Naididae		
Indeterminate	6	
Pristina sp.	8	
Tubificidae		
Indeterminate	12	
ARTHROPODA		
Arachnoidea		
Hydracarina		
Indeterminate	1	
Crustacea		
Ostracoda		
Indeterminate	1	
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	6	
Trichoptera		
Leptoceridae		
Oecetis sp.	1	
Diptera		
Chironomidae		
Indeterminate	1	
Tanypodinae		
Procladius sp.	1	
Thienemannimyia sp.	1	
Chironominae		
Chironomus sp.	1	
Cryptochironomus sp.	1	
Demicryptochironomus sp.	1	
Polypedilum nr. scalaenum	1	
Tribelos sp.	3	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Indeterminate	3	
Pisidium sp.	20	
Sphaerium sp.	1	

DATE : October 22, 1986
LOCATION: Station 4-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10417

REMARKS : Foggy, clearing skies by 10:30. Substrate type: organic debris.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	1	
BRYOZOA		
Phylactolaemata		
Plumatellidae		
Plumatella sp.		light
ANNELIDA		
Oligochaeta		
Haplotaxida		
Naididae		
Indeterminate	5	
Tubificidae		
Indeterminate	4	
Hirudinea		
Rhynchobdellida		
Glossiphonidae		
Indeterminate	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	1	
Diptera		
Chironomidae		
Chironominae		
Cryptochironomus sp.	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	11	

DATE : October 22, 1986
LOCATION: Station 4-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10418

REMARKS : Foggy, clearing skies by 10:30. Substrate type: organic debris.

Organism	Number	Remarks
ANNELIDA		
Oligochaeta		
Indeterminate	3	
Haplotaxida		
Naididae		
Indeterminate	6	
Tubificidae		
Indeterminate	1	
Branchiura sowerbyi	1	
ARTHROPODA		
Crustacea		
Cladocera		
Indeterminate	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	3	

DATE : October 22, 1986
LOCATION: Station 4-Midstream
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10419

REMARKS : Foggy, clearing skies by 10:30. Substrate type: organic debris.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	1	
ANNELIDA		
Oligochaeta		
Indeterminate	1	
Haplotaxida		
Naididae		
Indeterminate	9	
Pristina sp.	1	
ARTHROPODA		
Insecta		
Ephemeroptera		
Baetidae		
Centroptilum sp.	1	
Diptera		
Chironomidae		
Tanypodinae		
Procladius sp.	1	
Chironominae		
Cryptochironomus sp.	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	3	

DATE : October 22, 1986
LOCATION: Station 4-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10420

REMARKS : Foggy, clearing skies by 10:30. Substrate type: organic debris.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	2	
ANNELIDA		
Oligochaeta		
Indeterminate	7	
Haplotaxida		
Naididae		
Indeterminate	8	
Pristina sp.	18	
Tubificidae		
Indeterminate	14	
ARTHROPODA		
Crustacea		
Cladocera		
Indeterminate	1	
Insecta		
Ephemeroptera		
Ephemeridae		
Hexagenia limbata	3	
Trichoptera		
Leptoceridae		
Oecetis sp.	1	
Diptera		
Chironomidae		
Chironominae		
Pseudochironomus sp.	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	29	

DATE : October 22, 1986
LOCATION: Station 4-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10421

REMARKS : Partly cloudy. Substrate type: organic debris.

Organism	Number	Remarks
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Indeterminate	15	
Haplotaxida		
Naididae		
Indeterminate	12	
Pristina sp.	27	
Tubificidae		
Indeterminate	8	
ARTHROPODA		
Insecta		
Diptera		
Chironomidae		
Diamesinae		
Potthastia longimanus	1	
Prodiamesinae		
Monodiamesa sp.	3	
Chironominae		
Demicryptochironomus sp.	2	
Tanytarsus guerlus	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	28	

DATE : October 22, 1986
LOCATION: Station 4-New Hampshire
METHOD : Ekman dredge (9 inch), 3 Hauls
SAMPLE : 10422

REMARKS : Partly cloudy. Substrate type: organic debris.

Organism	Number	Remarks
COELENTERATA		
Hydrozoa		
Hydroidea		
Hydridae		
Hydra sp.	2	
NEMATODA		
Indeterminate	1	
BRYOZOA		
Phylactolaemata		
Fredericellidae		
Fredericella sultana		light
ANNELIDA		
Oligochaeta		
Indeterminate	22	
Haplotaxida		
Naididae		
Indeterminate	21	
Pristina sp.	29	
Tubificidae		
Indeterminate	3	
Branchiura sowerbyi	1	
Hirudinea		
Rhynchobdellida		
Glossiphonidae		
Indeterminate	1	
ARTHROPODA		
Crustacea		
Cladocera		
Indeterminate	1	
Ostracoda		
Indeterminate	1	
Insecta		
Diptera		
Chironomidae		
Tanypodinae		
Procladius sp.	2	
Diamesinae		
Potthastia longimanus	1	
Chironominae		
Indeterminate	1	
Cryptochironomus sp.	1	
Demicryptochironomus sp.	1	
MOLLUSCA		
Pelecypoda		
Prionodesmacea		
Sphaeriidae		
Pisidium sp.	66	

END TIME: May 12, 1986 23:14
LOCATION: Stebbin Island-Vermont Side
METHOD : Electrofishing, 0.2 Hours
SAMPLE : 9172

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Sucker	433	826		
2	1	Fallfish	330	450		

END TIME: May 12, 1986 23:38
LOCATION: Stebbin Island-New Hampshire Side
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 9173

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	7	White Sucker		6970		
2	1	Fallfish		227		
3	1	Smallmouth Bass	267	241	2	3997
4	1	Smallmouth Bass	270	242	2	3996
5	1	Smallmouth Bass	257	251	2	3995
6	1	Smallmouth Bass	274	270	2	3994
7	1	Smallmouth Bass	264	224	2	3993
8	1	Smallmouth Bass	195	92	1	
9	1	Smallmouth Bass	356	690	7	3992
10	1	Smallmouth Bass	356	627	6	3991
11	1	Smallmouth Bass	403	1060	7	3990

END TIME: May 12, 1986 23:31
LOCATION: Station 3
METHOD : Electrofishing, 0.2 Hours
SAMPLE : 9174

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Sucker		1290		
2	1	Smallmouth Bass	272	268	3	3989
3	1	Smallmouth Bass	235	161	2	3988
4	1	Pumpkinseed		70		
5	1	Walleye	208	75	1	

END TIME: May 13, 1986 00:56
LOCATION: 0.1 Miles South of Vernon Dam
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 9175

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Sucker	534	1500		
2	1	White Sucker	440	921		
3	1	Smallmouth Bass	365	711	6	3987
4	1	Smallmouth Bass	256	235	3	
5	1	Smallmouth Bass	263	238	3	3986
6	1	Smallmouth Bass	289	319	3	
7	1	Smallmouth Bass	303	396	3	
8	1	Smallmouth Bass	230	235	2	
9	1	Largemouth Bass	324	495	2	
10	1	Golden Shiner		71		
11	1	Golden Shiner		68		
12	1	Bluegill		208		
13	1	Bluegill		106		
14	1	Pumpkinseed		111		

END TIME: May 13, 1986 23:57
LOCATION: Station 4-New Hampshire
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 9188

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	6	White Sucker		2380		
2	1	Bluegill		53		
3	3	Pumpkinseed		290		
4	1	White Perch	191	91	1	
5	1	White Perch	323	487	4	
6	1	White Perch	193	87	1	
7	1	Yellow Perch	264	215	4	
8	1	Yellow Perch	271	208	4	
9	1	Yellow Perch	227	124	3	
10	1	Yellow Perch	197	75	2	
11	1	Yellow Perch	203	91	3	
12	1	Yellow Perch	259	200	4	
13	1	Yellow Perch	220	114	3	
14	1	Yellow Perch	192	74	2	
15	1	Yellow Perch	199	82	2	
16	1	Yellow Perch	199	91	2	
17	1	Yellow Perch	177	51	1	
18	1	Yellow Perch	160	45	1	
19	1	Yellow Perch	187	67	2	
20	1	Largemouth Bass	340	530	2	
21	1	Largemouth Bass	335	526	3	
22	1	Smallmouth Bass	301	402	4	3003
23	1	Smallmouth Bass	274	254	3	3004
24	1	Smallmouth Bass	266	260	2	3005
25	1	Smallmouth Bass	235	162	2	3006
26	1	Smallmouth Bass	227	139	2	3007
27	1	Golden Shiner		85		

END TIME: May 13, 1986 22:00
LOCATION: Station 5-Vermont
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 9189

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Common Carp		6120		
2	4	White Sucker		4420		
3	1	White Perch	265	287	3	
4	1	Yellow Perch	230	132	3	
5	1	Yellow Perch	207	90	3	
6	1	Yellow Perch	173	44	1	
7	1	Yellow Perch	119	14	0	
8	1	Smallmouth Bass	230	120	2	3001
9	1	Smallmouth Bass	235	127	2	

END TIME: May 13, 1986 21:09
LOCATION: Station 5-New Hampshire
METHOD : Electrofishing, 0.2 Hours
SAMPLE : 9190

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Walleye	464	894	4	
2	5	White Sucker		3290		
3	1	Yellow Perch	252	151	3	
4	1	Yellow Perch	265	193	3	
5	1	Yellow Perch	240	132	3	
6	1	Yellow Perch	283	249	3	
7	1	Yellow Perch	283	241	4	
8	1	Yellow Perch	232	128	2	
9	1	Yellow Perch	201	102	3	
10	1	Yellow Perch	192	78	2	
11	1	Yellow Perch	173	64	1	
12	1	Yellow Perch	190	77	2	
13	1	Yellow Perch	228	130	4	
14	1	Yellow Perch	205	185	2	
15	1	Yellow Perch	195	68	2	
16	1	Walleye	170	27	0	
17	1	Yellow Perch	169	41	1	
18	1	Yellow Perch	171	43	1	
19	1	Yellow Perch	219	98	3	
20	1	Golden Shiner	205	109		
21	1	White Perch	211	128	1	
22	1	White Perch	204	102	1	

END TIME: May 13, 1986 22:38
LOCATION: New Hampshire Setback-Near Culvert to Butler Cove
METHOD : Electrofishing, 0.2 Hours
SAMPLE : 9191

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	5	White Sucker		1700		
2	8	Golden Shiner		567		
3	12	Pumpkinseed		1020		
4	1	Bluegill		36		
5	1	Bluegill		75		
6	1	Bluegill		51		
7	1	Bluegill		39		
8	1	Bluegill		35		
9	1	Bluegill		41		
10	1	Bluegill		26		
11	1	Bluegill		14		
12	1	Yellow Perch	180	61	2	
13	1	Yellow Perch	159	36	1	
14	1	White Perch	220	131	1	
15	1	White Perch	209	112	1	
16	1	White Perch	213	129	1	
17	1	White Perch	204	112	1	
18	1	White Perch	199	99	1	
19	1	White Perch	205	100	1	
20	1	White Perch	195	92	1	
21	1	White Perch	184	74	1	
22	1	White Perch	179	64	1	
23	1	Largemouth Bass	152	40	0	
24	1	Largemouth Bass	256	254	2	
25	1	Largemouth Bass	373	666	4	
26	1	Largemouth Bass	398	992	5	
27	1	Smallmouth Bass	229	175	1	3002

END TIME: May 13, 1986 20:38
LOCATION: Rum Point
METHOD : Electrofishing, 0.2 Hours
SAMPLE : 9192

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Sucker		682		
2	1	White Perch	297	446	6	
3	1	Yellow Perch	226	115	3	
4	1	Yellow Perch	239	142	3	
5	1	Yellow Perch	212	90	2	
6	1	Yellow Perch	230	115	2	

END TIME: May 14, 1986 01:03
LOCATION: Station 4-Vermont
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 9187

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Sucker		610		
2	1	Yellow Perch		161		
3	1	Yellow Perch		45		
4	1	Smallmouth Bass	230	141	3	
5	1	Smallmouth Bass	195	98	1	

END TIME: May 20, 1986 18:00
LOCATION: Rum Point
METHOD : Trap net, 26.9 Hours
SAMPLE : 9235

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Pumpkinseed	190	196		
2	1	Smallmouth Bass	253	233	2	3013
3	1	White Sucker	480	1040		

END TIME: May 20, 1986 16:30
LOCATION: Station 5-New Hampshire
METHOD : Trap net, 25.6 Hours
SAMPLE : 9236

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	263	251	3	
2	1	White Perch	200	118	1	
3	1	White Perch	324	512	6	
4	1	White Perch	280	351	5	
5	1	White Perch	323	533	6	
6	1	White Perch	200	111	1	
7	1	White Perch	300	487	6	
8	1	White Perch	271	275	2	
9	1	White Perch	292	378	4	
10	1	White Perch	251	247	2	
11	1	White Perch	191	86	1	
12	1	White Perch	215	146	1	
13	1	White Perch	185	78	1	
14	1	Yellow Perch	165	50	1	
15	1	Yellow Perch	163	53	1	
16	1	Yellow Perch	231		3	
17	1	Yellow Perch	178	52	2	
18	1	Yellow Perch	194	91		
19	1	Yellow Perch	103	14	0	
20	1	Yellow Perch	103	17	0	
21	1	Yellow Perch	165	64	1	
22	1	Walleye	415	621	2	
23	1	Rock Bass	123	36		
24	1	Rock Bass	130	47		
25	1	Yellow Perch	170	52	1	
26	1	Golden Shiner	190	78		
27	1	Golden Shiner	179	64		
28	1	Golden Shiner	204	116		
29	1	Golden Shiner	176	76		
30	1	Golden Shiner	196	109		
31	1	Golden Shiner	176	75		
32	1	Pumpkinseed	166	82		
33	1	Pumpkinseed	173	115		
34	1	Pumpkinseed	200	212		
35	1	Pumpkinseed	155	64		
36	1	Pumpkinseed	149	52		
37	1	Pumpkinseed	160	62		
38	1	Pumpkinseed	191	153		
39	1	Pumpkinseed	176	83		
40	1	Pumpkinseed	175	90		
41	1	Pumpkinseed	122	26		
42	1	Pumpkinseed	126	38		
43	1	Pumpkinseed	162	48		
44	1	Pumpkinseed	116	18		
45	1	Pumpkinseed	130	30		
46	1	Pumpkinseed	120	27		
47	1	Pumpkinseed	121	24		
48	1	Pumpkinseed	110	28		
49	1	Bluegill	128	31		
50	1	White Sucker	500	742		
51	1	White Sucker	375	518		

END TIME: May 20, 1986 17:30
LOCATION: Station 5-Vermont
METHOD : Trap net, 26.2 Hours
SAMPLE : 9237

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	287	343	5	
2	1	Yellow Perch	197	83	3	
3	1	Pumpkinseed	173	119		
4	1	Smallmouth Bass	187	90	1	
5	1	Smallmouth Bass	174			
6	1	Smallmouth Bass	176	86	1	
7	1	Smallmouth Bass	188	88	1	
8	1	Rock Bass	188	156		
9	1	Rock Bass	191	128		
10	1	Rock Bass	208	188		
11	1	Rock Bass	204	176		
12	1	Rock Bass	244	272		
13	1	Rock Bass	198	167		
14	1	Rock Bass	135	47		
15	1	Rock Bass	179	117		
16	1	Rock Bass	230	276		
17	1	Rock Bass	130	39		
18	1	Rock Bass	112	29		
19	1	Rock Bass	125	33		
20	1	Rock Bass	131	42		
21	1	Rock Bass	136	47		
22	1	Rock Bass	137	44		
23	1	Rock Bass	105	18		
24	1	White Sucker	428	779		
25	1	White Sucker	505	1360		

END TIME: May 20, 1986 14:00
LOCATION: New Hampshire Setback-Near Culvert to Butler Cove
METHOD : Trap net, 23.4 Hours
SAMPLE : 9238

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	250	219	2	
2	1	White Perch	273		2	
3	1	White Perch	278	270	5	
4	1	White Perch	297	364		
5	1	White Perch	290	363	4	
6	1	White Perch	344	543	7	
7	1	White Perch	308	426	6	
8	1	Yellow Perch	185	58	2	
9	1	Yellow Perch	237	156	3	
10	1	Yellow Perch	269	212	5	
11	1	Yellow Perch	246	174	4	
12	1	Yellow Perch	235	145	4	
13	1	Yellow Perch	236	135	4	
14	1	Yellow Perch	255	187	4	
15	1	Yellow Perch	217	108	3	
16	1	Yellow Perch	224	151	3	
17	1	Yellow Perch	212	143	3	
18	1	Pumpkinseed	167	94		
19	1	Pumpkinseed	127	63		
20	1	Pumpkinseed	150	84		
21	1	Pumpkinseed	140	53		
22	1	Bluegill	113	29		
23	1	Bluegill	122	42		
24	1	Bluegill	194	166		
25	1	Bluegill	152	81		
26	1	Pumpkinseed	147	75		
27	1	White Sucker	400	638		
28	1	Common Carp	650	4810		

END TIME: May 20, 1986 12:35
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 22.6 Hours
SAMPLE : 9239

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Golden Shiner	204	75		
2	1	Golden Shiner	195	105		
3	1	Golden Shiner	206	95		
4	1	Golden Shiner	199	78		
5	1	Golden Shiner	200	70		
6	1	Golden Shiner	202	110		
7	1	Golden Shiner	188	80		
8	1	Golden Shiner	209	103		
9	1	Golden Shiner	193	85		
10	1	Golden Shiner	157			
11	1	Golden Shiner	197	70		
12	1	Pumpkinseed	173	125		
13	1	Pumpkinseed	163	122		
14	1	Bluegill	152	85		
15	1	Rock Bass	133	55		
16	1	Pumpkinseed	174	135		
17	1	Pumpkinseed	193	200		
18	1	Pumpkinseed	168	128		
19	1	Pumpkinseed	152	105		
20	1	Bluegill	154	115		
21	1	Pumpkinseed	141	92		
22	1	Pumpkinseed	159	118		
23	1	Rock Bass	170	137		
24	1	Rock Bass				
25	1	Pumpkinseed	153	77		
26	1	Pumpkinseed	170	116		
27	1	Rock Bass	165	108		
28	1	Rock Bass	129	45		
29	1	Rock Bass	115	24		
30	1	Rock Bass	153	70		
31	1	Rock Bass	130	48		
32	1	Rock Bass	147	93		
33	1	Rock Bass	114	41		
34	1	Rock Bass	118	34		
35	1	Rock Bass	130	57		
36	1	Rock Bass	142	61		
37	1	Rock Bass	125	37		
38	1	Rock Bass	118	31		
39	1	Bluegill	144	52		
40	1	White Perch	261	276		
41	1	Smallmouth Bass	264	224	2	3010
42	1	Smallmouth Bass	205	112		
43	1	Smallmouth Bass	226	214	2	3056
44	1	Yellow Perch	223	113	3	
45	1	White Perch	193	79	1	
46	1	Yellow Perch	220	108	3	
47	1	Yellow Perch	206	102	3	
48	1	Yellow Perch	180	64	2	
49	1	Yellow Perch	172	54	2	
50	1	Yellow Perch	218	111	3	
51	1	Smallmouth Bass	225	163	2	
52	1	Smallmouth Bass	255	223	2	
53	1	Smallmouth Bass	274	360	2	3011
54	1	Smallmouth Bass	244	164	3	3012
55	1	Smallmouth Bass	155	38	1	
56	1	Smallmouth Bass	185	74	1	
57	1	Smallmouth Bass	183	72	2	
58	1	Smallmouth Bass	184	74	1	
59	1	Smallmouth Bass	183	78	1	
60	1	Smallmouth Bass	168	48	1	
61	1	Smallmouth Bass	186	84	1	

(CONTINUED)
END TIME: May 20, 1986 12:35
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 22.6 Hours
SAMPLE : 9239

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
62	1	Smallmouth Bass	200	84	1	
63	1	Smallmouth Bass	177	63	2	
64	1	Smallmouth Bass	148	43	1	
65	1	Smallmouth Bass	172	64	1	
66	1	Smallmouth Bass	162	44	1	
67	1	Smallmouth Bass	235	151	2	
68	1	Yellow Perch	283	255	6	
69	1	Yellow Perch	196	72	2	
70	1	Yellow Perch	198	76	2	
71	1	Yellow Perch	150	34	1	
72	1	Yellow Perch	166	42	1	
73	1	Yellow Perch	188	76	2	
74	1	Yellow Perch	202	93	3	
75	1	Yellow Perch	231	136	3	
76	1	Yellow Perch	180	58	2	
77	1	Yellow Perch	226	104	2	
78	1	Yellow Perch	178	59	2	
79	1	Yellow Perch	224	121	2	
80	1	Yellow Perch	180	60	1	
81	1	Yellow Perch	172	50	1	
82	1	Yellow Perch	196	61	2	
83	1	Yellow Perch	202	94	2	
84	1	Yellow Perch	180	56	1	
85	1	Golden Shiner	190	89		
86	1	Golden Shiner	180	52		
87	1	Golden Shiner	207	98		
88	1	Golden Shiner	205	75		
89	1	Golden Shiner	217	110		
90	1	Golden Shiner	205	89		
91	1	Golden Shiner	183	72		
92	1	Golden Shiner	195	106		
93	1	Golden Shiner	200	103		
94	1	Golden Shiner	193	92		
95	1	Golden Shiner	195	94		
96	1	Golden Shiner	197	82		
97	1	Golden Shiner	190	71		
98	1	Golden Shiner	139	43		
99	1	Golden Shiner	185	69		
100	6	Pumpkinseed		658		
101	5	Rock Bass		196		
102	2	Bluegill		97		
103	1	Spottail Shiner				
104	1	White Sucker	407	749		
105	1	White Sucker	460	1020		
106	1	White Sucker	285	219		
107	1	White Sucker	380	580		
108	1	White Sucker	356	580		
109	1	White Sucker	340	423		
110	1	White Sucker	415	703		
111	1	Bluegill	175	94		
112	1	Spottail Shiner				

END TIME: May 20, 1986 12:30
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 22.2 Hours
SAMPLE : 9240

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	274	288		
2	1	White Perch	267	248	2	
3	1	White Perch	271	320	6	
4	1	White Perch	216	170	1	
5	1	White Perch	168	35	2	
6	1	Yellow Perch	248	205	3	
7	1	Bluegill	143	84		
8	1	Pumpkinseed	164	94		
9	1	Pumpkinseed	169	93		
10	1	Yellow Perch	235	168	3	
11	1	White Perch	156	43	1	
12	1	Rock Bass	136			
13	1	Pumpkinseed	141	68		
14	1	Bluegill	150	85		
15	1	Yellow Perch	181	78	1	
16	1	Smallmouth Bass	168	61	1	
17	1	Pumpkinseed	163	96		
18	1	Smallmouth Bass	178	57	1	
19	1	Smallmouth Bass	228	147	2	3009

END TIME: May 20, 1986 12:00
LOCATION: Station 4-Vermont
METHOD : Trap net, 22.3 Hours
SAMPLE : 9241

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Sucker	398	680		
2	1	Rock Bass	107	33		
3	1	White Perch	281	347	3	

END TIME: May 20, 1986 12:10
LOCATION: Station 4-Vermont
METHOD : Trap net, 22.3 Hours
SAMPLE : 9242

No catch for this collection.

END TIME: May 21, 1986 13:05
LOCATION: Rum Point
METHOD : Trap net, 19.1 Hours
SAMPLE : 9253

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	286	376	4	
2	1	Yellow Perch	251	165	3	
3	1	Yellow Perch	228	125	2	
4	1	White Sucker	440	934		
5	1	White Sucker	425	783		
6	1	White Sucker	490	1150		
7	1	White Sucker	475	1130		
8	1	Rock Bass	135	52		
9	1	Rock Bass	195	158		
10	1	Rock Bass	190	153		
11	1	Rock Bass	159	93		
12	1	Rock Bass	160	94		
13	1	Rock Bass	116	46		
14	1	Rock Bass	107	35		
15	1	Pumpkinseed	165	108		
16	1	Common Carp	735	6250		

END TIME: May 21, 1986 11:10
LOCATION: Station 5-New Hampshire
METHOD : Trap net, 18.7 Hours
SAMPLE : 9254

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	211	126	1	
2	1	White Perch	264	258	2	
3	1	White Perch	305	374	5	
4	1	Yellow Perch	310	354	4	
5	1	Yellow Perch	85	19	0	
6	1	Yellow Perch	88	14	0	
7	1	Yellow Perch	97	13	0	
8	1	Yellow Perch	91	14	0	
9	1	Yellow Perch	91	12	1	
10	1	Yellow Perch	88	12	0	
11	1	Yellow Perch	100	11	0	
12	1	Yellow Perch	95	11	0	
13	1	Yellow Perch	95	13	0	
14	1	Yellow Perch	101	17	0	
15	1	Yellow Perch	225			
16	1	Yellow Perch	235	113	2	
17	1	Yellow Perch	252	181	3	
18	1	Yellow Perch	196	74	1	
19	1	Yellow Perch	188	91	2	
20	1	Yellow Perch	175	72		
21	1	Yellow Perch	200	89	2	
22	1	Yellow Perch	95	18	0	
23	1	Yellow Perch	91	11	0	
24	1	Yellow Perch	96	14	0	
25	1	Yellow Perch	100			
26	1	Yellow Perch	86	15	0	
27	1	Yellow Perch	88	13	0	
28	1	Yellow Perch	109	15	1	
29	1	Yellow Perch	101	15		
30	1	Yellow Perch	107	18	0	
31	1	Yellow Perch	106	13	0	
32	1	Yellow Perch	90	16	0	
33	1	Yellow Perch	103	12	0	
34	7	Yellow Perch		44		
35	1	Golden Shiner	175	38		
36	1	Golden Shiner	198	76		
37	1	Golden Shiner	188	66		
38	1	Golden Shiner	135	24		
39	1	Pumpkinseed	159	87		
40	1	Pumpkinseed	160	95		
41	1	Pumpkinseed	158	86		
42	1	Pumpkinseed	102	32		
43	1	Pumpkinseed	120	35		
44	1	Pumpkinseed	108	31		
45	1	Bluegill	157	94		
46	1	Bluegill	133	34		
47	1	Bluegill	185	123		
48	1	Rock Bass	163	67		
49	1	Rock Bass	240	282		
50	1	Rock Bass	165	75		
51	1	Rock Bass	176	112		
52	1	Rock Bass	176	113		
53	1	Rock Bass	136	34		
54	5	Spottail Shiner		44		
55	1	Common Carp	542	2390		

END TIME: May 21, 1986 12:30
LOCATION: Station 5-Vermont
METHOD : Trap net, 19.0 Hours
SAMPLE : 9255

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	283	346	5	
2	1	White Perch	284	330	4	
3	1	Yellow Perch	247	183	5	
4	1	Yellow Perch	224	115	2	
5	1	Smallmouth Bass	168	66	1	
6	1	Rock Bass	238	294		
7	1	Rock Bass	223	236		
8	1	Rock Bass	184	138		
9	1	Rock Bass	183	132		
10	1	Rock Bass	145	61		
11	1	Pumpkinseed	172	142		
12	1	White Sucker	406	749		

END TIME: May 21, 1986 09:55
LOCATION: New Hampshire Setback-Near Culvert to Butler Cove
METHOD : Trap net, 19.9 Hours
SAMPLE : 9256

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	305	376	6	
2	1	White Perch	302	383	5	
3	1	White Perch	262	259	3	
4	1	White Perch	258	260	3	
5	1	White Perch	258	248	3	
6	1	Yellow Perch	228	143	3	
7	1	Yellow Perch	218	118	3	
8	1	Yellow Perch	287	260	6	
9	1	Yellow Perch	207	103	2	
10	1	Yellow Perch	199	102	2	
11	1	Pumpkinseed	158	78		
12	1	Pumpkinseed	145	59		
13	1	Pumpkinseed	154	55		
14	1	Pumpkinseed		69		
15	1	Pumpkinseed	159	61		
16	1	Pumpkinseed	98	18		
17	1	Pumpkinseed	155	70		
18	1	White Sucker	464	997		
19	1	White Sucker	474	821		

END TIME: May 21, 1986 08:40
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 20.1 Hours
SAMPLE : 9257

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	208	108	3	
2	1	Yellow Perch	262	254	3	
3	1	Yellow Perch	165	77	1	
4	1	Yellow Perch	166	93	1	
5	1	Yellow Perch	216	98	2	
6	1	Yellow Perch	178	53	1	
7	1	Yellow Perch	170	54	1	
8	1	Yellow Perch	153	39	1	
9	1	Yellow Perch	157	41	1	
10	1	Yellow Perch	210	99	2	
11	1	Yellow Perch	104	14	0	
12	1	Smallmouth Bass	165	49	1	
13	1	Smallmouth Bass	179	64	1	
14	1	Smallmouth Bass	188	77	1	
15	1	Smallmouth Bass	173	54	1	
16	1	Smallmouth Bass	207	105	1	
17	1	Smallmouth Bass	179	67	1	
18	1	Smallmouth Bass	192	78	1	
19	1	Smallmouth Bass	184	67	1	
20	1	Smallmouth Bass	178	74	1	
21	1	Smallmouth Bass	160	32	1	
22	1	Rock Bass	125	28		
23	1	Rock Bass	112	18		
24	1	Smallmouth Bass	163	42	1	
25	1	Rock Bass	91	6.0		
26	1	Golden Shiner				
27	1	Golden Shiner	196	66		
28	1	Golden Shiner	187	60		
29	1	Golden Shiner	206	112		
30	1	Gqlden Shiner	188	59		
31	1	Golden Shiner	192	95		
32	1	Golden Shiner	195	73		
33	1	Golden Shiner	135	27		
34	1	Golden Shiner	207	116		
35	1	Golden Shiner	208	116		
36	1	Golden Shiner	190			
37	1	Golden Shiner	153	50		
38	1	Golden Shiner	192	66		
39	1	Golden Shiner	190	80		
40	1	Golden Shiner	189	81		
41	1	Golden Shiner	184	98		
42	1	Golden Shiner	147	42		
43	1	Golden Shiner	185	96		
44	1	Golden Shiner	146	38		
45	1	Golden Shiner	200	84		
46	1	Golden Shiner	193	84		
47	1	Spottail Shiner	122	25		
48	1	Spottail Shiner	108	21		
49	1	Spottail Shiner	123	25		
50	1	Pumpkinseed	132	60		
51	1	Pumpkinseed	178	106		
52	1	Pumpkinseed	152			
53	1	Pumpkinseed	158	79		
54	1	Pumpkinseed	176	116		
55	1	Pumpkinseed	113	22		
56	1	Pumpkinseed	165	92		
57	1	Pumpkinseed	121	32		
58	1	Pumpkinseed	165	105		
59	1	Pumpkinseed	128	42		

(CONTINUED)

END TIME: May 21, 1986 08:40
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 20.1 Hours
SAMPLE : 9257

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
60	1	Pumpkinseed	180	133		
61	1	Bluegill	168	98		
62	1	Bluegill	155	78		
63	1	Bluegill	149	63		
64	1	Bluegill	128	34		
65	1	Bluegill	144	54		
66	1	Bluegill	155	74		
67	1	Bluegill	125	44		
68	1	Bluegill	104	32		
69	1	White Sucker	434	828		

END TIME: May 21, 1986 08:25
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 19.9 Hours
SAMPLE : 9258

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Pumpkinseed	165	106		
2	1	Pumpkinseed	161	111		
3	1	Pumpkinseed	142	78		
4	1	White Sucker	409	671		

END TIME: May 21, 1986 08:00
LOCATION: Station 4-Vermont
METHOD : Trap net, 20.0 Hours
SAMPLE : 9259

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	144	34	1	
2	1	White Sucker	405	610		
3	1	White Sucker	393	658		

END TIME: May 21, 1986 08:14
LOCATION: Station 4-Vermont
METHOD : Trap net, 20.1 Hours
SAMPLE : 9260

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	112	26		

END TIME: May 22, 1986 08:40
LOCATION: 0.1 Miles South of Vernon Dam
METHOD : Trap net, 16.3 Hours
SAMPLE : 9262

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	180	58	3	
2	1	Rock Bass	225	257		
3	1	Rock Bass	214	198		
4	1	Rock Bass	235	293		
5	1	Common Carp	650	3550		

END TIME: May 22, 1986 09:05
LOCATION: Station 3
METHOD : Trap net, 16.6 Hours
SAMPLE : 9263

No catch for this collection.

END TIME: May 22, 1986 09:15
LOCATION: Stebbin Island-Vermont Side
METHOD : Trap net, 16.5 Hours
SAMPLE : 9264

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	311	379	3	3527
2	1	Smallmouth Bass	217	154	1	3525
3	1	White Sucker	430	861		
4	1	White Sucker	405	728		
5	1	Yellow Perch	243	153	4	
6	1	Rock Bass	182	143		
7	1	Rock Bass	170	102		
8	1	Rock Bass	211	205		
9	1	Rock Bass	205	202		
10	1	Rock Bass	215	216		
11	1	Rock Bass	228	248		
12	1	Rock Bass	177	121		
13	1	Rock Bass	188	143		
14	1	Rock Bass	193	154		
15	1	Rock Bass	164	101		
16	1	Rock Bass	230	235		
17	1	Rock Bass	194	151		
18	1	Rock Bass	170	83		
19	1	Rock Bass				
20	1	Rock Bass				
21	1	Rock Bass	168	100		
22	1	Rock Bass	184	117		
23	1	Rock Bass	154	75		
24	1	Rock Bass	160	83		
25	1	Rock Bass	154	69		
26	1	Rock Bass	167	102		
27	1	Rock Bass	194	145		
28	1	Rock Bass	184	119		
29	1	Rock Bass	199	172		
30	1	Rock Bass	201	173		
31	1	Rock Bass	179	128		
32	1	Rock Bass	155	64		
33	1	Rock Bass	178	100		
34	1	Rock Bass	151	66		
35	1	Rock Bass	151	64		
36	1	Rock Bass	151	72		
37	1	Rock Bass	174	119		

END TIME: May 22, 1986 10:00
LOCATION: Stebbin Island-New Hampshire Side
METHOD : Trap net, 16.5 Hours
SAMPLE : 9265

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Spottail Shiner	110	14		

END TIME: May 22, 1986 10:30
LOCATION: Approximately 4.2 Miles South of Vernon Dam-VT Shore
METHOD : Trap net, 17.4 Hours
SAMPLE : 9266

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	298	338	3	3528
2	1	White Sucker	482	1060		

END TIME: May 22, 1986 10:55
LOCATION: Approximately 4.3 Miles South of Vernon Dam-VT Shore
METHOD : Trap net, 17.7 Hours
SAMPLE : 9267

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	373	653	6	3529
2	1	Yellow Perch	215	102	1	
3	1	Rock Bass	184	129		
4	1	Rock Bass	166	96		
5	1	Rock Bass	181	129		
6	1	Rock Bass	185	133		
7	1	Rock Bass	168	88		
8	1	Rock Bass	185	137		
9	1	Rock Bass	202	173		
10	1	Rock Bass	165	89		
11	1	Rock Bass	174	104		
12	1	Rock Bass	178	125		
13	1	Rock Bass	176	108		
14	1	Rock Bass	182	115		
15	1	Rock Bass	174	110		
16	1	Rock Bass	150	61		

END TIME: May 23, 1986 08:05
LOCATION: 0.1 Miles South of Vernon Dam
METHOD : Trap net, 23.4 Hours
SAMPLE : 9278

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Pumpkinseed	129	33		
2	1	Common Carp	655	4810		
3	1	Common Carp				

END TIME: May 23, 1986 08:20
LOCATION: Station 3
METHOD : Trap net, 23.3 Hours
SAMPLE : 9279

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	164	99		
2	1	Rock Bass	178	121		
3	1	Rock Bass	230	285		
4	1	Rock Bass	195	164		
5	1	Rock Bass	165	104		
6	1	Rock Bass	214	183		
7	1	Rock Bass	199	153		
8	1	Rock Bass	200	143		
9	1	Rock Bass	194	165		
10	1	Rock Bass	223	232		
11	1	Rock Bass	151	66		
12	1	Rock Bass	173	93		
13	1	Rock Bass	191	135		
14	1	Rock Bass	163	99		
15	1	Rock Bass	174	124		
16	1	Rock Bass	134	49		
17	1	Smallmouth Bass	178	69	1	

END TIME: May 23, 1986 09:00
LOCATION: Stebbin Island-Vermont Side
METHOD : Trap net, 23.8 Hours
SAMPLE : 9280

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Golden Shiner	193	81		
2	1	Rock Bass	208	185		
3	1	Rock Bass	213	212		
4	1	Rock Bass	180	113		
5	1	Rock Bass	193	153		
6	1	Rock Bass	220	262		
7	1	Rock Bass	206	184		
8	1	Rock Bass	189	134		
9	1	Rock Bass	184	124		
10	1	Rock Bass	204	191		
11	1	Yellow Perch	164	44	1	
12	1	White Sucker	450	869		

END TIME: May 23, 1986 09:30
LOCATION: Stebbin Island-New Hampshire Side
METHOD : Trap net, 23.5 Hours
SAMPLE : 9281

No catch for this collection.

END TIME: May 23, 1986 10:10
LOCATION: Approximately 4.2 Miles South of Vernon Dam-VT Shore
METHOD : Trap net, 23.7 Hours
SAMPLE : 9282

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	225	264		
2	1	Rock Bass	237	286		
3	1	Rock Bass	212	203		
4	1	Rock Bass	228	269		
5	1	Rock Bass	191	155		
6	1	Rock Bass	247	344		
7	1	Rock Bass	221	235		
8	1	Rock Bass	178	113		
9	1	Rock Bass	189	167		
10	1	Rock Bass	156	73		
11	1	Rock Bass	199	164		
12	1	Rock Bass	183	109		
13	1	Rock Bass	180	124		
14	1	Rock Bass	159	82		
15	1	Rock Bass	170	91		
16	1	White Sucker	368	492		
17	1	Common Carp	700	4570		
18	1	Bluegill	179	153		
19	1	Yellow Perch	254	204	3	

END TIME: May 23, 1986 10:20
LOCATION: Approximately 4.3 Miles South of Vernon Dam-VT Shore
METHOD : Trap net, 23.4 Hours
SAMPLE : 9283

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	208	190		
2	1	Rock Bass	118	32		
3	1	Rock Bass	193	142		
4	1	Rock Bass	193	123		
5	1	Rock Bass	125	37		
6	1	Rock Bass	179	122		
7	1	Rock Bass	126	39		
8	1	Rock Bass	210	196		
9	1	Rock Bass	187	147		
10	1	Rock Bass	115	34		
11	1	Rock Bass	135	55		
12	1	Yellow Perch	172	58		
13	1	Yellow Perch	218	107	2	
14	1	Yellow Perch	180	59	1	
15	1	Yellow Perch	194	66	1	
16	1	Yellow Perch	171	65	2	
17	1	Yellow Perch	208	108	3	
18	1	Yellow Perch	198	75	3	
19	1	Yellow Perch	183	56	1	
20	1	Yellow Perch	211	110	2	
21	1	Rock Bass	160	87		

END TIME: May 27, 1986 20:32
LOCATION: Station 2
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 9298

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Blueback Herring	280	231		
2	1	White Sucker	504	1290		

END TIME: June 17, 1986 13:00
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 22.7 Hours
SAMPLE : 9430

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Walleye	667		9	
2	1	Walleye	395	544	2	
3	1	White Sucker	485	1220		
4	1	White Sucker	509	1390		
5	1	White Sucker	283	238		
6	1	Yellow Perch	235	140	3	
7	1	White Perch	205	119	2	
8	1	Smallmouth Bass	274	278	3	3091
9	1	Smallmouth Bass	346	615	4	3090
10	1	Yellow Perch	111	14	1	
11	1	Yellow Perch	125	20	1	
12	1	Rock Bass	125	43		
13	1	Spottail Shiner	110	12		
14	1	Spottail Shiner	107	10		
15	1	Spottail Shiner	121	14		
16	1	Spottail Shiner	103	7.0		
17	1	Spottail Shiner	100	6.0		
18	1	Spottail Shiner	110	9.0		

END TIME: June 17, 1986 12:45
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 22.6 Hours
SAMPLE : 9431

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Walleye	430	688	3	
2	1	White Perch	204	111	2	
3	1	Rock Bass	181	102		
4	1	Bluegill	145	64		
5	1	Pumpkinseed	157	83		
6	1	Pumpkinseed	144	61		
7	1	Yellow Perch	105	11	1	
8	1	Yellow Perch	115	15	1	
9	1	Pumpkinseed	130	43		
10	1	Spottail Shiner	126	12		
11	1	Spottail Shiner	111	12		
12	1	Spottail Shiner	104	7.0		
13	1	Spottail Shiner	122	10		
14	1	Spottail Shiner	124	11		
15	1	Spottail Shiner	109	8.0		
16	1	Spottail Shiner	110	7.0		
17	1	Spottail Shiner	106	9.0		
18	1	Spottail Shiner	100	9.0		
19	1	Golden Shiner				
20	1	Yellow Perch	103	3.0	1	

END TIME: June 17, 1986 14:15
LOCATION: Station 4-Vermont
METHOD : Trap net, 23.6 Hours
SAMPLE : 9432

No catch for this collection.

END TIME: June 17, 1986 14:45
LOCATION: Station 4-Vermont
METHOD : Trap net, 23.9 Hours
SAMPLE : 9433

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	188	82	2	
2	1	Spottail Shiner	105	7.0		
3	1	White Sucker	434	838		
4	1	Common Carp	670			
5	1	Common Carp	570			

END TIME: June 17, 1986 12:05
LOCATION: New Hampshire Setback-Near Culvert to Butler Cove
METHOD : Trap net, 22.4 Hours
SAMPLE : 9434

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	104	14	1	
2	1	Yellow Perch	104	14	1	
3	1	Yellow Perch	116	17	1	
4	1	Golden Shiner	106	12		
5	1	Golden Shiner	95	8.0		
6	1	Golden Shiner				
7	1	Bluegill	80	10		

END TIME: June 17, 1986 11:55
LOCATION: Station 5-Vermont
METHOD : Trap net, 22.4 Hours
SAMPLE : 9435

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Sucker	426	744		
2	1	White Sucker	496	1080		
3	1	Smallmouth Bass	355	510	6	3092
4	1	Yellow Perch	240	61		
5	1	Rock Bass	241	289		

END TIME: June 17, 1986 10:00
LOCATION: Station 5-New Hampshire
METHOD : Trap net, 20.7 Hours
SAMPLE : 9436

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Walleye	439	702	3	
2	1	Walleye	435	682	5	
3	1	Yellow Perch	289	291	4	
4	1	Yellow Perch	296	264	6	
5	1	Yellow Perch	253	162	5	
6	1	Yellow Perch	253	155	5	
7	1	Yellow Perch	232	136	2	
8	1	Yellow Perch	218	115	3	
9	1	Yellow Perch	203	87	3	
10	1	Yellow Perch	167	51	2	
11	1	Yellow Perch	190	72	2	
12	1	Yellow Perch	171	55	1	
13	1	Yellow Perch	164	54	1	
14	1	White Sucker	431	856		
15	1	White Sucker	385	725		
16	1	Smallmouth Bass	324	459	4	3097
17	1	Smallmouth Bass	280	325	2	3096
18	1	Smallmouth Bass	259	245	3	3095
19	1	Smallmouth Bass	251	199	4	3094
20	1	Smallmouth Bass	225	147	2	
21	1	Smallmouth Bass	207	126	2	3093
22	1	Pumpkinseed	165	107		
23	1	White Perch	284	307	4	
24	1	White Perch	287	312	4	
25	1	White Perch	263	247	3	
26	1	White Perch	262	246	4	
27	1	White Perch	306	379	7	
28	1	White Perch	281	302	3	
29	1	White Perch	271	291	4	
30	1	White Perch	261	254	4	
31	1	White Perch	281	308	4	
32	1	White Perch	250	236	4	
33	1	White Perch	264	262	4	
34	1	White Perch	264	237	3	
35	1	White Perch	263	236	4	
36	1	White Perch	204	120	2	
37	1	White Perch	267	301	6	
38	1	White Perch	260	266	4	
39	1	White Perch	290	358	5	
40	1	White Perch	297	325	5	
41	1	White Perch	289	354	6	
42	1	White Perch	294	396	6	
43	1	White Perch	276	315	4	
44	1	White Perch	268	294	8	
45	1	White Perch	291	302	5	
46	1	White Perch	286	344	7	
47	1	White Perch	245	240	2	
48	1	White Perch	256	232	4	
49	1	White Perch	249	216	3	
50	1	White Perch	295	351	5	
51	1	White Perch	303	368	7	
52	1	White Perch	266	287	4	
53	1	White Perch	254	274	6	
54	1	White Perch	255	251	3	
55	1	White Perch	275	296	5	
56	1	White Perch	215	138	2	
57	1	White Perch	194	107	2	

END TIME: June 17, 1986 09:30
LOCATION: Rum Point
METHOD : Trap net, 20.2 Hours
SAMPLE : 9437

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	220	108	2	
2	1	Yellow Perch	178	72	1	
3	1	Yellow Perch	191	76	1	
4	1	Yellow Perch	182	72	1	
5	1	Rock Bass	202	164		
6	1	White Sucker	485	1030		

END TIME: June 18, 1986 08:45
LOCATION: Rum Point
METHOD : Trap net, 21.0 Hours
SAMPLE : 9448

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Sucker	491			
2	1	White Sucker	469	1120		
3	1	White Sucker	383	580		
4	1	White Perch	277	315	5	
5	1	White Perch	283	311	5	
6	1	White Perch	264	253	2	
7	1	White Perch	215	133	2	
8	1	White Perch	208	126	2	
9	1	White Perch	192	92	2	
10	1	Yellow Perch	261	202		
11	1	Yellow Perch	252	171	4	
12	1	Yellow Perch	234	137	3	
13	1	Yellow Perch	226	149	2	
14	1	Yellow Perch	233	128	5	
15	1	Yellow Perch	222	114	3	
16	1	Yellow Perch	203	80	3	
17	1	Yellow Perch	195	80	1	
18	1	Yellow Perch	194	77	1	
19	1	Yellow Perch	195	84	1	
20	1	Yellow Perch	176	69	2	
21	1	Yellow Perch	172	57	2	
22	1	Yellow Perch	169	58	2	
23	1	Yellow Perch	168	57	1	
24	1	Yellow Perch	155	47	3	
25	1	Pumpkinseed	178	141		
26	1	Pumpkinseed	160	116		
27	1	Spottail Shiner	104	12		
28	1	Spottail Shiner	103	11		

END TIME: June 18, 1986 09:15
LOCATION: Station 5-New Hampshire
METHOD : Trap net, 23.3 Hours
SAMPLE : 9449

No catch for this collection.

END TIME: June 18, 1986 09:25
LOCATION: Station 5-Vermont
METHOD : Trap net, 21.4 Hours
SAMPLE : 9450

No catch for this collection.

END TIME: June 18, 1986 09:40
LOCATION: New Hampshire Setback-Near Culvert to Butler Cove
METHOD : Trap net, 21.5 Hours
SAMPLE : 9451

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	202	77	3	
2	1	Yellow Perch	200	79	2	
3	1	Yellow Perch	105	12	1	
4	1	Yellow Perch	101	11	1	
5	1	Yellow Perch	102	13	1	
6	1	Yellow Perch	100	11	1	
7	1	Yellow Perch	112	13	1	
8	1	Yellow Perch	96	9.0	1	
9	1	Yellow Perch	112	14	1	
10	1	Yellow Perch	97	9.0	1	
11	1	Yellow Perch	116	17	1	
12	1	Yellow Perch	109	13	1	
13	1	Yellow Perch	110	15	1	
14	1	Yellow Perch	110	14	1	
15	1	Yellow Perch	107	12	1	
16	1	Yellow Perch	94	8.0	1	
17	1	Yellow Perch	93	8.0	1	
18	1	Yellow Perch	103	10	1	
19	1	Yellow Perch	106	13	1	
20	1	Pumpkinseed	78	8.0		
21	1	Pumpkinseed	119	35		
22	1	Eastern Silvery Minnow	121	15		

END TIME: June 18, 1986 10:15
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 21.5 Hours
SAMPLE : 9452

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	189	83	2	
2	1	Yellow Perch	125	21	1	
3	1	Yellow Perch	168	52	2	
4	1	Yellow Perch	175	64	1	
5	1	Yellow Perch	104	12	1	
6	1	Yellow Perch	115	19	1	
7	1	Yellow Perch	111	15	1	
8	1	Yellow Perch	116	19	1	
9	1	Yellow Perch	104	17	1	
10	1	Yellow Perch	103	13	1	
11	1	Yellow Perch	100	12	1	
12	1	Spottail Shiner	106	17		
13	1	Spottail Shiner				

END TIME: June 18, 1986 10:30
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 21.5 Hours
SAMPLE : 9453

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	264	245	4	
2	1	Smallmouth Bass	251	215		3089

END TIME: June 18, 1986 11:00
LOCATION: Station 4-Vermont
METHOD : Trap net, 20.3 Hours
SAMPLE : 9454

No catch for this collection.

END TIME: June 18, 1986 11:05
LOCATION: Station 4-Vermont
METHOD : Trap net, 20.3 Hours
SAMPLE : 9455

No catch for this collection.

END TIME: June 19, 1986 09:10
LOCATION: 0.1 Miles South of Vernon Dam
METHOD : Trap net, 20.5 Hours
SAMPLE : 9456

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	177	109		
2	1	Rock Bass	184	122		
3	1	Common Carp	644	3890		
4	1	Bluegill	180	135		
5	1	Bluegill	216	205		

END TIME: June 19, 1986 09:25
LOCATION: Station 3
METHOD : Trap net, 20.4 Hours
SAMPLE : 9457

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Sucker	450	939		
2	1	Rock Bass	188	122		
3	1	Rock Bass	180	104		
4	1	Rock Bass	170	95		
5	1	Rock Bass	169	95		
6	1	Smallmouth Bass	276	302	3	3530

END TIME: June 19, 1986 10:05
LOCATION: Stebbin Island-Vermont Side
METHOD : Trap net, 20.8 Hours
SAMPLE : 9458

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Sucker	419	755		
2	1	Rock Bass	185	152		
3	1	Bluegill	181	115		
4	1	Yellow Perch	100	9.0	0	
5	1	Mimic Shiner	61	1.0		

END TIME: June 19, 1986 10:30
LOCATION: Stebbin Island-New Hampshire Side
METHOD : Trap net, 21.1 Hours
SAMPLE : 9459

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	193	156		
2	1	Bluegill	192	133		

END TIME: June 19, 1986 10:50
LOCATION: Approximately 4.2 Miles South of Vernon Dam-VT Shore
METHOD : Trap net, 21.2 Hours
SAMPLE : 9460

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	197	94	1	

END TIME: June 19, 1986 11:05
LOCATION: Approximately 4.3 Miles South of Vernon Dam-VT Shore
METHOD : Trap net, 21.0 Hours
SAMPLE : 9461

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	167	55	2	
2	1	Yellow Perch	117	17	1	
3	1	Rock Bass	235	311		
4	1	Rock Bass	138	49		
5	1	Rock Bass	74	8.0		
6	1	Spottail Shiner	109	10		
7	1	Spottail Shiner	120	15		
8	1	Yellow Perch				

END TIME: June 20, 1986 09:00
LOCATION: 0.1 Miles South of Vernon Dam
METHOD : Trap net, 23.7 Hours
SAMPLE : 9466

No catch for this collection.

END TIME: June 20, 1986 09:05
LOCATION: Station 3
METHOD : Trap net, 23.2 Hours
SAMPLE : 9467

No catch for this collection.

END TIME: June 20, 1986 09:25
LOCATION: Stebbin Island-Vermont Side
METHOD : Trap net, 23.1 Hours
SAMPLE : 9468

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	322	455	4	3531
2	1	Blueback Herring	261	136		
3	1	Brown Bullhead	314	501		
4	1	Rock Bass	173	115		
5	1	Rock Bass	194	136		
6	1	Rock Bass	175	109		
7	1	Rock Bass	212	194		
8	1	Rock Bass	173	102		
9	1	Rock Bass	182	135		
10	1	Rock Bass	188	127		
11	1	Rock Bass	172	108		
12	1	Rock Bass	191	145		
13	1	Rock Bass	176	102		
14	1	Rock Bass	223	212		
15	1	Rock Bass	221	219		
16	1	Rock Bass	186	140		
17	1	Rock Bass	209	178		
18	1	Rock Bass	241	288		
19	1	Rock Bass	165	96		
20	1	Rock Bass	175	117		
21	1	Rock Bass	156	83		
22	1	Rock Bass	175	131		
23	1	Bluegill	190	161		
24	1	Bluegill	216	215		
25	1	Bluegill	194	147		
26	1	Bluegill	201	149		
27	1	Bluegill	191	151		
28	1	Bluegill	191	115		
29	1	Bluegill	163	92		

END TIME: June 20, 1986 10:00
LOCATION: Stebbin Island-New Hampshire Side
METHOD : Trap net, 23.4 Hours
SAMPLE : 9469

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Common Carp	628	3130		

END TIME: June 20, 1986 10:25
LOCATION: Approximately 4.2 Miles South of Vernon Dam-VT Shore
METHOD : Trap net, 23.4 Hours
SAMPLE : 9470

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Sea Lamprey	619	528		
2	1	Rock Bass	157	67		
3	1	Rock Bass	164	97		
4	1	Rock Bass	176	105		
5	1	Rock Bass	184	136		

END TIME: June 20, 1986 10:35
LOCATION: Approximately 4.3 Miles South of Vernon Dam-VT Shore
METHOD : Trap net, 23.4 Hours
SAMPLE : 9471

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	188	135		
2	1	Rock Bass	166	89		
3	1	Rock Bass	199	162		
4	1	Rock Bass	196	163		
5	1	Rock Bass	216	199		
6	1	Rock Bass	185	132		
7	1	Rock Bass	162	88		
8	1	Rock Bass	184	128		
9	1	Rock Bass	194	149		
10	1	Rock Bass	202	171		
11	1	Rock Bass	172	96		
12	1	Rock Bass	192	141		
13	1	Rock Bass	169	95		
14	1	Rock Bass	166	95		
15	1	Rock Bass	160	84		
16	1	Rock Bass	141	63		

END TIME: June 23, 1986 23:47
LOCATION: Station 2-Vermont
METHOD : Electrofishing, 0.2 Hours
SAMPLE : 9472

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Brown Trout	224	143		
2	1	Fallfish	202	103		
3	1	Rock Bass		207		
4	1	Fallfish	178	76		
5	1	White Sucker		64		
6	1	Bluegill		43		
7	1	Rock Bass		52		
8	1	White Sucker		702		
9	1	Yellow Perch		153		
10	1	White Sucker		26		
11	1	Fallfish	124	33		
12	4	Spottail Shiner		33		
13	1	Mimic Shiner		10		

END TIME: June 23, 1986 22:22
LOCATION: Stebbin Island-Vermont Side
METHOD : Electrofishing, 0.5 Hours
SAMPLE : 9473

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	3	American Eel		953		
2	7	White Sucker		7010		
3	1	American Shad	531	1350		
4	1	Blueback Herring	265	156		
5	1	American Shad	562	1310		
6	1	American Shad	358	301		
7	1	Blueback Herring	263	160		
8	1	American Shad	500	954		
9	1	American Shad	574	1310		
10	1	American Shad	495	883		
11	1	American Shad	425	529		
12	1	American Shad	498	948		
13	1	American Eel		561		
14	1	American Shad	408	510		
15	1	Smallmouth Bass	228	139	2	
16	1	Yellow Perch	242	162		
17	1	Smallmouth Bass	216	148	2	
18	1	Smallmouth Bass	368	578	6	3532
19	1	Yellow Perch	250	171		
20	1	Walleye	221	87	1	
21	1	Walleye	250	131	1	
22	2	Rock Bass		149		
23	1	Bluegill		79		
24	1	White Sucker		97		
25	1	Smallmouth Bass	193	104	1	
26	1	Smallmouth Bass	278	308	3	3533
27	1	Eastern Silvery Minnow				
28	1	Sea Lamprey		472		

END TIME: June 24, 1986 00:31
LOCATION: Stebbin Island-New Hampshire Side
METHOD : Electrofishing, 0.4 Hours
SAMPLE : 9474

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Common Carp		5620		
2	2	Common Carp		7980		
3	1	American Shad	540	1020		
4	1	American Shad	558	1380		
5	1	Fallfish	315	327		
6	1	American Shad	456	667		
7	1	American Shad	523	944		
8	1	Smallmouth Bass	251	212	3	3534
9	1	Smallmouth Bass	269	247	2	3535
10	1	Smallmouth Bass	268	246	3	
11	1	Smallmouth Bass	232	145	3	3536
12	1	Smallmouth Bass	266	225	3	3537
13	1	Smallmouth Bass	197	98	1	
14	1	Smallmouth Bass	193	103	2	
15	1	Bluegill		123		
16	1	Rock Bass		141		
17	1	Pumpkinseed		87		
18	3	Spottail Shiner		17		
19	1	Smallmouth Bass	206	123	2	
20	1	American Eel		54		
21	1	White Sucker		1670		
22	1	Smallmouth Bass	219	164	2	3538

END TIME: June 24, 1986 01:25
LOCATION: Station 3
METHOD : Electrofishing, 0.2 Hours
SAMPLE : 9475

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Northern Pike	695	1680		
2	4	Rock Bass		448		
3	1	Bluegill		164		
4	1	Smallmouth Bass	228	181	2	
5	1	Smallmouth Bass	260	234	2	3539
6	1	Smallmouth Bass	260	241	2	3540
7	1	Smallmouth Bass	236	208	3	3541
8	1	Smallmouth Bass	173	95	1	
9	1	Smallmouth Bass	138	69	1	
10	1	Smallmouth Bass	107	16	1	
11	1	White Sucker		23		
12	1	Fallfish	121	21		
13	1	Spottail Shiner		5.0		
14	1	Mimic Shiner		4.0		

END TIME: June 24, 1986 02:03
LOCATION: 0.1 Miles South of Vernon Dam
METHOD : Electrofishing, 0.2 Hours
SAMPLE : 9476

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	3	White Sucker		68		
2	2	Spottail Shiner		17		
3	1	Smallmouth Bass	268	242	2	
4	1	Chain Pickerel	460	538		
5	1	Smallmouth Bass	168	68	1	
6	1	Smallmouth Bass	184	78	1	
7	1	Smallmouth Bass	186	88	2	
8	1	Smallmouth Bass	267	224	2	3542
9	1	White Sucker		305		
10	2	American Eel		73		

END TIME: June 24, 1986 21:20
LOCATION: Rum Point
METHOD : Electrofishing, 0.2 Hours
SAMPLE : 9481

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	7	White Sucker		5550		
2	14	Yellow Perch		933		
3	1	White Perch	210	182		
4	3	Spottail Shiner		51		
5	1	Smallmouth Bass	196	115	2	
6	1	Smallmouth Bass	179	95	2	

END TIME: June 24, 1986 22:04
LOCATION: Station 5-Vermont
METHOD : Electrofishing, 0.4 Hours
SAMPLE : 9482

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	3	American Eel		993		
2	6	White Sucker		4630		
3	20	White Perch		4710		
4	1	Walleye	434	732	4	
5	1	White Sucker		96		
6	1	Yellow Perch		121		
7	1	Yellow Perch		62		
8	1	Yellow Perch	120	33	1	
9	1	Yellow Perch	123	32	1	
10	1	Yellow Perch	126	32	1	
11	1	Yellow Perch	107	23	1	
12	1	Yellow Perch	114	28	1	
13	1	Yellow Perch	142	37	1	
14	1	Yellow Perch	115	26	1	
15	1	Yellow Perch	108	26	1	
16	13	Spottail Shiner		145		
17	1	Yellow Perch	122	28	1	
18	1	Smallmouth Bass	125	47	1	

END TIME: June 24, 1986 22:49
LOCATION: Station 5-New Hampshire
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 9483

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	7	White Sucker		2040		
2	11	White Perch		3020		
3	1	Largemouth Bass	338	522	3	
4	1	Smallmouth Bass	133	51	1	
5	1	Smallmouth Bass	153	57	2	
6	2	Bluegill		211		
7	1	Rock Bass		72		
8	1	Pumpkinseed		51		
9	3	Spottail Shiner		54		
10	17	Yellow Perch		501		
11	1	Yellow Perch	118	33	1	
12	1	Yellow Perch	111	35	1	
13	1	Yellow Perch	108	34	1	
14	1	Yellow Perch	107	31	1	
15	1	Yellow Perch	101	23	1	
16	1	Yellow Perch	107	24	1	
17	1	Yellow Perch	189	94	2	

END TIME: June 24, 1986 23:36
LOCATION: New Hampshire Setback-Near Culvert to Butler Cove
METHOD : Electrofishing, 0.4 Hours
SAMPLE : 9484

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Common Carp		4380		
2	14	Bluegill		870		
3	11	Pumpkinseed		720		
4	1	Largemouth Bass	391	841	4	
5	1	Largemouth Bass	369	745	3	
6	1	Largemouth Bass	173	76	1	
7	1	Largemouth Bass	358	648	3	
8	1	White Perch	122	28	1	
9	1	White Perch	112	26	1	
10	1	Largemouth Bass	237	164	2	
11	1	Largemouth Bass	294	321	1	
12	1	Largemouth Bass	183	106	1	
13	1	Largemouth Bass	198	121	1	
14	1	Largemouth Bass	137	57	1	
15	2	Bluegill		121		
16	1	Pumpkinseed		77		
17	3	White Sucker		107		
18	3	Yellow Perch		93		
19	4	Golden Shiner		57		
20	1	White Sucker		26		

END TIME: June 25, 1986 00:30
LOCATION: Station 4-Vermont
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 9485

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	186	106	1	
2	11	White Sucker		2110		
3	1	White Perch	284	339	5	
4	1	White Perch	268	282	3	
5	1	White Perch	270	337	4	
6	1	White Perch	302	414	5	
7	1	White Perch	265	316	2	
8	1	White Perch	202	159	2	
9	1	White Perch	217	151	2	
10	1	White Perch	268	365	5	
11	12	Spottail Shiner		157		
12	11	Yellow Perch		620		

END TIME: June 25, 1986 01:04
LOCATION: Station 4-New Hampshire
METHOD : Electrofishing, 0.2 Hours
SAMPLE : 9486

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	American Eel		455		
2	8	White Sucker		997		
3	8	White Perch		1450		
4	1	Pumpkinseed		49		
5	3	Yellow Perch		66		
6	2	Spottail Shiner		26		

END TIME: September 8, 1986 20:31
LOCATION: Rum Point
METHOD : Electrofishing, 0.2 Hours
SAMPLE : 10103

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	278	392	6	
2	1	White Perch	273	325	4	
3	1	White Perch	307	447	5	
4	1	Walleye	574	1650	8	
5	1	Yellow Perch	201	103	3	
6	1	Yellow Perch	188	76	3	
7	1	Yellow Perch	145	43	1	
8	1	Yellow Perch	232	148	3	
9	1	Yellow Perch	140	36	1	
10	1	Yellow Perch	190	88	2	
11	1	Yellow Perch	158	50	1	
12	1	Yellow Perch	149	46	1	
13	1	Rock Bass	183	129		
14	1	Rock Bass	174	122		
15	1	Golden Shiner	218	136		
16	1	Bluegill	178	151		
17	1	Smallmouth Bass	257	213	2	3077
18	1	Smallmouth Bass	97	23	0	
19	1	Yellow Perch	133	34	1	
20	1	White Sucker	243	154		
21	1	White Sucker	242	162		
22	1	White Sucker	208	112		
23	1	White Sucker	207	101		
24	1	White Sucker	179	74		
25	1	White Sucker	174	65		
26	1	White Sucker	104	25		
27	5	Spottail Shiner		58		
28	1	Mimic Shiner	64	15		
29	1	Yellow Perch	67	18	0	

END TIME: September 8, 1986 21:29
LOCATION: Station 5-Vermont
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 10104

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	269	276	3	
2	1	White Perch	186	90	1	
3	1	White Perch	244	234	3	
4	1	Yellow Perch	248	182	3	
5	1	Yellow Perch	146	36	1	
6	1	Yellow Perch	158	47	1	
7	1	Yellow Perch	148	45	1	
8	1	Yellow Perch	145	43	1	
9	1	Yellow Perch	128	29	1	
10	1	Yellow Perch	142	27	1	
11	1	Yellow Perch	122	22	1	
12	1	Yellow Perch	138	18	1	
13	1	Pumpkinseed	187	146		
14	1	Yellow Perch	138	36	1	
15	1	Pumpkinseed	180	144		
16	1	Yellow Perch	140	31	1	
17	1	Largemouth Bass	98	18	0	
18	1	Largemouth Bass	114	19	0	
19	1	Smallmouth Bass	231	152	2	3078
20	17	Spottail Shiner		129		
21	1	Largemouth Bass	198	107	1	
22	1	Golden Shiner	129	28		
23	1	Rock Bass	39	2.0		
24	1	Lepomis sp.	47	2.0		
25	1	Yellow Perch	140	32	1	
26	1	Yellow Perch	151	39	1	
27	3	Spottail Shiner		32		
28	8	White Sucker		670		

END TIME: September 8, 1986 22:56
LOCATION: Station 5-New Hampshire
METHOD : Electrofishing, 0.4 Hours
SAMPLE : 10105

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Walleye	488	745	5	
2	1	Largemouth Bass	364	755	4	
3	1	Largemouth Bass	261	279	2	
4	1	Largemouth Bass	258	258	1	
5	1	Largemouth Bass	148	38	0	
6	1	Pumpkinseed	161	98		
7	1	Bluegill	194	171		
8	1	White Perch	261	305	7	
9	1	Largemouth Bass	256	283	3	
10	1	Yellow Perch	118	19	1	
11	1	Yellow Perch	118	23	1	
12	1	Yellow Perch	133	26	1	
13	1	Largemouth Bass	77		0	
14	8	Yellow Perch		176		
15	1	Yellow Perch	113	14	1	
16	1	Yellow Perch	135	18	1	
17	1	Yellow Perch	133	23	1	
18	1	Yellow Perch	79	4.0	0	
19	1	Yellow Perch	122	22	1	
20	1	Yellow Perch	134	26	1	
21	6	White Sucker		714		
22	6	Spottail Shiner		65		
23	1	Golden Shiner	138	31		
24	1	Golden Shiner	124	22		

END TIME: September 8, 1986 23:56
LOCATION: New Hampshire Setback-Near Culvert to Butler Cove
METHOD : Electrofishing, 0.4 Hours
SAMPLE : 10106

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Largemouth Bass	393	1030	3	
2	1	Largemouth Bass	343	610	2	
3	1	Largemouth Bass	328	505	2	
4	1	Largemouth Bass	264	273	1	
5	1	Largemouth Bass	408	1190	5	
6	1	White Perch	293	382	5	
7	1	Largemouth Bass	228	173	1	
8	1	Smallmouth Bass	197	108	2	
9	1	Pumpkinseed	171	119		
10	1	Pumpkinseed	139	85		
11	1	Pumpkinseed	150	102		
12	1	Pumpkinseed	178	158		
13	1	Pumpkinseed	153	92		
14	1	Pumpkinseed	144	84		
15	1	Bluegill	171	128		
16	1	Bluegill	156	95		
17	1	Largemouth Bass	110	33	0	
18	1	Largemouth Bass	263	244	1	
19	1	Largemouth Bass	219	168	2	
20	1	Largemouth Bass	222	171	1	
21	1	Bluegill	168	119		
22	1	Bluegill	162	111		
23	1	Pumpkinseed	121	53		
24	1	Pumpkinseed	140	75		
25	1	Largemouth Bass	109	36	0	
26	1	Largemouth Bass	278	349	1	
27	1	Largemouth Bass	208	144	1	
28	1	Bluegill	166	125		
29	1	Bluegill	176	148		
30	1	Bluegill	128	66		
31	2	Spottail Shiner		36		
32	1	Yellow Perch	76	45	0	
33	1	Yellow Perch	130	25	1	
34	1	Spottail Shiner		14		
35	1	White Sucker		587		

END TIME: September 9, 1986 19:57
LOCATION: Station 4-Vermont
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 10107

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Largemouth Bass	456	1470	7	
2	1	Walleye	524	1270	5	
3	1	Largemouth Bass	373	745	3	
4	1	Bluegill	177	124		
5	1	Smallmouth Bass	168	58	1	
6	24	Spottail Shiner		212		
7	1	Golden Shiner	156	43		
8	3	Yellow Perch		86		
9	14	Spottail Shiner		110		
10	1	Bluegill	38	1.0		
11	1	Bluegill	42	1.0		
12	1	Bluegill	44	1.0		
13	1	Bluegill	36	1.0		
14	1	Rock Bass	93	16		
15	1	Golden Shiner	148	26		
16	1	Smallmouth Bass	147	36	1	
17	7	Spottail Shiner		63		
18	1	Mimic Shiner	54	1.0		
19	1	Yellow Perch	205	105	2	
20	1	Yellow Perch	137	29	1	
21	1	Yellow Perch	158	43	1	
22	1	Yellow Perch	126	22	1	
23	1	Yellow Perch	146	33	1	
24	1	Yellow Perch	155	45	1	
25	1	Yellow Perch	193	77	2	
26	1	Yellow Perch	136	33	1	
27	1	Yellow Perch	138	35	1	
28	1	Yellow Perch	133	30	1	
29	1	Yellow Perch	126	28	1	
30	1	Yellow Perch	89	12	0	
31	1	Largemouth Bass	112	22	0	
32	22	White Sucker		2600		
33	1	Common Carp		1370		

END TIME: September 9, 1986 20:58
LOCATION: Station 4-New Hampshire
METHOD : Electrofishing, 0.4 Hours
SAMPLE : 10108

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	238	148	2	3079
2	1	Yellow Perch	158	44	1	
3	1	Yellow Perch	177	56	1	
4	1	Yellow Perch	138	29	1	
5	1	Yellow Perch	176	56	1	
6	1	Yellow Perch	135	28	1	
7	1	Smallmouth Bass	215	121	2	
8	1	Yellow Perch	149	40	1	
9	1	Smallmouth Bass	213	130	2	
10	1	Rock Bass	182	128		
11	1	Rock Bass	184	117		
12	1	Bluegill	178	119		
13	2	Yellow Perch		57		
14	3	Spottail Shiner		23		
15	1	Smallmouth Bass	163	57	1	
16	6	Yellow Perch		172		
17	1	Rock Bass	175	116		
18	1	Smallmouth Bass	211	123	2	
19	3	Yellow Perch		86		
20	2	Spottail Shiner		23		
21	1	Smallmouth Bass	164	64	1	
22	1	White Sucker		1070		
23	1	American Eel		576		

END TIME: September 15, 1986 20:00
LOCATION: Stebbin Island-Vermont Side
METHOD : Electrofishing, 0.7 Hours
SAMPLE : 10138

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	278	278	3	3549
2	1	Fallfish	285	250		
3	1	Fallfish	143	32		
4	1	Smallmouth Bass	198	100	2	
5	1	Smallmouth Bass	175	82	2	
6	1	Smallmouth Bass	243	192	2	
7	1	Smallmouth Bass	157	55	1	
8	1	Smallmouth Bass	129	32	1	
9	1	Smallmouth Bass	287	318	3	
10	1	Smallmouth Bass	229	480	4	3547
11	1	Smallmouth Bass	237	182	2	
12	1	Smallmouth Bass	159	55	1	
13	1	Smallmouth Bass	195	112	1	
14	1	Smallmouth Bass	240	200	2	3546
15	1	Smallmouth Bass	139	30	1	
16	1	Smallmouth Bass	222	130	2	
17	1	Smallmouth Bass	300	322	3	3545
18	1	Smallmouth Bass	218	132	2	
19	1	Smallmouth Bass	211	117	2	
20	1	Smallmouth Bass	139	25	1	
21	1	Smallmouth Bass	144	33	1	
22	1	Smallmouth Bass	140	30	1	
23	1	White Sucker	191	60		
24	1	Fallfish	157	37		
25	1	Fallfish	173	46		
26	1	Yellow Perch	180	70		
27	1	Rock Bass	220	192		
28	1	Rock Bass	180	113		
29	1	Rock Bass	225	235		
30	1	Rock Bass	206	165		
31	1	Rock Bass	191	150		
32	1	Rock Bass	188	122		
33	1	Rock Bass	155	81		
34	1	American Eel		28		
35	1	White Sucker	405	800		
36	1	White Sucker	411	930		
37	1	White Sucker	455	1050		
61	1	American Shad	78	3.8		
62	1	American Shad	81	4.2		
63	1	American Shad	90	6.0		
64	1	American Shad	80	4.3		
65	1	American Shad	73	3.3		
66	1	American Shad	86	5.8		
67	1	American Shad	83	4.6		
68	1	American Shad	76	3.4		
69	1	American Shad	75	3.6		
70	1	American Shad	71	2.9		
71	1	American Shad	81	5.0		
72	1	American Shad	76	3.6		
73	1	American Shad	79	3.9		
74	1	American Shad	70	2.8		
75	1	American Shad	82	4.9		
76	1	American Shad	75	3.5		
77	1	American Shad	79	4.2		
78	1	American Shad	80	4.2		
79	1	American Shad	71	3.0		
80	1	American Shad	74	3.4		
81	1	American Shad	88	5.9		
82	1	American Shad	73	3.2		
83	1	American Shad	75	3.5		
84	1	American Shad	81	4.1		

(CONTINUED)
END TIME: September 15, 1986 20:00
LOCATION: Stebbin Island-Vermont Side
METHOD : Electrofishing, 0.7 Hours
SAMPLE : 10138

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
85	1	American Shad	78	4.0		
86	1	American Shad	79	4.0		
87	1	American Shad	87	5.5		
88	1	American Shad	87	5.2		
89	1	American Shad	71	2.7		
90	1	American Shad	71	3.1		
91	1	American Shad	80	4.2		
92	1	American Shad	76	3.5		
93	1	American Shad	76	3.7		
94	1	American Shad	81	4.5		
95	1	American Shad	80	4.2		
96	1	Largemouth Bass	130	34		
97	1	Largemouth Bass	90	9.5		
98	1	Rock Bass	87	13		
99	1	Rock Bass	75	8.8		
100	1	Spottail Shiner	96	6.9		
101	1	Spottail Shiner	120	13		
102	1	Spottail Shiner	96	7.2		
103	1	Spottail Shiner	90	5.1		
104	1	Spottail Shiner	93	6.3		
105	1	Spottail Shiner	92	5.9		
106	1	Spottail Shiner	93	6.0		
107	1	Spottail Shiner	92	6.2		
108	1	Spottail Shiner	93	6.4		
109	1	Spottail Shiner	97	6.7		
110	1	Spottail Shiner	95	6.8		
111	1	Spottail Shiner	95	6.4		
112	1	Spottail Shiner	100	7.5		
113	1	Spottail Shiner	89	5.3		
114	1	Spottail Shiner	82	4.7		
115	1	Spottail Shiner	87	5.4		
116	1	Spottail Shiner	90	5.9		
117	1	Spottail Shiner	93	6.3		
118	1	Spottail Shiner	94	6.4		
119	1	Spottail Shiner	100	7.7		
120	1	Spottail Shiner	89	6.0		
121	1	Spottail Shiner	87	5.7		
122	1	Spottail Shiner	91	5.5		
123	1	Spottail Shiner	97	6.9		
124	1	Spottail Shiner	89	5.4		
125	1	Spottail Shiner	90	5.8		
126	1	Spottail Shiner	97	7.0		
127	1	Spottail Shiner	93	6.6		
128	1	Spottail Shiner	92	6.8		
129	1	Spottail Shiner	88	5.7		
130	1	Spottail Shiner	88	5.2		
131	1	Spottail Shiner	94	7.1		
132	1	Spottail Shiner	88	5.3		
133	1	Spottail Shiner	94	7.0		
134	1	Spottail Shiner	97	7.2		
135	1	Spottail Shiner	91	7.1		
136	1	Spottail Shiner	93	7.0		
137	1	Spottail Shiner	90	5.5		
138	1	Spottail Shiner	85	5.0		
139	1	Spottail Shiner	95	6.4		
140	1	Spottail Shiner	94	7.0		
141	1	Spottail Shiner	93	6.1		
142	1	Spottail Shiner	88	5.3		
143	1	Spottail Shiner	70	3.4		
144	1	Spottail Shiner	85	5.0		
145	1	Spottail Shiner	88	5.0		

(CONTINUED)
END TIME: September 15, 1986 20:00
LOCATION: Stebbin Island-Vermont Side
METHOD : Electrofishing, 0.7 Hours
SAMPLE : 10138

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
146	1	Spottail Shiner	89	5.9		
147	1	Spottail Shiner	88	5.1		
148	1	Spottail Shiner	85	4.7		
149	1	Spottail Shiner	93	6.5		
151	1	Mimic Shiner	53	1.5		
152	1	Mimic Shiner	63	2.4		
153	1	Mimic Shiner	63	2.3		
154	1	Mimic Shiner	66	2.6		
155	1	Mimic Shiner	61	2.0		
156	1	Mimic Shiner	65	2.5		
157	1	Mimic Shiner	69	2.9		
158	1	Mimic Shiner	65	2.3		
159	1	Mimic Shiner	60	1.7		
160	1	Mimic Shiner	70	3.1		
161	1	Mimic Shiner	67	2.3		
162	1	Mimic Shiner	62	2.3		
163	1	Mimic Shiner	67	2.6		
164	1	Mimic Shiner	57	1.6		
165	1	Mimic Shiner	74	3.4		
166	1	Mimic Shiner	66	2.6		
167	1	Mimic Shiner	66	2.4		
168	1	Mimic Shiner	67	2.7		
169	1	Mimic Shiner	68	2.6		
170	1	Mimic Shiner	53	1.2		
171	1	Mimic Shiner	56	1.7		
172	1	Mimic Shiner	63	1.9		
173	1	Mimic Shiner	52	1.3		
174	1	Mimic Shiner	66	2.7		
175	1	Mimic Shiner	67	2.6		
176	1	Mimic Shiner	61	2.0		
177	1	Mimic Shiner	59	1.6		
178	1	Mimic Shiner	63	2.3		
179	1	Mimic Shiner	57	1.6		
180	1	Mimic Shiner	59	1.8		
181	1	Mimic Shiner	65	2.4		
182	1	Mimic Shiner	51	1.2		
183	1	Mimic Shiner	55	1.4		
184	1	Mimic Shiner	56	1.7		
185	1	Mimic Shiner	52	1.3		
186	1	Mimic Shiner	55	1.4		
187	1	Mimic Shiner	56	1.6		
188	1	Mimic Shiner	53	1.3		
189	1	Mimic Shiner	51	1.2		
190	1	Spottail Shiner	104	6.4		

END TIME: September 15, 1986 21:20
LOCATION: Stebbin Island-New Hampshire Side
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 10139

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	American Eel		618		
2	1	Smallmouth Bass	218	140	3	
3	1	Smallmouth Bass	208	115	2	
4	1	Largemouth Bass	133	35		
5	1	Smallmouth Bass	151	50	1	
6	1	Rock Bass	159	82		
7	1	Rock Bass	165	101		
8	1	Rock Bass	97	23		
9	1	Rock Bass	203	178		
10	1	Rock Bass	199	153		
11	1	Rock Bass	103	25		
12	1	Brown Bullhead	190	79		
13	1	Largemouth Bass	125	170		
14	1	Largemouth Bass	192	116		
15	1	Pumpkinseed	113	33		
16	1	Pumpkinseed	104	27		
17	1	Pumpkinseed	94	20		
18	1	Fallfish	140	30		
19	1	Fallfish	116	20		
20	1	Yellow Perch	155	42	1	
21	1	Yellow Perch	135	31	1	
22	1	Yellow Perch	140	32	1	
23	1	White Sucker	175	60		
24	1	Yellow Perch	148	40	1	
25	1	Yellow Perch	127	32	1	
26	1	Yellow Perch	136	40	1	
27	1	Pumpkinseed	96	23		
28	1	Largemouth Bass	89	16		
29	1	White Sucker	395	620		
31	1	American Shad	70	2.8		
32	1	American Shad	80	4.3		
33	1	American Shad	73	3.0		
34	1	American Shad	73	2.8		
35	1	American Shad	80	4.2		
36	1	American Shad	75	3.3		
37	1	American Shad	77	3.7		
38	1	American Shad	78	3.7		
39	1	American Shad	74	3.2		
40	1	American Shad	70	2.6		
41	1	American Shad	79	3.8		
42	1	American Shad	85	5.3		
43	1	Yellow Perch	85	7.4		
44	1	Yellow Perch	88	7.5		
45	1	Yellow Perch	86	6.4		
46	1	Yellow Perch	85	7.5		
47	1	Yellow Perch	85	7.5		
48	1	Yellow Perch	80	5.5		
49	1	Yellow Perch	74	4.2		
50	1	Yellow Perch	78	4.8		
51	1	Yellow Perch	81	5.2		
52	1	Yellow Perch	83	6.4		
53	1	Rock Bass	82	10		
54	1	Rock Bass	97	18		
55	1	Rock Bass	78	9.0		
56	1	Smallmouth Bass	76	5.7		
57	1	Smallmouth Bass	59	2.5		
58	1	Smallmouth Bass	58	2.4		
59	1	Smallmouth Bass	54	2.0		
60	1	Largemouth Bass	73	4.8		
61	1	Bluegill	56	3.1		
62	1	Bluegill	50	2.1		

(CONTINUED)
END TIME: September 15, 1986 21:20
LOCATION: Stebbin Island-New Hampshire Side
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 10139

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
63	1	Bluegill	42	1.4		
64	1	Bluegill	41	1.4		
65	1	Golden Shiner	91	7.3		
66	1	Smallmouth Bass	49	1.6		
67	1	White Sucker	90	8.4		
68	1	White Sucker	83	5.4		
69	1	White Sucker	73	4.0		
70	1	White Sucker	86	7.2		
71	1	White Sucker	83	5.9		
72	1	White Sucker	67	3.1		
73	1	White Sucker	89	7.8		
74	1	White Sucker	77	5.1		
75	1	White Sucker	67	3.1		
76	1	Yellow Perch	81	5.6		
77	1	White Sucker	62	2.7		
78	1	Spottail Shiner	94	6.2		
79	1	Spottail Shiner	90	5.4		
80	1	Spottail Shiner	91	6.0		
81	1	Spottail Shiner	93	6.2		
82	1	Spottail Shiner	107	10		
83	1	Spottail Shiner	109	11		
84	1	Spottail Shiner	110	13		
85	1	Spottail Shiner	82	4.8		
86	1	Spottail Shiner	81	4.3		
87	1	Spottail Shiner	90	5.6		
88	1	Spottail Shiner	95	6.3		
89	1	Spottail Shiner	95	6.4		
90	1	Spottail Shiner	114	11		
91	1	Spottail Shiner	92	6.4		
92	1	Spottail Shiner	93	6.6		
93	1	Spottail Shiner	87	4.8		
94	1	Spottail Shiner	92	6.2		
95	1	Spottail Shiner	90	5.9		
96	1	Spottail Shiner	88	5.0		
97	1	Spottail Shiner	90	6.3		
98	1	Spottail Shiner	92	6.1		
99	1	Spottail Shiner	93	6.2		
100	1	Spottail Shiner	92	6.3		
101	1	Spottail Shiner	89	5.7		
102	1	Spottail Shiner	89	5.8		
103	1	Spottail Shiner	114	13		
104	1	Spottail Shiner	98	7.4		
105	1	Spottail Shiner	91	6.0		
106	1	Spottail Shiner	91	5.3		
107	1	Spottail Shiner	88	5.2		
108	1	Spottail Shiner	87	5.7		
109	1	Spottail Shiner	89	5.7		
110	1	Spottail Shiner	85	5.1		
111	1	Spottail Shiner	93	6.1		
112	1	Spottail Shiner	94	6.6		
113	1	Spottail Shiner	88	6.0		
114	1	Spottail Shiner	66	2.7		
115	1	Spottail Shiner	95	6.6		
116	1	Spottail Shiner	85	5.2		
117	1	Spottail Shiner	87	5.7		
118	1	Spottail Shiner	83	4.4		
119	1	Spottail Shiner	89	5.4		
120	1	Spottail Shiner	88	5.0		
121	1	Spottail Shiner	89	6.0		
122	1	Spottail Shiner	90	5.7		
123	1	Spottail Shiner	93	6.7		

(CONTINUED)

END TIME: September 15, 1986 21:20
LOCATION: Stebbin Island-New Hampshire Side
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 10139

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
124	1	Spottail Shiner	92	6.6		
125	1	Spottail Shiner	94	6.9		
126	1	Spottail Shiner	55	1.4		
127	1	Golden Shiner	53	1.1		
151	1	Spottail Shiner	91	5.6		
152	1	Spottail Shiner	61	1.9		
153	1	Spottail Shiner	50	0.9		
154	1	Spottail Shiner	54	1.4		
155	1	Spottail Shiner	50	1.0		
156	1	Spottail Shiner	48	1.2		
157	1	Spottail Shiner	54	1.4		
158	1	Spottail Shiner	58	1.8		
159	1	Mimic Shiner	48	0.9		
160	1	Mimic Shiner	63	1.9		
161	1	Mimic Shiner	51	1.1		
162	1	Mimic Shiner	53	1.3		
163	1	Mimic Shiner	48	1.0		
164	1	Mimic Shiner	62	2.3		
165	1	Mimic Shiner	46	0.7		
166	1	Mimic Shiner	60	1.9		
167	1	Mimic Shiner	49	1.1		
168	1	Mimic Shiner	48	0.9		
169	1	Spottail Shiner	47	0.8		
170	1	Yellow Perch	86	8.0		
171	1	Yellow Perch	84	7.0		
172	1	Bluegill	55	2.8		
173	1	Rock Bass	42	1.5		
174	1	Smallmouth Bass	52	2.0		
175	1	White Sucker	74	4.8		
176	1	Mimic Shiner	53	1.3		
177	1	Mimic Shiner	65	2.5		
178	1	Mimic Shiner	59	2.1		
179	1	Mimic Shiner	62	2.2		
180	1	Spottail Shiner	90	6.1		

END TIME: September 15, 1986 22:35
LOCATION: Station 3
METHOD : Electrofishing, 0.4 Hours
SAMPLE : 10140

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	186	142		
2	1	Rock Bass	180	113		
3	1	Rock Bass	205	190		
4	1	Rock Bass	162	92		
5	1	Rock Bass	171	110		
6	1	Rock Bass	161	90		
7	1	Smallmouth Bass	166	52	1	
8	1	Smallmouth Bass	160	49	1	
9	1	Smallmouth Bass	168	62	1	
10	1	Smallmouth Bass	141	33	1	
11	1	Smallmouth Bass	125	25	1	
12	1	Smallmouth Bass	160	52	1	
13	1	Smallmouth Bass	60	5.0		
14	1	Smallmouth Bass	64	4.0	0	
15	1	Smallmouth Bass	60	3.0	0	
16	1	Smallmouth Bass	66	4.0	0	
17	1	Smallmouth Bass	51		0	
18	1	Fallfish	137	27		
19	1	Smallmouth Bass	142		1	
20	1	Smallmouth Bass	135	30	1	
21	1	Fallfish	150	36		
22	1	Yellow Perch	135	32	2	
23	1	Yellow Perch	142	37	1	
24	1	Yellow Perch	135	30	2	
25	1	Yellow Perch	140	30	1	
26	1	Rock Bass	172	114		
31	1	American Shad	83	4.7		
32	1	American Shad	73	3.0		
33	1	American Shad	81	4.4		
34	1	American Shad	84	4.7		
35	1	American Shad	80	3.8		
36	1	American Shad	82	4.2		
37	1	American Shad	75	3.0		
38	1	American Shad	78	3.6		
39	1	American Shad	81	4.3		
40	1	American Shad	86	4.9		
41	1	American Shad	81	3.9		
42	1	American Shad	81	3.9		
43	1	American Shad	86	5.1		
44	1	American Shad	84	4.1		
45	1	American Shad	76	3.9		
46	1	American Shad	84	4.7		
47	1	American Shad	83	4.6		
48	1	American Shad	73	2.9		
49	1	American Shad	81	4.2		
50	1	American Shad	83	4.9		
51	1	American Shad	84	5.0		
52	1	American Shad	76	3.5		
53	1	American Shad	82	4.1		
54	1	American Shad	82	4.5		
55	1	American Shad	80	4.0		
56	1	American Shad	79	3.9		
57	1	American Shad	86	5.0		
58	1	American Shad	77	3.3		
59	1	American Shad	84	4.5		
60	1	American Shad	85	4.7		
61	1	American Shad	82	4.2		
62	1	American Shad	85	4.8		
63	1	American Shad	75	3.0		
64	1	American Shad	77	3.3		
65	1	American Shad	78	3.7		

(CONTINUED)
END TIME: September 15, 1986 22:35
LOCATION: Station 3
METHOD : Electrofishing, 0.4 Hours
SAMPLE : 10140

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
66	1	American Shad	88	5.7		
67	1	American Shad	86	4.9		
68	1	American Shad	81	4.5		
69	1	Smallmouth Bass	78	6.7		
70	1	Smallmouth Bass	57	2.7		
71	1	Smallmouth Bass	63	3.5		
72	1	Smallmouth Bass	66	4.0		
73	1	Smallmouth Bass	73	5.2		
74	1	Smallmouth Bass	57	2.5		
75	1	Spottail Shiner	98	8.1		
76	1	Spottail Shiner	93	6.9		
77	1	Spottail Shiner	91	6.9		
78	1	Spottail Shiner	57	1.7		
79	1	Spottail Shiner	60	2.0		
80	1	Spottail Shiner	62	2.1		
81	1	Spottail Shiner	56	1.5		
82	1	Mimic Shiner	64	2.5		
83	1	Mimic Shiner	49	1.1		
84	1	Mimic Shiner	47	1.0		
85	1	Mimic Shiner	46	1.0		
86	1	Mimic Shiner	52	1.5		
87	1	Mimic Shiner	57	1.9		
88	1	Mimic Shiner	62	2.3		
89	1	Mimic Shiner	52	1.2		
90	1	Mimic Shiner	52	1.3		
91	1	Mimic Shiner	53	1.2		
92	1	Mimic Shiner	53	1.4		
93	1	Mimic Shiner	56	1.4		
94	1	Mimic Shiner	54	1.6		
95	1	Mimic Shiner	53	1.4		
96	1	Mimic Shiner	53	1.5		
97	1	Mimic Shiner	52	1.3		
98	1	Mimic Shiner	47	1.0		
99	1	Mimic Shiner	51	1.3		
100	1	Mimic Shiner	58	1.8		
101	1	Mimic Shiner	57	1.7		
102	1	Mimic Shiner	58	1.8		
103	1	Mimic Shiner	54	1.4		
104	1	Mimic Shiner	55	1.4		
105	1	Mimic Shiner	49	1.2		
106	1	Mimic Shiner	52	1.3		
107	1	Mimic Shiner	53	1.3		
108	1	Mimic Shiner	53	1.4		
109	1	Mimic Shiner	55	1.4		
110	1	Mimic Shiner	50	1.1		
111	1	Mimic Shiner	52	1.2		
112	1	Mimic Shiner	52	1.3		
113	1	Mimic Shiner	48	1.0		
114	1	Mimic Shiner	49	1.1		
115	1	Mimic Shiner	49	1.0		
116	1	Mimic Shiner	51	1.3		
117	1	Mimic Shiner	32	0.3		
118	1	American Eel	203	16		

END TIME: September 16, 1986 10:00
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 18.8 Hours
SAMPLE : 10141

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Bluegill	165	100		
2	1	Mimic Shiner	100	7.0		

END TIME: September 16, 1986 10:30
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 18.8 Hours
SAMPLE : 10142

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	13	Spottail Shiner		105		
2	1	Smallmouth Bass	335	445		3024
3	1	White Perch	284	365	4	
4	1	Rock Bass	220	248		
5	1	Rock Bass	208	205		
6	1	Golden Shiner	244	170		
7	1	Pumpkinseed	159	86		
8	1	Yellow Perch	136			
9	1	Yellow Perch	139	21	1	
10	1	Yellow Perch	145	27	1	
11	1	Yellow Perch	142	27	1	
12	1	Yellow Perch	137	24	1	
13	1	Yellow Perch	138	22	1	
14	1	Yellow Perch	140	21	1	
15	1	Yellow Perch	154	30	1	
16	1	Yellow Perch	135	21		
17	1	Yellow Perch	140	19	1	
18	1	Yellow Perch	130	19	1	
19	1	Spottail Shiner	101	7.0		
20	1	Spottail Shiner	100	7.0		
21	1	Pumpkinseed	149	64		
31	1	Spottail Shiner	97	9.2		

END TIME: September 16, 1986 11:10
LOCATION: Station 4-Vermont
METHOD : Trap net, 18.9 Hours
SAMPLE : 10143

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	279	271		3022
2	1	Smallmouth Bass	160	47	1	
3	1	Pumpkinseed	180	155		
4	1	Pumpkinseed	172	132		
5	1	Rock Bass	119	28		
6	1	Yellow Perch	154	30	1	

END TIME: September 16, 1986 11:40
LOCATION: Station 4-Vermont
METHOD : Trap net, 19.0 Hours
SAMPLE : 10144

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Walleye	450	705	3	
2	1	Walleye	327	262	2	
3	1	Smallmouth Bass	342	495	3	3021
4	1	White Sucker	440	950		
5	1	Smallmouth Bass	282	238	3	3020
6	1	Smallmouth Bass	240	169	2	
7	1	Smallmouth Bass	217	125	2	
8	1	White Perch	240	167	2	
9	1	White Perch	255	230		
10	1	Rock Bass	175	116		
11	1	Bluegill	170	128		
12	1	Yellow Perch	205	85	2	

END TIME: September 16, 1986 12:20
LOCATION: New Hampshire Setback-Near Culvert to Butler Cove
METHOD : Trap net, 19.3 Hours
SAMPLE : 10145

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Largemouth Bass	121	22		
2	1	Largemouth Bass	75	5.0		
3	1	Largemouth Bass	74	5.0		
4	1	Spottail Shiner	105	7.0		
5	1	Yellow Perch	134	70	1	
6	1	Yellow Perch	85	5.0	0	
7	1	Common Carp	420	1240		

END TIME: September 16, 1986 14:15
LOCATION: Station 5-Vermont
METHOD : Trap net, 20.6 Hours
SAMPLE : 10146

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Largemouth Bass	74	5.0		
2	1	Spottail Shiner	100	8.0		

END TIME: September 16, 1986 16:00
LOCATION: Station 5-New Hampshire
METHOD : Trap net, 22.7 Hours
SAMPLE : 10147

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Golden Shiner	138	26		
2	1	Golden Shiner	132	21		
3	1	Golden Shiner	151	33		
4	1	Golden Shiner	140	27		
5	1	White Sucker	229	117		
6	1	Rock Bass	233	307		
7	1	White Perch	295	407	6	
8	1	Smallmouth Bass	237	172	2	
9	1	Smallmouth Bass	255	231	3	
10	1	Pumpkinseed	167	108		
11	1	Pumpkinseed	159	85		
12	1	Pumpkinseed	165	97		
13	1	Pumpkinseed	165	106		
14	1	Pumpkinseed	159	96		
15	1	Pumpkinseed	113	27		
16	1	Pumpkinseed	151	84		
17	1	Pumpkinseed	156	86		
18	1	Pumpkinseed	151	74		
19	1	Pumpkinseed	100	20		
20	1	Pumpkinseed	167	117		
21	1	Pumpkinseed	168	118		
22	1	Pumpkinseed	145	73		
23	1	Pumpkinseed	169	119		
24	1	Pumpkinseed	164	115		
25	1	Pumpkinseed	154	85		
26	1	Pumpkinseed	169	117		
27	1	Pumpkinseed	170	122		
28	1	Pumpkinseed	152	85		
29	1	Pumpkinseed	154	86		
30	1	Pumpkinseed	156	89		
31	1	Pumpkinseed	145	76		
32	1	Pumpkinseed	157	96		
33	1	Pumpkinseed	160	93		
34	1	Pumpkinseed	163	91		
35	1	Pumpkinseed	144	67		
36	1	Pumpkinseed	156	92		
37	1	Pumpkinseed	116	31		
38	1	Pumpkinseed	105	25		
39	1	Bluegill	155	78		
40	1	Bluegill	173	116		
41	1	Yellow Perch	278	216	5	
42	1	Yellow Perch	210	109	2	
43	1	Yellow Perch	223	117	3	

(CONTINUED)

END TIME: September 16, 1986 16:00
LOCATION: Station 5-New Hampshire
METHOD : Trap net, 22.7 Hours
SAMPLE : 10147

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
44	1	Yellow Perch	202	93	2	
45	1	Yellow Perch	201	94	2	
46	1	Yellow Perch	210	110	3	
47	1	Yellow Perch	217	127	3	
48	1	Yellow Perch	210	113	3	
49	1	Yellow Perch	246	164	4	
50	1	Yellow Perch	230	146	3	
51	1	Yellow Perch	211	108	2	
52	1	Yellow Perch	197	93	2	
53	1	Yellow Perch	190	80	2	
54	1	Yellow Perch	223	122	2	
55	1	Yellow Perch	205	88	2	
56	1	Yellow Perch	198	88	3	
57	1	Yellow Perch	204	88	2	
58	1	Yellow Perch	185	81	3	
59	1	Yellow Perch	196	74	2	
60	1	Yellow Perch	200	66	2	
61	1	Yellow Perch	184	66	2	
62	1	Yellow Perch	164	45	1	
63	1	Yellow Perch	155	39	1	
64	1	Yellow Perch	147	30	1	
65	1	Yellow Perch	135	24	1	
66	1	Yellow Perch	133	22	1	
67	1	Yellow Perch	135	26	1	
68	1	Yellow Perch	134	25	1	
69	1	Yellow Perch	135	25	1	
70	1	Yellow Perch	132	20	1	
71	1	Spottail Shiner	103	9.0		
72	1	Spottail Shiner	100	8.0		
73	1	Spottail Shiner	101	7.0		
74	1	Spottail Shiner	101	8.0		
75	1	Spottail Shiner	101	8.0		
76	26	Spottail Shiner		223		

END TIME: September 16, 1986 16:50
LOCATION: Rum Point
METHOD : Trap net, 22.8 Hours
SAMPLE : 10148

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	240	220	2	

END TIME: September 16, 1986 19:30
LOCATION: Station 2
METHOD : Electrofishing, 0.8 Hours
SAMPLE : 10149

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Sucker	356	520		
2	1	White Sucker	460	945		
3	1	White Sucker	228	128		
4	1	White Sucker	197	85		
5	1	White Sucker	178	64		
6	1	White Sucker	182	64		
7	1	White Sucker	188	68		
8	1	Fallfish	141	28		
9	1	Smallmouth Bass	266	248	4	
10	1	Smallmouth Bass	172	66	1	
11	1	Smallmouth Bass	192	98	1	
12	1	Smallmouth Bass	161	55	1	
13	1	Smallmouth Bass	143	36	1	
14	1	Smallmouth Bass	143	38	1	
15	1	Smallmouth Bass	183	71	1	
16	1	Yellow Perch	165	58	1	
17	1	Pumpkinseed	113	31		
18	1	Smallmouth Bass	70	5.0		
19	1	Smallmouth Bass	58	2.0		
20	1	Fallfish	169	46		
21	1	Spottail Shiner	99	9.0		
22	1	Spottail Shiner	91	6.0		
23	1	Spottail Shiner	98	8.0		
24	4	Spottail Shiner		23		
25	1	Smallmouth Bass	70	5.0		
31	1	American Shad	66	2.3		
32	1	American Shad	91	5.6		
33	1	American Shad	69	2.5		
34	1	American Shad	70	2.7		
35	1	American Shad	66	2.3		
36	1	American Shad	67	2.5		
37	1	American Shad	85	5.1		
38	1	American Shad	66	2.3		
39	1	American Shad	69	2.5		
40	1	American Shad	73	2.9		
41	1	American Shad	74	2.9		
42	1	American Shad	84	4.4		
43	1	American Shad	75	3.1		
44	1	American Shad	68	2.4		
45	1	American Shad	65	2.1		
46	1	American Shad	66	2.2		
47	1	American Shad	65	2.1		
48	1	American Shad	80	4.1		
49	1	American Shad	90	5.5		
50	1	American Shad	59	2.3		
51	1	American Shad	76	3.3		
52	1	American Shad	65	2.2		
53	1	American Shad	79	4.8		
54	1	American Shad	86	5.2		
55	1	American Shad	65	2.1		
56	1	Spottail Shiner	87	6.2		
57	1	Spottail Shiner	84	5.3		
58	1	Mimic Shiner	60	1.9		

(CONTINUED)

END TIME: September 16, 1986 19:30
LOCATION: Station 2
METHOD : Electrofishing, 0.8 Hours
SAMPLE : 10149

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
59	1	Mimic Shiner	55	1.5		
60	1	Mimic Shiner	52	1.4		
61	1	Mimic Shiner	62	2.0		
62	1	Mimic Shiner	54	1.5		
63	1	Mimic Shiner	53	1.4		
64	1	Mimic Shiner	53	1.4		
65	1	Mimic Shiner	55	1.5		
66	1	Mimic Shiner	52	1.4		
67	1	Mimic Shiner	49	1.2		
68	1	Mimic Shiner	50	1.1		

END TIME: September 16, 1986 20:30
LOCATION: 0.1 Miles South of Vernon Dam
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 10150

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	American Shad	91	5.8		
2	1	American Shad	82	4.2		
3	1	American Shad	79	4.0		
4	1	American Shad	83	4.5		
5	1	American Shad	86	5.1		
6	1	American Shad	85	5.1		
7	1	American Shad	86	5.9		
8	1	American Shad	83	4.6		
9	1	American Shad	82	4.5		
10	1	American Shad	83	4.9		
11	1	American Shad	85	5.5		
12	1	American Shad	81	4.2		
13	1	American Shad	72	2.7		
14	1	American Shad	75	3.3		
15	1	American Shad	89	5.3		
16	1	American Shad	89	5.4		
17	1	American Shad	84	4.7		
18	1	American Shad	85	4.8		
19	1	American Shad	85	4.6		
20	1	American Shad	81	4.3		
21	1	American Shad	79	3.8		
22	1	American Shad	90	5.9		
23	1	American Shad	90	5.5		
24	1	American Shad	81	4.3		
25	1	American Shad	85	5.0		
26	1	American Shad	86	5.0		
27	1	American Shad	85	4.8		
28	1	American Shad	84	4.1		
29	1	American Shad	79	3.9		
31	1	White Sucker	465	1300		
32	1	White Sucker	385	735		
33	1	White Sucker	420	910		
34	1	White Sucker	405	745		
35	1	Chain Pickerel	305	175		
36	1	Bluegill	176	146		
37	1	Bluegill	160	95		
38	1	Bluegill	190	176		
39	1	Bluegill	165	111		
40	1	Pumpkinseed	155	81		
41	1	Rock Bass	155	71		
42	1	Rock Bass	170	90		
43	1	Rock Bass	140	53		
44	1	Bluegill	175	113		
45	1	Pumpkinseed	173	120		
46	1	Bluegill	160	83		
47	1	Smallmouth Bass	225	131	2	
48	1	Largemouth Bass	225	138		
49	1	Smallmouth Bass	164	52		
50	1	Largemouth Bass	231	164		
51	1	Smallmouth Bass	156	44		
52	1	Largemouth Bass	225	149		
53	1	Bluegill	208	181		
54	1	Rock Bass	247	307		
55	1	Rock Bass	137	55		
56	1	Rock Bass	102	21		
57	1	Bluegill	155	88		
58	1	Smallmouth Bass	86	8.0		
59	1	Rock Bass	114	20		

END TIME: September 17, 1986 10:00
LOCATION: Station 4-Vermont
METHOD : Trap net
SAMPLE : 10157

No catch for this collection.

END TIME: September 17, 1986 10:30
LOCATION: Station 4-Vermont
METHOD : Trap net, 23.3 Hours
SAMPLE : 10158

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	202	182		
2	1	Rock Bass	219	230		
3	1	Rock Bass	157	84		
4	1	Rock Bass	121	38		
5	1	Rock Bass	113	30		
6	1	Rock Bass	118	34		
7	1	Rock Bass	115	33		
8	1	Rock Bass	116	30		
9	1	Rock Bass	107	23		
10	1	Rock Bass	100	22		
11	1	Smallmouth Bass	148	42		
12	1	Smallmouth Bass	200	102	2	
13	1	Smallmouth Bass	150	45	1	
14	1	Smallmouth Bass	166	62	1	
15	1	Smallmouth Bass	202	99	2	
16	1	Smallmouth Bass	303	340	3	3019
17	1	Smallmouth Bass	267	220	3	
18	1	Smallmouth Bass	281	260		3018
19	1	Smallmouth Bass		163	2	
20	1	Rock Bass	116	34		
21	1	Rock Bass	117	34		
22	1	Bluegill	176	118		

END TIME: September 17, 1986 11:30
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 25.5 Hours
SAMPLE : 10159

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Sucker	510	1600		
2	1	White Sucker	410	835		
3	1	White Sucker	235	140		
4	1	White Sucker	225	105		
5	1	White Sucker	228	85		
6	1	White Sucker	450	940		
7	1	Walleye	475	860	4	
8	1	Walleye	475	865	4	
9	1	White Perch	331	522	6	
10	1	White Perch	255	232	2	
11	1	White Perch	252	234	2	
12	1	White Perch	264	295	3	
13	1	Yellow Perch	264	210	4	
14	1	Yellow Perch	130	28	1	
15	1	Yellow Perch	196	75	2	
16	1	Yellow Perch	147	36	1	
17	1	Yellow Perch	160	45	1	
18	1	Rock Bass	200	168		
19	1	Pumpkinseed	173	113		
20	1	Pumpkinseed	113	31		
21	10	Spottail Shiner		83		
22	1	Spottail Shiner	99	8.0		
23	1	Spottail Shiner	102	8.0		
24	1	Spottail Shiner	104	9.0		
25	1	White Sucker	365	475		

END TIME: September 17, 1986 12:05
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 25.6 Hours
SAMPLE : 10160

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	222	109	3	
2	1	Yellow Perch	145	28	1	
3	1	Yellow Perch	160	36	1	
4	1	Spottail Shiner	100	7.0		
5	1	Spottail Shiner	105	8.0		
6	1	Spottail Shiner	100	7.0		
7	1	Spottail Shiner	104	7.0		
8	1	Spottail Shiner	102	8.0		

END TIME: September 17, 1986 12:45
LOCATION: New Hampshire Setback-Near Culvert to Butler Cove
METHOD : Trap net, 24.4 Hours
SAMPLE : 10161

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	310	445	9	
2	1	White Perch	302	375	6	
3	1	Pumpkinseed	147	68		
4	1	Pumpkinseed	153	75		
5	1	Pumpkinseed	112	27		
6	1	Golden Shiner	135	23		
7	1	Pumpkinseed	88	14		
8	1	Spottail Shiner	99	7.0		
9	1	Spottail Shiner	105	11		
10	1	Yellow Perch	129	23	1	
11	1	White Sucker	480	970		

END TIME: September 17, 1986 13:15
LOCATION: Station 5-Vermont
METHOD : Trap net, 23.0 Hours
SAMPLE : 10162

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	88	6.0	0	
2	1	Largemouth Bass	88	8.0		
3	1	Largemouth Bass	92	8.0		
4	27	Spottail Shiner		233		

END TIME: September 17, 1986 13:30
LOCATION: Station 5-New Hampshire
METHOD : Trap net, 21.5 Hours
SAMPLE : 10163

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	American Shad	548	1250		
2	1	White Sucker	440	845		
3	21	Spottail Shiner		208		
4	1	Largemouth Bass	83	10		
5	1	Largemouth Bass	114	20		
6	1	Largemouth Bass	84	10		
7	1	Largemouth Bass	111	17		
8	1	Largemouth Bass	88	9.0		
9	1	Largemouth Bass	92	10		
10	1	White Sucker	93	8.0		
11	1	White Sucker	238	145		
12	1	Yellow Perch	80	6.0	0	
13	1	Pumpkinseed	166	115		
14	1	Pumpkinseed	122	38		
15	1	Pumpkinseed	160	93		
16	1	Pumpkinseed	165	103		
17	1	Pumpkinseed	147	74		
18	1	Pumpkinseed	146	64		
19	1	Pumpkinseed	156	91		
20	1	Pumpkinseed	185	143		
21	1	Pumpkinseed	153	79		
22	1	Pumpkinseed	115	31		
23	1	Pumpkinseed	145	78		
24	1	Pumpkinseed	175	134		
25	1	Pumpkinseed	172	125		
26	1	Pumpkinseed	166	112		
27	1	Pumpkinseed	166	110		
28	1	Pumpkinseed	120	36		
29	1	Rock Bass	184	132		
30	1	Bluegill	185	143		
31	1	Yellow Perch	140	29	1	
32	1	Yellow Perch	219	117	3	
33	1	Yellow Perch	234	143	3	
34	1	Yellow Perch	215	108	3	
35	1	Yellow Perch	212	105	2	
36	1	Yellow Perch	205	108	3	
37	8	Spottail Shiner		73		
38	1	Largemouth Bass	84	8.0		
39	1	Bluegill	49	3.0		

END TIME: September 17, 1986 15:05
LOCATION: Rum Point
METHOD : Trap net, 22.3 Hours
SAMPLE : 10164

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	270	304	7	
2	1	White Perch	276	305	4	
3	1	White Perch	268	293	4	
4	1	White Perch	256	243	2	
5	1	White Perch	262	255	2	
6	1	White Perch	263	249	2	
7	1	Yellow Perch	246	259	3	
8	1	White Perch	194	96	1	
9	1	Rock Bass	188	133		
10	1	Rock Bass	199	170		
11	1	Rock Bass	185	140		
12	1	Rock Bass	166	97		
13	1	White Sucker	488	1220		
14	1	White Sucker	460	1010		
15	1	White Sucker	488	1240		

END TIME: September 18, 1986 11:05
LOCATION: 0.1 Miles South of Vernon Dam
METHOD : Trap net, 18.0 Hours
SAMPLE : 10201

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Bluegill	204	207		
2	1	Bluegill	207	164		
3	1	Bluegill	183	141		
4	1	Bluegill	165	110		
5	1	Bluegill	165	109		
6	1	Bluegill	186	147		
7	1	Bluegill	169	111		
8	1	Bluegill	183	163		
9	1	Rock Bass	156	82		
10	1	Rock Bass	215	173		
11	1	Rock Bass	195	148		
12	1	Rock Bass	187	132		
13	1	Rock Bass	172	108		
14	1	Rock Bass	160	82		
15	1	Rock Bass	180	105		
16	1	Rock Bass	170	103		
17	1	Rock Bass	104	26		
18	1	Pumpkinseed	157	101		
19	1	Pumpkinseed	159	94		
20	1	Pumpkinseed	163	96		
21	1	Pumpkinseed	152	86		
22	1	Pumpkinseed	142	72		
23	1	Rock Bass	111	28		
24	1	Pumpkinseed	160	97		
25	1	Smallmouth Bass	199	89	2	
26	1	Smallmouth Bass	168	59	1	
27	1	Smallmouth Bass	195	91	3	

END TIME: September 18, 1986 11:30
LOCATION: Station 3
METHOD : Trap net, 18.3 Hours
SAMPLE : 10202

No catch for this collection.

END TIME: September 18, 1986 11:45
LOCATION: Stebbin Island-Vermont Side
METHOD : Trap net, 18.3 Hours
SAMPLE : 10203

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Spottail Shiner	91	5.0		
2	1	Spottail Shiner	95	6.0		
3	1	Spottail Shiner	97	6.0		
4	1	Spottail Shiner	95	6.0		
5	1	Spottail Shiner	98	7.0		

END TIME: September 18, 1986 12:15
LOCATION: Stebbin Island-New Hampshire Side
METHOD : Trap net, 18.7 Hours
SAMPLE : 10204

No catch for this collection.

END TIME: September 18, 1986 12:35
LOCATION: Station 2
METHOD : Trap net, 18.8 Hours
SAMPLE : 10205

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	337	478		

END TIME: September 18, 1986 12:45
LOCATION: Station 2
METHOD : Trap net, 18.8 Hours
SAMPLE : 10206

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	233	288		
2	1	Rock Bass	197	154		
3	1	Rock Bass	205	165		
4	1	Rock Bass	175	109		
5	1	Rock Bass	185	134		
6	1	Rock Bass	181	121		
7	1	Rock Bass	173	114		
8	1	Rock Bass	164	88		
9	1	Rock Bass	168	97		
10	1	Rock Bass	163	89		
11	1	Rock Bass	173	103		
12	1	White Sucker	330	398		
13	1	Yellow Perch	250	208	3	
14	1	Smallmouth Bass	185	81	1	
15	1	Smallmouth Bass	182	80	1	
16	1	Smallmouth Bass	222	138	2	

END TIME: September 19, 1986 09:25
LOCATION: 0.1 Miles South of Vernon Dam
METHOD : Trap net, 22.2 Hours
SAMPLE : 10207

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Pumpkinseed	173	114		
2	1	Pumpkinseed	160	89		
3	1	Pumpkinseed	132	48		
4	1	Pumpkinseed	169	109		
5	1	Pumpkinseed	176	127		

END TIME: September 19, 1986 09:40
LOCATION: Station 3
METHOD : Trap net, 21.5 Hours
SAMPLE : 10208

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	252	198		

END TIME: September 19, 1986 10:00
LOCATION: Stebbin Island-Vermont Side
METHOD : Trap net, 22.2 Hours
SAMPLE : 10209

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Bluegill	194	178		
2	1	Bluegill	182	133		
3	1	Bluegill	56	3.0		
4	1	Bluegill	165	91		
5	1	Spottail Shiner	100	8.0		
6	1	Spottail Shiner	92	7.0		
7	1	Clupeidae	85	11		
8	1	Clupeidae	81	9.0		
9	1	Clupeidae	85	10		
10	1	Clupeidae	83	9.0		
11	1	Clupeidae	91	11		

END TIME: September 19, 1986 10:25
LOCATION: Stebbin Island-New Hampshire Side
METHOD : Trap net, 22.2 Hours
SAMPLE : 10210

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	206	163		
2	1	Rock Bass	210	168		
3	1	Rock Bass	240	252		

END TIME: September 19, 1986 10:55
LOCATION: Station 2
METHOD : Trap net, 22.3 Hours
SAMPLE : 10211

No catch for this collection.

END TIME: September 19, 1986 11:10
LOCATION: Station 2
METHOD : Trap net, 22.4 Hours
SAMPLE : 10212

No catch for this collection.

END TIME: October 15, 1986 20:13
LOCATION: Rum Point
METHOD : Electrofishing, 0.1 Hours
SAMPLE : 10435

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	245	209	2	
2	1	Yellow Perch	246	177	2	
3	1	White Perch	290	395	7	
4	1	Yellow Perch	154	43	1	
5	1	Yellow Perch	211	109	2	
6	1	Yellow Perch	161	49	1	
7	1	Yellow Perch	155	43	1	
8	1	Yellow Perch	152	44	1	
9	1	Yellow Perch	168	54	1	
10	1	Pumpkinseed	156	99		
11	1	White Perch	85	21	0	
12	1	White Perch	92	22	0	
13	1	Yellow Perch	248	156	3	
14	1	Yellow Perch	136	22	1	
15	1	Yellow Perch	158	41	1	
16	1	Yellow Perch	137	19	1	
17	1	White Perch	88	24	0	
18	1	Yellow Perch	158	65	1	
19	1	Yellow Perch	144	37	1	
20	1	White Perch	99	34	0	
21	1	White Sucker	251	156		
22	1	Yellow Perch	150	52	1	
23	1	Yellow Perch	75	21	0	
24	1	Yellow Perch	90	22	0	
25	1	Yellow Perch	154	58	1	
26	1	Yellow Perch	70	22	0	
27	1	Yellow Perch	82	22	0	
28	1	Spottail Shiner	109	12		
29	1	Spottail Shiner	123	13		
30	1	Spottail Shiner	104	7.0		
31	1	Spottail Shiner	109	12		
32	1	Spottail Shiner	105	9.0		
33	1	Spottail Shiner	108	13		
34	30	Spottail Shiner	306			
35	1	Mimic Shiner	61	5.0		
36	1	White Sucker	107	18		
37	1	Yellow Perch	85		0	
38	1	Mimic Shiner	66			

END TIME: October 15, 1986 21:15
LOCATION: Station 5-Vermont
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 10436

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	234	169	3	
2	1	White Sucker	220	133		
3	1	Yellow Perch	198	96	2	
4	1	Yellow Perch	141	49	1	
5	1	Yellow Perch	139	44	1	
6	1	Rock Bass	218	233		
7	1	Yellow Perch	138	45	2	
8	1	Yellow Perch	129	39	1	
9	1	Yellow Perch	153	55	1	
10	1	Yellow Perch	145	50	1	
11	8	White Sucker		1210		
12	50	Yellow Perch		2170		
13	24	White Sucker		1280		
14	38	Spottail Shiner		331		
15	1	White Perch	284	356	5	
16	1	Largemouth Bass	83	10	0	
17	1	Golden Shiner	124	25		
18	1	Spottail Shiner	95	13		
19	1	Largemouth Bass	131	35	1	
20	1	Largemouth Bass	141	42	0	
21	1	Largemouth Bass	90	18	1	
22	1	Largemouth Bass	106	14	0	
23	1	Largemouth Bass	81	9.0	0	
24	3	Pumpkinseed		102		
25	3	Yellow Perch		61		
26	6	Largemouth Bass		63		
27	2	Spottail Shiner		17		
28	1	Brown Bullhead	82	7.0		
29	12	Mimic Shiner		10		
30	1	Pumpkinseed		2.0		

END TIME: October 15, 1986 22:30
LOCATION: Station 5-New Hampshire
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 10437

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Walleye	325	283	2	
2	31	Yellow Perch		1110		
3	60	White Sucker		7660		
4	38	Spottail Shiner		396		
5	1	Walleye	408	634	3	
6	2	White Sucker		29		
7	1	White Perch	196	94	1	
8	1	White Perch	289	450	7	
9	1	Yellow Perch	265	222	5	
10	1	Yellow Perch	249	201	6	
11	1	Golden Shiner	124	22		
12	1	Largemouth Bass	107	18	1	
13	1	Largemouth Bass	91	13	0	
14	1	Tessellated Darter	83	8.0		
15	1	Bluegill	61	8.0		
16	1	Mimic Shiner	56	6.0		

END TIME: October 15, 1986 23:19
LOCATION: New Hampshire Setback-Near Culvert to Butler Cove
METHOD : Electrofishing, 0.1 Hours
SAMPLE : 10438

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	American Eel		476		
2	9	Yellow Perch		274		
3	1	Largemouth Bass	361	617	2	
4	1	Largemouth Bass	359	643	3	
5	1	Largemouth Bass	404	920	3	
6	1	Walleye	496	1030	5	
7	16	White Sucker		2290		
8	25	Golden Shiner		445		
9	12	Spottail Shiner		108		
10	6	Pumpkinseed		324		
11	5	Bluegill		556		
12	1	Yellow Perch		103		
13	2	White Perch		132		
14	5	Largemouth Bass		89		
15	1	Golden Shiner	214	113		
16	1	Common Carp	138	39		
17	1	Tessellated Darter	68	5.0		
18	1	White Perch	95	15	0	
19	1	Bluegill		1.0		
20	1	Golden Shiner		2.0		

END TIME: October 16, 1986 01:17
LOCATION: Station 4-Vermont
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 10439

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	8	Yellow Perch		953		
2	4	Yellow Perch		319		
3	1	Walleye	463	852	4	
4	30	Yellow Perch		992		
5	1	American Eel		363		
6	10	White Sucker		1740		
7	30	White Sucker		3490		
8	31	Spottail Shiner		312		
9	2	Rock Bass		189		
10	2	Largemouth Bass		48		
11	1	White Perch	152	53	2	
12	1	White Perch	90	13	0	
13	1	White Perch	83	11	0	
14	1	White Perch	87	12	0	
15	1	Spottail Shiner		7.0		
16	1	White Perch	97		0	
17	1	White Perch	76	7.0	0	
18	1	White Perch	80	8.0	0	
19	1	White Perch	86	11	0	
20	7	Mimic Shiner		19		
21	3	Bluegill		11		
22	1	Tessellated Darter	71	5.0		

END TIME: October 16, 1986 00:24
LOCATION: Station 4-New Hampshire
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 10440

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	18	Yellow Perch		1070		
2	9	White Sucker		1410		
3	1	Smallmouth Bass	344	494		3027
4	1	White Perch	250	254	2	
5	1	Walleye	197	77	0	
6	1	White Perch	283	367	4	
7	1	White Perch	207	151	1	
8	1	Smallmouth Bass	285	297	3	3028
9	1	White Perch	190	109	1	
10	1	Smallmouth Bass	269	258	3	3029
11	2	Rock Bass		101		
12	3	Mimic Shiner		9.0		
13	1	Bluegill		2.0		
14	1	White Perch	89	8.0	0	

END TIME: October 16, 1986 23:21
LOCATION: 0.1 Miles South of Vernon Dam
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 10451

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	3	American Eel		154		
2	2	White Sucker		1290		
3	9	Yellow Perch		952		
4	1	White Sucker		745		
5	1	Chain Pickerel	400	349		
6	7	Rock Bass		714		
7	3	Bluegill		354		
8	3	Pumpkinseed		228		
9	1	Smallmouth Bass	157	46	1	
10	1	Smallmouth Bass	238	207	1	3557
11	1	Smallmouth Bass	297	363	3	3558
12	1	Smallmouth Bass	178	104	1	
13	1	Smallmouth Bass	238	204	2	3559
14	1	Smallmouth Bass	213	169		3560
15	1	Smallmouth Bass	341	412	3	3561
16	1	Smallmouth Bass	218	109	3	3562
17	1	Walleye	209	65	0	
18	1	Smallmouth Bass	201	107	2	
19	1	Smallmouth Bass	221	126	2	3563
20	1	Smallmouth Bass	221	148	2	3564
21	1	Smallmouth Bass	168	73	1	
22	1	Smallmouth Bass	155	152	1	
23	1	Smallmouth Bass	188	94	2	
24	1	Smallmouth Bass	192	114	2	
25	1	Smallmouth Bass	144	65	1	
26	1	Smallmouth Bass	188	67	1	
27	1	American Shad	89	5.9		

END TIME: October 16, 1986 22:40
LOCATION: Station 3
METHOD : Electrofishing, 0.2 Hours
SAMPLE : 10452

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	16	Yellow Perch		887		
2	2	White Sucker		176		
3	1	Chain Pickerel	368	277		
4	1	Smallmouth Bass	272	216	3	3554
5	1	Smallmouth Bass	220	107	2	3556
6	2	Rock Bass		164		
7	1	Fallfish	166	41		
8	1	Fallfish	164	42		
9	1	Fallfish	167	47		
10	7	Spottail Shiner		45		

END TIME: October 16, 1986 20:22
LOCATION: Stebbin Island-Vermont Side
METHOD : Electrofishing, 0.4 Hours
SAMPLE : 10453

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	3	Yellow Perch		493		
2	7	White Sucker		7970		
3	7	White Sucker		7610		
4	2	White Sucker		1980		
5	1	Smallmouth Bass	223	141	2	3544
6	1	Yellow Perch		66		
7	1	Smallmouth Bass	158	49	1	
8	1	Smallmouth Bass	201	100	2	
9	1	Smallmouth Bass	157	45	1	
10	1	Smallmouth Bass	170	64	1	
11	1	Fallfish	173	49		
12	33	Spottail Shiner		210		
13	7	Mimic Shiner		11		
14	1	American Shad	93	7.6		

END TIME: October 16, 1986 22:02
LOCATION: Stebbin Island-New Hampshire Side
METHOD : Electrofishing, 0.3 Hours
SAMPLE : 10454

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	6	Yellow Perch		363		
2	1	Rock Bass		131		
3	1	Fallfish	274	186		
4	1	Fallfish	252	134		
5	1	Fallfish	169	43		
6	1	Fallfish	147	28		
7	1	Smallmouth Bass	159	49	1	
8	2	White Sucker		16		
9	38	Spottail Shiner		247		
10	1	Smallmouth Bass	60	4.0	0	
11	1	Mimic Shiner		2.0		
12	1	Spottail Shiner				

END TIME: October 16, 1986 21:11
LOCATION: Station 2-Vermont
METHOD : Electrofishing, 0.2 Hours
SAMPLE : 10455

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	6	White Sucker		2310		
2	1	Fallfish	170	49		
3	1	Fallfish	252	178		
4	1	Smallmouth Bass	243	182	2	3543
5	1	Fallfish	267	236		
6	1	Fallfish	173	56		
7	1	Fallfish	270	210		
8	1	Fallfish	183	62		
9	1	Fallfish	160	45		
10	1	Fallfish	190	73		
11	1	Smallmouth Bass	160	57	1	
12	1	Smallmouth Bass	152	46	1	
13	1	Smallmouth Bass	148	45	1	
14	2	Rock Bass		56		
15	1	Pumpkinseed		27		
16	27	Spottail Shiner		207		
17	1	Fallfish		17		
18	8	Mimic Shiner		11		
19	1	American Shad	84	5.4		
20	1	American Shad	85	5.2		

END TIME: October 17, 1986 14:50
LOCATION: Vermont Yankee Intake
METHOD : Circulating water travelling screens, 25.3 Hours
SAMPLE : 10460

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	41	1.8		
2	1	Rock Bass	36	1.5		

END TIME: October 21, 1986 16:01
LOCATION: Vermont Yankee Intake
METHOD : Circulating water travelling screens, 21.5 Hours
SAMPLE : 10469

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Golden Shiner	153	36		

END TIME: October 22, 1986 10:10
LOCATION: Rum Point
METHOD : Trap net, 24.4 Hours
SAMPLE : 10461

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	406	1020		3080
2	1	Yellow Perch	223	143	3	
3	1	Yellow Perch	212	111		
4	1	Yellow Perch	295	341	4	
5	1	Yellow Perch	166	48	1	
6	1	Yellow Perch	168	42	1	
7	1	Yellow Perch	272	244	3	
8	1	Yellow Perch	135	23	1	
9	1	Yellow Perch	193	85	2	
10	1	Yellow Perch	240	173	3	
11	1	Yellow Perch	189	77	2	
12	1	Yellow Perch	214	118	3	
13	1	Yellow Perch	218	125	3	
14	1	Yellow Perch	212	119	3	
15	1	Yellow Perch	147	28	1	
16	1	Yellow Perch	221	134	3	
17	1	Yellow Perch	181	52	1	
18	1	Yellow Perch	137	27	1	
19	1	Yellow Perch	146	30	1	
20	1	Yellow Perch	221	116	2	
21	1	Yellow Perch	209	98	2	
22	1	Yellow Perch	156	41	1	
23	1	Yellow Perch	151	34	1	
24	1	Yellow Perch	153	36	1	
25	1	Yellow Perch	151	38	1	
26	1	White Sucker	540	1470		

END TIME: October 22, 1986 10:50
LOCATION: Station 5-Vermont
METHOD : Trap net, 24.8 Hours
SAMPLE : 10462

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Walleye	439	1300	3	
2	1	White Perch	295	390	4	
3	1	White Perch	257	275	2	
4	1	Yellow Perch	216	119	3	
5	1	Spottail Shiner	105	17		
6	1	Spottail Shiner	105	13		
7	1	Spottail Shiner	105	15		
8	1	Spottail Shiner	102	10		
9	1	Spottail Shiner	107	13		
10	1	Spottail Shiner	102	8.0		
11	1	Spottail Shiner	107	11		
12	1	Spottail Shiner	105	10		
13	1	Spottail Shiner	101	10		
14	1	Spottail Shiner	100	10		
15	1	Spottail Shiner		15		
16	1	Spottail Shiner	98	9.0		
17	1	Spottail Shiner	109	13		
18	1	Spottail Shiner	102	12		
19	1	Spottail Shiner	106	10		
20	1	Spottail Shiner	105	9.0		
21	1	Spottail Shiner	102	8.0		
22	1	Spottail Shiner	106	9.0		
23	1	Spottail Shiner	100	8.0		

END TIME: October 22, 1986 11:15
LOCATION: Station 5-New Hampshire
METHOD : Trap net, 25.0 Hours
SAMPLE : 10463

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	80	7.0	0	
2	1	Yellow Perch	87	8.0	0	
3	1	Smallmouth Bass	64	4.0	0	
4	1	Yellow Perch	94	9.0	0	

END TIME: October 22, 1986 11:35
LOCATION: New Hampshire Setback-Near Culvert to Butler Cove
METHOD : Trap net, 25.2 Hours
SAMPLE : 10464

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	145	40	1	
2	1	Yellow Perch	199	81	3	
3	1	Yellow Perch	222	123	3	
4	1	Yellow Perch	196	76	2	
5	1	Yellow Perch	200	79	3	
6	1	Bluegill	168	100		
7	1	Golden Shiner	217	130		
8	1	White Sucker	233	129		
9	1	Walleye	475	885	5	

END TIME: October 22, 1986 12:05
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 25.2 Hours
SAMPLE : 10465

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	391	840		3081
2	1	Smallmouth Bass	387	854	4	3082
3	1	Smallmouth Bass	330	460	3	3083
4	1	Walleye	347	365	1	
5	1	Walleye	325	331	2	
6	1	Rock Bass	219	205		
7	1	Rock Bass	160	102		
8	1	Rock Bass	207	213		
9	1	Rock Bass	178	140		
10	1	White Perch	226	156	2	
11	1	White Perch	261	320	4	
12	1	White Perch	200	104	1	
13	1	White Perch	251	240	2	
14	1	White Perch	206	120	2	
15	1	White Perch	286	331	3	
16	1	Yellow Perch	161	34	1	
17	1	Yellow Perch	223	118	3	
18	1	Yellow Perch	253	173	2	
19	1	Yellow Perch	148	23	1	
20	1	Yellow Perch	224	119	3	
21	1	Yellow Perch	265	213	3	
22	1	Yellow Perch	234	134	2	
23	1	Yellow Perch	238	161	2	
24	1	Yellow Perch	165	42	1	
25	1	Yellow Perch	259	195	3	
26	1	Yellow Perch	214	113	2	
27	1	Yellow Perch	151	34	1	
28	1	Yellow Perch	205	100	3	
29	1	Yellow Perch	207	99	2	
30	1	Yellow Perch	263	203	4	
31	1	Yellow Perch	242	197	3	
32	1	Yellow Perch	234	198	3	
33	1	Yellow Perch	206	109	2	
34	1	Yellow Perch	220	117	2	
35	1	Yellow Perch	215	121	2	
36	1	White Sucker	281	220		
37	1	White Sucker	261	182		
38	1	White Sucker	235	133		
39	1	White Sucker	251	162		
40	1	White Sucker	276	223		
41	1	White Sucker	234	129		
42	1	White Sucker	222	123		
43	1	White Sucker	443	1090		

END TIME: October 22, 1986 13:40
LOCATION: Station 4-Vermont
METHOD : Trap net, 26.1 Hours
SAMPLE : 10466

No catch for this collection.

END TIME: October 22, 1986 15:15
LOCATION: Station 4-Vermont
METHOD : Trap net, 27.4 Hours
SAMPLE : 10467

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	236	155		
2	1	Yellow Perch	237	151	2	
3	1	Rock Bass	192	136		
4	1	Rock Bass	162	88		
5	1	Rock Bass	105	25		
6	1	Walleye	499	1200		
7	1	Walleye	475	912		
8	1	Smallmouth Bass	515	2010	7	3084
9	1	Smallmouth Bass	421	940	4	3085
10	1	Smallmouth Bass	420	980	5	3086
11	1	Smallmouth Bass	374	620	5	
12	1	Rock Bass	165	100		
13	1	Rock Bass	122	39		

END TIME: October 22, 1986 13:05
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 25.9 Hours
SAMPLE : 10468

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	188	65	2	

END TIME: October 23, 1986 08:05
LOCATION: Rum Point
METHOD : Trap net, 21.9 Hours
SAMPLE : 10521

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	254	260		
2	1	Rock Bass	222	229		
3	1	White Perch	317	551		
4	1	Yellow Perch	203	82	2	
5	1	Yellow Perch	159	40	1	
6	1	Yellow Perch	141	30	1	
7	1	Yellow Perch	160	24	1	

END TIME: October 23, 1986 08:35
LOCATION: Station 5-Vermont
METHOD : Trap net, 21.8 Hours
SAMPLE : 10522

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Walleye	481	920		
2	1	Walleye	382	480		
3	1	White Perch	299	445		
4	1	Yellow Perch	242	145	4	
5	1	Yellow Perch	236	137	3	
6	1	Yellow Perch	202	88	2	
7	1	Yellow Perch	223	119	2	
8	1	Spottail Shiner	105	7.0		
9	1	Spottail Shiner	105	7.0		
10	1	Spottail Shiner	107	7.0		
11	1	Spottail Shiner	109	8.0		
12	1	Spottail Shiner	102	7.0		
13	1	Spottail Shiner	105	9.0		
14	1	Spottail Shiner	100	7.0		
15	1	Spottail Shiner	109	9.0		
16	1	Spottail Shiner	100	7.0		
17	1	Spottail Shiner	105	8.0		
18	1	Spottail Shiner	107	9.0		
19	1	White Sucker	100	9.0		
31	1	Spottail Shiner	103	10		
32	1	Spottail Shiner	103	11		
33	1	Spottail Shiner	102	10		
34	1	Spottail Shiner	98	9.0		
35	1	Spottail Shiner	102	11		
36	1	Spottail Shiner	107	11		
37	1	Spottail Shiner	98	8.6		
38	1	Spottail Shiner	100	10		
39	1	Spottail Shiner	106	12		
40	1	Spottail Shiner	107	11		
41	1	Spottail Shiner	103	11		

END TIME: October 23, 1986 09:10
LOCATION: Station 5-New Hampshire
METHOD : Trap net, 21.9 Hours
SAMPLE : 10523

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	206	92	2	
2	1	Yellow Perch	87	5.0	0	
3	1	Yellow Perch	87	6.0	0	
4	1	Yellow Perch	83	6.0	0	

END TIME: October 23, 1986 09:35
LOCATION: New Hampshire Setback-Near Culvert to Butler Cove
METHOD : Trap net, 22.0 Hours
SAMPLE : 10524

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	198	87	3	
2	1	Yellow Perch	229	142	4	
3	1	Yellow Perch	225	112	3	
4	1	Yellow Perch	228	125	2	
5	1	Yellow Perch	205	90	2	
6	1	Yellow Perch	197	77	2	
7	1	Yellow Perch	182	63	2	
8	1	Pumpkinseed	113	25		
9	1	Spottail Shiner		5.0		
10	1	White Sucker	434	981		

END TIME: October 23, 1986 11:30
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 23.4 Hours
SAMPLE : 10525

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Walleye	299	215	1	
2	1	Walleye	334	305	1	
3	1	Yellow Perch	250	182	3	
4	1	Yellow Perch	227	123	2	
5	1	Yellow Perch	268	234	5	
6	1	Yellow Perch	206	87	2	
7	1	Yellow Perch	238	159	3	
8	1	Yellow Perch	180	59	1	
9	1	Pumpkinseed	200	166		
10	1	Pumpkinseed	172	129		
11	1	Brown Bullhead	270	281		
12	1	Rock Bass	169	102		
13	1	Rock Bass	161	85		
14	1	Rock Bass	173	114		
15	1	Rock Bass	169	105		
16	1	Rock Bass	166	116		
17	1	Rock Bass	191	137		
18	1	Rock Bass	179	123		
19	1	Rock Bass	164	112		
20	1	Rock Bass	167	101		
21	1	Rock Bass	176	116		
22	1	Rock Bass	156	72		
23	1	Rock Bass	157	80		
24	1	White Sucker	263	176		

END TIME: October 23, 1986 12:10
LOCATION: Station 4-New Hampshire
METHOD : Trap net, 23.1 Hours
SAMPLE : 10526

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	237	161	4	
2	1	White Perch	281	343	3	
3	1	White Perch	285	348	4	
4	1	White Perch	186	81	1	
5	1	White Perch	165	58	1	
6	1	Rock Bass	185	133		
7	1	Rock Bass	186	133		
8	1	Rock Bass	185	123		

END TIME: October 23, 1986 12:40
LOCATION: Station 4-Vermont
METHOD : Trap net, 23.0 Hours
SAMPLE : 10527

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	White Perch	247	214	2	

END TIME: October 23, 1986 12:50
LOCATION: Station 4-Vermont
METHOD : Trap net, 21.3 Hours
SAMPLE : 10528

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	110	23		

END TIME: October 24, 1986 11:50
LOCATION: 0.1 Miles South of Vernon Dam
METHOD : Trap net, 20.5 Hours
SAMPLE : 10529

No catch for this collection.

END TIME: October 24, 1986 11:35
LOCATION: Station 3
METHOD : Trap net, 20.5 Hours
SAMPLE : 10530

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	249	327		
2	1	Rock Bass	166	94		

END TIME: October 24, 1986 10:59
LOCATION: Stebbin Island-Vermont Side
METHOD : Trap net, 20.1 Hours
SAMPLE : 10531

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	233	227		
2	1	Rock Bass	181	120		
3	1	Smallmouth Bass	97	13	0	

END TIME: October 24, 1986 10:05
LOCATION: Stebbin Island-New Hampshire Side
METHOD : Trap net, 19.4 Hours
SAMPLE : 10532

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	264	220	3	
2	1	Yellow Perch	153	50	1	
3	1	Yellow Perch	164	41	1	
4	1	Rock Bass	185	130		
5	1	Rock Bass	119	216		
6	1	Rock Bass	179			
7	1	Rock Bass	192	138		
8	1	Bluegill	184	139		
9	1	Bluegill	181	138		
10	1	Pumpkinseed	179	132		
11	1	Eastern Silvery Minnow	96			
12	1	Eastern Silvery Minnow	99			
13	1	Eastern Silvery Minnow	97			
14	1	Eastern Silvery Minnow	97			
15	1	Eastern Silvery Minnow				
16	1	Eastern Silvery Minnow				
17	1	Eastern Silvery Minnow	94			
18	1	Eastern Silvery Minnow	97			
19	1	Eastern Silvery Minnow	100			
20	1	Eastern Silvery Minnow	97			
21	1	Eastern Silvery Minnow	99			
22	1	Eastern Silvery Minnow	99			
23	1	White Sucker	484	884		
31	1	Spottail Shiner	95	8.3		
32	1	Spottail Shiner	95	8.1		
33	1	Spottail Shiner	98	9.4		
34	1	Spottail Shiner	93	7.3		
35	1	Spottail Shiner	98	8.9		
36	1	Spottail Shiner	96	9.1		
37	1	Spottail Shiner	93	7.7		
38	1	Spottail Shiner	96	8.3		
39	1	Spottail Shiner	94	8.0		
40	1	Spottail Shiner	97	8.6		
41	2	Spottail Shiner				

END TIME: October 24, 1986 09:20
LOCATION: Approximately 4.2 Miles South of Vernon Dam-VT Shore
METHOD : Trap net, 18.9 Hours
SAMPLE : 10533

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	179	107		
2	1	Rock Bass	195	132		
3	1	Rock Bass	160	79		

END TIME: October 24, 1986 09:05
LOCATION: Station 2
METHOD : Trap net, 19.0 Hours
SAMPLE : 10534

No catch for this collection.

END TIME: October 25, 1986 10:55
LOCATION: 0.1 Miles South of Vernon Dam
METHOD : Trap net, 23.1 Hours
SAMPLE : 10535

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	246	314		

END TIME: October 25, 1986 10:30
LOCATION: Station 3
METHOD : Trap net, 22.9 Hours
SAMPLE : 10536

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Yellow Perch	87	9.0	0	
2	1	Eastern Silvery Minnow	103	8.0		
3	1	Eastern Silvery Minnow	97	6.0		
31	1	Spottail Shiner	100	8.9		
32	1	Spottail Shiner	94	7.8		

END TIME: October 25, 1986 10:05
LOCATION: Stebbin Island-Vermont Side
METHOD : Trap net, 23.1 Hours
SAMPLE : 10537

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Chain Pickerel	422	486		
2	1	Eastern Silvery Minnow	101			
3	1	Eastern Silvery Minnow	94			
4	1	Eastern Silvery Minnow	96			
5	1	Eastern Silvery Minnow	101			
6	1	Eastern Silvery Minnow	97			
7	1	Eastern Silvery Minnow	91			
8	1	Eastern Silvery Minnow	92			
9	1	Eastern Silvery Minnow	97			
10	1	Eastern Silvery Minnow	95			
11	1	Eastern Silvery Minnow	94			
12	1	Eastern Silvery Minnow	94			
31	1	Spottail Shiner	91	7.2		
32	1	Spottail Shiner	88	6.3		
33	1	Spottail Shiner	98	8.4		
34	1	Spottail Shiner	94	7.8		
35	1	Spottail Shiner	90	7.0		
36	1	Spottail Shiner	98	8.7		
37	1	Spottail Shiner	92	7.0		
38	1	Spottail Shiner	95	8.2		
39	1	Spottail Shiner	93	7.6		
40	1	Spottail Shiner	71	7.1		
41	1	Spottail Shiner	93	7.4		

END TIME: October 25, 1986 09:40
LOCATION: Stebbin Island-New Hampshire Side
METHOD : Trap net, 23.6 Hours
SAMPLE : 10538

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass	390	794	6	3799
2	1	Bluegill	228	267		
3	1	Spottail Shiner	102	17		
4	1	Spottail Shiner	103	17		
31	1	Spottail Shiner	100	9.0		
32	1	Spottail Shiner	101	9.8		

END TIME: October 25, 1986 09:00
LOCATION: Approximately 4.2 Miles South of Vernon Dam-VT Shore
METHOD : Trap net, 23.7 Hours
SAMPLE : 10539

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Smallmouth Bass				
2	1	Smallmouth Bass	86	12	0	
3	1	Yellow Perch	166	53	1	
4	1	Rock Bass	202	162		
5	1	Rock Bass	204	193		
6	1	Rock Bass	207	190		
7	1	Rock Bass	195	154		
8	1	Rock Bass	193	141		

END TIME: October 25, 1986 08:45
LOCATION: Station 2
METHOD : Trap net, 23.7 Hours
SAMPLE : 10540

Fish ID	Number of fish	Species	Length (mm)	Weight (g)	Annuli (number)	Tag Number
1	1	Rock Bass	102	23		
2	1	American Eel		69		

END TIME: October 29, 1986 13:00
LOCATION: Vermont Yankee Intake
METHOD : Circulating water travelling screens, 21.5 Hours
SAMPLE : 10541

No catch for this collection.

RECEIVED

JAN 15 1986

VERMONT YANKEE

Permit No. 3-1199

File No. 13-17-002

NPDES No. VT0000264

DISCHARGE PERMIT

In compliance with the provisions of the Vermont Water Pollution Control Act, as amended, (10 V.S.A. Chap. 47 § 1251 et. seq; the "Act"),

Vermont Yankee Nuclear Power Corporation
Ferry Road - RFD 5, Box 169
Brattleboro, Vermont 05301

is authorized to discharge from a facility located at

Governor Hunt Road
Vernon, Vermont

to the Connecticut River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, III hereof.

This permit shall become effective on the date of signing

This permit and the authorization to discharge shall expire at midnight, December 31, 1990.

Signed this 9th day of January 1986

Leonard W. Wilson

Leonard Wilson, Secretary
Agency of Environmental Conservation

PART I

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge controlled amounts of heated water and other liquid waste to the Connecticut River only as specified in Paragraphs 1-16 below, provided that such discharges do not violate applicable Vermont Water Quality Standards and are not adverse to: human health and safety; the environment in the vicinity of Vernon; and fish and other wildlife, including their value as fish and game and their habitat and ecology.

1. The permittee is required to operate its circulating water cooling facilities in a closed cycle mode except as follows:

   a. During the period October 15 through May 15 open-cycle operation is allowed provided that:

      (1) The temperature at Station 3 during this period of open-cycle operation shall not exceed 65°F. In the spring (prior to May 15) when the plant is operated open-cycle, and the mixed river temperature at Station 3 first reaches 60°F, the permittee shall notify the Secretary.

      (2) The rate of change of temperature at Station 3 shall not exceed 5°F per hour. The rate of change of temperature shall mean the difference between consecutive hourly average temperatures.

      (3) The increase in temperature above ambient at Station 3 shall not exceed 13.4°F. The increase in temperature above ambient shall mean plant induced temperature increase as shown by equation 1.1 (defined on page 1-8 of Vermont Yankee's 316 Demonstration: Engineering, Hydrological & Biological Information and Environmental Impact Assessment (March 1978).

   b. During the period May 16 through October 14, open-cycle operation is allowed provided that the increase in temperature above ambient at Station 3 shall not exceed 1°F. The increase in temperature above ambient shall mean plant induced temperature increase as shown by equation 1.1 (defined on page 1-8 of Vermont Yankee's 316 Demonstration: Engineering, Hydrological and Biological Information and Environmental Impact Assessment (March 1978).

   c. Experimental open/hybrid cycle test programs with alternate thermal limits (to a. and b. above) which are approved by the Vermont Yankee Environmental Advisory Committee (defined in Part I. 5.) and receive written authorization from the Secretary of the Vermont Agency of Environmental Conservation.

   d. During experimental open/hybrid cycle test programs, known as SAVE (Save Available Vermont Energy); which is for the annual period May 16 through October 14, provided that:

(1) Prior to the initiation of Project SAVE, Vermont Yankee shall upgrade the flow control gates such that they will meet the demands of Project SAVE. After the gates have been upgraded, written acknowledgement of this action shall be obtained from the Secretary. This acknowledgement shall only be forthcoming if the upgrade in the Secretary's judgement will meet the requirements of Project SAVE.

(2) The increase in temperature above ambient at Station 3 shall not exceed the limits set forth in the following table:

Station 7 Temperature	Increase in Temperature Above Ambient at Station 3
Above 66°F	1°F
63°F to 66°F	2°F
59°F to 63°F	3°F
55°F to 59°F	4°F
Below 55°F	5°F

The increase in temperature above ambient shall mean plant induced temperature increase as shown by equation 1.1 (defined on page 1-8 of Vermont Yankee's 316 Demonstration: Engineering, Hydrological & Biological Information and Environmental Impact Assessment (March 1978).

(3) Notwithstanding the other provisions of this permit, the Secretary may impose more stringent limitations for control of the thermal component of Vermont Yankee's discharge, including a requirement for closed cycle operation, if he determines that Project SAVE operations are having an adverse effect on resident or anadromous fish species in the river. Vermont Yankee shall file an annual report by May 31 on the previous year's results of the experimental test program.

e. During power operation, if an unexpected failure results in a complete loss of the cooling tower system, the above closed-cycle restriction may be modified for a period not to exceed 24 hours to permit an orderly shutdown by utilizing the main condenser as a heat sink and operating in an open-cycle mode. The cooling tower system includes all components required for condenser cooling.

f. Notwithstanding the above, the Secretary may impose more stringent effluent limitations for control of the thermal component of Vermont Yankee's discharge, including a requirement of closed-cycle operation, if he determines that open-cycle operation is having an adverse effect on resident or anadromous fish species in the river. Vermont Yankee will be given notice and opportunity for hearing prior to the imposition of such more stringent effluent limitations, unless the nature of the adverse effect will not allow sufficient time to give such notice and opportunity for hearing, in which event the Secretary shall hold a hearing within 10 days of his action if requested by the permittee. Nothing in this subparagraph shall be construed to limit the power of the Secretary to modify this permit as provided in Part II. B.4.C. hereof.

2. Any heated water discharged in the Vernon Pool under the terms of this permit shall be aerated or otherwise treated to provide a content of dissolved oxygen substantially at the level of saturation.

3. Racks and screens preventing fish and other wildlife from entering the condenser water intake must be operated and maintained in a manner as previously approved by the Vermont Water Resources Board. Solids collected on the traveling screens shall not be reintroduced into the Connecticut River.

4. All radioactive liquid wastes collected in the plant will be processed through a treatment system, including filtering and/or demineralization, and the liquid will be processed and disposed of in accordance with Nuclear Regulatory Commission Regulations. Low level radioactive wastes may be released to the Connecticut River after treatment pursuant to Final Safety Analysis Report, Volume III, Section 9.2: Station Radioactive Liquid Waste System, Vermont Yankee Nuclear Power Station, as amended subject to the following restrictions:

   a. The maximum instantaneous concentration of radionuclides in liquid effluents released to the unrestricted environment shall not exceed the limits specified in Table II, Column 2, Appendix B, 10 CRF 20, including applicable notes thereto.

   b. The maximum annual quantity of radionuclides, except tritium, in liquid effluents released to the unrestricted environment shall not exceed five (5) curies.

   c. The maximum annual quantity of tritium in liquid effluents released to the unrestricted environment shall not exceed five (5) curies.

   d. The dose or dose commitment to a member of the public from radionuclides in liquid effluents released to the unrestricted environment shall be limited to the following:

      (1) During any calendar quarter: less than or equal to 1.5 millirems to the total body, and less than or equal to 5 millirems to any organ.

      (2) During any calendar year: less than or equal to 3 millirems to the total body, and less than or equal to 10 millirems to any organ.

   e. The permittee shall report to the Agency of Environmental Conservation any abnormal releases of radioactivity in liquid effluents which are required to be reported to the Nuclear Regulatory Commission.

f. The permittee shall monitor and report concentrations, quantities and calculated doses of gamma radionuclides and tritium in liquid effluents released to the Connecticut River and report such data monthly to the Agency of Environmental Conservation. Other radionuclides shall be reported to the Agency of Environmental Conservation in a manner consistent with reports submitted to the Nuclear Regulatory Commission.

5. An Environmental Advisory Committee (EAC) will be comprised of one individual each representing: (1) Vermont Department of Water Resources and Environmental Engineering; (2) Vermont Department of Fish and Wildlife; (3) New Hampshire Fish and Game Department; (4) New Hampshire Water Supply and Pollution Control Commission; (5) Massachusetts Division of Water Pollution Control; (6) Massachusetts Division of Fisheries and Wildlife; and (7) Coordinator of the Connecticut River Anadromous Fish Program, U.S. Fish and Wildlife Service. The EAC shall be advisory in function and shall meet with the Chief Biologist of the Vermont Yankee Nuclear Power Corporation as often as necessary, but at least annually, to review and evaluate the aquatic environmental monitoring and studies program. The Vermont Yankee Chief Biologist will serve as the administrative coordinator and Secretary for the EAC.

6. The permittee shall conduct an environmental monitoring program to measure and record physical, chemical, and biological data to assure compliance with the requirements of this permit in accord with Environmental Monitoring Studies, Connecticut River Near Vernon (Appendix A to this permit). The permittee shall submit an annual report by May 31 of each year to the Secretary of the Agency of Environmental Conservation and the Environmental Advisory Committee (EAC).

7. The temperature probe in the Vernon fishway shall be compatible with the temperature monitoring system utilized at Stations 3 and 7 in the Connecticut River.

7. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the date of signing and lasting through December 31, 1990 the permittee is authorized to discharge from outfall(s), serial number(s) 001 (Circulating water discharge - condenser cooling water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	lbs/day		Other Units (specify)			
	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Measurement Frequency	Sample Type
Flow-MGD						
(1) Closed-Cycle			9.7 MGD	19.4 MGD	Daily	Weekly Avg. & Range (estimate)
(2) Open-Cycle*			543 MGD		Daily	Weekly Avg. & Range (estimate)
Temperature, Closed-Cycle				93°F (a)	Continuous	Daily Max. & Range
Chlorine - Free Residual				0.2 mg/l	(b,c)	Grab
Chlorine - Total Residual				0.5 mg/l	(b,c)	Grab
pH						
(1) Open/Hybrid-Cycle		6.5 - 8.0 Standard Units			Continuous (d)	Weekly Max. & Min.
(2) Closed-Cycle		6.5 - 8.5 Standard Units			Continuous (d)	Weekly Max. & Min.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Samples shall be taken at locations which are representative of the effluents discharged.

*See Part I. 1. for restrictions on open-cycle operation.

(a) If, under normal operating conditions, the supplementary blowdown spray pond becomes inoperable, daily instantaneous maximum temperatures of 110°F are permitted provided that the maximum time above 93°F does not exceed 7 days. However this does not relieve the permittee of any other thermal limits contained herein.

(b) Closed-Cycle only (discharge in blowdown) and chlorine injection not to exceed two hours per day.

(c) Monitoring only during chlorination. (d) if inoperable, grab, once per day.

8. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the date of signing and lasting through December 31, 1990 the permittee is authorized to discharge from outfall(s), serial number(s) 001A (Plant heating boiler blowdown)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	lbs/day		Other Units (specify)			
	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Measurement Frequency	Sample Type
Flow-MGD				.0010 MGD	(1)	Estimate
Hydrazine				.15 mg/l	(1)	Grab

(1) Shall be monitored when discharged

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Before combining with other waste streams.

9. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the date of signing and lasting through December 31, 1990 the permittee is authorized to discharge from outfall(s), serial number(s) 001B (Make-up demineralizer regenerate waste)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	lbs/day		Other Units (specify)			
	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Measurement Frequency	Sample Type
Flow-MGD				.020 MGD	(1)	Estimate
Total Suspended Solids		20 lbs			(1)	Grab

(1) Shall be monitored when discharged.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Before combining with other waste streams.

10. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the date of signing and lasting through December 31, 1990 the permittee is authorized to discharge from outfall(s), serial number(s) 001C (Water treatment and sand filter backwash)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	lbs/day		Other Units (specify)			
	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Measurement Frequency	Sample Type
Flow-MGD				.005 MGD	(1)	Estimate
Total Suspended Solids		40 lbs			(1)	Grab

(1) Shall be monitored when discharged

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Before combining with other waste streams.

11. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the date of signing and lasting through December 31, 1990 the permittee is authorized to discharge from outfall(s), serial number(s) 002 (Radioactive liquid)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	lbs/day		Other Units (specify)			
	Monthly Avg	Daily Max	Monthly Avg	Daily Max	Measurement Frequency	Sample Type
Flow-MGD				28.8 MGD		Estimate
Radioactivity		See Part I. 4. a-f.			(1)	See Part I. 4. a-f.
pH		6.5 - 8.0 Standard Units			(1)	Grab

(1) Shall be monitored when discharged.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Samples shall be taken at locations which are representative of the radioactive effluent discharges.

12. The permittee is authorized to discharge stormwater and surface runoff from the following storm drains:

    006 - North Storm System Discharge Point
    007 - East Storm System Discharge Point
    008 - South Storm System Discharge Point

    Effluent limits and monitoring will not be required for these discharges; however, future storm drain and manhole construction shall conform to Agency policy for storm water treatment.

13. The permittee is authorized to use Drewsperse 738, a proprietary condenser cleaning compound, as needed, to maintain condenser cleanliness. The amount of Drewsperse 738 shall not exceed a concentration of 10 ppm in the discharge.

14. The permittee is authorized to use, as needed, Drewsperse 744-A, an antifoulant agent for the prevention and removal of iron oxide and other metallic oxide in on-line treatment of the service water system. The amount of Drewsperse 744-A shall not exceed a concentration of 50 ppm in the service water system.

15. The permittee is authorized to pump river silt, as necessary, which deposits in the intake structure and cooling tower basins, in the form of a silt-water slurry to be deposited on land on the plant site in a sedimentation area. Slurry volumes to be pumped will not exceed 0.500 MGD (350 gpm). Water drained from the slurry on land will be further settled/sedimented and then passively drained across a filter to reduce turbidity prior to return to the river via the north and east storm system discharge points (S/N 006 and 007, respectively).

16. The permittee is authorized to clean and maintain the turbine building closed cooling system (TBCC) with the use of Drewsperse 744-A and Drewgard 100. The concentrations of Drewgard 100 and Drewsperse 744-A shall not exceed 880 mg/l and 1760 mg/l, respectively.

12. The permittee is authorized to discharge stormwater and surface runoff from the following storm drains:

    006 - North Storm System Discharge Point
    007 - East Storm System Discharge Point
    008 - South Storm System Discharge Point

    Effluent limits and monitoring will not be required for these discharges; however, future storm drain and manhole construction shall conform to Agency policy for storm water treatment.

13. The permittee is authorized to use Drewsperse 738, a proprietary condenser cleaning compound, as needed, to maintain condenser cleanliness. The amount of Drewsperse 738 shall not exceed a concentration of 10 ppm in the discharge.

14. The permittee is authorized to use, as needed, Drewsperse 744-A, an antifoulant agent for the prevention and removal of iron oxide and other metallic oxide in on-line treatment of the service water system. The amount of Drewsperse 744-A shall not exceed a concentration of 50 ppm in the service water system.

15. The permittee is authorized to pump river silt, as necessary, which deposits in the intake structure and cooling tower basins, in the form of a silt-water slurry to be deposited on land on the plant site in a sedimentation area. Slurry volumes to be pumped will not exceed 0.500 MGD (350 gpm). Water drained from the slurry on land will be further settled/sedimented and then passively drained across a filter to reduce turbidity prior to return to the river via the north and east storm system discharge points (S/N 006 and 007, respectively).

16. The permittee is authorized to clean and maintain the turbine building closed cooling system (TBCC) with the use of Drewsperse 744-A and Drewgard 100. The concentrations of Drewgard 100 and Drewsperse 744-A shall not exceed 880 mg/l and 1760 mg/l, respectively.

B. REAPPLICATION

If the permittee desires to continue to discharge after the expiration of this permit, he shall reapply on the application forms then in use at least 180 days before the permit expires.

Re-apply for Discharge Permit by June 30, 1990.

C. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Reporting

Monitoring results shall be reported monthly, postmarked no later than the 15th day of the month following the completed reporting period. The first report is due on the fifteenth of the month following the date of signing. Duplicate signed copies of these, and all other reports required herein, shall be submitted to the Secretary at the following address:

Agency of Environmental Conservation
Department of Water Resources & Environmental Engineering
State Office Building
Montpelier, Vermont 05602
Attn: Permits & Compliance Section

3. Definitions

For purposes of this permit, the following definitions shall apply.

Average - The arithmetic mean of values of analyses from samples taken at the frequency required for such parameter over a specific operating period.

Grab Sample - An individual sample collected in a period of less than 15 minutes.

Composite Sample - A sample consisting of a minimum of one grab sample per hour collected over a normal operating day and combined proportional to flow, or a sample continuously collected proportional to flow over a normal operating day.

Daily Discharge - Means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling.

For pollutants with limitation expressed in pounds the daily discharge is calculated as the total pounds of pollutants discharged over the day.

For pollutants with limitations expressed in mg/l the daily discharge is calculated as the average measurement of the pollutant over the day.

Maximum Day - Means the highest allowable "daily discharge" (mg/l, pounds or gallons).

Monthly Average (average monthly discharge limitation) - Means the highest allowable average of daily discharges (mg/l, pounds or gallons) over a calendar month, calculated as the sum of all daily discharges (mg/l, pounds or gallons) measured a calendar month divided by number of daily discharges measured during that month.

Closed-Cycle Operation and Blowdown - The circulating water system mode in which water is circulated through the cooling towers to dissipate condenser heat. The only water discharged to the river during closed cycle operation is the blowdown from the cooling towers. Blowdown refers to the water continuously removed from the cool side of the cooling tower collection basins to rid the cooling towers of dissolved solids.

4. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulations published pursuant to Section 304 (g) of the Clean Water Act, under which such procedures may be required. Guidelines establishing these test procedures have been published in the Federal Register as Vol. 38, No. 199, Part II, dated October 16, 1973, as amended at 41 FR 52781, December 1, 1976; 42 FR 3306, January 18, 1977; 42 FR 37205, July 20, 1977.

5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

a. The exact place, date, and time of sampling;

b. The dates the analyses were performed;

c. The person(s) who performed the analyses;

d. The analytical techniques or methods used; and

e. The results of all required analyses.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated.

7. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a minimum of three (3) years, or longer if requested by the Secretary.

A. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants must be reported by submissions of a new permit application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any daily terms or conditions specified in this permit, the permittee shall first notify the Secretary by telephone within 24 hours of becoming aware of the condition. In addition, within 5 working days of becoming aware of the condition, the permittee shall notify the Secretary in writing and provide the following:

a. A description of the discharge and cause of noncompliance; and

b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

c. Persons holding Discharge Permits shall comply with a and b above by submitting the required information with an application for an Emergency Pollution Permit.

3. Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

4. Quality Control

The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at regular intervals to ensure accuracy of measurements or shall ensure that both activities will be conducted. Samples shall be representative of the volume and quality of effluent discharged

over the sampling and reporting period. All samples are to be taken during normal operating hours. The permittee shall provide the above records upon request of the Secretary.

5. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to navigable waters resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

6. Bypassing

Any diversion from or bypass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited, except where unavoidable to prevent loss of life or severe property damage. The permittee shall notify the Secretary within 24 hours of each such diversion or bypass. The permittee shall also submit a written notification within 5 days of the occurrence. The written notification shall include the information as specified in Noncompliance Notification, Part II, paragraph A.2.

7. Removed Substances

Solids, sludges, filter backwash,or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering navigable waters.

B. RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the Secretary of the Agency of Environmental Conservation, and/or his authorized representatives, upon the presentation of credentials:

a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Secretary of the Agency of Environmental Conservation.

3. Availability of Reports

Except for data determined to be confidential under Section 1259(c) of the Act, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Vermont Agency of Environmental Conservation. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 1275 (b) of the Act.

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

a. Violation of any terms or conditions of this permit;

b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

5. Toxic Pollutants

Notwithstanding Part II, B-4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307 (a) of the Clean Water Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

6. Civil and Criminal Liability

Except as provided in the permit condition on "Bypassing" (Part II, A-6), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

7. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 1281 of the Act.

8. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Clean Water Act.

9. Property Rights

Issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, not any infringement of Federal, State or local laws or regulations.

10. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

PART III

OTHER REQUIREMENTS

This permit shall be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C), and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or

2. Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

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ENVIRONMENTAL MONITORING STUDIES, CONNECTICUT RIVER

The environmental monitoring and studies specified in Appendix A are intended to assure that the discharges authorized by this permit do not violate applicable Vermont Water Quality Standards and are not adverse to fish and other wildlife that inhabit the Connecticut River in and around the vicinity of Vernon.

The monitoring requirements of Section I are strictly defined in terms of sample methodologies, locations (See Appendix B) and frequency of sampling.

The monitoring requirements of Section II are less strictly defined goal oriented monitoring requirements. Goal oriented study objectives will be defined and reviewed by the Vermont Yankee Environmental Advisory Committee annually.

ROUTINE MONITORING

River Flow Rate

Frequency/Date: Hourly/All months

Location: Vernon Dam

River flow data will be tabulated from the records of the Vernon Hydroelectric Generating Station.

Temperature

1. Frequency/Date: Once per hour/All months

Locations: Stations 3 and 7

2. Frequency/Date: Once per hour/During fishway operation

Location: Vernon Fishway

Water temperature will be measured to within 0.1°F. These data will be collected only when the fishway is officially operating. Data will be reported as hourly, daily, and monthly means.

Water Quality Parameters

Frequency/Date: Once per month/All months

Locations: Stations 3 and 7, Plant Discharge

Water quality parameters will be grab samples collected via monitor pumps or directly from the river for the following:

Parameter	Location		
	Station 7	Discharge	Station 3
Dissolved Oxygen	X	*	X
pH	X	*	X
Alkalinity	X	*	X
Turbidity	X	*	X
Total Solids	X	*	X
Suspended Solids	X	*	X
Sodium	*	*	*
Sulfate	*	*	*
Chloride	*	*	*
Copper	*	*	*
Iron	*	*	*
Zinc	*	*	*

* Monitoring required only if Vermont Yankee is operating that sample period.

X Monitoring required once per month

Phytoplankton and Zooplankton

Phytoplankton and zooplankton will be collected during open/hybrid cycle according to the following schedule:

Frequency/Date: Monthly/April-November

Locations: Intake and Discharge

Comments: Duplicate samples will be collected and analyzed for proportion of living organisms. The remaining portion of the samples will be preserved and organisms identified to the lowest feasible taxonomic level. If the plant is not operating on open/hybrid cycle one river sample will be collected monthly in front of the intake and analyzed.

Macroinvertebrates

Macroinvertebrates will be collected according to the following schedules:

1. Frequency/Date: Monthly/June, August, October

   Locations: Stations 2,3,4,5

   Dredge samples will be collected at quarter points at each of the four stations. Macroinvertebrates, defined as invertebrates retained by a number 30 U.S. Geological Survey Sieve, will be identified to the lowest feasible taxonomic level.

2. Frequency/Date: Two samples/June - October

   Locations: Stations 2, 3, 4, 5

   A cage sample will be set at each station along the Vermont shore and retrieved after 30 to 60 days in the river. Macroinvertebrates will be identified to the lowest feasible taxonomic level.

Larval Fish

Larval fish will be collected during open/hybrid cycle according to the following schedule:

Frequency/Date: Weekly/May 1 - July 15

Location: Intake

A weekly sample shall consist of a sample at the surface, mid-depth and bottom strata of intake water. Volume of water sampled will be with a flow meter or other appropriate measuring device. Larval fish will be identified to the lowest feasible taxonomic level.

Fish

Fish will be collected according to the following schedules:

1. Frequency/Date: Monthly/May, June, September, October

   Location: Rum Point, Station 5, Station 4, N.H. Setback, 0.1 mile south of Vernon Dam, Station 3, Stebbin Island, Station 2

   Trap nets will be set at each station for two days and checked daily for each monthly sampling. A representative sample of American shad, Atlantic salmon, white perch, yellow perch, walleye, largemouth bass and smallmouth bass will be scaled for annuli enumeration.

2. Frequency/Date: Monthly/May, June, September, October

   Location: Rum Point, Station 5, Station 4, N. H. Setback, 0.1 Mile south of Vernon Dam, Station 3, Stebbin Island, Station 2.

   Fish will be collected at each location with boat-mounted electrofishing gear. A representative sample of American shad, Atlantic salmon, white perch, yellow perch, walleye, largemouth bass and smallmouth bass will be scaled for annuli enumeration.

Fish Impingement

Impingement samples will be collected during open/hybrid cycle according to the following schedule:

Frequency/Date: Weekly/April 1 - June 15, August 1 - October 31

Locations: Circulating water traveling screens

Prior to the start of each weekly sample, the three circulating water screens will be backwashed and debris removed. Debris will be examined for anadromous fish. On the following day the three circulating water screens will be backwashed and the debris sorted through for impinged fish. Impinged fish will be weighed and total length measured. Fish will be identified to the lowest feasible taxonomic level.

If any anadromous Atlantic salmon or American shad are impinged the Vermont District I Fisheries Biologist or the Director of Fisheries shall be notified. Frequency of impingement sampling shall increase to daily sampling upon the impingement of these salmonids or clupeids and continue until three consecutive daily samples not containing these fishes are obtained. Sampling frequency will then revert to weekly sampling.

The maximum number of Atlantic salmon which can be impinged by Vermont Yankee during a calendar year is determined by:

Impinged Atlantic salmon limit = 0.001 x (smolt equivalents)

Smolt equivalents (SE) are defined as:

$$SE = SE_F + SE_P + SE_S + SE_N$$

where:

SE_F is defined as the total number of smolt equivalents available from fry plants upstream of Vernon Dam. This number is calculated by:

SE_F = 0.0675 x (two-year previous fry).

Two-year previous fry is defined as the total number of fry stocked upstream of Vernon Dam two years previous.

SE_P is defined as the total number of smolt equivalents available from parr plants upstream of Vernon Dam. This number is calculated by:

SE_P = 0.25 x (yearling parr) + 0.11 x (two-year previous under yearling).

Yearling parr is defined as the total number of 1+ parr stocked upstream of Vernon Dam during the previous calendar year.

Two-year previous under yearling parr is defined as the total number of 0+ parr stocked two years previous.

SE_S is defined as the total number of smolt equivalents available from smolt stocked upstream of Vernon Dam. This number is calculated by:

SE_S = 1 x (smolts stocked).

Smolts stocked is defined as the total number of smolts stocked upstream during the current monitoring year.

SE_N is defined as the total number of smolt equivalents available from natural reproduction upstream of Vernon Dam. This number is calculated by:

SE_N = 0.58 x 7000 x 0.01 x (adult salmon)
0.58 represents 58% of the run is female
7000 represents the average number of eggs per female
0.01 represents a 1% survival of eggs to smolt stage
Adult salmon is defined as the number of adult salmon passed through the Vernon fishway two years previous.

The maximum number of American shad which can be impinged by Vermont Yankee during a calendar year is determined by:

Impinged American shad limit = 1 x number of shad

The number of shad is defined as the number of adult American shad passed at the Vernon fish ladder or otherwise introduced above Vernon Dam during the calendar year.

The plant will revert to closed cycle if either impingement limit is exceeded. The plant will remain on closed cycle until June 15 of the current calendar year if Atlantic salmon impingement limit is exceeded or until November 1 of the current calendar year if the American shad limit is exceeded.

SECTION II

The purpose of goal oriented studies is to continue to monitor the relationships among biotic, abiotic and plant operation components of the Connecticut River. Goal oriented study objectives will be defined and reviewed by the Vermont Yankee Environmental Advisory Committee (EAC) annually. A draft proposal for the following year's test program will be submitted by Vermont Yankee to the EAC for review by October 1 of each year. A progress report on these test programs conducted during the current year will be submitted by Vermont Yankee to the EAC by February 1. Proposed changes to the draft proposal will be submitted by March 1.

The following goals which will be addressed during this permit are:

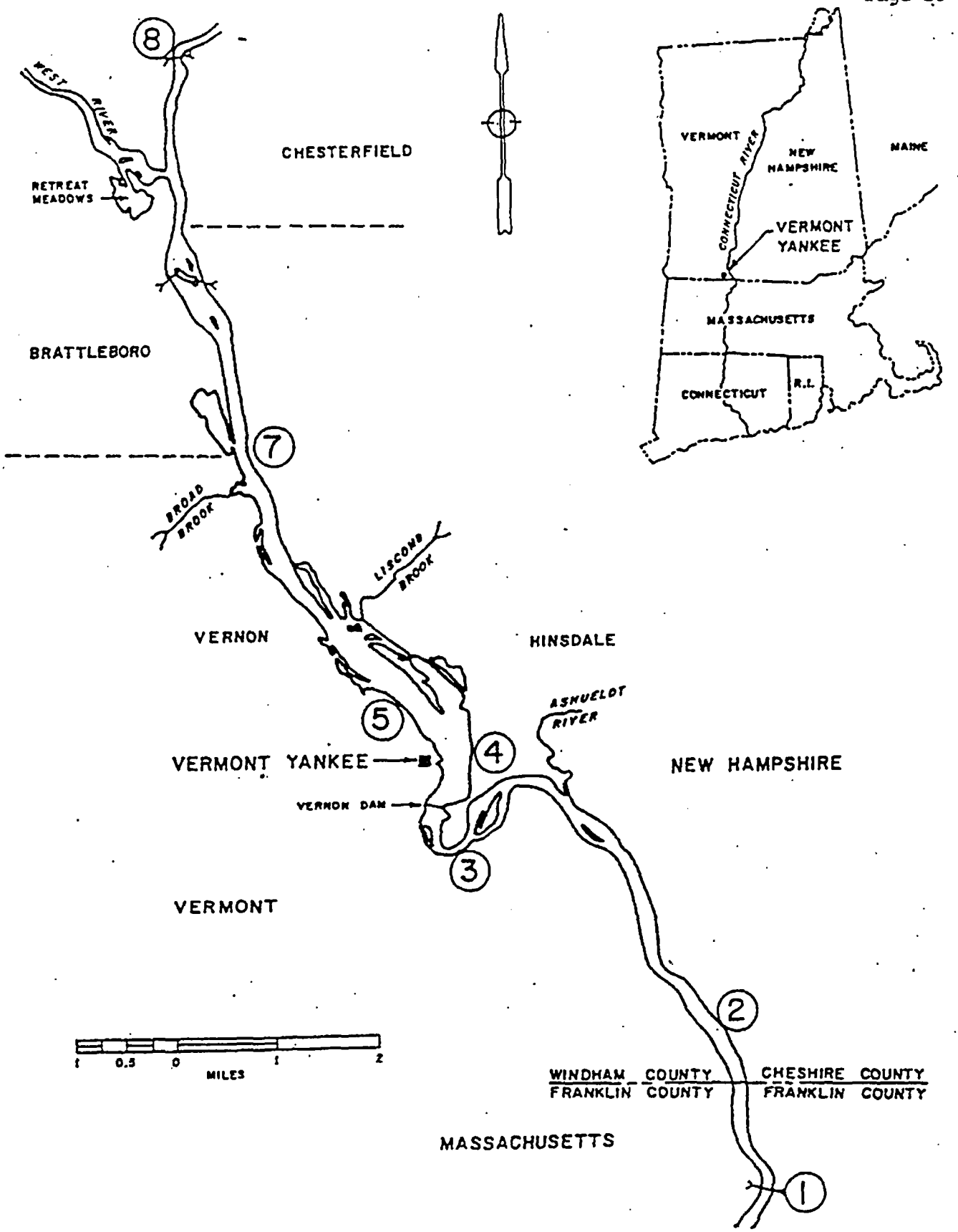
Continue to monitor the distribution and composition of fish in the lower Vernon and upper Turners Falls pools. Historical fish data and data collected annually as part of this monitoring program will provide the database for documenting the spatial and temporal distributions of fishes near Vermont Yankee.

Continue to monitor the relationship between ichthyoplankton entrainment and Vermont Yankee operation. The synthesis of historical ichthyoplankton data and ichthyoplankton data collected as part of this permit will be used to develop a model of plant entrainment.

Continue to monitor the relationships between plant operation and primary and secondary productivity. Studies on primary and secondary productivity will focus on spatial and temporal variations of these communities downstream of Vermont Yankee.

Continue to monitor the relationship between Vermont Yankee operation and the distribution, growth and population dynamics of juvenile American shad. These studies will focus on the relationships between plant operation and the growth, metabolism, and behavior of the juvenile shad downstream of Vermont Yankee.

Continue to monitor the relationship between Vermont Yankee operation and the migratory behavior of American shad and Atlantic salmon. The movement of the shad and salmon past Vernon Dam and Vermont Yankee will be monitored in situ to evaluate the relationship between migratory patterns and plant operation.



Appendix B BIOLOGICAL SAMPLE STATIONS