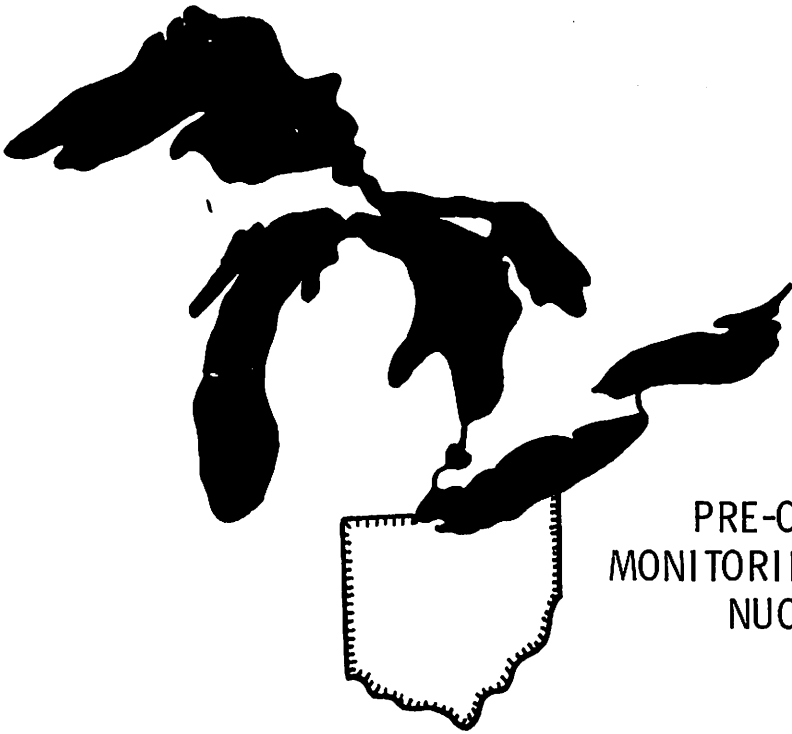




PRE-OPERATIONAL AQUATIC ECOLOGY  
MONITORING PROGRAM FOR THE DAVIS-BESSE  
NUCLEAR POWER STATION, UNIT 1  
ANNUAL REPORT FOR 1973

Prepared for

Toledo Edison Company  
Toledo, Ohio

Prepared by

Jeffrey M. Reutter  
and  
Charles E. Herdendorf

THE OHIO STATE UNIVERSITY  
CENTER FOR LAKE ERIE AREA RESEARCH  
COLUMBUS, OHIO

October 1979  
(Originally prepared in July 1974)

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## STUDY OBJECTIVE

The purpose of this investigation is to ascertain the existing character of the aquatic ecosystem at Locust Point, Lake Erie prior to operation of the Davis-Besse Nuclear Power Station, Unit I. Included in the assessment are existing benthos, fish, and plankton populations and water quality and recent trends in these parameters.

## PROCEDURES

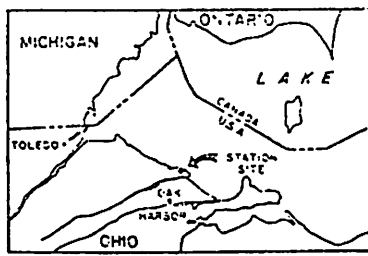
### Station Position

Twenty stations, 18 along 4 transects in the lake and 2 stations in the intake canal, were designated as sampling stations (Fig. 1). Of the 4 transects, one followed the intake conduit, one the discharge conduit, while control transects were set up on the east and west sides of the entire intake and discharge complex. Control west ran due north from the shore-end of the intake conduit with sampling stations located at 500 ft (Station 1), 1000 ft (Station 2), 2000 ft (Station 3), and 3000 ft (Station 4) from the shore line, sampling stations on the intake were located at 500 ft (Station 5), 1000 ft (Station 6), 2000 ft (Station 7), 3000 ft (Station 8, proposed intake), and 4000 ft (Station 9) from shore. Along the discharge transect sampling stations were at distances of 500 ft (Station 10), 1000 ft (Station 11), 1500 ft (Station 12, proposed discharge), 2000 ft (Station 13), and 3000 ft (Station 14) from shore. Additional stations were placed 500 ft due north of Station 12 (Station 15) and 500 ft south of Station 12 (Station 16). Control east ran perpendicular to the shore line, parallel to the intake, and approximately 2500 ft east of the intake. Stations were located 500 ft (Station 17) and 1000 ft (Station 18) from shore. Stations 19 and 20 were located in the center of the intake canal, 1000 and 2500 ft from the lake shore, respectively.

### Benthos

Benthos samples were taken monthly at 20 stations in the lake and intake channel (Fig. 1). Due to weather conditions and personnel limitations it was not always possible to space samples exactly one month apart. Actual sampling dates for each month were:

|           |                      |
|-----------|----------------------|
| May       | May 25               |
| June      | July 2               |
| July      | July 26 and August 1 |
| August    | August 23            |
| September | September 19 and 26  |
| October   | November 2 and 7     |
| November  | December 4           |



SITE LOCATION

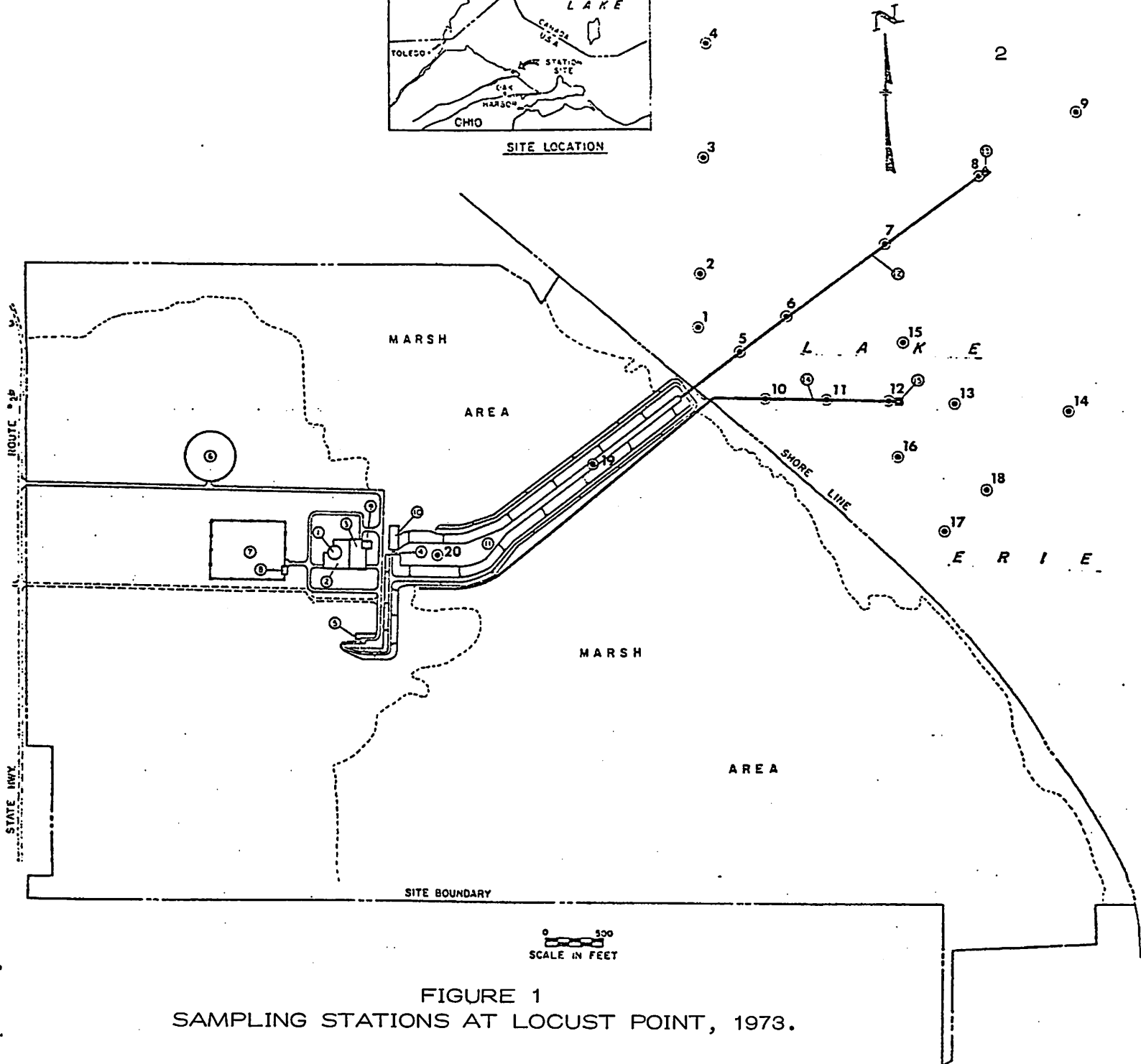


FIGURE 1  
SAMPLING STATIONS AT LOCUST POINT, 1973.

LEGEND

EXISTING BUILDING & STATION AREA

- ① CONTAINMENT BUILDING
- ② AUXILIARY BUILDING
- ③ TURBINE BUILDING
- ④ INTAKE STRUCTURE
- ⑤ SEWAGE TREATMENT PLANT
- ⑥ COOLING TOWER
- ⑦ SWITCH YARD
- ⑧ RELAY HOUSE
- ⑨ CIRCULATION WATER SYSTEM PUMP HOUSE
- ⑩ WATER TREATMENT BUILDING
- ⑪ FOREBAY & INTAKE CANAL

PROPOSED WATER INTAKE AND DISCHARGE

- ⑫ 96" INTAKE CONDUIT
- ⑬ INTAKE CRIB
- ⑭ 72" DISCHARGE CONDUIT
- ⑮ DISCHARGE STRUCTURE

⑯ Monitoring Stations

WATER INTAKE AND DISCHARGE  
DAVIS - BESSE NUCLEAR POWER STATION

Except in November all samples consisted of one Ponar grab ( $A=0.055 \text{ m}^2$ ). In November, 3 replicates were taken at Stations 1, 4, 8, and 12 while other stations were represented by one grab.

Samples were sieved through a U.S. #40 sieve, preserved in 10% formalin and returned to the laboratory. They were stained with Rose Bengal and sorted in white enamel pans. Individuals were identified as far as possible (usually to genus; to species where possible) and reported as numbers of individuals per  $\text{m}^2$ . The works of Brinkhurst (1963), (1964), (1965), Brinkhurst, Hamilton, and Herrington (1968), Klemm (1972), Mason (1968), Pennak (1953), Stein (1962), Usinger (1956), Walter and Burch (1957), and Ward and Whipple (1959) were used for the benthos identification.

### Plankton

Plankton was sampled monthly, May through November, from 13 of the 20 sampling stations. Due to weather conditions it was impossible to space samples exactly one month apart. The exact dates of each collection were:

|           |              |
|-----------|--------------|
| May       | May 25       |
| June      | June 27      |
| July      | July 25      |
| August    | August 23    |
| September | September 26 |
| October   | November 6   |
| November  | December 4   |

Previously, plankton had been sampled by passing water collected from a surface grab with a 3-l Kemmerer bottle through #25 silk bolting cloth. This year, along with the 3-l grab, one vertical tow (bottom to surface) was made with a Wisconsin plankton net (#25 silk bolting cloth) in an attempt to better sample the resident populations. The 3-l grab was deleted from our sampling program in August after analysis had shown it to be the inferior method.

Each sample was concentrated to 50 ml from which three 1-ml aliquots were taken for counting. Each aliquot was placed in a Sedgewick-Rafter cell, and the entire cell was scanned. Zooplankters were identified as far as feasible (genus or species) and counted for quantitative analysis. Phytoplankton was observed qualitatively and dominant species were recorded. The works of Chengalath, Fernando, and George (1971), Collins and Kalinsky (1972), Eddy and Hodson (1964), Jahoda (1948), Pennak (1953), Taft and Taft (1971), and Ward and Whipple (1959) were used in plankton identification.

### Primary Production

Primary production studies in Lake Erie at Locust Point are concerned with two components: (1) the evaluation of the capacity of an aquatic ecosystem to build up primary organic compounds, at the expense of external energy, both radiant and chemical, through the process of photosynthesis and (2) the organisms which are involved in biosynthesis at the primary production level. Two methods were attempted to determine rate of primary production: (1)  $^{14}\text{C}$  tracer technique and (2) changes in biomass per unit time method. Because of difficulties in perfecting the isotope technique, the only estimates of primary production were made from changes in the biomass of phytoplankton standing crops between sampling periods. This technique is described by Vollenweider (1969, p. 101).

Vollenweider points out that given the relatively short life duration of phytoplankters, and the many possibilities of losses by grazing, sedimentation and by outflow, the spacing in time of sampling should not exceed one week. The monthly sampling schedule for this program was not designed specifically to determine primary production. Therefore, the rates of primary productivity are not considered reliable and are not presented in this report.

### Secondary Production

Secondary production is regarded as the formation of consumer organisms and includes all those processes involved in the consumption, transformation and utilization of food by animals. No single measurement can be used effectively to characterize the secondary and primary productivity. The approach used in this study is to analyze fish feeding habits as a segment of secondary production in the aquatic ecosystem at Locust Point. This segment is one of the most important because fish form the apex of the trophic pyramid in Lake Erie. These studies are discussed in detail under the following heading.

### Fish and Food Habits

Four methods were used to capture fish in the Locust Point vicinity including a cast net (8 ft diameter of 3/8 in bar mesh) used on October 3, 1973 to sample fish in the marshes. Fish were sampled in the lake with a 16 ft otter trawl, experimental gill nets (125 ft x 6 ft and composed of contiguous panels of 1/2, 3/4, 1, 1 1/2, and 2 inch bar mesh), and a 100 ft bag seine.

A series of four 5-minute trawls were made between the discharge (Station 12) and the intake (Station 8) monthly from June to October. Due to weather conditions it was impossible to space these trawls exactly 1 month apart. The exact dates of each trawl are listed below.

|           |              |
|-----------|--------------|
| June      | June 29      |
| July      | July 17      |
| August    | August 24    |
| September | September 27 |
| October   | November 5   |

Gill nets were set monthly from June to November at the intake (Station 8) and discharge (Station 12). The nets were laid perpendicular to shore with the smaller mesh closest to shore. They were set in the late afternoon and retrieved in the early morning. Again, weather conditions prevented sampling exactly one month apart. The exact sampling dates are listed below.

|           |              |
|-----------|--------------|
| June      | July 2       |
| July      | August 2     |
| August    | August 30    |
| September | September 28 |
| October   | November 12  |

Shore seining was done with a 100 ft bag seine 2500 ft west of the intake conduit and 2500 ft east of the intake conduit. Shore seining was accomplished on the following dates: June 14, August 1, October 3, and November 12. An additional seine haul was made over the intake conduit on June 14.

All fish were identified to species, weighed and measured. In addition, stomachs were taken from fish collected in the trawl to study feeding habits. Stomach contents were identified as far as possible, and individual food items were counted.

### Hydrographic Survey and Sediment Analysis

In September 1972, prior to the dredging of a barge channel and the construction work associated with laying the intake and discharge pipelines in Lake Erie, a hydrographic survey of the lake bottom was conducted in order to document the configuration of the bottom at that time. A recording fathometer was used to make profiles of the bottom along the center lines of the proposed work and along a control line west of the planned construction area. Sediment samples were also collected and analyzed for grain-size at 30 stations along these three lines. Sediment samples were collected with a Ponar grab sampler, air-dried and passed through a series of 7 sieves (U. S. Sieve nos. 5, 10, 18, 35, 60, 120, and 230) to sort them into various size grades from gravel to silt.

The original objective of the monitoring program was to survey the bottom in 1973 at the completion of the construction. The purpose of the survey was to determine the degree of bottom restoration, both configuration and sediment type. However, due to construction delays, the offshore work was not completed in 1973. Therefore, it was decided not to make a final resurvey of the bottom until after the completion of restoration work by the dredger.

### Water Chemistry

Water chemistry was measured approximately monthly (May through November) at each of the twenty stations. These measurements were done simultaneously with the benthos and plankton collections. Because of weather conditions shorter time spacing of measurements was not possible. The collection dates for each month are listed below.

|                         |                             |
|-------------------------|-----------------------------|
| May - May 16-25         | September - September 19-26 |
| June - June 27-July 2   | October - November 2        |
| July - July 25-August 1 | November - December 4       |
| August - August 23      |                             |

Parameters measured during this period included depth, transparency, dissolved oxygen (D.O.), carbon dioxide, temperature, conductivity, turbidity, alkalinity, pH, sulfate, and orthophosphate. Transparency was measured with a Secchi Disk. Temperature and conductivity were measured with a Beckman RB3-3341 Solubridge temperature-compensated conductivity meter, referenced to 25°C. All other parameters were measured with a Hach "Direct Reading" Portable Engineer's Laboratory.

### Previous Investigations

The Ohio State University in cooperation with the Ohio Division of Wildlife and U. S. Bureau of Sport Fisheries and Wildlife (Federal Aid Project F-41-R) has conducted an aquatic ecology monitoring program at Locust Point since 1969. Results of this study can be found in annual reports submitted to The Ohio Division of Wildlife and U. S. Bureau of Sport Fisheries and Wildlife.

## FINDINGS

### Benthos

Between May and December, 1973, 31 benthic taxa were reported. Eleven of these were Oligochaeta and 10 were Chironomidae. The greatest number of taxa identified in any one month was 19 (September) and the fewest taxa (12) were found in June. The mean number of taxa found was 16.

The mean frequency of occurrence in 1973 was calculated for all benthic organisms (Table 1). Immature oligochaetes were the only organisms found in more than 50% of the samples (79.2%). Although no single genus of Chironomidae was found in more than 45% of the samples, the family was represented by at least one genus in 70.7% of the samples. Several taxa were present in more than 20% of samples: Limnodrilus cervix (23.8%); L. hoffmeisteri (21.5%); Potamotheix moldaviensis (35.4%); Chironomus (Chironomus) sp. (44.6%); C. (Cryptochironomus) sp. (28.5%); Tanytarsus sp. (33.8%) and Procladius sp. (23.8%). All of the above are Oligochaeta and Chironomidae. Organisms present in more than 10% of the samples were Hydra sp. (13.1%); Limnodrilus claparedeanus (13.8%); Potamotheix vejdoskyi (10.0%); Branchyura sowerbyi (19.2%); Gammarus fasciatus (13.1%) and Polypedilum sp. (12.3%).

Over the season, 11.3% of all samples contained no organisms. Four of these were on the intake transect, 2 on the discharge transect, 4 on the control transects and 4 in the intake canal. All were within 1000 ft of shore, where severe wave action and shifting substrate are common occurrences.

When all stations were considered together there was some indication of increasing density through the season until November 7, after which density decreased (Fig. 2). The rate of increase was depressed through the spring and summer, which may have been due to dredging and pipe-laying activities along the intake and discharge transects. When the transects were considered separately the effects of construction were reflected in the population decreases on the intake and discharge transects (Fig. 3).

The trend toward increasing density with increasing distance off-shore which has been observed in previous years was not so evident in 1973 except along the control west transect (Fig. 4).

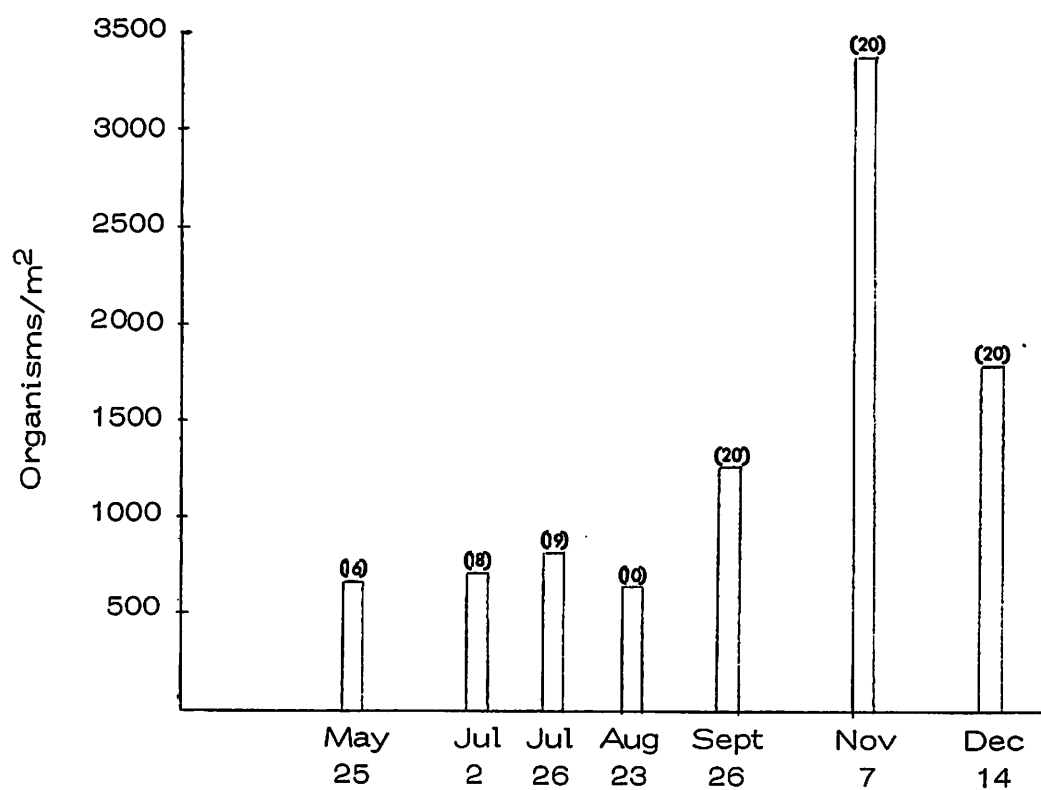
Benthos data are contained in Appendix A.

TABLE 1  
MEAN FREQUENCY OF OCCURRENCE (%) OF  
BENTHIC MACROINVERTEBRATES AT LOCUST POINT  
IN 1972 AND 1973.

|                                    | 1972 | 1973 |
|------------------------------------|------|------|
| <u>Hydra</u> sp.                   | 11.6 | 13.1 |
| Hirudinea                          |      |      |
| Glossiphonidae                     | 6.9  | 0.7  |
| Erpobdellidae                      | 1.1  | 0.7  |
| Oligochaeta                        |      |      |
| <u>Limnodrilus cervix</u>          | 5.8  | 23.8 |
| <u>L. hoffmeisteri</u>             | 8.1  | 21.5 |
| <u>L. claparedeanus</u>            | 3.4  | 13.8 |
| <u>Potamotheix vejdoskyi</u>       | 3.4  | 10.0 |
| <u>P. moldaviensis</u>             | 15.1 | 35.4 |
| <u>Branchyura sowerbyi</u>         | 15.1 | 19.2 |
| <u>Naidium</u> sp.                 | 10.4 | 0.0  |
| <u>Pristina</u> sp.                | 3.4  | 0.0  |
| <u>Uncinatis uncinata</u>          | 4.6  | 1.5  |
| Naididae                           | 1.1  | 0.0  |
| immature                           | 51.1 | 79.2 |
| Amphipoda                          |      |      |
| <u>Gammarus fasciatus</u>          | 24.4 | 13.1 |
| Ephemeroptera                      |      |      |
| <u>Caenis</u> sp.                  | 4.6  | 2.3  |
| Trichoptera                        |      |      |
| Limnephilidae                      | 1.1  | 0.0  |
| Chironomidae                       |      |      |
| <u>Chironomus (Chironomus)</u> sp. | 19.7 | 44.6 |
| <u>C. (Cryptochironomus)</u> sp.   | 26.7 | 28.5 |
| <u>Polypedilum</u> sp.             | 15.1 | 12.3 |
| <u>Pseudochironomus</u> sp.        | 3.4  | 2.3  |
| <u>Tanytarsus</u> sp.              | 15.1 | 33.8 |
| <u>Procladius</u> sp.              | 6.9  | 23.8 |
| <u>Coelotanypus</u> sp.            | 3.4  | 9.2  |
| <u>Cricotopus</u> sp.              | 1.1  | 0.0  |
| Pelecypoda                         |      |      |
| <u>Amblema plicata</u>             | 1.1  | 0.0  |
| <u>Ligumia recta</u>               | 2.3  | 0.0  |
| <u>Leptodea fragilis</u>           | 1.1  | 0.7  |
| <u>Pisidium</u> sp.                | 26.8 | 0.7  |
| <u>Sphaerium</u> sp.               | 0.0  | 6.9  |
| Nothing                            | 26.8 | 11.3 |
| Total Number of Samples            | 86   | 123  |

FIGURE 2

MEAN DENSITY OF BENTHIC MACROINVERTEBRATES  
AT LOCUST POINT ON SAMPLING DATES IN 1973



( ) No. of stations sampled

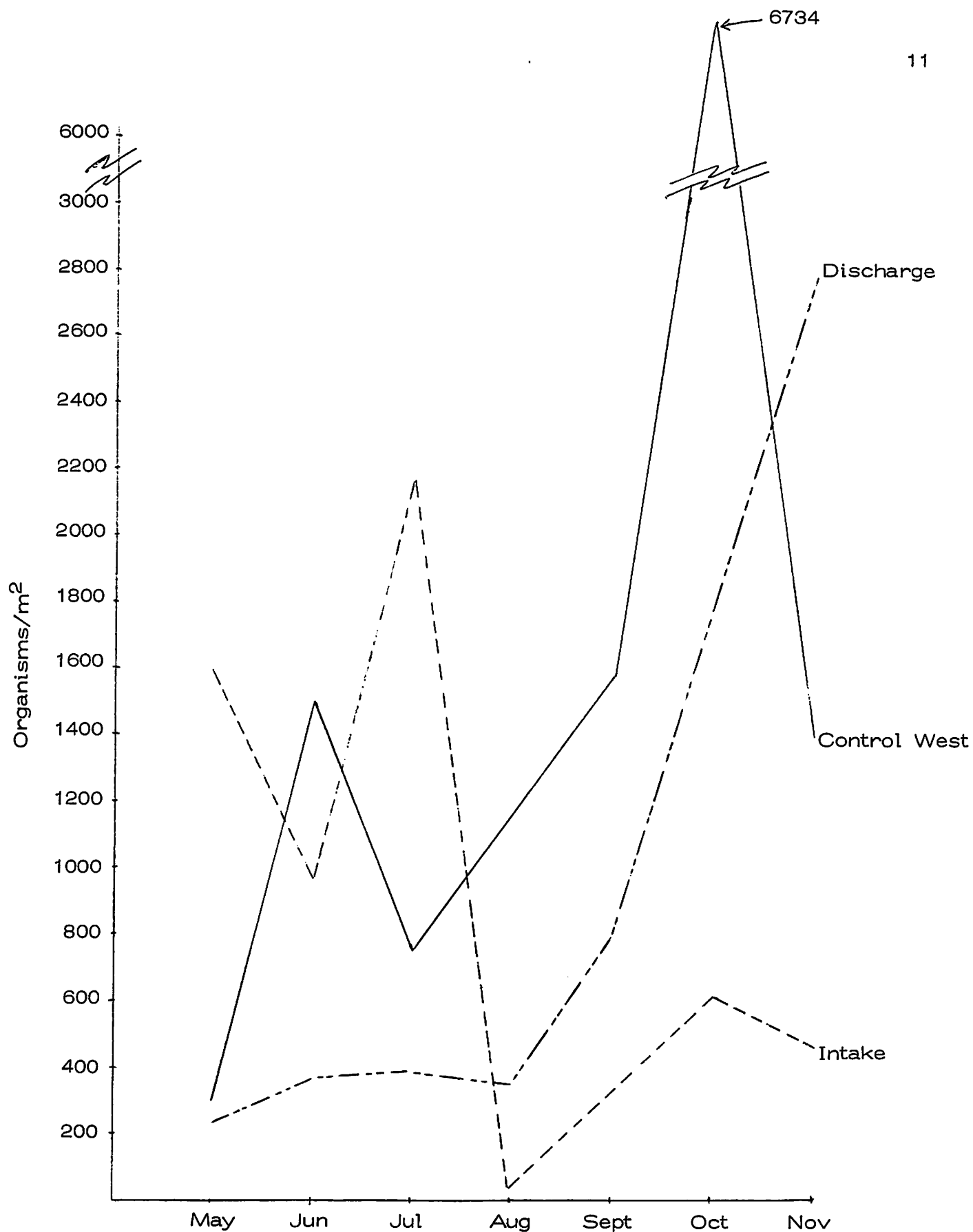


FIGURE 3  
MACROBENTHOS POPULATIONS ALONG THE  
THREE SAMPLING TRANSECTS AT LOCUST POINT, 1973

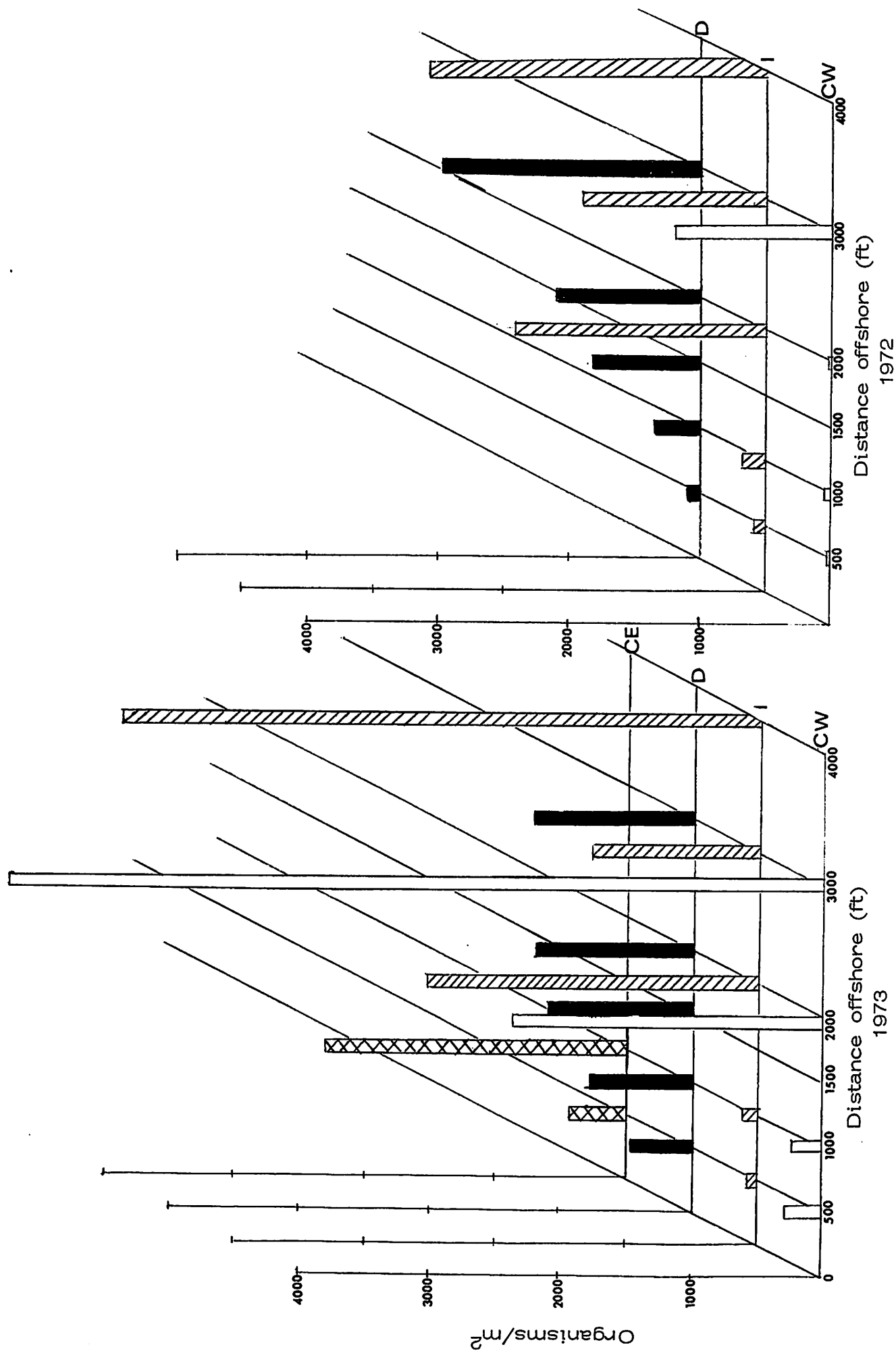


FIGURE 4

DENSITY OF BENTHIC MACROINVERTEBRATES AS A FUNCTION OF DISTANCE OFFSHORE ALONG THE 4 TRANSECTS (Control West = CW, Intake = I, Discharge = D, Control East = CE) SAMPLED AT LOCUST POINT, 1972 and 1973

## Plankton

During the 1973 field season zooplankton was collected and placed in 39 taxa (Table 2). Rotifers were placed in 23 taxa of which 18 were to the species level, 4 to the genus level, and one was reported as unidentifiable. There were 7 taxa of copepods of which 4 were to the genus level, one was immature calanoid, one was immature cyclopoid, and one contained all nauplii. For Cladocerans, there were 9 taxa of which 5 were to the species level and 4 to the genus level.

The number of zooplankton taxa reported from any one sampling date was the highest (30) on September 26, 1973 and the lowest (15) on December 4, 1973.

A comparison of mean species diversity per vertical tow with the Wisconsin plankton net and per 3-liter surface grab with the Kemmerer water bottle showed the vertical tow to be the better overall sampling method. Approximately 50% more species were found with the vertical tow (Table 3). Raw data from both methods are contained in Appendix B.

Percent frequency of occurrence was computed for all taxa each month and for the entire year (Table 4). Taxa occurring in more than 50% of the year's samples included the following: Rotifers: Asplanchna priodonta (70%), Brachionus angularis (71.4%), Keratella cochlearis (97.1%), and Polyarthra sp. (98.6%); Copepods: Diaptomus sp. (64.3%), Cyclops sp. (75.7%), immature cyclopoids (100.0%), and nauplii (100.0%); Cladocerans: Bosmina sp. (98.6%), and Daphnia retrocurva (71.4%).

Rotifer, copepod, and cladoceran populations all peaked in the late spring or summer (Figs. 5, 6, and 7). By December 4, all populations were steadily decreasing. Copepod and cladoceran populations peaked on June 27 at 590.7 and 142.4 per liter respectively, while the rotifer population was at its lowest point, 100.3 per liter. The rotifer population peaked on May 25 at 478.8 per liter.

These results are not directly comparable to 1972 data (F-41-R) due to different sampling methods and different stations (Fig. 8). However, there appears to be an increase in the zooplankton population at Locust Point from 1972 to 1973.

By computing the mean number of each taxa per liter for all samples from each month (Table 5) it was possible to determine seasonal abundance of each species in the Locust Point vicinity. A change in these values is expected after the plant is in operation and dispensing heat to the environment.

TABLE 2  
ZOOPLANKTON SPECIES FOUND AT LOCUST POINT, 1973

| ZOOPLANKTON SPECIES           | 5-25<br>1973 | 6-27<br>1973 | 7-25<br>1973 | 8-23<br>1973 | 9-26<br>1973 | 11-6<br>1973 | 12-4<br>1973 |  |  |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|--|
| ROTIFERA                      |              |              |              |              |              |              |              |  |  |
| <i>Asplanchna giroidi</i>     |              |              |              | x            |              |              |              |  |  |
| <i>A. priodonta</i>           | x            | x            | x            | x            | x            | x            | x            |  |  |
| <i>Brachionus oregonensis</i> | x            | x            | x            | x            | x            | x            | x            |  |  |
| <i>B. calyciflorus</i>        | x            | x            | x            | x            |              | x            | x            |  |  |
| <i>B. havanaensis</i>         |              | x            | x            | x            | x            |              |              |  |  |
| <i>B. (Platias) patulus</i>   |              |              |              | x            | x            |              |              |  |  |
| <i>B. quadridentatus</i>      |              | x            |              |              | x            |              |              |  |  |
| <i>Chromocaster ovalis</i>    |              |              |              |              | x            |              |              |  |  |
| <i>Filinia terminalis</i>     | x            | x            | x            | x            |              |              | x            |  |  |
| <i>Kellicottia longispina</i> | x            | x            | x            |              |              | x            | x            |  |  |
| <i>Keratella cochlearis</i>   | x            | x            | x            | x            | x            | x            | x            |  |  |
| <i>K. quadrata</i>            | x            | x            |              |              | x            | x            | x            |  |  |
| <i>Lecane luna</i>            |              | x            | x            | x            | x            |              |              |  |  |
| <i>L. lunaris</i>             |              | x            |              |              |              |              |              |  |  |
| <i>Lepadella patella</i>      | x            |              |              |              |              |              |              |  |  |
| <i>Mytilina</i> sp.           |              |              |              |              |              | x            |              |  |  |
| <i>Notholca squamula</i>      |              |              |              | x            |              |              |              |  |  |
| <i>Pleosoma</i> sp.           |              |              |              |              | x            | x            | x            |  |  |
| <i>Polyarthra</i> sp.         | x            | x            | x            | x            | x            | x            | x            |  |  |
| <i>Trichocerca cylindrica</i> |              |              | x            | x            | x            | x            |              |  |  |
| <i>T. multiseriis</i>         | x            |              |              | x            | x            | x            |              |  |  |
| Unidentifiable Rotifer        |              |              |              |              | x            | x            | x            |  |  |
| <i>Conochiloides</i> sp.      |              |              | x            | x            | x            |              |              |  |  |
| COPEPODA                      |              |              |              |              |              |              |              |  |  |
| Calanoid copepods             |              |              |              |              |              |              |              |  |  |
| <i>Diaptomus</i> sp.          | x            | x            | x            | x            | x            | x            | x            |  |  |
| <i>Eurytemora</i> sp.         | x            |              |              |              |              |              |              |  |  |
| Immatures                     | x            | x            | x            | x            | x            |              |              |  |  |
| Cyclopoid copepods            |              |              |              |              |              |              |              |  |  |
| <i>Cyclops</i> sp.            | x            | x            | x            | x            | x            | x            |              |  |  |
| <i>Mesocyclops</i> sp.        | x            |              | x            | x            | x            | x            |              |  |  |
| Immatures                     | x            | x            | x            | x            | x            | x            | x            |  |  |
| Nauplius                      | x            | x            | x            | x            | x            | x            | x            |  |  |
| CLADOCERA                     |              |              |              |              |              |              |              |  |  |
| <i>Bosmina</i> sp.            | x            | x            | x            | x            | x            | x            | x            |  |  |
| <i>Ceriodaphnia</i> sp.       |              |              | x            | x            | x            |              |              |  |  |
| <i>Chydorus</i> sp.           | x            |              |              | x            | x            | x            | x            |  |  |
| <i>Daphnia galeata</i>        |              |              | x            | x            | x            |              |              |  |  |
| <i>D. pulex</i>               |              | x            | x            |              | x            |              |              |  |  |
| <i>D. retrocurva</i>          | x            | x            | x            | x            | x            | x            |              |  |  |
| <i>Diaphanosoma</i> sp.       |              |              |              |              | x            |              |              |  |  |
| <i>Holopedium gibberum</i>    |              |              | x            | x            | x            |              |              |  |  |
| <i>Leptodora kindtii</i>      | x            |              | x            | x            | x            |              |              |  |  |

TABLE 3  
MEAN ZOOPLANKTON SPECIES DIVERSITY:  
Vertical Tow and 3-liter Grab

| Date    | Mean No. of Species<br>Found in Vertical Tow | Mean No. of Species<br>Found in 3-l Grab |
|---------|----------------------------------------------|------------------------------------------|
| 5-25-73 | 16.3                                         | 12.6                                     |
| 6-27-73 | 12.3                                         | 8.3                                      |
| 7-25-73 | 15.2                                         | 9.7                                      |
| 8-23-73 | 16.1                                         | 10.1                                     |
| 9-26-73 | 18.0                                         | no sample taken                          |
| 11-6-73 | 12.1                                         | no sample taken                          |
| 12-4-73 | 10.7                                         | no sample taken                          |

TABLE 4  
FREQUENCY OF OCCURRENCE (%) OF ZOOPLANKTERS, 1973

| ZOOPLANKTON SPECIES           | 5-25  | 6-27  | 7-25  | 8-23  | 9-26  | 11-6  | 12-4  |  | Total |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|--|-------|
| ROTIFERA                      |       |       |       |       |       |       |       |  |       |
| <i>Asplanchna giroldi</i>     |       |       |       | 8.3   |       |       |       |  | 1.4   |
| <i>A. priodonta</i>           | 85.7  | 11.1  | 90.0  | 91.7  | 50.0  | 70.0  | 90.0  |  | 70.0  |
| <i>Brachionus angularis</i>   | 85.7  | 88.9  | 90.0  | 100.0 | 100.0 | 20.0  | 10.0  |  | 71.4  |
| <i>B. calyciflorus</i>        | 100.0 | 11.1  | 10.0  | 41.7  |       | 80.0  | 100.0 |  | 45.7  |
| <i>B. havanaensis</i>         |       | 11.1  | 30.0  | 75.0  | 100.0 |       |       |  | 35.7  |
| <i>B. (Plautias) patulus</i>  |       |       |       | 8.3   | 25.0  |       |       |  | 5.7   |
| <i>B. quadridentatus</i>      |       | 11.1  |       |       | 8.3   |       |       |  | 5.8   |
| <i>Chromogaster ovalis</i>    |       |       |       |       | 8.3   |       |       |  | 1.4   |
| <i>Filinia terminalis</i>     | 100.0 | 44.4  | 30.0  | 91.7  |       |       | 10.0  |  | 37.1  |
| <i>Kellicottia longispina</i> | 100.0 | 11.1  | 10.0  |       |       | 10.0  | 90.0  |  | 27.1  |
| <i>Keratella cochlearis</i>   | 100.0 | 88.9  | 90.0  | 100.0 | 100.0 | 100.0 | 100.0 |  | 97.1  |
| <i>K. quadrata</i>            | 100.0 | 22.2  |       |       | 8.3   | 100.0 | 100.0 |  | 42.9  |
| <i>Lecane luna</i>            |       |       | 10.0  |       | 16.7  |       |       |  | 4.3   |
| <i>L. lunaris</i>             |       | 11.1  |       |       |       |       |       |  | 1.4   |
| <i>Lepadella patella</i>      | 14.3  |       |       |       |       |       |       |  | 1.4   |
| <i>Mytilina</i> sp.           |       |       |       |       |       | 10.0  |       |  | 1.4   |
| <i>Notholca squamula</i>      |       |       |       | 8.3   |       |       |       |  | 1.4   |
| <i>Plecsoma</i> sp.           |       |       |       |       | 25.0  | 10.0  | 10.0  |  | 7.1   |
| <i>Polycartha</i> sp.         | 100.0 | 100.0 | 100.0 | 91.7  | 100.0 | 100.0 | 100.0 |  | 98.6  |
| <i>Trichocerca cylindrica</i> |       |       | 20.0  | 58.3  | 91.7  | 10.0  |       |  | 30.0  |
| <i>T. multiseriis</i>         |       |       |       | 75.0  | 100.0 | 50.0  |       |  | 37.1  |
| Unidentifiable Rotifer        |       |       |       |       | 100.0 | 90.0  | 100.0 |  | 44.3  |
| <i>Conochiloides</i> sp.      |       |       | 90.0  | 8.3   | 33.3  |       |       |  | 20.0  |
| COPEPODA                      |       |       |       |       |       |       |       |  |       |
| Calanoid copepods             |       |       |       |       |       |       |       |  |       |
| <i>Diaptomus</i> sp.          | 57.1  | 100.0 | 90.0  | 75.0  | 91.7  | 20.0  | 10.0  |  | 64.3  |
| <i>Eurytemora</i> sp.         | 28.6  |       |       |       |       |       |       |  | 2.8   |
| Immatures                     | 71.4  | 55.6  | 90.0  | 75.0  | 41.7  |       |       |  | 47.1  |
| Cyclopoid copepods            |       |       |       |       |       |       |       |  |       |
| <i>Cyclops</i> sp.            | 100.0 | 100.0 | 100.0 | 83.3  | 100.0 | 70.0  |       |  | 75.7  |
| <i>Mesocyclops</i> sp.        |       |       | 50.0  | 25.0  | 33.3  | 30.0  |       |  | 21.4  |
| Immatures                     | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |  | 100.0 |
| Nauplius                      | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |  | 100.0 |
| CLADOCERA                     |       |       |       |       |       |       |       |  |       |
| <i>Bosmina</i> sp.            | 100.0 | 100.0 | 100.0 | 91.7  | 100.0 | 100.0 | 100.0 |  | 98.6  |
| <i>Ceriodaphnia</i> sp.       |       |       | 10.0  | 8.3   | 33.3  |       |       |  | 8.6   |
| <i>Chydorus</i> sp.           |       |       |       | 25.0  | 100.0 | 100.0 | 50.0  |  | 42.9  |
| <i>Daphnia galeata</i>        |       | 22.2  | 60.0  | 41.7  | 41.7  |       |       |  | 25.7  |
| <i>D. pulex</i>               |       | 44.4  | 20.0  |       |       |       |       |  | 8.6   |
| <i>D. retrocurva</i>          | 85.7  | 100.0 | 90.0  | 100.0 | 91.7  | 30.0  |       |  | 71.4  |
| <i>Dianhancsoma</i> sp.       |       |       |       |       | 16.7  |       |       |  | 2.8   |
| <i>Holopedium gibberum</i>    |       |       | 40.0  | 50.0  | 58.3  |       |       |  | 24.3  |
| <i>Leptodora kindtii</i>      | 28.6  |       | 20.0  | 66.7  | 25.0  |       |       |  | 21.4  |

Note: Values represent percent of monthly samples containing individual taxa.

FIGURE 5  
MONTHLY ROTIFER POPULATIONS  
AT LOCUST POINT, 1973

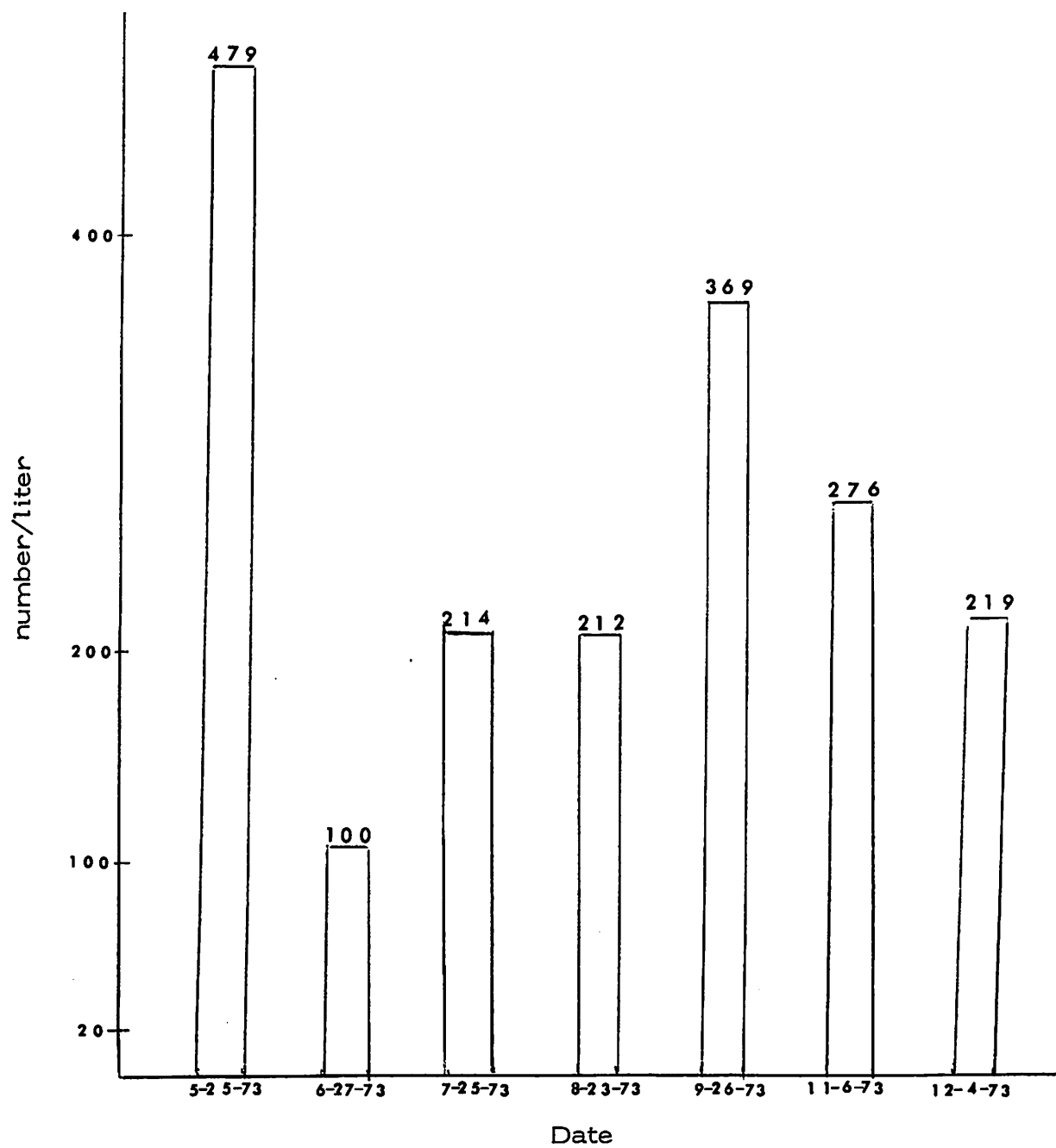
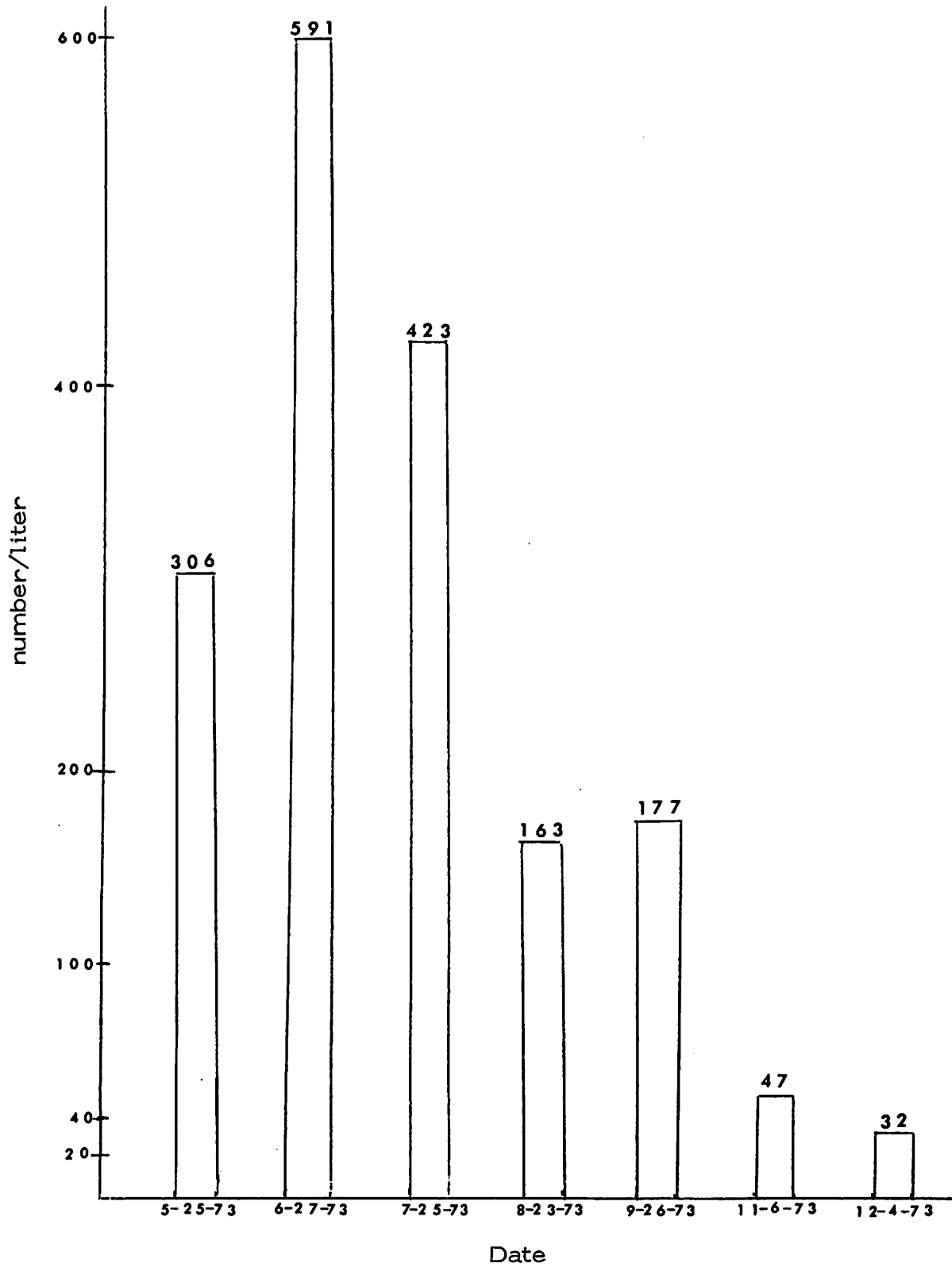


FIGURE 6

MONTHLY COPEPOD POPULATIONS  
AT LOCUST POINT, 1973

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FIGURE 7

MONTHLY CLADOCERAN POPULATIONS  
AT LOCUST POINT, 1973

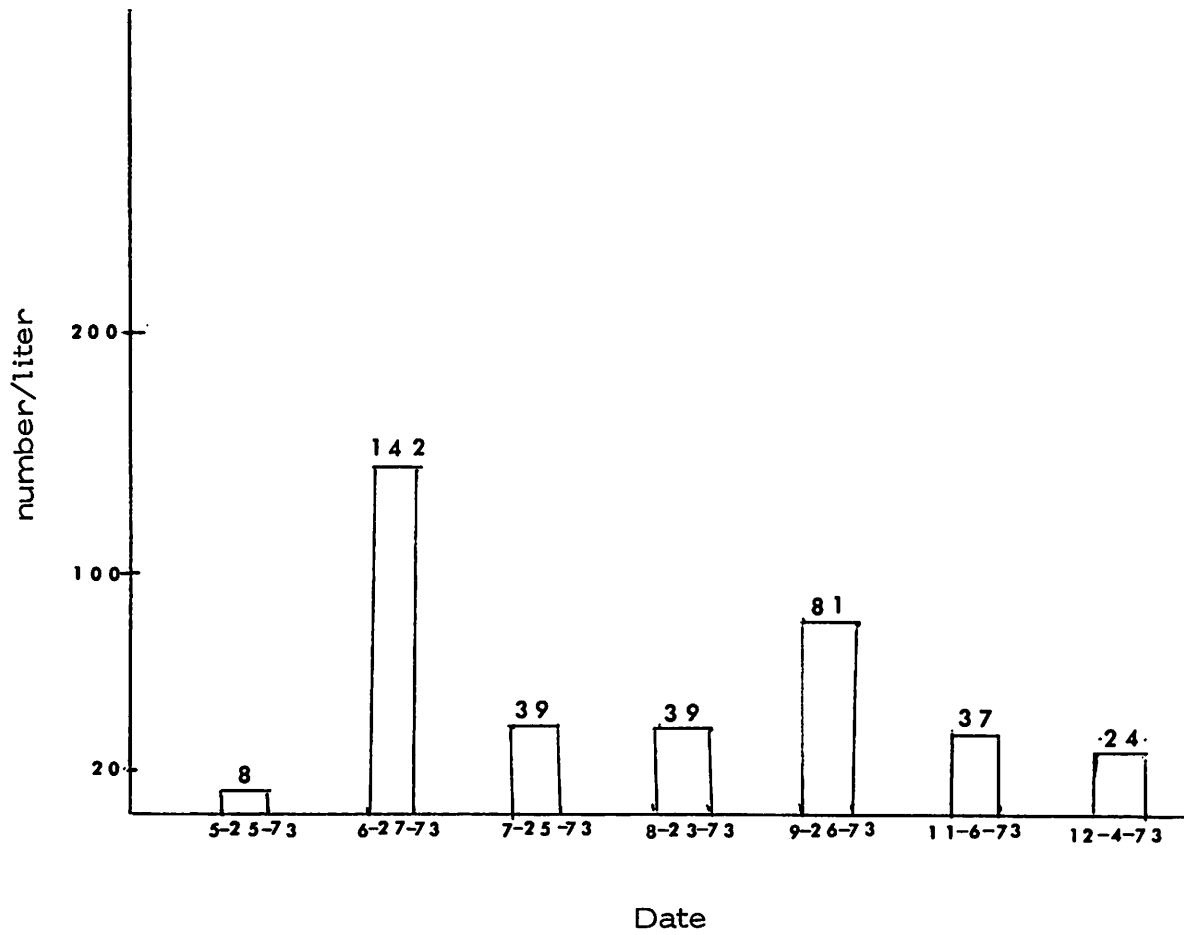


FIGURE 8

MEAN SEASONAL ABUNDANCE OF ZOOPLANKTON  
AT LOCUST POINT, 1972 and 1973

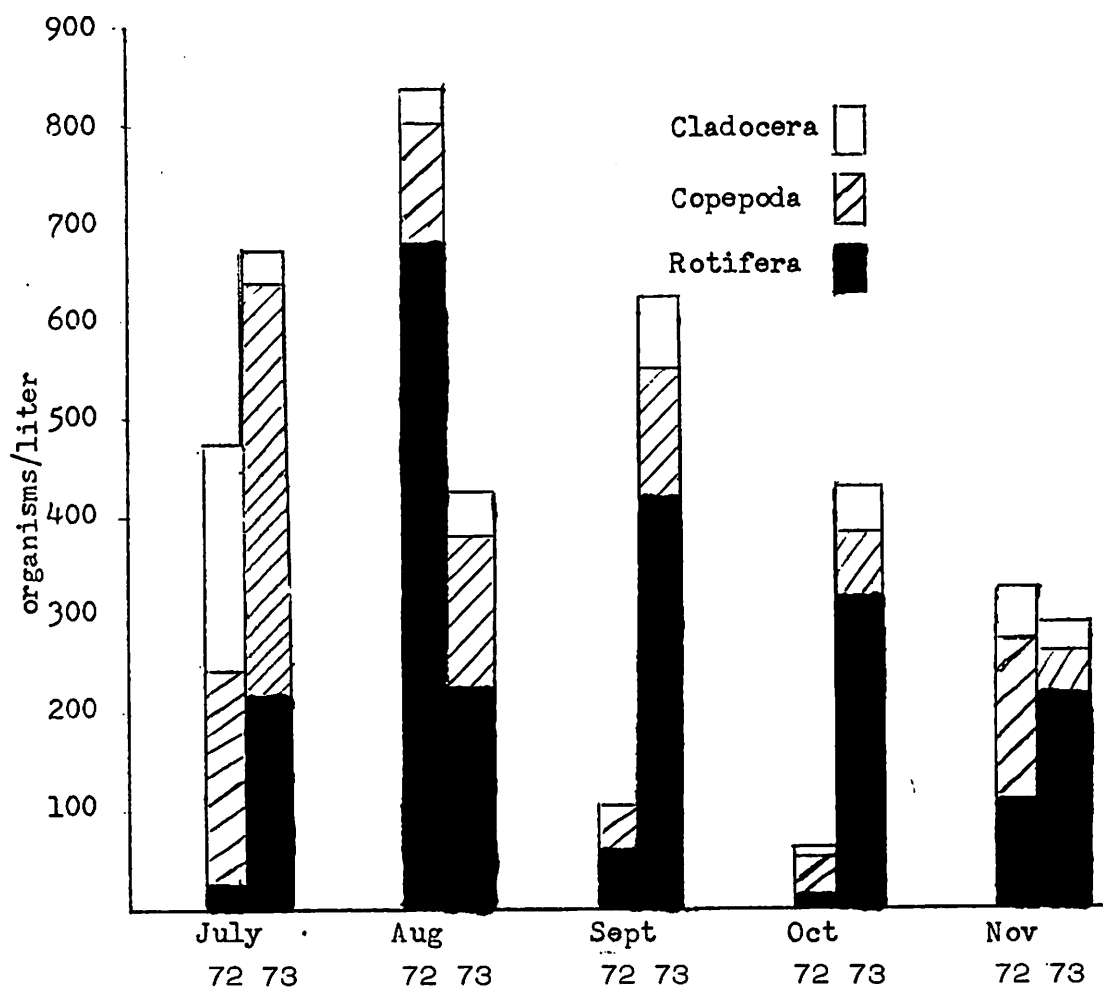


TABLE 5  
MEAN NUMBER OF ZOOPLANKTERS PER STATION SAMPLED

| ZOOPLANKTON SPECIES           | 5-25<br>1973 | 6-27<br>1973 | 7-25<br>1973 | 8-23<br>1973 | 9-26<br>1973 | 11-6<br>1973 | 12-4<br>1973 |  |  |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|--|
| ROTIFERA                      |              |              |              |              |              |              |              |  |  |
| <i>Asplanchna giroidi</i>     |              |              |              | .1           |              |              |              |  |  |
| <i>A. priodonta</i>           | 12.5         | .1           | 5.7          | 20.0         | 3.2          | 1.6          | 4.9          |  |  |
| <i>Brachionus angularis</i>   | 8.9          | 6.5          | 3.6          | 28.6         | 32.6         | .1           | .3           |  |  |
| <i>B. calyciflorus</i>        | 19.0         | .2           | .1           | .5           |              | 2.4          | 19.8         |  |  |
| <i>B. havanaensis</i>         |              | .3           | 4.3          | 6.9          | 11.8         |              |              |  |  |
| <i>B. (Plautias) patulus</i>  |              |              |              |              | .1           |              |              |  |  |
| <i>B. quadridentatus</i>      |              | .2           |              |              | .1           |              |              |  |  |
| <i>Chromogaster ovalis</i>    |              |              |              |              | .3           |              |              |  |  |
| <i>Filinia terminalis</i>     | 37.3         | 5.8          | .6           | 4.4          |              |              | .2           |  |  |
| <i>Kellicottia longispina</i> | 5.0          | .4           | .1           |              |              | .1           | 3.0          |  |  |
| <i>Keratella cochlearis</i>   | 169.6        | 6.0          | 20.4         | 15.5         | 44.0         | 145.8        | 101.6        |  |  |
| <i>K. quadrata</i>            | 179.7        | .2           |              |              |              | 13.2         | 14.2         |  |  |
| <i>Lecane luna</i>            |              |              |              |              | .1           |              |              |  |  |
| <i>L. lunaris</i>             |              | .1           |              |              |              |              |              |  |  |
| <i>Lepadella patella</i>      | .4           |              |              |              |              |              |              |  |  |
| <i>Mytilina</i> sp.           |              |              |              |              |              | .2           |              |  |  |
| <i>Notholca squamula</i>      |              |              |              | .1           |              |              |              |  |  |
| <i>Pleosoma</i> sp.           |              |              |              |              | .3           | .2           | .2           |  |  |
| <i>Polyarthra</i> sp.         | 46.5         | 84.7         | 181.5        | 127.3        | 161.4        | 88.8         | 59.2         |  |  |
| <i>Trichocerca cylindrica</i> |              |              | .3           | 5.0          | 4.6          | .1           |              |  |  |
| <i>T. multicornis</i>         |              |              |              | 3.2          | 23.1         | 1.0          |              |  |  |
| Unidentifiable Rotifer        |              |              |              |              | 32.7         | 13.1         | 19.7         |  |  |
| <i>Conochiloides</i> sp.      |              |              | 5.2          | .1           | 2.5          |              |              |  |  |
| COPEPODA                      |              |              |              |              |              |              |              |  |  |
| Calanoid copepods             |              |              |              |              |              |              |              |  |  |
| <i>Diaptomus</i> sp.          | 4.4          | 29.8         | 14.8         | 4.0          | 2.1          | .9           | .2           |  |  |
| <i>Eurytemora</i> sp.         | .4           |              |              |              |              |              |              |  |  |
| Immatures                     | 2.1          | 2.4          | 3.2          | 3.2          | .5           |              |              |  |  |
| Cyclopoid copepods            |              |              |              |              |              |              |              |  |  |
| <i>Cyclops</i> sp.            | 21.1         | 219.7        | 147.5        | 22.4         | 17.3         | 2.1          |              |  |  |
| <i>Mesocyclops</i> sp.        |              |              | .4           | .3           | .7           | .3           |              |  |  |
| Immatures                     | 34.9         | 33.7         | 24.4         | 19.8         | 15.8         | 7.8          | 5.9          |  |  |
| Nauplius                      | 242.0        | 300.5        | 232.5        | 112.7        | 131.1        | 35.1         | 26.2         |  |  |
| CLADOCERA                     |              |              |              |              |              |              |              |  |  |
| <i>Bosmina</i> sp.            | 3.5          | 36.3         | 10.9         | 21.4         | 45.2         | 28.9         | 24.5         |  |  |
| <i>Ceriodaphnia</i> sp.       |              |              |              | .2           | .5           |              |              |  |  |
| <i>Chydorus</i> sp.           |              |              |              |              | 9.5          | 7.7          | .7           |  |  |
| <i>Daphnia galeata</i>        |              | .2           | 1.3          | .4           | 3.5          |              |              |  |  |
| <i>D. pulex</i>               |              | .6           | .3           |              |              |              |              |  |  |
| <i>D. retrocurva</i>          | 3.4          | 94.7         | 25.3         | 14.4         | 17.2         | .4           |              |  |  |
| <i>Diaphanosoma</i> sp.       |              |              |              |              | .3           |              |              |  |  |
| <i>Holopedium gibberum</i>    |              |              | .3           | .7           | .4           |              |              |  |  |
| <i>Leptodora kindtii</i>      | .6           |              | .1           | 1.3          | .3           |              |              |  |  |

Note: Reported as no./liter.

The total zooplankton population per liter from each station each month declined at all stations on the December 4 sampling date (Table 6). There also appeared to be a greater population closer to shore in shallower water. This was probably due to the population concentrating near the surface, and, therefore, diluting this population with the relatively barren bottom waters offshore.

Phytoplankton populations were observed qualitatively. Only the most common taxa were recorded. Nine taxa, Aphanizomenon sp., Pediastrum sp., Ulothrix sp., Volvox sp., Asterionella sp., Fragilaria sp., Melosira sp., Tabellaria sp., and Ceratium sp., became abundant between May 25 and December 4, 1973 (Appendix C). The population structure proceeded from a population dominated by Chlorophyceans (green algae) and Bacillariophyceans (diatoms) in the spring, to a Chlorophycean population, to a Chlorophycean Myxophycean (blue-green algae) population in the summer, and back to a Bacillariophycean population by December.

### Fish

Since 1963, collection records of commercial fishermen have shown 38 species to be present at Locust Point (Table 7). During the 1973 field season we collected 5300 fish of 28 species by trawling, gill netting, and shore seining. An additional 23 fish of 8 species were captured in the adjacent marshes with a cast net (Table 8).

The most numerous species captured in the trawl were Aplodinotus grunniens (250), Perca flavescens (170), Ictalurus punctatus (143), and Notropis hudsonius (117) (Table 9). When ranked by biomass present rather than population size, this order changed to Cyprinus carpio (8081 g), Perca flavescens (7802 g), Ictalurus punctatus (6920 g), and Aplodinotus grunniens (4540 g).

The most numerous species captured in the gill nets were Dorosoma cepedianum (852), Perca flavescens (812), Alosa pseudoharengus (495), and Aplodinotus grunniens (182) (Table 10). When ranked by biomass present rather than population size, this order changed to Perca flavescens (70,555 g), Dorosoma cepedianum (49,202 g), Cyprinus carpio (31,877 g), and Aplodinotus grunniens (21,886 g).

The most numerous species captured in the shore seine were Notropis a. atherinoides (1124), Alosa pseudoharengus (237), Notropis hudsonius (129), and Morone chrysops (127) (Table 11). When ranked by biomass present rather than population size, this order changed to Cyprinus carpio (3751 g), Notropis a. atherinoides (3709 g), Dorosoma cepedianum (1462 g), and Notropis hudsonius (997 g).

TABLE 6

## TOTAL ZOOPLANKTON POPULATIONS PER LITER

| STATION | DATE    |         |         |         |         |         |         |
|---------|---------|---------|---------|---------|---------|---------|---------|
|         | 5-25-73 | 6-27-73 | 7-25-73 | 8-23-73 | 9-26-73 | 11-6-73 | 12-4-73 |
| 1       | 768.1   | 977.5   | 1,429.0 | 689.4   | 1,373.5 | 485.7   | 424.4   |
| 3       | 443.2   | 916.7   | 547.6   | 380.0   | 742.1   | 247.6   | 280.1   |
| 5       | 1,090.9 | 1,354.2 | 573.9   | 413.5   | 711.8   | 368.5   | 307.1   |
| 7       | 662.1   | 581.8   | 621.2   | 217.5   | 514.5   | 300.8   | 240.5   |
| 8       |         |         |         | 195.2   | 563.5   |         |         |
| 9       |         |         | 563.0   | 335.4   | 410.7   | 246.7   | 248.4   |
| 10      | 845.4   | 1,133.0 | 878.0   | 686.5   | 594.0   | 902.7   | 555.7   |
| 12      |         |         |         | 499.9   | 408.3   |         |         |
| 13      | 852.4   | 620.6   | 533.1   | 266.2   | 522.0   | 366.1   | 169.5   |
| 17      |         |         | 586.9   | 288.7   | 438.6   | 287.2   | 294.7   |
| 18      | 878.0   | 829.7   |         |         |         |         |         |
| 19      |         | 512.8   | 599.0   | 597.9   | 183.5   | 114.0   | 179.0   |
| 20      |         | 475.6   | 373.0   | 362.5   | 270.1   | 179.1   | 106.2   |

TABLE 7

SPECIES FOUND IN THE LOCUST POINT AREA  
1963 - 1973

## Amiidae

Amia calva

bowfin

## Catostomidae

Carpionodes cyprinus

quillback carpsucker

\* Catostomus c. commersoni

common white sucker

Minytrema melanops

spotted sucker

Moxostoma erythrurum

golden redhorse

Ictiobus cyprinellus

bigmouth buffalo fish

## Centrarchidae

Ambloplites rupestris

northern rockbass

\* Lepomis cyanellus

green sunfish

\* L. humilis

orangespotted sunfish

\* L. microlophus

redeer sunfish

\* Micropterus d. dolomieu

smallmouth bass

\* M. s. salmoides

largemouth bass

\* Pomoxis annularis

white crappie

\* P. nigromaculatus

black crappie

## Clupeidae

\* Alosa pseudoharengus

alewife

\* Dorosoma cepedianum

gizzard shad

## Cyprinidae

\* Carassius auratus

goldfish

\* C. auratus x Cyprinus carpio

Carp x goldfish hybrid

\* Cyprinus carpio

carp

\* Hybopsis storeriana

silver chub

\* Notropis a. atherinoides

emerald shiner

\* N. hudsonius

spottail shiner

\* N. spilopterus

spotfin shiner

\* N. v. volucellus

northern mimic shiner

## Esocidae

Esox lucius

northern pike

## TABLE 7 CONT.

SPECIES FOUND IN THE LOCUST POINT AREA  
1963 - 1973

## Ictaluridae

\* Ictalurus natalis

yellow bullhead

\* I. nebulosus

brown bullhead

\* I. punctatus

channel catfish

Noturus flavus

stonecat madtom

## Lepisosteidae

Lepisosteus osseus

longnose gar

## Osmeridae

\* Osmerus eperlanus mordax

American smelt

## Percidae

\* Perca flavescens

yellow perch

\* Percina caprodes

logperch darter

\* Stizostedion v. vetreum

walleye

## Percichthyidae

\* Morone chrysops

white bass

## Percopsidae

\* Percopsis omiscomaycus

troutperch

## Salmonidae

Oncorhynchus kisutch

coho salmon

## Sciaenidae

\* Aplodinotus grunniens

freshwater drum

\* Species found in 1973

TABLE 8  
ANALYSIS OF FISH CAPTURED IN MARSH  
AT LOCUST POINT, 1973

| Species                        | No. | Length (cm) |         | Total<br>Wt (g) |
|--------------------------------|-----|-------------|---------|-----------------|
|                                |     | Mean        | Range   |                 |
| <u>Cyprinus carpio</u>         | 1   | 133         |         | 40              |
| <u>Dorosoma cepedianum</u>     | 9   | 125         | 111-132 | 212             |
| <u>Ictalurus nebulosus</u>     | 1   | 60          |         | 4               |
| <u>Lepomis cyanellus</u>       | 1   | 70          |         | 7               |
| <u>L. microlophus</u>          | 8   | 69          | 47-86   | 50              |
| <u>Micropterus d. dolomieu</u> | 1   | 52          |         | 3               |
| <u>M. s. salmoides</u>         | 1   | 294         |         | 440             |
| <u>Pomoxis annularis</u>       | 1   | 74          |         | 6               |
| TOTAL                          | 23  |             |         | 762             |

Notes:

1. Method of capture: Cast net (8 ft diameter, 3/8 in. mesh)
2. Date of capture: 10-3-73

TABLE 9  
LOCUST POINT TRAWLING SUMMARY, 1973

| Species                         | No. | Length (mm) |         | Total<br>Wt (g) |
|---------------------------------|-----|-------------|---------|-----------------|
|                                 |     | Mean        | Range   |                 |
| <u>Alosa pseudoharengus</u>     | 21  | 111         | 97-123  | 253             |
| <u>Aplodinotus grunniens</u>    | 250 | 60          | 11-362  | 4540            |
| <u>Carassius auratus</u>        | 10  | 208         | 167-276 | 1826            |
| <u>Catostomus c. commersoni</u> | 1   | 38          |         | 21              |
| <u>Cyprinus carpio</u>          | 25  | 255         | 157-514 | 8081            |
| <u>Dorosoma cepedianum</u>      | 41  | 115         | 63-147  | 609             |
| <u>Ictalurus nebulosus</u>      | 19  | 187         | 130-254 | 1519            |
| <u>I. punctatus</u>             | 143 | 165         | 17-275  | 6920            |
| <u>Morone chrysops</u>          | 74  | 66          | 16-155  | 314             |
| <u>Notropis a. atherinoides</u> | 21  | 88          | 25-108  | 112             |
| <u>N. hudsonius</u>             | 117 | 101         | 33-150  | 1272            |
| <u>Osmerus eperlanus mordax</u> | 93  | 34          | 21-160  | 48              |
| <u>Perca flavescens</u>         | 170 | 145         | 15-220  | 7802            |
| <u>Percina caprodes</u>         | 2   | 61          | 57-64   | 2               |
| <u>Percopsis omiscomaycus</u>   | 3   | 81          | 75-87   | 14              |
| <u>Pomoxis annularis</u>        | 1   | 148         |         | 40              |
| <u>P. nigromaculatus</u>        | 3   | 100         | 36-137  | 60              |
| <u>Stizostedion v. vitreum</u>  | 2   | 48          | 41-55   | -               |
| TOTAL                           | 996 |             |         | 33469           |

TABLE 10

## LOCUST POINT GILL NETTING SUMMARY, 1973

| Species                                     | No.  | Length (mm) |         | Total wt. (g) |
|---------------------------------------------|------|-------------|---------|---------------|
|                                             |      | Mean        | Range   |               |
| <u>Alosa pseudoharengus</u>                 | 187* | 113         | 98-195  | 1,825         |
| <u>Aplodinotus grunniens</u>                | 182  | 204         | 85-355  | 21,886        |
| <u>Carassius auratus</u>                    | 11   | 229         | 145-305 | 2,448         |
| <u>Catostomus c. commersoni</u>             | 2    | 406         | 326-486 | 1,621         |
| <u>Cyprinus carpio</u>                      | 64   | 318         | 160-476 | 31,877        |
| <u>C. carpio</u> x <u>Carassius auratus</u> | 19   | 309         | 169-383 | 8,575         |
| <u>Dorosoma cepedianum</u>                  | 580* | 152         | 75-388  | 49,202        |
| <u>Hybopsis storeriana</u>                  | 2    | 167         | 166-168 | 90            |
| <u>Ictalurus natalis</u>                    | 1    | 173         |         | 76            |
| <u>I. nebulosus</u>                         | 3    | 194         | 176-213 | 283           |
| <u>I. punctatus</u>                         | 15   | 224         | 137-360 | 2,472         |
| <u>Morone chrysops</u>                      | 18   | 110         | 81-262  | 711           |
| <u>Notropis a. atherinoides</u>             | 26   | 111         | 98-128  | 353           |
| <u>N. hudsonius</u>                         | 90   | 116         | 100-134 | 1,393         |
| <u>Osmerus eperlanus mordax</u>             | 1    | 159         |         | 21            |
| <u>Perca flavescens</u>                     | 812  | 198         | 104-262 | 70,555        |
| <u>Pomoxis annularis</u>                    | 2    | 160         | 156-164 | 96            |
| <u>Stizostedion v. vitreum</u>              | 1    | 346         |         | 496           |
| TOTAL                                       | 2596 |             |         | 193,880       |

\* Does not include young-of-the-year

Alosa pseudoharengus - 308

Dorosoma cepedianum - 272

TABLE 11  
LOCUST POINT SHORE SEINING SUMMARY, 1973

| Species                         | No.  | Length (mm) |         | Total<br>Wt (g) |
|---------------------------------|------|-------------|---------|-----------------|
|                                 |      | Mean        | Range   |                 |
| <u>Alosa pseudoharengus</u>     | 237  | 55          | 36-172  | 440             |
| <u>Aplodinotus grunniens</u>    | 1    | 297         |         | 357             |
| <u>Cyprinus carpio</u>          | 3    | 423         | 296-495 | 3751            |
| <u>Dorosoma cepedianum</u>      | 78   | 102         | 60-183  | 1462            |
| <u>Lepomis humilis</u>          | 1    | 76          |         | 10              |
| <u>Morone chrysops</u>          | 127  | 64          | 37-143  | 385             |
| <u>Notropis a. atherinoides</u> | 1124 | 72          | 39-122  | 3709            |
| <u>N. hudsonius</u>             | 129  | 110         | 73-127  | 997             |
| <u>N. v. volucellus</u>         | 1    | 60          |         | 2               |
| <u>Pomoxis annularis</u>        | 8    | 123         | 93-165  | 213             |
| <u>P. nigromaculatus</u>        | 6    | 110         | 84-173  | 139             |
| TOTAL                           | 1715 |             |         | 11465           |

Sampling dates:

6-14-73

8-1-73

10-3-73

11-12-73

Overall, the most numerous species were Notropis a. atherinoides (1171), Perca flavescens (982), Dorosoma cepedianum (971), Alosa pseudoharengus (753), and Aplodinotus grunniens (433). When ranked by biomass present rather than population size this order changed to Perca flavescens (78,357 g), Dorosoma cepedianum (51,273 g), Cyprinus carpio (43,709 g), Aplodinotus grunniens (26,783 g), and Ictalurus punctatus (9,392 g).

Trawling results show certain species to be seasonal residents (Table 12). For example, Aplodinotus grunniens and Ictalurus punctatus both reach their peaks, in terms of numbers captured, in July at 150 and 107, respectively. Other species such as Cyprinus carpio and Perca flavescens maintained relatively stable populations.

The number of fish caught at each of the two gill netting locations was remarkably similar. A total of 1334 fish were captured at Station 12 (proposed discharge) while 1262 fish were captured at Station 8 (proposed intake) (Table 13).

Notropis a. atherinoides composed approximately 66% of all fish caught in the shore seine (Table 14). In all cases more fish were captured 2500 ft west of the intake pipeline. At this time, the reason for this is undetermined, but these results will be compared with other data as it becomes available.

Additional data from the fish captured at Locust Point in 1973 are contained in Appendix D.

### Food Habits

Stomachs from 432 fish of 12 species were examined (Table 15). The stomach contents were placed in 34 taxa (Table 16). More stomachs from Perca flavescens were examined than from any other species due to their abundance and the fact that the number of full stomachs never exceeded 21.2% of the total number examined each month.

As expected, fish were a more common food item in larger specimens. Surprisingly, large Ictalurus punctatus ate more cladocerans and copepods than smaller individuals. One would have expected larger fish to eat the larger food items.

From Table 16 it is possible to determine the feeding location within the water column of each species. For example, cladocerans and copepods are generally midwater or surface dwellers (not sediment dwellers) while the Diptera cited here are generally sediment dwellers.

TABLE 12  
TOTAL TRAWLING CATCH AT LOCUST POINT - 1973

| FISH SPECIES                    | 6-29 | 7-17 | 8-24 | 9-27 | 11-5 | Total |  |  |  |
|---------------------------------|------|------|------|------|------|-------|--|--|--|
| Amiidae                         |      |      |      |      |      |       |  |  |  |
| <i>Amia calva</i>               |      |      |      |      |      |       |  |  |  |
| Catostomidae                    |      |      |      |      |      |       |  |  |  |
| <i>Carpionodes cuprinus</i>     |      |      |      |      |      |       |  |  |  |
| <i>Catostomus c. commersoni</i> |      | 1    |      |      |      | 1     |  |  |  |
| <i>Minytrema melanops</i>       |      |      |      |      |      |       |  |  |  |
| <i>Moxostoma erythrum</i>       |      |      |      |      |      |       |  |  |  |
| <i>Ictiobus cyprinellus</i>     |      |      |      |      |      |       |  |  |  |
| Centrarchidae                   |      |      |      |      |      |       |  |  |  |
| <i>Ambloplites rupestris</i>    |      |      |      |      |      |       |  |  |  |
| <i>Lepomis cyanellus</i>        |      |      |      |      |      |       |  |  |  |
| <i>Lepomis humilis</i>          |      |      |      |      |      |       |  |  |  |
| <i>Micropterus d. dolomieu</i>  |      |      |      |      |      |       |  |  |  |
| <i>Micropterus s. salmoides</i> |      |      |      |      |      |       |  |  |  |
| <i>Pomoxis annularis</i>        |      |      | 1    |      |      | 1     |  |  |  |
| <i>Pomoxis nigromaculatus</i>   |      |      | 2    | 1    |      | 3     |  |  |  |
| Clupeidae                       |      |      |      |      |      |       |  |  |  |
| <i>Alosa pseudoharengus</i>     |      |      |      | 21   |      | 21    |  |  |  |
| <i>Dorosoma cepedianum</i>      |      |      | 10   | 28   | 3    | 41    |  |  |  |
| Cyprinidae                      |      |      |      |      |      |       |  |  |  |
| <i>Carassius auratus</i>        | 2    | 3    |      |      | 2    | 7     |  |  |  |
| <i>Cyprinus carpio</i>          | 7    | 10   | 2    | 4    | 5    | 28    |  |  |  |
| <i>Hybopsis storeriana</i>      |      |      |      |      |      |       |  |  |  |
| <i>Notropis a. atherinoides</i> | 12   | 3    | 3    | 1    | 2    | 21    |  |  |  |
| <i>N. hudsonius</i>             | 8    | 6    | 20   | 45   | 38   | 117   |  |  |  |
| <i>N. spilopterus</i>           |      |      |      |      |      |       |  |  |  |
| Esocidae                        |      |      |      |      |      |       |  |  |  |
| <i>Esox lucius</i>              |      |      |      |      |      |       |  |  |  |
| Ictaluridae                     |      |      |      |      |      |       |  |  |  |
| <i>Ictalurus nebulosus</i>      | 10   | 8    | 1    |      |      | 17    |  |  |  |
| <i>I. punctatus</i>             | 12   | 107  | 3    | 9    | 12   | 143   |  |  |  |
| <i>Noturus flavus</i>           |      |      |      |      |      |       |  |  |  |
| Lepisosteidae                   |      |      |      |      |      |       |  |  |  |
| <i>Lepisosteus osseus</i>       |      |      |      |      |      |       |  |  |  |
| Osmeridae                       |      |      |      |      |      |       |  |  |  |
| <i>Osmerus eperlanus mordax</i> | 69   | 22   | 2    |      |      | 93    |  |  |  |

TABLE 12 CONT.  
TOTAL TRAWLING CATCH AT LOCUST POINT - 1973

| FISH SPECIES                   | 6-29 | 7-17 | 8-24 | 9-27 | 11-5 | Total |  |  |  |
|--------------------------------|------|------|------|------|------|-------|--|--|--|
| Percidae                       |      |      |      |      |      |       |  |  |  |
| <i>Perca flavescens</i>        | 26   | 21   | 39   | 33   | 51   | 170   |  |  |  |
| <i>Percina caprodes</i>        |      |      |      | 1    | 1    | 2     |  |  |  |
| <i>Stizostedion v. vitreum</i> | 2    |      |      |      |      | 2     |  |  |  |
| Percopsidae                    |      |      |      |      |      |       |  |  |  |
| <i>Percopsis omiscomaycus</i>  | 1    |      |      | 1    | 1    | 3     |  |  |  |
| Salmonidae                     |      |      |      |      |      |       |  |  |  |
| <i>Oncorhynchus kisutch</i>    |      |      |      |      |      |       |  |  |  |
| Sciaenidae                     |      |      |      |      |      |       |  |  |  |
| <i>Aplodinotus grunniens</i>   | 60   | 150  | 12   | 10   | 18   | 250   |  |  |  |
| Serranidae                     |      |      |      |      |      |       |  |  |  |
| <i>Morone chrysops</i>         | 5    | 5    | 8    | 56   |      | 74    |  |  |  |
| Total                          | 214  | 336  | 103  | 210  | 133  | 994   |  |  |  |

TABLE 13  
TOTAL GILL NETTING CATCH AT LOCUST POINT - 1973

| FISH SPECIES                         | 7-2<br>Sta.<br>12 | 7-2<br>Sta.<br>8 | 8-2<br>Sta.<br>12 | 8-2<br>Sta.<br>8 | 8-30<br>Sta.<br>12 | 8-30<br>Sta.<br>8 | 9-28<br>Sta.<br>12 | 9-28<br>Sta.<br>8 |  |
|--------------------------------------|-------------------|------------------|-------------------|------------------|--------------------|-------------------|--------------------|-------------------|--|
| Amiidae                              |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Amia calva</i>                    |                   |                  |                   |                  |                    |                   |                    |                   |  |
| Catostomidae                         |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Carpionodes cyprinus</i>          |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Catostomus c. commersoni</i>      | 1                 |                  |                   |                  |                    |                   |                    | 1                 |  |
| <i>Minytrema melanops</i>            |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Moxostoma erythrum</i>            |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Ictiobus cyprinellus</i>          |                   |                  |                   |                  |                    |                   |                    |                   |  |
| Centrarchidae                        |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Ambloplites rupestris</i>         |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Lepomis cyanellus</i>             |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Lepomis humilis</i>               |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Micropterus d. dolomieu</i>       |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Micropterus s. salmoides</i>      |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Pomoxis annularis</i>             |                   |                  |                   |                  |                    |                   |                    | 2                 |  |
| <i>Pomoxis nigromaculatus</i>        |                   |                  |                   |                  |                    |                   |                    |                   |  |
| Clupeidae                            |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Alosa pseudoharengus</i>          |                   |                  |                   |                  |                    |                   | 322                | 172               |  |
| <i>Dorosoma cepedianum</i>           | 30                | 6                | 48                | 38               | 168                | 173               | 155                | 229               |  |
| Cyprinidae                           |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Carassius auratus</i>             | 3                 |                  | 4                 | 1                | 2                  |                   | 1                  |                   |  |
| <i>Cyprinus carpio</i>               | 11                | 3                | 8                 | 9                | 11                 | 5                 | 10                 | 7                 |  |
| <i>Hybopsis storeriana</i>           |                   |                  | 1                 |                  |                    |                   | 1                  |                   |  |
| <i>Notropis a. atherinoides</i>      |                   |                  |                   |                  | 11                 | 14                |                    |                   |  |
| <i>N. hudsonius</i>                  |                   |                  | 3                 | 9                |                    |                   | 32                 | 32                |  |
| <i>N. spilopterus</i>                |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>C. auratus</i> x <i>C. carpio</i> |                   | 2                | 7                 |                  | 5                  | 1                 | 3                  | 1                 |  |
| Esocidae                             |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Esox lucius</i>                   |                   |                  |                   |                  |                    |                   |                    |                   |  |
| Ictaluridae                          |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Ictalurus nebulosus</i>           |                   |                  |                   |                  | 1                  |                   | 1                  | 1                 |  |
| <i>I. punctatus</i>                  | 5                 | 1                | 5                 | 2                | 2                  |                   |                    |                   |  |
| <i>Noturus flavus</i>                |                   |                  |                   |                  |                    |                   |                    |                   |  |
| Yellow Bullhead                      |                   |                  |                   |                  |                    | 1                 |                    |                   |  |
| Lepisosteidae                        |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Lepisosteus osseus</i>            |                   |                  |                   |                  |                    |                   |                    |                   |  |
| Osmeridae                            |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Osmerus eperlanus mordax</i>      |                   |                  |                   | 1                |                    |                   |                    |                   |  |

## Notes:

1. Station 12 is the discharge
2. Station 8 is the intake

TABLE 13 CONT.  
TOTAL GILL NETTING CATCH AT LOCUST POINT - 1973

| FISH SPECIES                   | 7-2<br>Sta.<br>12 | 7-2<br>Sta.<br>8 | 8-2<br>Sta.<br>12 | 8-2<br>Sta.<br>8 | 8-30<br>Sta.<br>12 | 8-30<br>Sta.<br>8 | 9-28<br>Sta.<br>12 | 9-28<br>Sta.<br>8 |  |
|--------------------------------|-------------------|------------------|-------------------|------------------|--------------------|-------------------|--------------------|-------------------|--|
| Percidae                       |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Perca flavescens</i>        | 13                | 21               | 47                | 87               | 160                | 127               | 158                | 198               |  |
| <i>Percina caprodes</i>        |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Stizostedion v. vitreum</i> |                   |                  |                   |                  |                    |                   |                    | 1                 |  |
| Percopsidae                    |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Percopsis omiscomaycus</i>  |                   |                  |                   |                  |                    |                   |                    |                   |  |
| Salmonidae                     |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Oncorhynchus kisutch</i>    |                   |                  |                   |                  |                    |                   |                    |                   |  |
| Sciaenidae                     |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Aplodinotus grunniens</i>   | 50                | 58               | 12                | 18               | 11                 | 20                | 7                  | 6                 |  |
| Serranidae                     |                   |                  |                   |                  |                    |                   |                    |                   |  |
| <i>Morone chrysops</i>         |                   |                  | 1                 | 1                | 11                 | 2                 | 1                  | 2                 |  |
| Total                          | 113               | 91               | 136               | 166              | 382                | 343               | 691                | 652               |  |

## Notes:

1. Station 12 is the discharge
2. Station 8 is the intake

TABLE 13 CONT.  
TOTAL GILL NETTING CATCH AT LOCUST POINT - 1973

| FISH SPECIES                         | 11-12<br>Sta.<br>12 | 11-12<br>Sta.<br>8 | Total<br>Sta.<br>12 | Total<br>Sta.<br>8 | Grand<br>Total |  |  |  |  |
|--------------------------------------|---------------------|--------------------|---------------------|--------------------|----------------|--|--|--|--|
| Amiidae                              |                     |                    |                     |                    |                |  |  |  |  |
| <i>Amia calva</i>                    |                     |                    |                     |                    |                |  |  |  |  |
| Catostomidae                         |                     |                    |                     |                    |                |  |  |  |  |
| <i>Carpiondes cyprinus</i>           |                     |                    |                     |                    |                |  |  |  |  |
| <i>Catostomus c. commersoni</i>      |                     |                    | 1                   | 1                  | 2              |  |  |  |  |
| <i>Minytrema melanops</i>            |                     |                    |                     |                    |                |  |  |  |  |
| <i>Moxostoma erythrum</i>            |                     |                    |                     |                    |                |  |  |  |  |
| <i>Ictiobus cyprinellus</i>          |                     |                    |                     |                    |                |  |  |  |  |
| Centrarchidae                        |                     |                    |                     |                    |                |  |  |  |  |
| <i>Ambloplites rupestris</i>         |                     |                    |                     |                    |                |  |  |  |  |
| <i>Lepomis cyanellus</i>             |                     |                    |                     |                    |                |  |  |  |  |
| <i>Lepomis humilis</i>               |                     |                    |                     |                    |                |  |  |  |  |
| <i>Micropterus d. dolomieu</i>       |                     |                    |                     |                    |                |  |  |  |  |
| <i>Micropterus s. salmoides</i>      |                     |                    |                     |                    |                |  |  |  |  |
| <i>Pomoxis annularis</i>             |                     |                    | 1                   | 2                  | 3              |  |  |  |  |
| <i>Pomoxis nigromaculatus</i>        |                     |                    |                     |                    |                |  |  |  |  |
| Clupeidae                            |                     |                    |                     |                    |                |  |  |  |  |
| <i>Alosa pseudoharengus</i>          |                     | 1                  | 322                 | 173                | 495            |  |  |  |  |
| <i>Dorosoma cepedianum</i>           | 5                   |                    | 406                 | 446                | 852            |  |  |  |  |
| Cyprinidae                           |                     |                    |                     |                    |                |  |  |  |  |
| <i>Carassius auratus</i>             |                     |                    | 10                  | 1                  | 11             |  |  |  |  |
| <i>Cyprinus carpio</i>               |                     |                    | 40                  | 24                 | 64             |  |  |  |  |
| <i>Hybopsis storeriana</i>           |                     |                    | 2                   |                    | 2              |  |  |  |  |
| <i>Notropis a. atherinoides</i>      |                     | 1                  | 11                  | 15                 | 26             |  |  |  |  |
| <i>N. hudsonius</i>                  | 6                   | 8                  | 41                  | 49                 | 90             |  |  |  |  |
| <i>N. spilopterus</i>                |                     |                    |                     |                    |                |  |  |  |  |
| <i>C. auratus</i> x <i>C. carpio</i> |                     |                    | 15                  | 4                  | 19             |  |  |  |  |
| Esocidae                             |                     |                    |                     |                    |                |  |  |  |  |
| <i>Esox lucius</i>                   |                     |                    |                     |                    |                |  |  |  |  |
| Ictaluridae                          |                     |                    |                     |                    |                |  |  |  |  |
| <i>Ictalurus nebulosus</i>           |                     |                    | 2                   | 1                  | 3              |  |  |  |  |
| <i>I. punctatus</i>                  |                     |                    | 12                  | 3                  | 15             |  |  |  |  |
| <i>Noturus flavus</i>                |                     |                    |                     |                    |                |  |  |  |  |
| Yellow Bullhead                      |                     |                    |                     | 1                  | 1              |  |  |  |  |
| Lepisosteidae                        |                     |                    |                     |                    |                |  |  |  |  |
| <i>Lepisosteus osseus</i>            |                     |                    |                     |                    |                |  |  |  |  |
| Osmeridae                            |                     |                    |                     |                    |                |  |  |  |  |
| <i>Osmerus eperlanus mordax</i>      |                     |                    |                     | 1                  | 1              |  |  |  |  |

## Notes:

1. Station 12 is the discharge
2. Station 8 is the intake

TABLE 13 CONT.  
TOTAL GILL NETTING CATCH AT LOCUST POINT - 1973

| FISH SPECIES                   | 11-12<br>Sta.<br>12 | 11-12<br>Sta.<br>8 | Total<br>Sta.<br>12 | Total<br>Sta.<br>8 | Grand<br>Total |  |  |  |  |
|--------------------------------|---------------------|--------------------|---------------------|--------------------|----------------|--|--|--|--|
| Percidae                       |                     |                    |                     |                    |                |  |  |  |  |
| <i>Perca flavescens</i>        | 1                   |                    | 378                 | 433                | 811            |  |  |  |  |
| <i>Percina caprodes</i>        |                     |                    |                     |                    |                |  |  |  |  |
| <i>Stizostedion v. vitreum</i> |                     |                    |                     | 1                  | 1              |  |  |  |  |
| Percopsidae                    |                     |                    |                     |                    |                |  |  |  |  |
| <i>Percopsis omiscomaycus</i>  |                     |                    |                     |                    |                |  |  |  |  |
| Salmonidae                     |                     |                    |                     |                    |                |  |  |  |  |
| <i>Oncorhynchus kisutch</i>    |                     |                    |                     |                    |                |  |  |  |  |
| Sciaenidae                     |                     |                    |                     |                    |                |  |  |  |  |
| <i>Aplodinotus grunniens</i>   |                     |                    | 80                  | 102                | 182            |  |  |  |  |
| Serranidae                     |                     |                    |                     |                    |                |  |  |  |  |
| <i>Morone chrysops</i>         |                     |                    | 13                  | 5                  | 18             |  |  |  |  |
| Total                          | 12                  | 10                 | 1334                | 1262               | 2596           |  |  |  |  |

## Notes:

1. Station 12 is the discharge
2. Station 8 is the intake

TABLE 14  
TOTAL SHORE SEINING CATCH AT LOCUST POINT - 1973

| FISH SPECIES                    | 6-14<br>I | 6-14<br>West | 6-14<br>East | 8-1<br>West | 10-3<br>West | 10-3<br>East | 11-12<br>West | 11-12<br>East | Total |
|---------------------------------|-----------|--------------|--------------|-------------|--------------|--------------|---------------|---------------|-------|
| Amiidae                         |           |              |              |             |              |              |               |               |       |
| <i>Amia calva</i>               |           |              |              |             |              |              |               |               |       |
| Catostomidae                    |           |              |              |             |              |              |               |               |       |
| <i>Carpionomoxys cyprinus</i>   |           |              |              |             |              |              |               |               |       |
| <i>Catostomus c. commersoni</i> |           |              |              |             |              |              |               |               |       |
| <i>Minytrema melanops</i>       |           |              |              |             |              |              |               |               |       |
| <i>Notostoma erythrum</i>       |           |              |              |             |              |              |               |               |       |
| <i>Ictiobus cyprinellus</i>     |           |              |              |             |              |              |               |               |       |
| Centrarchidae                   |           |              |              |             |              |              |               |               |       |
| <i>Ambloplites rupestris</i>    |           |              |              |             |              |              |               |               |       |
| <i>Lepomis cyanellus</i>        |           |              |              |             |              |              |               |               |       |
| <i>Lepomis humilis</i>          | 1         |              |              |             |              |              |               |               | 1     |
| <i>Micropterus d. dolomieu</i>  |           |              |              |             |              |              |               |               |       |
| <i>Micropterus s. salmoides</i> |           |              |              |             |              |              |               |               |       |
| <i>Pomoxis annularis</i>        |           | 2            | 5            |             |              |              |               | 1             | 8     |
| <i>Pomoxis nigromaculatus</i>   |           |              | 6            |             |              |              |               |               | 6     |
| Clupeidae                       |           |              |              |             |              |              |               |               |       |
| <i>Alosa pseudoharengus</i>     |           |              | 5            | 232         |              |              |               |               | 237   |
| <i>Dorosoma cepedianum</i>      |           |              | 2            | 47          | 3            | 5            | 20            | 1             | 78    |
| Cyprinidae                      |           |              |              |             |              |              |               |               |       |
| <i>Carassius auratus</i>        |           |              |              |             |              |              |               |               |       |
| <i>Cyprinus carpio</i>          |           | 1            | 2            |             |              |              |               |               | 3     |
| <i>Hubopsis storeriana</i>      |           |              |              |             |              |              |               |               |       |
| <i>Notropis a. atherinoides</i> | 25        | 191          | 90           | 474         | 7            | 5            | 240           | 92            | 1124  |
| <i>N. hudsonius</i>             | 13        | 47           | 69           |             |              |              |               |               | 129   |
| <i>N. spilopterus</i>           |           |              |              |             |              |              |               |               |       |
| <i>N. v. volucellus</i>         |           |              |              | 1           |              |              |               |               | 1     |
| Esocidae                        |           |              |              |             |              |              |               |               |       |
| <i>Esox lucius</i>              |           |              |              |             |              |              |               |               |       |
| Ictaluridae                     |           |              |              |             |              |              |               |               |       |
| <i>Ictalurus nebulosus</i>      |           |              |              |             |              |              |               |               |       |
| <i>I. punctatus</i>             |           |              |              |             |              |              |               |               |       |
| <i>Noturus flavus</i>           |           |              |              |             |              |              |               |               |       |
| Lepisosteidae                   |           |              |              |             |              |              |               |               |       |
| <i>Lepisosteus osseus</i>       |           |              |              |             |              |              |               |               |       |
| Osmeridae                       |           |              |              |             |              |              |               |               |       |
| <i>Osmerus eperlanus mordax</i> |           |              |              |             |              |              |               |               |       |

## Notes:

1. "I" designates intersection of intake and shore line.
2. "West" designates station 2500 ft west of "I".
3. "East" designates station 2500 ft east of "I".

TABLE 14 CONT.  
TOTAL SHORE SEINING CATCH AT LOCUST POINT - 1973

| FISH SPECIES                   | 6-14<br>I | 6-14<br>West | 6-14<br>East | 8-1<br>West | 10-3<br>West | 10-3<br>East | 11-12<br>West | 11-12<br>East | Total |
|--------------------------------|-----------|--------------|--------------|-------------|--------------|--------------|---------------|---------------|-------|
| Percidae                       |           |              |              |             |              |              |               |               |       |
| <i>Perca flavescens</i>        |           |              |              |             |              |              |               |               |       |
| <i>Percina caprodes</i>        |           |              |              |             |              |              |               |               |       |
| <i>Stizostedion v. vitreum</i> |           |              |              |             |              |              |               |               |       |
| Percopsidae                    |           |              |              |             |              |              |               |               |       |
| <i>Percopsis omiscomaycus</i>  |           |              |              |             |              |              |               |               |       |
| Salmonidae                     |           |              |              |             |              |              |               |               |       |
| <i>Oncorhynchus kisutch</i>    |           |              |              |             |              |              |               |               |       |
| Sciaenidae                     |           |              |              |             |              |              |               |               |       |
| <i>Aplodinotus grunniens</i>   |           | 1            |              |             |              |              |               |               | 1     |
| Serranidae                     |           |              |              |             |              |              |               |               |       |
| <i>Morone chrysops</i>         |           |              | 2            | 122         | 2            |              |               | 1             | 127   |
| Total                          | 39        | 242          | 181          | 876         | 12           | 10           | 260           | 95            | 1715  |

Notes:

1. "I" designates intersection of intake and shore line.
2. "West" designates station 2500 ft west of "I".
3. "East" designates station 2500 ft east of "I".

TABLE 15

NUMBER OF STOMACHS COLLECTED AND PERCENT CONTAINING FOOD

| SPECIES                         | 6-29-73 |                         | 7-17-73 |                         | 8-24-73 |                         | 9-27-73 |                         | 11-5-73 |                         |
|---------------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|---------|-------------------------|
|                                 | No.     | %<br>Containing<br>food | No.     | %<br>Containing<br>food | No.     | %<br>Containing<br>food | No.     | %<br>Containing<br>food | No.     | %<br>Containing<br>food |
| <i>Aplodinotus grunniens</i>    | 6       | 66.7                    | 32      | 75.0                    | 12      | 100.0                   | 9       | 77.8                    | 15      | 80.8                    |
| <i>Ictalurus nebulosus</i>      | 10      | 80.0                    | 6       | 50.0                    |         |                         | 5       | 40.0                    |         |                         |
| <i>I. punctatus</i>             | 12      | 25.0                    | 49      | 89.8                    | 3       | 100.0                   | 9       | 55.6                    | 9       | 88.9                    |
| <i>Morone chrysops</i>          | 2       | 50.0                    |         |                         | 6       | 100.0                   | 32      | 81.3                    |         |                         |
| <i>Notropis a. atherinoides</i> | 11      | 0.9                     | 3       | 33.3                    | 1       | 100.0                   |         |                         | 1       | 100.0                   |
| <i>N. hudsonius</i>             | 8       | 0.0                     |         |                         | 19      | 68.4                    | 29      | 93.1                    | 17      | 35.3                    |
| <i>Osmerus eperlanus mordax</i> | 2       | 0.0                     |         |                         |         |                         |         |                         |         |                         |
| <i>Perca flavescens</i>         | 3       | 0.0                     | 10      | 20.0                    | 39      | 20.5                    | 33      | 21.2                    | 27      | 0.0                     |
| <i>Percina caprodes</i>         | 1       | 100.0                   |         |                         |         |                         |         |                         | 1       | 0.0                     |
| <i>Percopsis omiscomaycus</i>   |         |                         |         |                         |         |                         | 1       | 100.0                   | 1       | 100.0                   |
| <i>Pomoxis annularis</i>        |         |                         |         |                         | 1       | 100.0                   |         |                         |         |                         |
| <i>P. nigromaculatus</i>        |         |                         |         |                         | 2       | 50.0                    | 1       | 100.0                   |         |                         |
| TOTAL                           | 55      | 30.9                    | 101     | 71.3                    | 84      | 53.6                    | 120     | 63.3                    | 72      | 38.9                    |

TABLE 16  
STOMACH ANALYSIS OF FISH CAPTURED AT LOCUST POINT, 1973

| Taxa of Food Items              |              |                    |      |           |         |             |             |           |           |                    |                    |                 |                      |                          |
|---------------------------------|--------------|--------------------|------|-----------|---------|-------------|-------------|-----------|-----------|--------------------|--------------------|-----------------|----------------------|--------------------------|
| Species                         | Size<br>(mm) | No. of<br>Stomachs |      | Nematodea | Bryozoa | Oligochaeta | Tubificidae | Hirudinea | Cladocera | <u>Bosmina</u> sp. | <u>Daphnia</u> sp. | <u>D. pulex</u> | <u>D. retrocurva</u> | <u>Leptodora kindtii</u> |
|                                 |              | Tot.               | Full |           |         |             |             |           |           |                    |                    |                 |                      |                          |
| <u>Aplodinotus grunniens</u>    | < 150        | 41                 | 36   |           |         | 0.6         | 0.2         |           |           |                    | 0.4                |                 |                      | 2.1                      |
| <u>Aplodinotus grunniens</u>    | ≥ 150        | 33                 | 18   |           |         |             |             |           | 3.3       |                    |                    |                 | 0.4                  | 27.3                     |
| <u>Ictalurus nebulosus</u>      | < 150        | 1                  |      |           |         |             |             |           |           |                    |                    |                 |                      |                          |
| <u>Ictalurus nebulosus</u>      | ≥ 150        | 20                 | 14   |           | x       |             |             |           |           |                    | 0.5                |                 | 162.9                | 3.0                      |
| <u>Ictalurus punctatus</u>      | < 150        | 21                 | 15   |           |         |             |             |           |           |                    |                    |                 |                      |                          |
| <u>Ictalurus punctatus</u>      | ≥ 150        | 61                 | 44   |           |         |             |             |           | 4.8       |                    | 37.9               | 0.1             | 33.0                 | 22.2                     |
| <u>Morone chrysops</u>          | < 120        | 39                 | 33   |           |         |             |             |           |           | 3.3                | 0.9                |                 | 2.0                  | 16.2                     |
| <u>Morone chrysops</u>          | ≥ 120        | 1                  |      |           |         |             |             |           |           |                    |                    |                 |                      |                          |
| <u>Notropis a. atherinoides</u> | < 90         | 5                  | 1    |           |         |             |             |           |           |                    |                    |                 |                      |                          |
| <u>Notropis a. atherinoides</u> | ≥ 90         | 11                 | 3    | 1.7       |         |             |             |           | 30.7      |                    |                    |                 | 46.7                 | 1.0                      |
| <u>Notropis hudsonius</u>       | < 90         | 18                 | 9    |           | x       |             |             |           |           |                    |                    |                 |                      | 0.2                      |
| <u>Notropis hudsonius</u>       | ≥ 90         | 55                 | 35   |           | x       |             |             |           |           |                    |                    |                 |                      | 0.1                      |
| <u>Osmerus eperlanus mordax</u> | < 100        |                    |      |           |         |             |             |           |           |                    |                    |                 |                      |                          |
| <u>Osmerus eperlanus mordax</u> | ≥ 100        | 2                  |      |           |         |             |             |           |           |                    |                    |                 |                      |                          |
| <u>Perca flavescens</u>         | < 120        | 19                 | 1    |           |         |             |             |           |           |                    |                    |                 |                      |                          |
| <u>Perca flavescens</u>         | ≥ 120        | 93                 | 17   |           |         |             |             | 0.1       |           |                    |                    |                 |                      | 1.0                      |
| <u>Percina caprodes</u>         | < 90         | 1                  |      |           |         |             |             |           |           |                    |                    |                 |                      |                          |
| <u>Percina caprodes</u>         | ≥ 90         |                    |      |           |         |             |             |           |           |                    |                    |                 |                      |                          |
| <u>Percopsis omiscomaycus</u>   | < 80         | 1                  | 1    |           |         |             |             |           |           | 3.0                |                    |                 | 2.0                  | 3.0                      |
| <u>Percopsis omiscomaycus</u>   | ≥ 80         | 1                  | 1    |           |         |             |             |           |           |                    |                    |                 |                      |                          |
| <u>Pomoxis annularis</u>        | < 100        |                    |      |           |         |             |             |           |           |                    |                    |                 |                      |                          |
| <u>Pomoxis annularis</u>        | ≥ 100        | 1                  | 1    |           |         |             |             |           |           |                    |                    |                 |                      |                          |
| <u>Pomoxis nigromaculatus</u>   | < 100        | 1                  | 1    |           |         |             |             |           |           | 49.0               |                    |                 | 1.0                  | 160.0                    |
| <u>Pomoxis nigromaculatus</u>   | ≥ 100        | 2                  | 1    |           |         |             |             |           |           |                    |                    |                 |                      | 3.0                      |

Notes: 1) Data presented as mean number of food organisms per full stomach.  
2) "x" indicates item was present.

TABLE 16 CONT.  
STOMACH ANALYSIS OF FISH CAPTURED AT LOCUST POINT, 1973

| Species                         | Size<br>(mm) | No. of<br>Stomachs |      | Taxa of Food Items |           |                     |                       |             |            |         |              |                       |                         |                                            |                                                  |
|---------------------------------|--------------|--------------------|------|--------------------|-----------|---------------------|-----------------------|-------------|------------|---------|--------------|-----------------------|-------------------------|--------------------------------------------|--------------------------------------------------|
|                                 |              | Tot.               | Full | Copepoda           | Cyclopoid | <u>Gammarus</u> sp. | <u>Orconectes</u> sp. | Trichoptera | Coleoptera | Diptera | Chironomidae | <u>Procladius</u> sp. | <u>Coelotanypus</u> sp. | <u>Chironomus</u><br>( <u>Chironomus</u> ) | <u>Chironomus</u><br>( <u>Cryptochironomus</u> ) |
| <u>Aplodinotus grunniens</u>    | < 150        | 41                 | 36   | 3.1                |           | 0.1                 |                       | 0.1         |            |         | 0.1          | 0.1                   |                         | 4.9                                        | 0.1                                              |
| <u>Aplodinotus grunniens</u>    | ≥ 150        | 33                 | 18   |                    |           | 0.3                 |                       |             |            | 0.4     | 0.2          | 0.1                   |                         | 2.0                                        | 0.1                                              |
| <u>Ictalurus nebulosus</u>      | < 150        | 1                  |      |                    |           |                     |                       |             |            |         |              |                       |                         |                                            |                                                  |
| <u>Ictalurus nebulosus</u>      | ≥ 150        | 20                 | 14   |                    | 0.3       |                     | 0.1                   |             |            |         | 0.1          |                       |                         | 0.2                                        |                                                  |
| <u>Ictalurus punctatus</u>      | < 150        | 21                 | 15   |                    |           |                     |                       |             | 0.1        | 0.1     | 0.1          | 0.1                   | 0.1                     | 3.9                                        | 0.2                                              |
| <u>Ictalurus punctatus</u>      | ≥ 150        | 61                 | 44   | 0.2                | 0.1       | 0.1                 |                       |             |            | 0.3     | 0.5          | 0.1                   |                         | 0.9                                        | 0.1                                              |
| <u>Morone chrysops</u>          | < 120        | 39                 | 33   | 33.6               | 5.7       |                     |                       |             |            |         | 0.1          |                       |                         |                                            |                                                  |
| <u>Morone chrysops</u>          | ≥ 120        | 1                  |      |                    |           |                     |                       |             |            |         |              |                       |                         |                                            |                                                  |
| <u>Notropis a. atherinoides</u> | < 90         | 5                  | 1    |                    |           |                     |                       |             |            |         |              |                       |                         |                                            |                                                  |
| <u>Notropis a. atherinoides</u> | ≥ 90         | 11                 | 3    |                    |           |                     |                       |             |            | 0.3     |              |                       |                         |                                            |                                                  |
| <u>Notropis hudsonius</u>       | < 90         | 18                 | 9    |                    |           |                     |                       |             |            |         |              |                       |                         |                                            |                                                  |
| <u>Notropis hudsonius</u>       | ≥ 90         | 55                 | 35   |                    |           |                     |                       |             | 0.1        | 0.1     | 0.3          |                       |                         | 0.1                                        | 0.1                                              |
| <u>Osmerus eperlanus mordax</u> | < 100        |                    |      |                    |           |                     |                       |             |            |         |              |                       |                         |                                            |                                                  |
| <u>Osmerus eperlanus mordax</u> | ≥ 100        | 2                  |      |                    |           |                     |                       |             |            |         |              |                       |                         |                                            |                                                  |
| <u>Perca flavescens</u>         | < 120        | 19                 | 1    |                    |           |                     |                       |             |            |         | 1.0          | 2.0                   |                         | 1.0                                        |                                                  |
| <u>Perca flavescens</u>         | ≥ 120        | 93                 | 17   |                    |           |                     |                       |             | 0.1        |         |              |                       |                         | 0.9                                        |                                                  |
| <u>Percina caprodes</u>         | < 90         | 1                  |      |                    |           |                     |                       |             |            |         |              |                       |                         |                                            |                                                  |
| <u>Percina caprodes</u>         | ≥ 90         |                    |      |                    |           |                     |                       |             |            |         |              |                       |                         |                                            |                                                  |
| <u>Percopsis omiscomaycus</u>   | < 80         | 1                  | 1    |                    |           |                     |                       |             |            |         |              |                       |                         |                                            |                                                  |
| <u>Percopsis omiscomaycus</u>   | ≥ 80         | 1                  | 1    |                    |           |                     |                       |             |            |         |              |                       |                         |                                            |                                                  |
| <u>Pomoxis annularis</u>        | < 100        |                    |      |                    |           |                     |                       |             |            |         |              |                       |                         |                                            |                                                  |
| <u>Pomoxis annularis</u>        | ≥ 100        | 1                  | 1    |                    |           |                     |                       |             |            |         | 1.0          |                       |                         |                                            |                                                  |
| <u>Pomoxis nigromaculatus</u>   | < 100        | 1                  | 1    |                    | 4.0       |                     |                       |             |            |         |              |                       |                         |                                            |                                                  |
| <u>Pomoxis nigromaculatus</u>   | ≥ 100        | 2                  | 1    |                    | 2052      |                     |                       |             |            |         |              |                       |                         |                                            |                                                  |

Notes: 1) Data presented as mean number of food organisms per full stomach.  
2) "x" indicates item was present.

TABLE 16 CONT.  
STOMACH ANALYSIS OF FISH CAPTURED AT LOCUST POINT, 1973

| Taxa of Food Items              |           |                 |      |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      |        |
|---------------------------------|-----------|-----------------|------|------------------------------------------------|--------------------------------|------------------------|-----------------------|------------|-----------------------|------------------------------|-------------------------|---------------------------------------|------|--------|
| Species                         | Size (mm) | No. of Stomachs |      | <u>Chironomus</u><br>( <u>Endochironomus</u> ) | <u>Pseudochironomus</u><br>sp. | <u>Polypedilum</u> sp. | <u>Tanytarsus</u> sp. | Gastropoda | Fish - unidentifiable | <u>Aplodinotus grunniens</u> | <u>Perca flavescens</u> | <u>Stizostedion</u> v. <u>vitreum</u> | Eggs | Debris |
|                                 |           | Tot.            | Full |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      |        |
| <u>Aplodinotus grunniens</u>    | < 150     | 41              | 36   |                                                | 0.1                            | 0.1                    | 0.1                   |            | 0.1                   |                              |                         |                                       |      | x      |
| <u>Aplodinotus grunniens</u>    | ≥ 150     | 33              | 18   |                                                |                                |                        |                       |            | 0.2                   |                              |                         |                                       |      | x      |
| <u>Ictalurus nebulosus</u>      | < 150     | 1               |      |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      |        |
| <u>Ictalurus nebulosus</u>      | ≥ 150     | 20              | 14   |                                                |                                |                        |                       | 0.1        |                       | 0.1                          |                         |                                       |      | x      |
| <u>Ictalurus punctatus</u>      | < 150     | 21              | 15   |                                                |                                |                        | 0.1                   |            |                       |                              |                         |                                       |      | x      |
| <u>Ictalurus punctatus</u>      | ≥ 150     | 61              | 44   |                                                |                                |                        |                       |            |                       |                              | 0.1                     | 0.1                                   |      | x      |
| <u>Morone chrysops</u>          | < 120     | 39              | 33   |                                                |                                |                        |                       |            | 0.1                   |                              |                         |                                       |      | x      |
| <u>Morone chrysops</u>          | ≥ 120     | 1               |      |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      | x      |
| <u>Notropis a. atherinoides</u> | < 90      | 5               | 1    |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      | x      |
| <u>Notropis a. atherinoides</u> | ≥ 90      | 11              | 3    |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      | x      |
| <u>Notropis hudsonius</u>       | < 90      | 18              | 9    |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      |        |
| <u>Notropis hudsonius</u>       | ≥ 90      | 55              | 35   |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      |        |
| <u>Osmerus eperlanus mordax</u> | < 100     |                 |      |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      | x      |
| <u>Osmerus eperlanus mordax</u> | ≥ 100     | 2               |      |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      |        |
| <u>Perca flavescens</u>         | < 120     | 19              | 1    |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      |        |
| <u>Perca flavescens</u>         | ≥ 120     | 93              | 17   |                                                |                                |                        |                       |            | 0.6                   |                              |                         |                                       |      | x      |
| <u>Percina caprodes</u>         | < 90      | 1               |      |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      |        |
| <u>Percina caprodes</u>         | ≥ 90      |                 |      |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      |        |
| <u>Percopsis omiscomaycus</u>   | < 80      | 1               | 1    |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      | x      |
| <u>Percopsis omiscomaycus</u>   | ≥ 80      | 1               | 1    |                                                |                                | 2                      |                       |            | 1                     |                              |                         |                                       | 15   |        |
| <u>Pomoxis annularis</u>        | < 100     |                 |      |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      |        |
| <u>Pomoxis annularis</u>        | ≥ 100     | 1               | 1    |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      |        |
| <u>Pomoxis nigromaculatus</u>   | < 100     | 1               | 1    |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      |        |
| <u>Pomoxis nigromaculatus</u>   | ≥ 100     | 2               | 1    |                                                |                                |                        |                       |            |                       |                              |                         |                                       |      |        |

Notes: 1) Data presented as mean number of food organisms per full stomach.  
2) "x" indicates item was present.

Therefore, Morone chrysops (less than 120 mm) and Pomoxis nigromaculatus (less than 100 mm) were feeding above the bottom while Ictalurus punctatus (less than 150 mm) were feeding off the bottom.

#### Water Chemistry

Results show the Locust Point area to have a good supply of dissolved oxygen (5.9 ppm or more), low carbon dioxide (0-5 ppm), high conductivity (up to 390 umho/cm), and very low transparency (generally less than 0.5 m) (Table 17). Because of the lack of previous water chemistry investigations in the Locust Point area of Lake Erie it has not been possible to develop trends in quality. Water quality data for 1973 are contained in Appendix E.

TABLE 17

PHYSICOCHEMICAL MEASUREMENTS OF LAKE ERIE WATER  
AT LOCUST POINT, OHIO

16 - 25 May 1973  
Data Period

| Parameter            |         | No.<br>Measurements | Range     | Mean | Standard<br>Deviation |
|----------------------|---------|---------------------|-----------|------|-----------------------|
| Depth (m)            |         | 16                  | 2.0-4.5   | 3.2  | 1.0                   |
| Trans (m)            |         | 17                  | 0.30-0.91 | 0.67 | 0.14                  |
| DO (ppm)             | Surface | 6                   | 12.0-14.0 | 12.8 | 0.7                   |
|                      | Bottom  |                     |           |      |                       |
| Temp (°C)            | Surface | 17                  | 12.8-15.6 | 14.6 | 1.1                   |
|                      | Bottom  | 17                  | 13.1-15.6 | 14.2 | 0.8                   |
| Cond (umho/cm)       | Surface | 17                  | 300-350   | 331  | 14                    |
|                      | Bottom  | 17                  | 300-350   | 325  | 14                    |
| Turbid (JTU)         | Surface | 8                   | 11-43     | 19   | 10                    |
|                      | Bottom  |                     |           |      |                       |
| Alk (ppm)            |         |                     |           |      |                       |
|                      |         |                     |           |      |                       |
| pH                   | Surface |                     |           |      |                       |
|                      | Bottom  |                     |           |      |                       |
| Sulfate              |         |                     |           |      |                       |
| Orthophosphate (ppm) |         |                     |           |      |                       |
|                      |         |                     |           |      |                       |

TABLE 17 CONT.

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PHYSICOCHEMICAL MEASUREMENTS OF LAKE ERIE WATER  
AT LOCUST POINT, OHIO

27 June - 2 July 1973  
Data Period

| Parameter            |         | No.<br>Measurements | Range     | Mean | Standard<br>Deviation |
|----------------------|---------|---------------------|-----------|------|-----------------------|
| Depth (m)            |         | 19                  | 1.6-4.8   | 3.4  | 1.0                   |
| Trans (m)            |         | 19                  | 0.18-0.49 | 0.32 | 0.07                  |
| DO (ppm)             | Surface | 5                   | 7.0-14.0  | 11.6 | 3.0                   |
|                      | Bottom  |                     |           |      |                       |
| Temp (°C)            | Surface | 19                  | 22.8-27.5 | 24.5 | 1.4                   |
|                      | Bottom  | 17                  | 22.8-24.5 | 23.4 | 0.4                   |
| Cond (umho/cm)       | Surface | 3                   | 330-390   | 370  | 28                    |
|                      | Bottom  |                     |           |      |                       |
| Turbid (JTU)         | Surface | 6                   | 18-34     | 30   | 5                     |
|                      | Bottom  |                     |           |      |                       |
| Alk (ppm)            |         |                     |           |      |                       |
|                      |         |                     |           |      |                       |
| pH                   | Surface |                     |           |      |                       |
|                      | Bottom  |                     |           |      |                       |
| Sulfate              |         |                     |           |      |                       |
| Orthophosphate (ppm) |         |                     |           |      |                       |
|                      |         |                     |           |      |                       |

TABLE 17 CONT.

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PHYSICOCHEMICAL MEASUREMENTS OF LAKE ERIE WATER  
AT LOCUST POINT, OHIO

25 July - 1 August 1973  
Data Period

| Parameter            |         | No.<br>Measurements | Range     | Mean | Standard<br>Deviation |
|----------------------|---------|---------------------|-----------|------|-----------------------|
| Depth (m)            |         | 20                  | 1.7-6.5   | 3.5  | 1.3                   |
| Trans (m)            |         | 20                  | 0.15-0.64 | 0.39 | 0.13                  |
| DO (ppm)             | Surface | 10                  | 7.0-13.0  | 10.6 | 1.9                   |
|                      | Bottom  |                     |           |      |                       |
| Temp (°C)            | Surface | 20                  | 23.9-27.2 | 25.4 | 0.9                   |
|                      | Bottom  | 20                  | 23.9-26.7 | 24.9 | 0.6                   |
| Cond (umho/cm)       | Surface |                     |           |      |                       |
|                      | Bottom  |                     |           |      |                       |
| Turbid (JTU)         | Surface | 10                  | 9.0-50    | 26   | 14                    |
|                      | Bottom  |                     |           |      |                       |
| Alk (ppm)            | Surface | 10                  | 95-180    | 114  | 23                    |
|                      |         |                     |           |      |                       |
| pH                   | Surface |                     |           |      |                       |
|                      | Bottom  |                     |           |      |                       |
| Sulfate              |         |                     |           |      |                       |
| Orthophosphate (ppm) |         |                     |           |      |                       |
|                      |         |                     |           |      |                       |

TABLE 17 CONT.

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PHYSICOCHEMICAL MEASUREMENTS OF LAKE ERIE WATER  
AT LOCUST POINT, OHIO

23 August 1973  
Data Period

| Parameter             |         | No.<br>Measurements | Range                   | Mean    | Standard<br>Deviation |
|-----------------------|---------|---------------------|-------------------------|---------|-----------------------|
| Depth (m)             |         | 20                  | 1.1-5.5                 | 3.3     | 1.1                   |
| Trans (m)             |         | 20                  | 0.18-0.43               | 0.31    | 0.06                  |
| DO (ppm)              | Surface | 11                  | 7.0-12.0                | 10.0    | 1.5                   |
|                       | Bottom  |                     |                         |         |                       |
| Temp (°C)             | Surface |                     |                         |         |                       |
|                       | Bottom  |                     |                         |         |                       |
| Cond (umho/cm)        | Surface |                     |                         |         |                       |
|                       | Bottom  |                     |                         |         |                       |
| Turbid (JTU)          | Surface | 11                  | 16-26                   | 19      | 3                     |
|                       | Bottom  |                     |                         |         |                       |
| Alk (ppm)             | Surface | 11                  | 105-155                 | 130     | 20                    |
|                       |         |                     |                         |         |                       |
| pH                    | Surface |                     |                         |         |                       |
|                       | Bottom  |                     |                         |         |                       |
| Sulfate               |         |                     |                         |         |                       |
| Orthophosphate (ppm)  |         |                     |                         |         |                       |
| CO <sub>2</sub> (ppm) |         | 11                  | All readings<br>"0 - 5" | "0 - 5" |                       |

TABLE 17 CONT.

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PHYSICOCHEMICAL MEASUREMENTS OF LAKE ERIE WATER  
AT LOCUST POINT, OHIO

19-26 September 1973  
Data Period

| Parameter            |         | No.<br>Measurements | Range     | Mean | Standard<br>Deviation |
|----------------------|---------|---------------------|-----------|------|-----------------------|
| Depth (m)            |         | 20                  | 1.0-5.6   | 3.2  | 1.2                   |
| Trans (m)            |         | 20                  | 0.18-0.49 | 0.29 | 0.09                  |
| DO (ppm)             | Surface | 16                  | 5.9-10.0  | 8.8  | 0.9                   |
|                      | Bottom  | 16                  | 6.0-10.0  | 8.4  | 0.9                   |
| Temp (°C)            | Surface | 16                  | 17.0-20.0 | 18.7 | 1.2                   |
|                      | Bottom  | 16                  | 16.5-19.0 | 18.1 | 1.1                   |
| Cond (umho/cm)       | Surface | 12                  | 245-361   | 287  | 29                    |
|                      | Bottom  |                     |           |      |                       |
| Turbid (JTU)         | Surface | 12                  | 14-50     | 29   | 10                    |
|                      | Bottom  |                     |           |      |                       |
| Alk (ppm)            | phenol  | 12                  | 0-0       | 0    |                       |
|                      | total   | 12                  | 120-155   | 135  | 11                    |
| pH                   | Surface | 12                  | 7.9-8.3   | 8.2  | 0.1                   |
|                      | Bottom  |                     |           |      |                       |
| Sulfate              |         |                     |           |      |                       |
| Orthophosphate (ppm) |         | 12                  | 0.03-0.4  | 0.10 | 0.11                  |
|                      |         |                     |           |      |                       |

TABLE 17 CONT.

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PHYSICOCHEMICAL MEASUREMENTS OF LAKE ERIE WATER  
AT LOCUST POINT, OHIO

2-7 November 1973  
Data Period

| Parameter            |         | No.<br>Measurements | Range     | Mean | Standard<br>Deviation |
|----------------------|---------|---------------------|-----------|------|-----------------------|
| Depth (m)            |         | 20                  | 1.2-5.4   | 2.9  | 1.1                   |
| Trans (m)            |         | 20                  | 0.15-0.30 | 0.20 | 0.05                  |
| DO (ppm)             | Surface | 20                  | 10.2-14.6 | 11.5 | 1.3                   |
|                      | Bottom  | 20                  | 8.8-14.2  | 11.2 | 1.2                   |
| Temp (°C)            | Surface | 20                  | 5.0-10.5  | 8.7  | 2.0                   |
|                      | Bottom  | 20                  | 5.0-10.0  | 8.6  | 1.9                   |
| Cond (umho/cm)       | Surface | 5                   | 270-380   | 330  | 41                    |
|                      | Bottom  |                     |           |      |                       |
| Turbid (JTU)         | Surface | 5                   | 32-52     | 38   | 7                     |
|                      | Bottom  |                     |           |      |                       |
| Alk (ppm)            |         |                     |           |      |                       |
|                      |         |                     |           |      |                       |
| pH                   | Surface | 5                   | 7.5-7.8   | 7.6  | 0.1                   |
|                      | Bottom  |                     |           |      |                       |
| Sulfate              |         |                     |           |      |                       |
| Orthophosphate (ppm) |         | 5                   | .05-.15   | .08  | 0.04                  |
|                      |         |                     |           |      |                       |

TABLE 17 CONT.

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PHYSICOCHEMICAL MEASUREMENTS OF LAKE ERIE WATER  
AT LOCUST POINT, OHIO

4 December 1973  
Data Period

| Parameter            |         | No.<br>Measurements | Range     | Mean | Standard<br>Deviation |
|----------------------|---------|---------------------|-----------|------|-----------------------|
| Depth (m)            |         | 10                  | 1.5-5.6   | 3.1  | 1.3                   |
| Trans (m)            |         | 10                  | 1.0-2.5   | 1.6  | 0.4                   |
| DO (ppm)             | Surface | 3                   | 10.0-11.0 | 10.7 | 0.5                   |
|                      | Bottom  | 2                   | 11.0      | 11.0 | 0.0                   |
| Temp (°C)            | Surface | 3                   | 6.0       | 6.0  | 0.0                   |
|                      | Bottom  | 3                   | 6.0       | 6.0  | 0.0                   |
| Cond (umho/cm)       | Surface | 9                   | 300-380   | 347  | 26                    |
|                      | Bottom  |                     |           |      |                       |
| Turbid (JTU)         | Surface | 10                  | 10-25     | 17   | 4                     |
|                      | Bottom  |                     |           |      |                       |
| Alk (ppm)            | phenol  | 10                  | 0-0       | 0    | 0.0                   |
|                      | total   | 10                  | 85-135    | 114  | 15                    |
| pH                   | Surface | 10                  | 7.2-7.6   | 7.4  | 0.1                   |
|                      | Bottom  |                     |           |      |                       |
| Sulfate              |         | 10                  | 0.8-5.1   | 2.5  | 1.4                   |
| Orthophosphate (ppm) |         | 10                  | 0.05-0.35 | 0.14 | 0.10                  |
|                      |         |                     |           |      |                       |

## DISCUSSION

### Benthos

The major differences between 1972 and 1973 results were in the frequency of occurrence of various species (Table 1). In general, chironomids and all species of oligochaetes except the Naididae were much more widespread in 1973 than in 1972, while Gammarus fasciatus, Caenis sp., Hirudinea and Pelecypoda occurred at fewer stations. It may be that changes in the substrate due to dredging and pipe-laying activities were responsible for these differences. Preliminary examination of sediment samples taken in 1973 showed an increase in clay and a decrease in sandy, gravelly substrate; however, until analysis of sediment samples has been completed and compared with the 1972 results, the evidence is not conclusive.

Although the total numbers of taxa found in both years were similar (30 in 1972, 31 in 1973), there were some differences when individual transects were compared (Table 18). Between June and November, 1973, the numbers of species were consistently lower on the intake and discharge transects than on the control west transect. Although missing data in 1972 precluded a complete comparison, it was evident that diversity was lower along the intake and discharge transects in 1973 than in 1972. These results may be related to changes in substrate and bottom topography resulting from dredging and pipe-laying activities.

When mean population densities were compared during the 2 years density appeared greater in 1973 than in 1972. This may be due in part to sampling artifacts since there was considerable missing data in 1972. If the stations not sampled in 1972 were those which normally had higher densities, the means would be biased downward. It may also be due to dredging and pipe-laying in that such activity may have exposed new sources of nutrients so that the species which could survive the change in substrate, increased turbidity, etc., had a more plentiful food supply and an increased rate of production.

### Plankton

As stated earlier, comparisons of 1973 data and earlier results are difficult due to different sampling techniques and stations. However, 1973 results indicate much larger zooplankton populations than

TABLE 18

MEAN SPECIES DIVERSITY FOR EACH TRANSECT  
AT LOCUST POINT IN 1972 AND 1973

|              | 1972 |     |      |     |     | 1973 |     |     |     |      |     |     |
|--------------|------|-----|------|-----|-----|------|-----|-----|-----|------|-----|-----|
|              | Jul  | Aug | Sept | Oct | Nov | May  | Jun | Jul | Aug | Sept | Oct | Nov |
| Control West | 9    | 10  | -    | -   | -   | 9    | 11  | 10  | 8   | 15   | 14  | 9   |
| Intake       | 14   | 7   | 3    | 14  | 17  | 16   | 9   | 10  | 6   | 11   | 11  | 10  |
| Discharge    | 16   | 6   | -    | 18  | -   | 10   | 8   | 10  | 7   | 14   | 12  | 12  |

were found in 1972 (Figures 5-8). There are also relative differences between the highs and lows of 1972 and 1973 populations. Zooplankton populations in 1972 were quite high in August and low in September while in 1973 they were low in August and high in September.

It is possible that these changes were due to the dredging for the intake and discharge pipelines which took place in 1973. It is also quite common to experience variability in zooplankton populations due to a patchy population distribution or short blooms of certain species. Differences in the weather between 1972 and 1973 undoubtedly also caused some of the changes in the zooplankton populations as it effected the stability of the environment. As with the benthos, a stable population can not be maintained in a shallow area that becomes as rough as Lake Erie at Locust Point.

### Fish and Food Habits

Although Lake Erie adjacent to Locust Point is not a spawning area, results show it to support a healthy fish population. Twenty-eight of the 38 species found in the Locust Point vicinity since 1963 were captured again this past year. This is a good diversity again pointing to a healthy population and relatively unpolluted environment.

Of the 28 species collected in 1973, 7 species, Alosa pseudoharengus, Aplodinotus grunniens, Cyprinus carpio, Dorosoma cepedianum, Ictalurus punctatus, Notropis a. atherinoides, and Perca flavescens, made up the bulk of the population. The addition of Morone chrysops and Notropis hudsonius, which were both common in the area, to this list leads to an almost classic community structure.

Four of the 9 species mentioned, Alosa pseudoharengus, Dorosoma cepedianum, Notropis a. atherinoides, and N. hudsonius, would be considered forage fish or food items for the remaining species excluding Cyprinus carpio which would be the scavenger. These 4 species compete for the plankton and benthos as their food. However, the fish occupy different niches so direct competition for food is averted, although the plankton population is probably large enough to support direct competition. Notropis hudsonius is the bottom dweller of the 4 while the other 3 constitute surface or midwater dwellers. Notropis a. atherinoides resides in the shore or beach area. There are also differences in seasonal abundance.

The 4 predators, Aplodinotus grunniens, Ictalurus punctatus, Morone chrysops, and Perca flavescens, compete for the forage species. Again, this competition is reduced due to differences in the niches of the 4. Morone chrysops is a surface or midwater feeder.

Ictalurus punctatus and Perca flavescens are bottom feeders, but Ictalurus punctatus doubles as a scavenger. Aplodinotus grunniens feeds over the entire water column.

All this points to a well structured community and, therefore, a relatively stable community.

The remaining 19 less common species should not be overlooked for they constitute the indicator species. The Locust Point environment is on the fringe of their niches as their reduced numbers indicate. Therefore, slight changes in this environment will most drastically effect these species.

### Water Chemistry

Water chemistry at Locust Point is being monitored so that a seasonal pattern can be developed. It will then be possible to detect changes in this pattern after the station is in operation. The only limiting factor for aquatic life observed to date would be transparency which is often less than 0.5 m. However, the populations now present are surviving under this stress. All other parameters measured are at levels very conducive to the development and maintenance of aquatic life.

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APPENDIX A

BENTHOS POPULATIONS AT LOCUST POINT

1973

TABLE A-1  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
MAY, 1973

| BENTHOS SAMPLES                    | Sta.<br>1 | Sta.<br>2 | Sta.<br>3 | Sta.<br>4 | Sta.<br>5 | Sta.<br>6 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| COELENTERATA                       |           |           |           |           |           |           |           |           |           |
| <i>Hydra</i> sp.                   |           |           | 109       |           |           |           |           | 18        | 18        |
| PLATYHELMINTHES                    |           |           |           |           |           |           |           |           |           |
| Planariidae                        |           |           |           |           |           |           |           |           |           |
| ANNELIDA                           |           |           |           |           |           |           |           |           |           |
| Hirudinea                          |           |           |           |           |           |           |           |           |           |
| <i>Glossiphonia complanata</i>     |           |           |           |           |           |           |           |           |           |
| <i>Helobdella stagnalis</i>        |           |           |           |           |           |           |           |           |           |
| <i>Helobdella elongata</i>         |           |           |           |           |           |           |           |           |           |
| <i>Nepheleopsis pseudoobtusata</i> |           |           |           |           |           |           | 18        |           |           |
| Oligochaeta, Immature              |           |           | 543       |           |           | 181       | 3403      | 1032      | 923       |
| Tubificidae                        |           |           |           |           |           |           |           |           |           |
| <i>Branchiura sowerbyi</i>         |           |           |           |           |           |           | 72        | 36        |           |
| <i>Limnodrilus cervix</i>          |           |           |           |           |           |           |           |           |           |
| <i>L. clavaredeanus</i>            |           |           |           |           |           | 36        |           |           |           |
| <i>L. clavaredeanus-cervix</i>     |           |           |           |           |           |           |           |           |           |
| <i>L. hoffmeisteri</i>             |           |           |           |           |           |           |           | 54        |           |
| <i>L. maximeensis</i>              |           |           |           |           |           |           |           |           |           |
| <i>L. udekemianus</i>              |           |           |           |           |           |           |           |           |           |
| <i>Potamothrix moldaviensis</i>    |           |           | 36        |           |           | 163       | 163       | 72        | 91        |
| <i>P. vejdoskyi</i>                |           |           |           |           |           |           | 109       | 91        |           |
| Naididae                           |           |           |           |           |           |           |           |           |           |
| <i>Nais</i> sp.                    |           |           |           |           |           |           |           |           |           |
| <i>Naidium</i> sp.                 |           |           |           |           |           |           |           |           |           |
| <i>Pristina</i> sp.                |           |           |           |           |           |           |           |           |           |
| <i>Stylaria</i> sp.                |           |           |           |           |           |           |           |           |           |
| <i>Uncinaria uncinata</i> sp.      |           |           |           |           |           |           |           | 18        | 109       |
| ARTHROPODA                         |           |           |           |           |           |           |           |           |           |
| Isopoda                            |           |           |           |           |           |           |           |           |           |
| <i>Asellus</i> sp.                 |           |           |           |           |           |           |           |           |           |
| Amphipoda                          |           |           |           |           |           |           |           |           |           |
| <i>Gammarus fasciatus</i>          |           |           | 72        |           |           | 18        | 18        |           | 18        |
| <i>Hyalella azteca</i>             |           |           |           |           |           |           |           |           |           |
| Ephemeroptera                      |           |           |           |           |           |           |           |           |           |
| <i>Caenis</i> sp.                  |           |           |           |           |           | 18        |           |           |           |
| Trichoptera                        |           |           |           |           |           |           |           |           |           |
| <i>Athripsodes</i> sp.             |           |           |           |           |           |           |           |           |           |
| <i>Oecetis</i> sp.                 |           |           |           |           |           |           |           |           |           |
| <i>Polycentropus</i> sp.           |           |           |           |           |           |           |           |           |           |

Notes:

1. Sample collection date: 5-25-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-1 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
MAY, 1973

| BENTHOS SPECIES                    | Sta.<br>1 | Sta.<br>2 | Sta.<br>3 | Sta.<br>4 | Sta.<br>5 | Sta.<br>6 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ARTHROPODA (Cont.)                 |           |           |           |           |           |           |           |           |           |
| Limnephilidae                      |           |           |           |           |           |           |           |           |           |
| Chironomidae                       |           |           |           |           |           |           |           |           |           |
| Chironominae                       |           |           |           |           |           |           |           |           |           |
| <i>Chironomus (Chironomus) sp.</i> |           |           |           |           |           |           |           |           |           |
| <i>C. (Cryptochironomus) sp.</i>   |           |           | 18        |           |           |           |           | 54        | 91        |
| <i>Polypedilum sp.</i>             |           |           |           |           |           | 18        | 290       | 54        |           |
| <i>Pseudochironomus sp.</i>        |           |           |           |           |           |           |           |           | 18        |
| <i>Tanytarsus sp.</i>              |           |           | 36        |           |           |           | 326       | 54        | 54        |
| Tanypodinae                        |           |           |           |           |           |           |           |           |           |
| <i>Coelotanypus sp.</i>            |           |           |           |           |           |           |           |           |           |
| <i>Procladius sp.</i>              |           |           | 36        |           |           |           | 18        |           |           |
| Orthoclaadiinae                    |           |           |           |           |           |           |           |           |           |
| <i>Cricotopus sp.</i>              |           |           |           |           |           |           |           |           |           |
| <i>Psectrocladius sp.</i>          |           |           |           |           |           |           |           |           |           |
|                                    |           |           |           |           |           |           |           |           |           |
| MOLLUSCA                           |           |           |           |           |           |           |           |           |           |
| Gastropoda                         |           |           |           |           |           |           |           |           |           |
| <i>Amnicola sp.</i>                |           |           |           |           |           |           |           |           |           |
| <i>Bulimus sp.</i>                 |           |           |           |           |           |           |           |           |           |
| <i>Gyraulus sp.</i>                |           |           |           |           |           |           |           |           |           |
| <i>Physa sp.</i>                   |           |           |           |           |           |           |           |           |           |
| <i>Pleurocera-Goniobasis sp.</i>   |           | 18        |           |           |           |           |           |           |           |
| <i>Valvata sp.</i>                 |           |           |           |           |           |           |           |           |           |
|                                    |           |           |           |           |           |           |           |           |           |
| Pelecypoda                         |           |           |           |           |           |           |           |           |           |
| Unionidae                          |           |           |           |           |           |           |           |           |           |
| <i>Amblema plicata</i>             |           |           |           |           |           |           |           |           |           |
| <i>Lampsilis ventricosa</i>        |           |           |           |           |           |           |           |           |           |
| <i>L. radiata</i>                  |           |           |           |           |           |           |           |           |           |
| <i>Leptodea fragilis</i>           |           |           |           |           |           |           |           |           |           |
| <i>Ligumia recta</i>               |           |           |           |           |           |           |           |           |           |
| <i>Potamilus alatus</i>            |           |           |           |           |           |           |           |           |           |
| <i>Quadrula pustulosa</i>          |           |           |           |           |           |           |           |           |           |
|                                    |           |           |           |           |           |           |           |           |           |
| Sphaeriidae                        |           |           |           |           |           |           |           |           |           |
| <i>Pisidium sp.</i>                |           |           |           |           |           |           | 18        |           |           |
| <i>Sphaerium sp.</i>               |           |           | 18        |           |           |           |           |           |           |
| Total                              | 0         | 18        | 886       |           | 0         | 434       | 4435      | 1484      | 1321      |

## Notes:

1. Sample collection date: 5-25-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-1 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
MAY, 1973

| BENTHOS SAMPLES                 | Sta.<br>10 | Sta.<br>11 | Sta.<br>12 | Sta.<br>13 | Sta.<br>14 | Sta.<br>15 | Sta.<br>16 | Sta.<br>17 | Sta.<br>18 |
|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| COELENTERATA                    |            |            |            |            |            |            |            |            |            |
| <i>Hydra</i> sp.                | 18         |            |            |            | 18         |            |            |            |            |
| PLATYHELMINTHES                 |            |            |            |            |            |            |            |            |            |
| Planariidae                     |            |            |            |            |            |            |            |            |            |
| ANNELIDA                        |            |            |            |            |            |            |            |            |            |
| Hirudinea                       |            |            |            |            |            |            |            |            |            |
| <i>Glossiphonia complanata</i>  |            |            |            |            |            |            |            |            |            |
| <i>Helobdella stagnalis</i>     |            |            |            |            |            |            |            |            |            |
| <i>Helobdella elongata</i>      |            |            |            |            |            |            |            |            |            |
| Oligochaeta, Immatures          | 326        | 18         | 91         | 145        | 217        |            | 72         |            | 380        |
| Tubificidae                     |            |            |            |            |            |            |            |            |            |
| <i>Branchiura sowerbyi</i>      |            |            |            |            |            |            |            |            |            |
| <i>Limnodrilus cervix</i>       |            |            |            |            |            |            |            |            |            |
| <i>L. claparedeanus</i>         |            |            |            |            |            |            |            |            |            |
| <i>L. claparedeanus-cervix</i>  |            |            |            |            |            |            |            |            |            |
| <i>L. hoffmeisteri</i>          |            |            |            |            |            |            |            |            | 36         |
| <i>L. maumensis</i>             |            |            |            |            |            |            |            |            |            |
| <i>L. udekemianus</i>           |            |            |            |            |            |            |            |            |            |
| <i>Potamotheix moldaviensis</i> |            | 54         |            | 18         | 36         |            |            |            | 18         |
| <i>P. vejdoskyi</i>             |            |            |            |            |            |            | 18         |            |            |
| Naididae                        |            |            |            |            |            |            |            |            |            |
| <i>Nais</i> sp.                 |            |            |            |            |            |            |            |            |            |
| <i>Naidium</i> sp.              |            |            |            |            |            |            |            |            |            |
| <i>Pristina</i> sp.             |            |            |            |            |            |            |            |            |            |
| <i>Stylaria</i> sp.             |            |            |            |            |            |            |            |            |            |
| <i>Uncinaria uncinata</i> sp.   |            |            |            |            |            |            |            |            |            |
| ARTHROPODA                      |            |            |            |            |            |            |            |            |            |
| Isopoda                         |            |            |            |            |            |            |            |            |            |
| <i>Asellus</i> sp.              |            |            |            |            |            |            |            |            |            |
| Amphipoda                       |            |            |            |            |            |            |            |            |            |
| <i>Gammarus fasciatus</i>       |            |            |            | 109        |            | 36         |            |            |            |
| <i>Hyalella azteca</i>          |            |            |            |            |            |            |            |            |            |
| Ephemeroptera                   |            |            |            |            |            |            |            |            |            |
| <i>Caenis</i> sp.               |            |            |            | 18         |            |            |            |            |            |
| Trichoptera                     |            |            |            |            |            |            |            |            |            |
| <i>Athripsodes</i> sp.          |            |            |            |            |            |            |            |            |            |
| <i>Decetis</i> sp.              |            |            |            |            |            |            |            |            |            |
| <i>Polycentropus</i> sp.        |            |            |            |            |            |            |            |            |            |

Notes:

1. Sample collection date: 5-25-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-1 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
MAY, 1973

| BENTHOS SPECIES                             | Sta.<br>10 | Sta.<br>11 | Sta.<br>12 | Sta.<br>13 | Sta.<br>14 | Sta.<br>15 | Sta.<br>16 | Sta.<br>17 | Sta.<br>18 |
|---------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| ARTHROPODA (Cont.)                          |            |            |            |            |            |            |            |            |            |
| Limnephilidae                               |            |            |            |            |            |            |            |            |            |
| Chironomidae                                |            |            |            |            |            |            |            |            |            |
| Chironominae                                |            |            |            |            |            |            |            |            |            |
| <i>Chironomus</i> ( <i>Chironomus</i> ) sp. |            |            |            |            |            |            |            |            |            |
| <i>C. (Cryptochironomus)</i> sp.            |            | 54         |            | 18         | 18         | 18         |            |            | 163        |
| <i>Polypedilum</i> sp.                      |            |            |            | 18         | 72         |            |            |            | 36         |
| <i>Pseudochironomus</i> sp.                 |            |            |            |            |            |            |            |            |            |
| <i>Tanytarsus</i> sp.                       |            |            | 9          | 18         |            |            |            |            | 18         |
| Tanypodinae                                 |            |            |            |            |            |            |            |            |            |
| <i>Coelotanypus</i> sp.                     |            |            |            |            |            |            |            |            |            |
| <i>Procladius</i> sp.                       | 18         |            |            |            |            |            |            |            |            |
| Orthocladiinae                              |            |            |            |            |            |            |            |            |            |
| <i>Cricotopus</i> sp.                       |            |            |            |            |            |            |            |            |            |
| <i>Psectrocladius</i> sp.                   |            |            |            |            |            |            |            |            |            |
| MOLLUSCA                                    |            |            |            |            |            |            |            |            |            |
| Gastropoda                                  |            |            |            |            |            |            |            |            |            |
| <i>Amnicola</i> sp.                         |            |            |            |            |            |            |            |            |            |
| <i>Bulimus</i> sp.                          |            |            |            |            |            |            |            |            |            |
| <i>Gyraulus</i> sp.                         |            |            |            |            |            |            |            |            |            |
| <i>Physa</i> sp.                            |            |            |            |            |            |            |            |            |            |
| <i>Pleurocera-Goniobasis</i> sp.            |            |            |            |            |            |            |            |            |            |
| <i>Valvata</i> sp.                          |            |            |            |            |            |            |            |            |            |
| Pelecypoda                                  |            |            |            |            |            |            |            |            |            |
| Unionidae                                   |            |            |            |            |            |            |            |            |            |
| <i>Amblema plicata</i>                      |            |            |            |            |            |            |            |            |            |
| <i>Lampsilis ventricosa</i>                 |            |            |            |            |            |            |            |            |            |
| <i>L. radiata</i>                           |            |            |            |            |            |            |            |            |            |
| <i>Leptodea fragilis</i>                    |            |            |            |            |            |            |            |            |            |
| <i>Ligumia recta</i>                        |            |            |            |            |            |            |            |            |            |
| <i>Potamilus alatus</i>                     |            |            |            |            |            |            |            |            |            |
| <i>Quadrula pustulosa</i>                   |            |            |            |            |            |            |            |            |            |
| Sphaeriidae                                 |            |            |            |            |            |            |            |            |            |
| <i>Pisidium</i> sp.                         |            |            |            |            |            |            |            |            |            |
| <i>Sphaerium</i> sp.                        |            |            |            |            |            |            |            |            |            |
| Total                                       | 362        | 126        | 100        | 344        | 361        | 144        | 90         |            | 652        |

## Notes:

1. Sample collection date: 5-25-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-1 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
MAY, 1973

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| BENTHOS SAMPLES                 | Sta.<br>19 | Sta.<br>20 |  |  |  |  |  |  |  |
|---------------------------------|------------|------------|--|--|--|--|--|--|--|
| COELENTERATA                    |            |            |  |  |  |  |  |  |  |
| <i>Hydra</i> sp.                |            |            |  |  |  |  |  |  |  |
| PLATYHELMINTHES                 |            |            |  |  |  |  |  |  |  |
| Planariidae                     |            |            |  |  |  |  |  |  |  |
| ANNELIDA                        |            |            |  |  |  |  |  |  |  |
| Hirudinea                       |            |            |  |  |  |  |  |  |  |
| <i>Glossiphonia complanata</i>  |            |            |  |  |  |  |  |  |  |
| <i>Helobdella stagnalis</i>     |            |            |  |  |  |  |  |  |  |
| <i>Helobdella elongata</i>      |            |            |  |  |  |  |  |  |  |
| Oligochaeta, Immatures          |            |            |  |  |  |  |  |  |  |
| Tubificidae                     |            |            |  |  |  |  |  |  |  |
| <i>Branchiura sowerbyi</i>      |            |            |  |  |  |  |  |  |  |
| <i>Limnodrilus cervix</i>       |            |            |  |  |  |  |  |  |  |
| <i>L. claparedianus</i>         |            |            |  |  |  |  |  |  |  |
| <i>L. claparedianus-cervix</i>  |            |            |  |  |  |  |  |  |  |
| <i>L. hoffmeisteri</i>          |            |            |  |  |  |  |  |  |  |
| <i>L. maumeensis</i>            |            |            |  |  |  |  |  |  |  |
| <i>L. udekemianus</i>           |            |            |  |  |  |  |  |  |  |
| <i>Potamothrix moldaviensis</i> |            |            |  |  |  |  |  |  |  |
| <i>P. vejdoskyi</i>             |            |            |  |  |  |  |  |  |  |
| Naididae                        |            |            |  |  |  |  |  |  |  |
| <i>Nais</i> sp.                 |            |            |  |  |  |  |  |  |  |
| <i>Naidium</i> sp.              |            |            |  |  |  |  |  |  |  |
| <i>Pristina</i> sp.             |            |            |  |  |  |  |  |  |  |
| <i>Stylaria</i> sp.             |            |            |  |  |  |  |  |  |  |
| <i>Uncinaxis uncinata</i> sp.   |            |            |  |  |  |  |  |  |  |
| ARTHROPODA                      |            |            |  |  |  |  |  |  |  |
| Isopoda                         |            |            |  |  |  |  |  |  |  |
| <i>Asellus</i> sp.              |            |            |  |  |  |  |  |  |  |
| Amphipoda                       |            |            |  |  |  |  |  |  |  |
| <i>Gammarus fasciatus</i>       |            |            |  |  |  |  |  |  |  |
| <i>Hyalella azteca</i>          |            |            |  |  |  |  |  |  |  |
| Ephemeroptera                   |            |            |  |  |  |  |  |  |  |
| <i>Caenis</i> sp.               |            |            |  |  |  |  |  |  |  |
| Trichoptera                     |            |            |  |  |  |  |  |  |  |
| <i>Athripsodes</i> sp.          |            |            |  |  |  |  |  |  |  |
| <i>Oecetis</i> sp.              |            |            |  |  |  |  |  |  |  |
| <i>Polycentropus</i> sp.        |            |            |  |  |  |  |  |  |  |

Notes:

1. Sample collection date: 5-25-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-1 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
MAY, 1973

| BENTHOS SPECIES                    | Sta.<br>19 | Sta.<br>20 |  |  |  |  |  |  |  |
|------------------------------------|------------|------------|--|--|--|--|--|--|--|
| ARTHROPODA (Cont.)                 |            |            |  |  |  |  |  |  |  |
| Limnephilidae                      |            |            |  |  |  |  |  |  |  |
| Chironomidae                       |            |            |  |  |  |  |  |  |  |
| Chironominae                       |            |            |  |  |  |  |  |  |  |
| <i>Chironomus (Chironomus) sp.</i> |            |            |  |  |  |  |  |  |  |
| <i>C. (Cryptochironomus) sp.</i>   |            |            |  |  |  |  |  |  |  |
| <i>Polypedilum sp.</i>             |            |            |  |  |  |  |  |  |  |
| <i>Pseudochironomus sp.</i>        |            |            |  |  |  |  |  |  |  |
| <i>Tanytarsus sp.</i>              |            |            |  |  |  |  |  |  |  |
| Tanypodinae                        |            |            |  |  |  |  |  |  |  |
| <i>Coelotanypus sp.</i>            |            |            |  |  |  |  |  |  |  |
| <i>Procladius sp.</i>              |            |            |  |  |  |  |  |  |  |
| Orthoclaadiinae                    |            |            |  |  |  |  |  |  |  |
| <i>Cricotopus sp.</i>              |            |            |  |  |  |  |  |  |  |
| <i>Psectrocladius sp.</i>          |            |            |  |  |  |  |  |  |  |
| MOLLUSCA                           |            |            |  |  |  |  |  |  |  |
| Gastropoda                         |            |            |  |  |  |  |  |  |  |
| <i>Amnicola sp.</i>                |            |            |  |  |  |  |  |  |  |
| <i>Bulimus sp.</i>                 |            |            |  |  |  |  |  |  |  |
| <i>Gyraulus sp.</i>                |            |            |  |  |  |  |  |  |  |
| <i>Physa sp.</i>                   |            |            |  |  |  |  |  |  |  |
| <i>Pleurocera-Goniobasis sp.</i>   |            |            |  |  |  |  |  |  |  |
| <i>Valvata sp.</i>                 |            |            |  |  |  |  |  |  |  |
| Pelecypoda                         |            |            |  |  |  |  |  |  |  |
| Unionidae                          |            |            |  |  |  |  |  |  |  |
| <i>Amblema plicata</i>             |            |            |  |  |  |  |  |  |  |
| <i>Lampsilis ventricosa</i>        |            |            |  |  |  |  |  |  |  |
| <i>L. radiata</i>                  |            |            |  |  |  |  |  |  |  |
| <i>Leptodea fragilis</i>           |            |            |  |  |  |  |  |  |  |
| <i>Ligumia recta</i>               |            |            |  |  |  |  |  |  |  |
| <i>Potamilus alatus</i>            |            |            |  |  |  |  |  |  |  |
| <i>Quadrula pustulosa</i>          |            |            |  |  |  |  |  |  |  |
| Sphaeriidae                        |            |            |  |  |  |  |  |  |  |
| <i>Pisidium sp.</i>                |            |            |  |  |  |  |  |  |  |
| <i>Sphaerium sp.</i>               |            |            |  |  |  |  |  |  |  |
| Total                              |            |            |  |  |  |  |  |  |  |

Notes:

1. Sample collection date: 5-25-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
JUNE and JULY, 1973

| BENTHOS SAMPLES                 | Sta.<br>1 | Sta.<br>2 | Sta.<br>3 | Sta.<br>4 | Sta.<br>5 | Sta.<br>6 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| COELENTERATA                    |           |           |           |           |           |           |           |           |           |
| <i>Hydra</i> sp.                |           |           |           |           |           |           |           |           |           |
| PLATYHELMINTHES                 |           |           |           |           |           |           |           |           |           |
| Planariidae                     |           |           |           |           |           |           |           |           |           |
| ANNELIDA                        |           |           |           |           |           |           |           |           |           |
| Hirudinea                       |           |           |           |           |           |           |           |           |           |
| <i>Glossiphonia complanata</i>  |           |           |           |           |           |           |           |           |           |
| <i>Helobdella stagnalis</i>     |           |           |           |           |           |           |           |           |           |
| <i>Helobdella elongata</i>      |           |           |           |           |           |           |           |           |           |
| Oligochaeta, Immatures          |           |           | 2842      | 1321      |           |           | 815       | 1177      | 434       |
| Tubificidae                     |           |           |           |           |           |           |           |           |           |
| <i>Branchiura sowerbyi</i>      |           |           |           |           |           |           |           |           |           |
| <i>Limnodrilus cervix</i>       | 54        |           | 109       |           |           |           | 18        |           |           |
| <i>L. claparedeanus</i>         |           |           |           |           |           |           |           |           |           |
| <i>L. claparedeanus-cervix</i>  |           |           |           |           |           |           |           |           |           |
| <i>L. hoffmeisteri</i>          |           |           |           |           |           |           | 36        | 54        |           |
| <i>L. mauveensis</i>            |           |           |           |           |           |           |           |           |           |
| <i>L. udekemianus</i>           |           |           |           |           |           |           |           |           |           |
| <i>Potamotheix moldaviensis</i> | 18        |           | 706       | 217       |           |           | 18        |           | 290       |
| <i>P. vejdoskyi</i>             |           |           | 398       | 36        |           |           | 72        | 36        |           |
| Naididae                        |           |           |           |           |           |           |           |           |           |
| <i>Nais</i> sp.                 |           |           |           |           |           |           |           |           |           |
| <i>Naidium</i> sp.              |           |           |           |           |           |           |           |           |           |
| <i>Pristina</i> sp.             |           |           |           |           |           |           |           |           |           |
| <i>Stylaria</i> sp.             |           |           |           |           |           |           |           |           |           |
| <i>Uncinaxis uncinata</i> sp.   |           |           |           |           |           |           |           |           |           |
| ARTHROPODA                      |           |           |           |           |           |           |           |           |           |
| Isopoda                         |           |           |           |           |           |           |           |           |           |
| <i>Asellus</i> sp.              |           |           |           |           |           |           |           |           |           |
| Amphipoda                       |           |           |           |           |           |           |           |           |           |
| <i>Gammarus fasciatus</i>       |           |           |           |           | 18        |           |           |           |           |
| <i>Hyalella azteca</i>          |           |           |           |           |           |           |           |           |           |
| Ephemeroptera                   |           |           |           |           |           |           |           |           |           |
| <i>Caenis</i> sp.               |           |           | 36        |           |           |           |           |           |           |
| Trichoptera                     |           |           |           |           |           |           |           |           |           |
| <i>Athripsoides</i> sp.         |           |           |           |           |           |           |           |           |           |
| <i>Oecetis</i> sp.              |           |           |           |           |           |           |           |           |           |
| <i>Polycentropus</i> sp.        |           |           |           |           |           |           |           |           |           |

## Notes:

1. Sample collection date: 6-27-73 and 7-2-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-2 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
JUNE and JULY, 1973

| BENTHOS SPECIES                    | Sta.<br>1 | Sta.<br>2 | Sta.<br>3 | Sta.<br>4 | Sta.<br>5 | Sta.<br>6 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ARTHROPODA (Cont.)                 |           |           |           |           |           |           |           |           |           |
| Limnephilidae                      |           |           |           |           |           |           |           |           |           |
| Chironomidae                       |           |           |           |           |           |           |           |           |           |
| Chironominae                       |           |           |           |           |           |           |           |           |           |
| <i>Chironomus (Chironomus) sp.</i> | 91        |           | 36        |           |           |           | 235       | 36        | 18        |
| <i>C. (Cryptochironomus) sp.</i>   | 18        |           |           | 36        |           |           | 18        |           | 36        |
| <i>Polypedilum sp.</i>             | 18        |           | 18        |           |           |           |           |           |           |
| <i>Pseudochironomus sp.</i>        |           |           |           |           |           |           |           |           |           |
| <i>Tanytarsus sp.</i>              |           |           | 18        |           |           |           |           | 217       | 54        |
| Tanypodinae                        |           |           |           |           |           |           |           |           |           |
| <i>Coelotanypus sp.</i>            |           |           |           |           |           |           |           |           |           |
| <i>Procladius sp.</i>              |           |           | 18        | 36        |           |           |           | 72        |           |
| Orthoclaadiinae                    |           |           |           |           |           |           |           |           |           |
| <i>Cricotopus sp.</i>              |           |           |           |           |           |           |           |           |           |
| <i>Psectrocladius sp.</i>          |           |           |           |           |           |           |           |           |           |
| MOLLUSCA                           |           |           |           |           |           |           |           |           |           |
| Gastropoda                         |           |           |           |           |           |           |           |           |           |
| <i>Amnicola sp.</i>                |           |           |           |           |           |           |           |           |           |
| <i>Bulimus sp.</i>                 |           |           |           |           |           |           |           |           |           |
| <i>Gyraulus sp.</i>                |           |           |           |           |           |           |           |           |           |
| <i>Physa sp.</i>                   |           |           |           |           |           |           |           |           |           |
| <i>Pleurocera-Goniobasis sp.</i>   |           |           |           |           |           |           |           |           |           |
| <i>Valvata sp.</i>                 |           |           |           |           |           |           |           |           |           |
| Pelecypoda                         |           |           |           |           |           |           |           |           |           |
| Unionidae                          |           |           |           |           |           |           |           |           |           |
| <i>Amblema plicata</i>             |           |           |           |           |           |           |           |           |           |
| <i>Lampsilis ventricosa</i>        |           |           |           |           |           |           |           |           |           |
| <i>L. radiata</i>                  |           |           |           |           |           |           |           |           |           |
| <i>Leptodea fragilis</i>           |           |           |           |           |           |           |           |           |           |
| <i>Ligumia recta</i>               |           |           |           |           |           |           |           |           |           |
| <i>Potamilus alatus</i>            |           |           |           |           |           |           |           |           |           |
| <i>Quadrula pustulosa</i>          |           |           |           |           |           |           |           |           |           |
| Sphaeriidae                        |           |           |           |           |           |           |           |           |           |
| <i>Pisidium sp.</i>                |           |           |           |           |           |           |           |           |           |
| <i>Sphaerium sp.</i>               | 18        |           |           |           |           |           |           |           |           |
| Total                              | 217       | 0         | 4181      | 1646      | 18        |           | 1212      | 1592      | 832       |

Notes:

1. Sample collection date: 6-27-73 and 7-2-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-2 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
JUNE and JULY, 1973

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| BENTHOS SAMPLES                  | Sta.<br>10 | Sta.<br>11 | Sta.<br>12 | Sta.<br>13 | Sta.<br>14 | Sta.<br>15 | Sta.<br>16 | Sta.<br>17 | Sta.<br>18 |
|----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| COELENTERATA                     |            |            |            |            |            |            |            |            |            |
| <i>Hydra</i> sp.                 |            |            |            |            |            |            |            |            |            |
| PLATYHELMINTHES                  |            |            |            |            |            |            |            |            |            |
| Planariidae                      |            |            |            |            |            |            |            |            |            |
| ANNELIDA                         |            |            |            |            |            |            |            |            |            |
| Hirudinea                        |            |            |            |            |            |            |            |            |            |
| <i>Glossiphonia complanata</i>   |            |            |            |            |            |            |            |            |            |
| <i>Helobdella stagnalis</i>      |            |            |            |            |            |            |            |            |            |
| <i>Helobdella elongata</i>       |            |            |            |            |            |            |            |            |            |
| Oligochaeta, Immatures           |            | 18         | 181        | 561        | 561        | 109        |            |            | 380        |
| Tubificidae                      |            |            |            |            |            |            |            |            |            |
| <i>Branchyura sowerbyi</i>       |            |            |            |            |            |            |            |            |            |
| <i>Limnodrilus cervix</i>        |            |            |            |            |            | 36         |            |            |            |
| <i>L. claparedeanus</i>          |            |            |            |            |            | 18         |            |            |            |
| <i>L. claparedeanus-cervix</i>   |            |            |            |            |            |            |            |            |            |
| <i>L. hoffmeisteri</i>           |            |            |            |            |            |            |            |            |            |
| <i>L. mauneensis</i>             |            |            |            |            |            |            |            |            |            |
| <i>L. udekemianus</i>            |            |            |            |            |            |            |            |            |            |
| <i>Potamothenix moldaviensis</i> |            |            | 72         |            | 18         |            |            |            | 18         |
| <i>P. vejdoskyi</i>              |            |            |            |            |            | 308        |            |            |            |
| Naididae                         |            |            |            |            |            |            |            |            |            |
| <i>Nais</i> sp.                  |            |            |            |            |            |            |            |            |            |
| <i>Naidium</i> sp.               |            |            |            |            |            |            |            |            |            |
| <i>Pristina</i> sp.              |            |            |            |            |            |            |            |            |            |
| <i>Stylaria</i> sp.              |            |            |            |            |            |            |            |            |            |
| <i>Uncinaxis uncinata</i> sp.    |            |            |            |            |            |            |            |            |            |
| ARTHROPODA                       |            |            |            |            |            |            |            |            |            |
| Isopoda                          |            |            |            |            |            |            |            |            |            |
| <i>Asellus</i> sp.               |            |            |            |            |            |            |            |            |            |
| Amphipoda                        |            |            |            |            |            |            |            |            |            |
| <i>Gammarus fasciatus</i>        |            |            |            |            |            |            |            |            |            |
| <i>Hyaella azteca</i>            |            |            |            |            |            |            |            |            |            |
| Ephemeroptera                    |            |            |            |            |            |            |            |            |            |
| <i>Caenis</i> sp.                |            |            |            |            |            |            |            |            |            |
| Trichoptera                      |            |            |            |            |            |            |            |            |            |
| <i>Athripsodes</i> sp.           |            |            |            |            |            |            |            |            |            |
| <i>Oecetis</i> sp.               |            |            |            |            |            |            |            |            |            |
| <i>Polycentropus</i> sp.         |            |            |            |            |            |            |            |            |            |

Notes:

1. Sample collection date: 6-27-73 and 7-2-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-2 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
JUNE and JULY, 1973

| BENTHOS SPECIES                    | Sta.<br>10 | Sta.<br>11 | Sta.<br>12 | Sta.<br>13 | Sta.<br>14 | Sta.<br>15 | Sta.<br>16 | Sta.<br>17 | Sta.<br>18 |
|------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| ARTHROPODA (Cont.)                 |            |            |            |            |            |            |            |            |            |
| Limnephilidae                      |            |            |            |            |            |            |            |            |            |
| Chironomidae                       |            |            |            |            |            |            |            |            |            |
| Chironominae                       |            |            |            |            |            |            |            |            |            |
| <i>Chironomus (Chironomus) sp.</i> |            |            | 380        | 199        | 54         | 72         | 109        |            | 91         |
| <i>C. (Cryptochironomus) sp.</i>   |            |            | 18         |            |            |            |            |            |            |
| <i>Polypedilum sp.</i>             |            |            |            |            |            | 36         |            |            |            |
| <i>Pseudochironomus sp.</i>        |            |            |            |            |            |            |            |            |            |
| <i>Tanytarsus sp.</i>              |            |            |            |            |            |            |            |            |            |
| Tanypodinae                        |            |            |            |            |            |            |            |            |            |
| <i>Coelotanypus sp.</i>            |            |            |            |            |            |            |            |            |            |
| <i>Procladius sp.</i>              |            |            |            |            |            | 72         |            |            | 36         |
| Orthocladiinae                     |            |            |            |            |            |            |            |            |            |
| <i>Cricotopus sp.</i>              |            |            |            |            |            |            |            |            |            |
| <i>Psectrocladius sp.</i>          |            |            |            |            |            |            |            |            |            |
|                                    |            |            |            |            |            |            |            |            |            |
| MOLLUSCA                           |            |            |            |            |            |            |            |            |            |
| Gastropoda                         |            |            |            |            |            |            |            |            |            |
| <i>Amnicola sp.</i>                |            |            |            |            |            |            |            |            |            |
| <i>Bulinus sp.</i>                 |            |            |            |            |            |            |            |            |            |
| <i>Gyraulus sp.</i>                |            |            |            |            |            |            |            |            |            |
| <i>Physa sp.</i>                   |            |            |            |            |            |            |            |            |            |
| <i>Pleurocera-Goniobasis sp.</i>   |            |            |            |            |            |            |            |            |            |
| <i>Valvata sp.</i>                 |            |            |            |            |            |            |            |            |            |
|                                    |            |            |            |            |            |            |            |            |            |
| Pelecypoda                         |            |            |            |            |            |            |            |            |            |
| Unionidae                          |            |            |            |            |            |            |            |            |            |
| <i>Amblema plicata</i>             |            |            |            |            |            |            |            |            |            |
| <i>Lampsilis ventricosa</i>        |            |            |            |            |            |            |            |            |            |
| <i>L. radiata</i>                  |            |            |            |            |            |            |            |            |            |
| <i>Leptodea fragilis</i>           |            |            |            |            |            |            |            |            |            |
| <i>Ligumia recta</i>               |            |            |            |            |            |            |            |            |            |
| <i>Potamilus alatus</i>            |            |            |            |            |            |            |            |            |            |
| <i>Quadrula pustulosa</i>          |            |            |            |            |            |            |            |            |            |
|                                    |            |            |            |            |            |            |            |            |            |
| Sphaeriidae                        |            |            |            |            |            |            |            |            |            |
| <i>Pisidium sp.</i>                |            |            |            |            |            |            |            |            |            |
| <i>Sphaerium sp.</i>               |            |            |            |            |            |            |            |            |            |
| Total                              | 0          | 18         | 651        | 761        | 633        | 651        | 109        |            | 525        |

Notes:

1. Sample collection date: 6-27-73 and 7-2-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-2 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
JUNE and JULY, 1973

| BENTHOS SAMPLES                 | Sta.<br>19 | Sta.<br>20 |  |  |  |  |  |  |  |
|---------------------------------|------------|------------|--|--|--|--|--|--|--|
| COELENTERATA                    |            |            |  |  |  |  |  |  |  |
| <i>Hydra</i> sp.                |            |            |  |  |  |  |  |  |  |
| PLATYHELMINTHES                 |            |            |  |  |  |  |  |  |  |
| Planariidae                     |            |            |  |  |  |  |  |  |  |
| ANNELIDA                        |            |            |  |  |  |  |  |  |  |
| Hirudinea                       |            |            |  |  |  |  |  |  |  |
| <i>Glossiphonia complanata</i>  |            |            |  |  |  |  |  |  |  |
| <i>Helobdella stagnalis</i>     |            |            |  |  |  |  |  |  |  |
| <i>Helobdella elongata</i>      |            |            |  |  |  |  |  |  |  |
| Oligochaeta, Immatures          |            |            |  |  |  |  |  |  |  |
| Tubificidae                     |            |            |  |  |  |  |  |  |  |
| <i>Branchiura sowerbyi</i>      |            |            |  |  |  |  |  |  |  |
| <i>Limnodrilus cervix</i>       |            |            |  |  |  |  |  |  |  |
| <i>L. claparedeanus</i>         |            |            |  |  |  |  |  |  |  |
| <i>L. claparedeanus-cervix</i>  |            |            |  |  |  |  |  |  |  |
| <i>L. hoffmeisteri</i>          |            |            |  |  |  |  |  |  |  |
| <i>L. maumeensis</i>            |            |            |  |  |  |  |  |  |  |
| <i>L. udekemianus</i>           |            |            |  |  |  |  |  |  |  |
| <i>Potamothrix moldaviensis</i> |            |            |  |  |  |  |  |  |  |
| <i>P. vejdoskyi</i>             |            |            |  |  |  |  |  |  |  |
| Naididae                        |            |            |  |  |  |  |  |  |  |
| <i>Nais</i> sp.                 |            |            |  |  |  |  |  |  |  |
| <i>Naidium</i> sp.              |            |            |  |  |  |  |  |  |  |
| <i>Pristina</i> sp.             |            |            |  |  |  |  |  |  |  |
| <i>Stylaria</i> sp.             |            |            |  |  |  |  |  |  |  |
| <i>Uncinaxis uncinata</i> sp.   |            |            |  |  |  |  |  |  |  |
| ARTHROPODA                      |            |            |  |  |  |  |  |  |  |
| Isopoda                         |            |            |  |  |  |  |  |  |  |
| <i>Asellus</i> sp.              |            |            |  |  |  |  |  |  |  |
| Amphipoda                       |            |            |  |  |  |  |  |  |  |
| <i>Gammarus fasciatus</i>       |            |            |  |  |  |  |  |  |  |
| <i>Hyalella asteca</i>          |            |            |  |  |  |  |  |  |  |
| Ephemeroptera                   |            |            |  |  |  |  |  |  |  |
| <i>Caenis</i> sp.               |            |            |  |  |  |  |  |  |  |
| Trichoptera                     |            |            |  |  |  |  |  |  |  |
| <i>Athripsodes</i> sp.          |            |            |  |  |  |  |  |  |  |
| <i>Oecetis</i> sp.              |            |            |  |  |  |  |  |  |  |
| <i>Polycentropus</i> sp.        |            |            |  |  |  |  |  |  |  |

Notes:

1. Sample collection date: 6-27-73 and 7-2-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-2 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
JUNE and JULY' 1973

| BENTHOS SPECIES                    | Sta.<br>19 | Sta.<br>20 |  |  |  |  |  |  |  |
|------------------------------------|------------|------------|--|--|--|--|--|--|--|
| ARTHROPODA (Cont.)                 |            |            |  |  |  |  |  |  |  |
| Limnephilidae                      |            |            |  |  |  |  |  |  |  |
| Chironomidae                       |            |            |  |  |  |  |  |  |  |
| Chironominae                       |            |            |  |  |  |  |  |  |  |
| <i>Chironomus (Chironomus) sp.</i> |            |            |  |  |  |  |  |  |  |
| <i>C. (Cryptochironomus) sp.</i>   |            |            |  |  |  |  |  |  |  |
| <i>Polypedilum sp.</i>             |            |            |  |  |  |  |  |  |  |
| <i>Pseudochironomus sp.</i>        |            |            |  |  |  |  |  |  |  |
| <i>Tanytarsus sp.</i>              |            |            |  |  |  |  |  |  |  |
| Tanypodinae                        |            |            |  |  |  |  |  |  |  |
| <i>Coelotanypus sp.</i>            |            |            |  |  |  |  |  |  |  |
| <i>Procladius sp.</i>              |            |            |  |  |  |  |  |  |  |
| Orthoclaadiinae                    |            |            |  |  |  |  |  |  |  |
| <i>Cricotopus sp.</i>              |            |            |  |  |  |  |  |  |  |
| <i>Psectrocladius sp.</i>          |            |            |  |  |  |  |  |  |  |
| MOLLUSCA                           |            |            |  |  |  |  |  |  |  |
| Gastropoda                         |            |            |  |  |  |  |  |  |  |
| <i>Amnicola sp.</i>                |            |            |  |  |  |  |  |  |  |
| <i>Bulimus sp.</i>                 |            |            |  |  |  |  |  |  |  |
| <i>Gyraulus sp.</i>                |            |            |  |  |  |  |  |  |  |
| <i>Physa sp.</i>                   |            |            |  |  |  |  |  |  |  |
| <i>Pleurocera-Goniobasis sp.</i>   |            |            |  |  |  |  |  |  |  |
| <i>Valvata sp.</i>                 |            |            |  |  |  |  |  |  |  |
| Pelecypoda                         |            |            |  |  |  |  |  |  |  |
| Unionidae                          |            |            |  |  |  |  |  |  |  |
| <i>Amblema plicata</i>             |            |            |  |  |  |  |  |  |  |
| <i>Lampsilis ventricosa</i>        |            |            |  |  |  |  |  |  |  |
| <i>L. radiata</i>                  |            |            |  |  |  |  |  |  |  |
| <i>Leptodea fragilis</i>           |            |            |  |  |  |  |  |  |  |
| <i>Ligumia recta</i>               |            |            |  |  |  |  |  |  |  |
| <i>Potamilus alatus</i>            |            |            |  |  |  |  |  |  |  |
| <i>Quadrula pustulosa</i>          |            |            |  |  |  |  |  |  |  |
| Sphaeriidae                        |            |            |  |  |  |  |  |  |  |
| <i>Pisidium sp.</i>                |            |            |  |  |  |  |  |  |  |
| <i>Sphaerium sp.</i>               |            |            |  |  |  |  |  |  |  |
| Total                              | 0          | 0          |  |  |  |  |  |  |  |

Notes:

1. Sample collection date: 6-27-73 and 7-2-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-3  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
JULY and AUGUST, 1973

| BENTHOS SAMPLES                 | Sta.<br>1 | Sta.<br>2 | Sta.<br>3 | Sta.<br>4 | Sta.<br>5 | Sta.<br>6 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| COELENTERATA                    |           |           |           |           |           |           |           |           |           |
| <i>Hydra</i> sp.                |           |           |           |           |           |           |           |           |           |
| PLATYHELMINTHES                 |           |           |           |           |           |           |           |           |           |
| Planariidae                     |           |           |           |           |           |           |           |           |           |
| ANNELIDA                        |           |           |           |           |           |           |           |           |           |
| Hirudinea                       |           |           |           |           |           |           |           |           |           |
| <i>Glossiphonia complanata</i>  |           |           |           |           |           |           |           |           |           |
| <i>Helobdella stagnalis</i>     | 18        |           |           |           |           |           |           |           |           |
| <i>Helobdella elongata</i>      |           |           |           |           |           |           |           |           |           |
| Oligochaeta, Immatures          | 18        |           | 1104      | 1177      |           |           | 2860      | 489       | 344       |
| Tubificidae                     |           |           |           |           |           |           |           |           |           |
| <i>Branchyura sowerbyi</i>      |           |           | 18        | 72        |           |           | 72        |           |           |
| <i>Limnodrilus cervix</i>       |           |           | 36        | 18        |           |           |           |           |           |
| <i>L. claparedeanus</i>         |           |           |           |           |           |           |           |           |           |
| <i>L. claparedeanus-cervix</i>  |           |           |           |           |           |           |           |           |           |
| <i>L. hoffmeisteri</i>          |           |           |           |           |           |           |           |           |           |
| <i>L. maumeensis</i>            |           |           |           |           |           |           |           |           |           |
| <i>L. udekemianus</i>           |           |           |           |           |           |           |           |           |           |
| <i>Potamothrix moldaviensis</i> |           |           | 127       | 54        |           |           | 543       |           | 36        |
| <i>P. vejdoskyi</i>             |           |           | 18        | 18        |           |           | 18        |           |           |
| Naididae                        |           |           |           |           |           |           |           |           |           |
| <i>Nais</i> sp.                 |           |           |           |           |           |           |           |           |           |
| <i>Naidium</i> sp.              |           |           |           |           |           |           |           |           |           |
| <i>Pristina</i> sp.             |           |           |           |           |           |           |           |           |           |
| <i>Stylaria</i> sp.             |           |           |           |           |           |           |           |           |           |
| <i>Uncinaxis uncinata</i> sp.   |           |           |           |           |           |           |           |           |           |
| ARTHROPODA                      |           |           |           |           |           |           |           |           |           |
| Isopoda                         |           |           |           |           |           |           |           |           |           |
| <i>Asellus</i> sp.              |           |           |           |           |           |           |           |           |           |
| Amphipoda                       |           |           |           |           |           |           |           |           |           |
| <i>Gammarus fasciatus</i>       |           |           |           |           |           | 18        |           |           |           |
| <i>Hyalella azteca</i>          |           |           |           |           |           |           |           |           |           |
| Ephemeroptera                   |           |           |           |           |           |           |           |           |           |
| <i>Caenis</i> sp.               |           |           |           |           |           |           |           |           |           |
| Trichoptera                     |           |           |           |           |           |           |           |           |           |
| <i>Athripsodes</i> sp.          |           |           |           |           |           |           |           |           |           |
| <i>Oecetis</i> sp.              |           |           |           |           |           |           |           |           |           |
| <i>Polycentropus</i> sp.        |           |           |           |           |           |           |           |           |           |

Notes:

1. Sample collection date: 7-25-73 and 8-1-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-3 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
JULY and AUGUST, 1973

| BENTHOS SPECIES                    | Sta.<br>1 | Sta.<br>2 | Sta.<br>3 | Sta.<br>4 | Sta.<br>5 | Sta.<br>6 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ARTHROPODA (Cont.)                 |           |           |           |           |           |           |           |           |           |
| Limnephilidae                      |           |           |           |           |           |           |           |           |           |
| Chironomidae                       |           |           |           |           |           |           |           |           |           |
| Chironominae                       |           |           |           |           |           |           |           |           |           |
| <i>Chironomus (Chironomus) sp.</i> |           |           | 127       | 54        |           |           | 4453      | 72        | 525       |
| <i>C. (Cryptochironomus) sp.</i>   |           |           |           |           |           |           |           |           |           |
| <i>Polypedilum sp.</i>             |           |           |           |           |           | 18        |           | 18        |           |
| <i>Pseudochironomus sp.</i>        |           |           |           |           |           |           |           |           |           |
| <i>Tanytarsus sp.</i>              |           |           |           | 54        |           |           |           |           | 18        |
| Tanypodinae                        |           |           |           |           |           |           |           |           |           |
| <i>Coelotanypus sp.</i>            |           |           |           |           |           |           |           |           |           |
| <i>Procladius sp.</i>              |           |           | 18        | 36        |           |           | 36        |           |           |
| Orthoclaadiinae                    |           |           |           |           |           |           |           |           |           |
| <i>Cricotopus sp.</i>              |           |           |           |           |           |           |           |           |           |
| <i>Psectrocladius sp.</i>          |           |           |           |           |           |           |           |           |           |
| MOLLUSCA                           |           |           |           |           |           |           |           |           |           |
| Gastropoda                         |           |           |           |           |           |           |           |           |           |
| <i>Amnicola sp.</i>                |           |           |           |           |           |           |           |           |           |
| <i>Bulimus sp.</i>                 |           |           |           |           |           |           |           |           |           |
| <i>Gyraulus sp.</i>                |           |           |           |           |           |           |           |           |           |
| <i>Physa sp.</i>                   |           |           |           |           |           |           |           |           |           |
| <i>Pleurocera-Goniobasis sp.</i>   |           |           |           |           |           |           |           |           |           |
| <i>Valvata sp.</i>                 |           |           |           |           |           |           |           |           |           |
| Pelecypoda                         |           |           |           |           |           |           |           |           |           |
| Unionidae                          |           |           |           |           |           |           |           |           |           |
| <i>Amblema plicata</i>             |           |           |           |           |           |           |           |           |           |
| <i>Lampsilis ventricosa</i>        |           |           |           |           |           |           |           |           |           |
| <i>L. radiata</i>                  |           |           |           |           |           |           |           | 18        |           |
| <i>Leptodea fragilis</i>           |           |           |           |           |           |           |           |           |           |
| <i>Ligumia recta</i>               |           |           |           |           |           |           |           |           |           |
| <i>Potamilus alatus</i>            |           |           |           |           |           |           |           |           |           |
| <i>Quadrula pustulosa</i>          |           |           |           |           |           |           |           |           |           |
| Sphaeriidae                        |           |           |           |           |           |           |           |           |           |
| <i>Pisidium sp.</i>                |           |           |           |           |           |           |           |           |           |
| <i>Sphaerium sp.</i>               |           |           |           | 18        |           |           |           |           |           |
| Total                              | 36        | 0         | 1447      | 1519      | 0         | 36        | 8000      | 597       | 923       |

Notes:

1. Sample collection date: 7-25-73 and 8-1-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-3 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
JULY and AUGUST, 1973

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| BENTHOS SAMPLES                 | Sta.<br>10 | Sta.<br>11 | Sta.<br>12 | Sta.<br>13 | Sta.<br>14 | Sta.<br>15 | Sta.<br>16 | Sta.<br>17 | Sta.<br>18 |
|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| COELENTERATA                    |            |            |            |            |            |            |            |            |            |
| <i>Hydra</i> sp.                |            |            |            |            |            |            |            |            |            |
| PLATYHELMINTHES                 |            |            |            |            |            |            |            |            |            |
| Planariidae                     |            |            |            |            |            |            |            |            |            |
| ANNELIDA                        |            |            |            |            |            |            |            |            |            |
| Hirudinea                       |            |            |            |            |            |            |            |            |            |
| <i>Glossiphonia complanata</i>  |            |            |            |            |            |            |            |            |            |
| <i>Helobdella stagnalis</i>     |            |            |            |            |            |            |            |            |            |
| <i>Helobdella elongata</i>      |            |            |            |            |            |            |            |            |            |
| Oligochaeta, Immatures          |            |            | 308        | 163        | 579        | 109        | 36         | 91         | 652        |
| Tubificidae                     |            |            |            |            |            |            |            |            |            |
| <i>Branchiura sowerbyi</i>      |            |            |            |            | 54         |            |            |            |            |
| <i>Limnodrilus cervix</i>       |            |            |            |            | 36         |            |            |            |            |
| <i>L. claparedeanus</i>         |            |            | 18         |            | 36         |            |            |            | 18         |
| <i>L. claparedeanus-cervix</i>  |            |            |            |            |            |            |            |            |            |
| <i>L. hoffmeisteri</i>          |            |            | 18         |            | 18         |            |            |            | 18         |
| <i>L. maumeensis</i>            |            |            |            |            |            |            |            |            |            |
| <i>L. udekemianus</i>           |            |            |            |            |            |            |            |            |            |
| <i>Potamothrix moldaviensis</i> |            |            | 109        | 18         |            | 72         |            | 72         | 109        |
| <i>P. vejdoskyi</i>             |            |            |            |            |            |            |            |            | 18         |
| Naididae                        |            |            |            |            |            |            |            |            |            |
| <i>Nais</i> sp.                 |            |            |            |            |            |            |            |            |            |
| <i>Naidium</i> sp.              |            |            |            |            |            |            |            |            |            |
| <i>Pristina</i> sp.             |            |            |            |            |            |            |            |            |            |
| <i>Stylaria</i> sp.             |            |            |            |            |            |            |            |            |            |
| <i>Uncinaiis uncinata</i> sp.   |            |            |            |            |            |            |            |            |            |
| ARTHROPODA                      |            |            |            |            |            |            |            |            |            |
| Isopoda                         |            |            |            |            |            |            |            |            |            |
| <i>Asellus</i> sp.              |            |            |            |            |            |            |            |            |            |
| Amphipoda                       |            |            |            |            |            |            |            |            |            |
| <i>Gammarus fasciatus</i>       |            | 36         |            |            |            |            |            |            |            |
| <i>Hyaella azteca</i>           |            |            |            |            |            |            |            |            |            |
| Ephemeroptera                   |            |            |            |            |            |            |            |            |            |
| <i>Caenis</i> sp.               |            |            |            |            |            |            |            |            |            |
| Trichoptera                     |            |            |            |            |            |            |            |            |            |
| <i>Athripsodes</i> sp.          |            |            |            |            |            |            |            |            |            |
| <i>Oecetis</i> sp.              |            |            |            |            |            |            |            |            |            |
| <i>Polycentropus</i> sp.        |            |            |            |            |            |            |            |            |            |

Notes:

1. Sample collection date: 7-25-73 and 8-1-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-3 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
JULY and AUGUST, 1973

| BENTHOS SPECIES                    | Sta.<br>10 | Sta.<br>11 | Sta.<br>12 | Sta.<br>13 | Sta.<br>14 | Sta.<br>15 | Sta.<br>16 | Sta.<br>17 | Sta.<br>18 |
|------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| ARTHROPODA (Cont.)                 |            |            |            |            |            |            |            |            |            |
| Limnephilidae                      |            |            |            |            |            |            |            |            |            |
| Chironomidae                       |            |            |            |            |            |            |            |            |            |
| Chironominae                       |            |            |            |            |            |            |            |            |            |
| <i>Chironomus (Chironomus) sp.</i> |            |            | 91         |            | 36         |            |            |            | 72         |
| <i>C. (Cryptochironomus) sp.</i>   |            |            | 36         |            |            |            |            | 18         |            |
| <i>Polypedilum sp.</i>             |            |            |            |            |            |            |            |            |            |
| <i>Pseudochironomus sp.</i>        |            |            |            |            |            |            |            |            |            |
| <i>Tanytarsus sp.</i>              |            |            |            |            |            |            |            |            |            |
| Tanypodinae                        |            |            |            |            |            |            |            |            |            |
| <i>Coelotanypus sp.</i>            |            |            |            |            |            |            |            |            |            |
| <i>Procladius sp.</i>              |            |            |            |            | 18         | 18         |            |            |            |
| Orthocladinae                      |            |            |            |            |            |            |            |            |            |
| <i>Cricotopus sp.</i>              |            |            |            |            |            |            |            |            |            |
| <i>Psectrocladius sp.</i>          |            |            |            |            |            |            |            |            |            |
| MOLLUSCA                           |            |            |            |            |            |            |            |            |            |
| Gastropoda                         |            |            |            |            |            |            |            |            |            |
| <i>Amnicola sp.</i>                |            |            |            |            |            |            |            |            |            |
| <i>Bulimus sp.</i>                 |            |            |            |            |            |            |            |            |            |
| <i>Gyraxulus sp.</i>               |            |            |            |            |            |            |            |            |            |
| <i>Physa sp.</i>                   |            |            |            |            |            |            |            |            |            |
| <i>Pleurocera-Goniobasis sp.</i>   |            |            |            |            |            |            |            |            |            |
| <i>Valvata sp.</i>                 |            |            |            |            |            |            |            |            |            |
| Pelecypoda                         |            |            |            |            |            |            |            |            |            |
| Unionidae                          |            |            |            |            |            |            |            |            |            |
| <i>Amblema plicata</i>             |            |            |            |            |            |            |            |            |            |
| <i>Lampsilis ventricosa</i>        |            |            |            |            |            |            |            |            |            |
| <i>L. radiata</i>                  |            |            |            |            |            |            |            |            |            |
| <i>Leptodea fragilis</i>           |            |            |            |            |            |            |            |            |            |
| <i>Ligumia recta</i>               |            |            |            |            |            |            |            |            |            |
| <i>Potamilus alatus</i>            |            |            |            |            |            |            |            |            |            |
| <i>Quadrula pustulosa</i>          |            |            |            |            |            |            |            |            |            |
| Sphaeriidae                        |            |            |            |            |            |            |            |            |            |
| <i>Pisidium sp.</i>                |            |            |            |            |            |            |            |            |            |
| <i>Sphaerium sp.</i>               |            |            |            |            |            |            |            |            |            |
| Total                              |            | 36         | 580        | 181        | 777        | 199        | 36         | 182        | 887        |

Notes:

1. Sample collection date: 7-25-73 and 8-1-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-3 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
JULY and AUGUST, 1973

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| BENTHOS SAMPLES                 | Sta.<br>19 | Sta.<br>20 |  |  |  |  |  |  |  |
|---------------------------------|------------|------------|--|--|--|--|--|--|--|
| COELENTERATA                    |            |            |  |  |  |  |  |  |  |
| <i>Hydra</i> sp.                |            |            |  |  |  |  |  |  |  |
| PLATYHELMINTHES                 |            |            |  |  |  |  |  |  |  |
| Planariidae                     |            |            |  |  |  |  |  |  |  |
| ANNELIDA                        |            |            |  |  |  |  |  |  |  |
| Hirudinea                       |            |            |  |  |  |  |  |  |  |
| <i>Glossiphonia complanata</i>  |            |            |  |  |  |  |  |  |  |
| <i>Helobdella stagnalis</i>     |            |            |  |  |  |  |  |  |  |
| <i>Helobdella elongata</i>      |            |            |  |  |  |  |  |  |  |
| Oligochaeta, Immatures          |            |            |  |  |  |  |  |  |  |
| Tubificidae                     |            |            |  |  |  |  |  |  |  |
| <i>Branchiura sowerbyi</i>      |            |            |  |  |  |  |  |  |  |
| <i>Limnodrilus cervix</i>       |            |            |  |  |  |  |  |  |  |
| <i>L. claparedeanus</i>         |            |            |  |  |  |  |  |  |  |
| <i>L. claparedeanus-cervix</i>  |            |            |  |  |  |  |  |  |  |
| <i>L. hoffmeisteri</i>          | 18         |            |  |  |  |  |  |  |  |
| <i>L. maumeensis</i>            |            |            |  |  |  |  |  |  |  |
| <i>L. udekemianus</i>           |            |            |  |  |  |  |  |  |  |
| <i>Potamothrix moldaviensis</i> |            |            |  |  |  |  |  |  |  |
| <i>P. vejdoskyi</i>             |            |            |  |  |  |  |  |  |  |
| Naididae                        |            |            |  |  |  |  |  |  |  |
| <i>Nais</i> sp.                 |            |            |  |  |  |  |  |  |  |
| <i>Naidium</i> sp.              |            |            |  |  |  |  |  |  |  |
| <i>Pristina</i> sp.             |            |            |  |  |  |  |  |  |  |
| <i>Stylaria</i> sp.             |            |            |  |  |  |  |  |  |  |
| <i>Uncinaxis uncinata</i> sp.   |            |            |  |  |  |  |  |  |  |
| ARTHROPODA                      |            |            |  |  |  |  |  |  |  |
| Isopoda                         |            |            |  |  |  |  |  |  |  |
| <i>Asellus</i> sp.              |            |            |  |  |  |  |  |  |  |
| Amphipoda                       |            |            |  |  |  |  |  |  |  |
| <i>Gammarus fasciatus</i>       |            |            |  |  |  |  |  |  |  |
| <i>Hyalella azteca</i>          |            |            |  |  |  |  |  |  |  |
| Ephemeroptera                   |            |            |  |  |  |  |  |  |  |
| <i>Caenis</i> sp.               |            |            |  |  |  |  |  |  |  |
| Trichoptera                     |            |            |  |  |  |  |  |  |  |
| <i>Athripsodes</i> sp.          |            |            |  |  |  |  |  |  |  |
| <i>Oecetis</i> sp.              |            |            |  |  |  |  |  |  |  |
| <i>Polycentropus</i> sp.        |            |            |  |  |  |  |  |  |  |

Notes:

1. Sample collection date: 7-25-73 and 8-1-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-3 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
JULY and AUGUST, 1973

| BENTHOS SPECIES                             | Sta.<br>19 | Sta.<br>20 |  |  |  |  |  |  |  |
|---------------------------------------------|------------|------------|--|--|--|--|--|--|--|
| ARTHROPODA (Cont.)                          |            |            |  |  |  |  |  |  |  |
| Limnephilidae                               |            |            |  |  |  |  |  |  |  |
| Chironomidae                                |            |            |  |  |  |  |  |  |  |
| Chironominae                                |            |            |  |  |  |  |  |  |  |
| <i>Chironomus</i> ( <i>Chironomus</i> ) sp. |            |            |  |  |  |  |  |  |  |
| <i>C.</i> ( <i>Cryptochironomus</i> ) sp.   |            |            |  |  |  |  |  |  |  |
| <i>Polypedilum</i> sp.                      |            |            |  |  |  |  |  |  |  |
| <i>Pseudochironomus</i> sp.                 |            |            |  |  |  |  |  |  |  |
| <i>Tanytarsus</i> sp.                       |            |            |  |  |  |  |  |  |  |
| Tanypodinae                                 |            |            |  |  |  |  |  |  |  |
| <i>Coelotanypus</i> sp.                     |            |            |  |  |  |  |  |  |  |
| <i>Procladius</i> sp.                       |            |            |  |  |  |  |  |  |  |
| Orthoclaadiinae                             |            |            |  |  |  |  |  |  |  |
| <i>Cricotopus</i> sp.                       |            |            |  |  |  |  |  |  |  |
| <i>Psectrocladius</i> sp.                   |            |            |  |  |  |  |  |  |  |
| MOLLUSCA                                    |            |            |  |  |  |  |  |  |  |
| Gastropoda                                  |            |            |  |  |  |  |  |  |  |
| <i>Amnicola</i> sp.                         |            |            |  |  |  |  |  |  |  |
| <i>Bulimus</i> sp.                          |            |            |  |  |  |  |  |  |  |
| <i>Gyraulus</i> sp.                         |            |            |  |  |  |  |  |  |  |
| <i>Physa</i> sp.                            |            |            |  |  |  |  |  |  |  |
| <i>Pleurocera-Goniobasis</i> sp.            |            |            |  |  |  |  |  |  |  |
| <i>Valvata</i> sp.                          |            |            |  |  |  |  |  |  |  |
| Pelecypoda                                  |            |            |  |  |  |  |  |  |  |
| Unionidae                                   |            |            |  |  |  |  |  |  |  |
| <i>Amblema plicata</i>                      |            |            |  |  |  |  |  |  |  |
| <i>Lampsilis ventricosa</i>                 |            |            |  |  |  |  |  |  |  |
| <i>L. radiata</i>                           |            |            |  |  |  |  |  |  |  |
| <i>Leptodea fragilis</i>                    |            |            |  |  |  |  |  |  |  |
| <i>Ligumia recta</i>                        |            |            |  |  |  |  |  |  |  |
| <i>Potamilius alatus</i>                    |            |            |  |  |  |  |  |  |  |
| <i>Quadrula pustulosa</i>                   |            |            |  |  |  |  |  |  |  |
| Sphaeriidae                                 |            |            |  |  |  |  |  |  |  |
| <i>Pisidium</i> sp.                         |            |            |  |  |  |  |  |  |  |
| <i>Sphaerium</i> sp.                        |            |            |  |  |  |  |  |  |  |
| Total                                       | 18         | 0          |  |  |  |  |  |  |  |

Notes:

1. Sample collection date: 7-25-73 and 8-1-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-4  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
AUGUST, 1973

| BENTHOS SAMPLES                 | Sta.<br>1 | Sta.<br>2 | Sta.<br>3 | Sta.<br>4 | Sta.<br>5 | Sta.<br>6 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| COELENTERATA                    |           |           |           |           |           |           |           |           |           |
| <i>Hydra</i> sp.                |           |           |           |           |           |           |           |           |           |
| PLATYHELMINTHES                 |           |           |           |           |           |           |           |           |           |
| Planariidae                     |           |           |           |           |           |           |           |           |           |
| ANNELIDA                        |           |           |           |           |           |           |           |           |           |
| Hirudinea                       |           |           |           |           |           |           |           |           |           |
| <i>Glossiphonia complanata</i>  |           |           |           |           |           |           |           |           |           |
| <i>Helobdella stagnalis</i>     |           |           |           |           |           |           |           |           |           |
| <i>Helobdella elongata</i>      |           |           |           |           |           |           |           |           |           |
| Oligochaeta, Immatures          |           | 127       |           | 1629      |           |           |           | 18        | 1520      |
| Tubificidae                     |           |           |           |           |           |           |           |           |           |
| <i>Branchiura sowerbyi</i>      |           | 18        |           | 18        |           |           |           |           |           |
| <i>Limnodrilus cervix</i>       |           | 18        |           | 18        |           |           |           |           |           |
| <i>L. claparedeanus</i>         |           |           |           |           |           |           |           |           |           |
| <i>L. claparedeanus-cervix</i>  |           |           |           |           |           |           |           |           |           |
| <i>L. hoffmeisteri</i>          |           |           |           |           |           |           |           |           |           |
| <i>L. maumeensis</i>            |           |           |           |           |           |           |           |           |           |
| <i>L. udekemianus</i>           |           |           |           |           |           |           |           |           |           |
| <i>Potamothrix moldaviensis</i> |           |           |           | 36        |           |           |           |           | 18        |
| <i>P. vejdoskyi</i>             |           |           |           |           |           |           |           |           |           |
| Naididae                        |           |           |           |           |           |           |           |           |           |
| <i>Nais</i> sp.                 |           |           |           |           |           |           |           |           |           |
| <i>Naidium</i> sp.              |           |           |           |           |           |           |           |           |           |
| <i>Pristina</i> sp.             |           |           |           | 18        |           |           |           |           |           |
| <i>Stylaria</i> sp.             |           |           |           |           |           |           |           |           |           |
| <i>Uncinaxis uncinata</i> sp.   |           |           |           |           |           |           |           |           |           |
| ARTHROPODA                      |           |           |           |           |           |           |           |           |           |
| Isopoda                         |           |           |           |           |           |           |           |           |           |
| <i>Asellus</i> sp.              |           |           |           |           |           |           |           |           |           |
| Amphipoda                       |           |           |           |           |           |           |           |           |           |
| <i>Gammarus fasciatus</i>       |           |           |           |           | 54        |           |           |           |           |
| <i>Hyalella azteca</i>          |           |           |           |           |           |           |           |           |           |
| Ephemeroptera                   |           |           |           |           |           |           |           |           |           |
| <i>Caenis</i> sp.               |           |           |           |           |           |           |           |           |           |
| Trichoptera                     |           |           |           |           |           |           |           |           |           |
| <i>Athripsodes</i> sp.          |           |           |           |           |           |           |           |           |           |
| <i>Oecetis</i> sp.              |           |           |           |           |           |           |           |           |           |
| <i>Polycentropus</i> sp.        |           |           |           |           |           |           |           |           |           |

Notes:

1. Sample collection date: 8-23-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-4 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
AUGUST, 1973

| BENTHOS SPECIES                             | Sta.<br>1 | Sta.<br>2 | Sta.<br>3 | Sta.<br>4 | Sta.<br>5 | Sta.<br>6 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 |
|---------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ARTHROPODA (Cont.)                          |           |           |           |           |           |           |           |           |           |
| Limnephilidae                               |           |           |           |           |           |           |           |           |           |
| Chironomidae                                |           |           |           |           |           |           |           |           |           |
| Chironominae                                |           |           |           |           |           |           |           |           |           |
| <i>Chironomus</i> ( <i>Chironomus</i> ) sp. |           | 72        |           | 145       |           | 18        |           |           | 181       |
| <i>C. (Cryptochironomus)</i> sp.            |           |           |           |           |           |           |           |           |           |
| <i>Polypedilum</i> sp.                      |           |           |           |           |           |           |           |           |           |
| <i>Pseudochironomus</i> sp.                 |           |           |           |           |           |           |           |           |           |
| <i>Tanytarsus</i> sp.                       |           |           |           | 778       |           |           |           |           | 489       |
| <i>Glyptotendipes</i> sp.                   |           |           |           |           | 18        |           |           |           |           |
| Tanypodinae                                 |           |           |           |           |           |           |           |           |           |
| <i>Coelotanypus</i> sp.                     |           |           |           |           | 18        |           |           |           | 54        |
| <i>Procladius</i> sp.                       |           | 18        |           |           |           |           |           |           | 18        |
| Orthocladiinae                              |           |           |           |           |           |           |           |           |           |
| <i>Cricotopus</i> sp.                       |           |           |           |           |           |           |           |           |           |
| <i>Psectrocladius</i> sp.                   |           |           |           |           |           |           |           |           |           |
| MOLLUSCA                                    |           |           |           |           |           |           |           |           |           |
| Gastropoda                                  |           |           |           |           |           |           |           |           |           |
| <i>Amnicola</i> sp.                         |           |           |           |           |           |           |           |           |           |
| <i>Bulimus</i> sp.                          |           |           |           |           |           |           |           |           |           |
| <i>Gyraculus</i> sp.                        |           |           |           |           |           |           |           |           |           |
| <i>Physa</i> sp.                            |           |           |           |           |           |           |           |           |           |
| <i>Pleurocera-Goniobasis</i> sp.            |           |           |           |           |           |           |           |           |           |
| <i>Valvata</i> sp.                          |           |           |           |           |           |           |           |           |           |
| Pelecypoda                                  |           |           |           |           |           |           |           |           |           |
| Unionidae                                   |           |           |           |           |           |           |           |           |           |
| <i>Amblema plicata</i>                      |           |           |           |           |           |           |           |           |           |
| <i>Lampsilis ventricosa</i>                 |           |           |           |           |           |           |           |           |           |
| <i>L. radiata</i>                           |           |           |           |           |           |           |           |           |           |
| <i>Leptodea fragilis</i>                    |           |           |           |           |           |           |           |           |           |
| <i>Ligumia recta</i>                        |           |           |           |           |           |           |           |           |           |
| <i>Potamilus alatus</i>                     |           |           |           |           |           |           |           |           |           |
| <i>Quadrula pustulosa</i>                   |           |           |           |           |           |           |           |           |           |
| Sphaeriidae                                 |           |           |           |           |           |           |           |           |           |
| <i>Pisidium</i> sp.                         |           |           |           |           |           |           |           |           |           |
| <i>Sphaerium</i> sp.                        |           |           |           |           |           |           |           |           |           |
| Total                                       |           | 253       |           | 2643      | 91        | 18        |           | 18        | 2280      |

Notes:

1. Sample collection date: 8-23-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-4 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
AUGUST, 1973

| BENTHOS SAMPLES                 | Sta.<br>10 | Sta.<br>11 | Sta.<br>12 | Sta.<br>13 | Sta.<br>14 | Sta.<br>15 | Sta.<br>16 | Sta.<br>17 | Sta.<br>18 |
|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| COELENTERATA                    |            |            |            |            |            |            |            |            |            |
| <i>Hydra</i> sp.                |            |            |            |            |            |            |            |            |            |
| PLATYHELMINTHES                 |            |            |            |            |            |            |            |            |            |
| Planariidae                     |            |            |            |            |            |            |            |            |            |
| ANNELIDA                        |            |            |            |            |            |            |            |            |            |
| Hirudinea                       |            |            |            |            |            |            |            |            |            |
| <i>Glossiphonia complanata</i>  |            |            |            |            |            |            |            |            |            |
| <i>Helobdella stagnalis</i>     |            |            |            |            |            |            |            |            |            |
| <i>Helobdella elongata</i>      |            |            |            |            |            |            |            |            |            |
| Oligochaeta, Immatures          | 181        | 199        |            | 326        |            |            | 36         |            |            |
| Tubificidae                     |            |            |            |            |            |            |            |            |            |
| <i>Branchiura sowerbyi</i>      |            |            |            |            |            |            |            |            |            |
| <i>Limnodrilus cervix</i>       |            |            |            |            |            |            |            |            |            |
| <i>L. claparedeanus</i>         |            |            |            | 18         |            |            |            |            |            |
| <i>L. claparedeanus-cervix</i>  |            |            |            |            |            |            |            |            |            |
| <i>L. hoffmeisteri</i>          |            |            |            |            |            |            |            |            |            |
| <i>L. maumeensis</i>            |            |            |            |            |            |            |            |            |            |
| <i>L. udekemianus</i>           |            |            |            |            |            |            |            |            |            |
| <i>Potamothrix moldaviensis</i> |            | 18         |            |            |            |            | 18         |            |            |
| <i>P. vejdoskyi</i>             |            |            |            |            |            |            |            |            |            |
| Naididae                        |            |            |            |            |            |            |            |            |            |
| <i>Nais</i> sp.                 |            |            |            |            |            |            |            |            |            |
| <i>Naidium</i> sp.              |            |            |            |            |            |            |            |            |            |
| <i>Pristina</i> sp.             |            |            |            |            |            |            |            |            |            |
| <i>Stylaria</i> sp.             |            |            |            |            |            |            |            |            |            |
| <i>Uncinaxis uncinata</i> sp.   |            |            |            |            |            |            |            |            |            |
| ARTHROPODA                      |            |            |            |            |            |            |            |            |            |
| Isopoda                         |            |            |            |            |            |            |            |            |            |
| <i>Asellus</i> sp.              |            |            |            |            |            |            |            |            |            |
| Amphipoda                       |            |            |            |            |            |            |            |            |            |
| <i>Gammarus fasciatus</i>       |            | 18         |            |            |            |            |            |            |            |
| <i>Hyaella arctica</i>          |            |            |            |            |            |            |            |            |            |
| Ephemeroptera                   |            |            |            |            |            |            |            |            |            |
| <i>Caenis</i> sp.               |            |            |            |            |            |            |            |            |            |
| Trichoptera                     |            |            |            |            |            |            |            |            |            |
| <i>Athripsodes</i> sp.          |            |            |            |            |            |            |            |            |            |
| <i>Oecetis</i> sp.              |            |            |            |            |            |            |            |            |            |
| <i>Polycentropus</i> sp.        |            |            |            |            |            |            |            |            |            |

Notes:

1. Sample collection date: 8-23-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-4 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
AUGUST, 1973

| BENTHOS SPECIES                    | Sta.<br>10 | Sta.<br>11 | Sta.<br>12 | Sta.<br>13 | Sta.<br>14 | Sta.<br>15 | Sta.<br>16 | Sta.<br>17 | Sta.<br>18 |
|------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| ARTHROPODA (Cont.)                 |            |            |            |            |            |            |            |            |            |
| Limnephilidae                      |            |            |            |            |            |            |            |            |            |
| Chironomidae                       |            |            |            |            |            |            |            |            |            |
| Chironominae                       |            |            |            |            |            |            |            |            |            |
| <i>Chironomus (Chironomus) sp.</i> | 18         |            |            | 163        |            |            | 18         |            |            |
| <i>C. (Cryptochironomus) sp.</i>   |            | 36         |            |            |            |            |            |            |            |
| <i>Polyvedilum sp.</i>             | 54         | 18         |            |            |            |            |            |            |            |
| <i>Pseudochironomus sp.</i>        |            |            |            |            |            |            |            |            |            |
| <i>Tanytarsus sp.</i>              |            |            |            |            |            |            |            |            |            |
| Tanypodinae                        |            |            |            |            |            |            |            |            |            |
| <i>Coelotanypus sp.</i>            |            |            |            |            |            |            |            |            |            |
| <i>Procladius sp.</i>              |            |            |            |            |            |            |            |            |            |
| Orthoclaadiinae                    |            |            |            |            |            |            |            |            |            |
| <i>Cricotopus sp.</i>              |            |            |            |            |            |            |            |            |            |
| <i>Psectrocladius sp.</i>          |            |            |            |            |            |            |            |            |            |
| MOLLUSCA                           |            |            |            |            |            |            |            |            |            |
| Gastropoda                         |            |            |            |            |            |            |            |            |            |
| <i>Amnicola sp.</i>                |            |            |            |            |            |            |            |            |            |
| <i>Bulimus sp.</i>                 |            |            |            |            |            |            |            |            |            |
| <i>Gyraulus sp.</i>                |            |            |            |            |            |            |            |            |            |
| <i>Physa sp.</i>                   |            |            |            |            |            |            |            |            |            |
| <i>Pleurocera-Goniobasis sp.</i>   |            |            |            |            |            |            |            |            |            |
| <i>Valvata sp.</i>                 |            |            |            |            |            |            |            |            |            |
| Pelecypoda                         |            |            |            |            |            |            |            |            |            |
| Unionidae                          |            |            |            |            |            |            |            |            |            |
| <i>Amblema plicata</i>             |            |            |            |            |            |            |            |            |            |
| <i>Lampsilis ventricosa</i>        |            |            |            |            |            |            |            |            |            |
| <i>L. radiata</i>                  |            |            |            |            |            |            |            |            |            |
| <i>Leptodea fragilis</i>           |            |            |            |            |            |            |            |            |            |
| <i>Ligumia recta</i>               |            |            |            |            |            |            |            |            |            |
| <i>Potamilus alatus</i>            |            |            |            |            |            |            |            |            |            |
| <i>Quadrula pustulosa</i>          |            |            |            |            |            |            |            |            |            |
| Sphaeriidae                        |            |            |            |            |            |            |            |            |            |
| <i>Pisidium sp.</i>                |            |            |            |            |            |            |            |            |            |
| <i>Sphaerium sp.</i>               |            |            |            |            |            |            |            |            |            |
| Total                              | 253        | 289        |            | 507        |            |            | 72         |            |            |

## Notes:

1. Sample collection date: 8-23-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-4 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
AUGUST, 1973

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| BENTHOS SAMPLES                 | Sta.<br>19 | Sta.<br>20 |  |  |  |  |  |  |  |
|---------------------------------|------------|------------|--|--|--|--|--|--|--|
| COELENTERATA                    |            |            |  |  |  |  |  |  |  |
| <i>Hydra</i> sp.                |            |            |  |  |  |  |  |  |  |
| PLATYHELMINTHES                 |            |            |  |  |  |  |  |  |  |
| Planariidae                     |            |            |  |  |  |  |  |  |  |
| ANNELIDA                        |            |            |  |  |  |  |  |  |  |
| Hirudinea                       |            |            |  |  |  |  |  |  |  |
| <i>Glossiphonia complanata</i>  |            |            |  |  |  |  |  |  |  |
| <i>Helobdella stagnalis</i>     |            |            |  |  |  |  |  |  |  |
| <i>Helobdella elongata</i>      |            |            |  |  |  |  |  |  |  |
| Oligochaeta, Immatures          |            |            |  |  |  |  |  |  |  |
| Tubificidae                     |            |            |  |  |  |  |  |  |  |
| <i>Branchyura sowerbyi</i>      |            |            |  |  |  |  |  |  |  |
| <i>Limnodrilus cervix</i>       |            |            |  |  |  |  |  |  |  |
| <i>L. claparedeanus</i>         |            |            |  |  |  |  |  |  |  |
| <i>L. claparedeanus-cervix</i>  |            |            |  |  |  |  |  |  |  |
| <i>L. hoffmeisteri</i>          |            |            |  |  |  |  |  |  |  |
| <i>L. maximeensis</i>           |            |            |  |  |  |  |  |  |  |
| <i>L. udekemianus</i>           |            |            |  |  |  |  |  |  |  |
| <i>Potamothrix moldaviensis</i> |            |            |  |  |  |  |  |  |  |
| <i>P. vejvodskyi</i>            |            |            |  |  |  |  |  |  |  |
| Naididae                        |            |            |  |  |  |  |  |  |  |
| <i>Nais</i> sp.                 |            |            |  |  |  |  |  |  |  |
| <i>Naidium</i> sp.              |            |            |  |  |  |  |  |  |  |
| <i>Pristina</i> sp.             |            |            |  |  |  |  |  |  |  |
| <i>Stylaria</i> sp.             |            |            |  |  |  |  |  |  |  |
| <i>Uncinaxis uncinata</i> sp.   |            |            |  |  |  |  |  |  |  |
| ARTHROPODA                      |            |            |  |  |  |  |  |  |  |
| Isopoda                         |            |            |  |  |  |  |  |  |  |
| <i>Asellus</i> sp.              |            |            |  |  |  |  |  |  |  |
| Amphipoda                       |            |            |  |  |  |  |  |  |  |
| <i>Gammarus fasciatus</i>       |            |            |  |  |  |  |  |  |  |
| <i>Hyaella azteca</i>           |            |            |  |  |  |  |  |  |  |
| Ephemeroptera                   |            |            |  |  |  |  |  |  |  |
| <i>Caenis</i> sp.               |            |            |  |  |  |  |  |  |  |
| Trichoptera                     |            |            |  |  |  |  |  |  |  |
| <i>Athripsodes</i> sp.          |            |            |  |  |  |  |  |  |  |
| <i>Oecetis</i> sp.              |            |            |  |  |  |  |  |  |  |
| <i>Polycentropus</i> sp.        |            |            |  |  |  |  |  |  |  |

Notes:

1. Sample collection date: 8-23-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-4 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
AUGUST, 1973

| BENTHOS SPECIES                             | Sta.<br>19 | Sta.<br>20 |  |  |  |  |  |  |  |
|---------------------------------------------|------------|------------|--|--|--|--|--|--|--|
| ARTHROPODA (Cont.)                          |            |            |  |  |  |  |  |  |  |
| Limnephilidae                               |            |            |  |  |  |  |  |  |  |
| Chironomidae                                |            |            |  |  |  |  |  |  |  |
| Chironominae                                |            |            |  |  |  |  |  |  |  |
| <i>Chironomus</i> ( <i>Chironomus</i> ) sp. |            |            |  |  |  |  |  |  |  |
| <i>C.</i> ( <i>Cryptochironomus</i> ) sp.   |            |            |  |  |  |  |  |  |  |
| <i>Polypedilum</i> sp.                      |            |            |  |  |  |  |  |  |  |
| <i>Pseudochironomus</i> sp.                 |            |            |  |  |  |  |  |  |  |
| <i>Tanytarsus</i> sp.                       |            |            |  |  |  |  |  |  |  |
| Tanypodinae                                 |            |            |  |  |  |  |  |  |  |
| <i>Coelctanypus</i> sp.                     |            |            |  |  |  |  |  |  |  |
| <i>Procladius</i> sp.                       |            |            |  |  |  |  |  |  |  |
| Orthoclaadiinae                             |            |            |  |  |  |  |  |  |  |
| <i>Cricotopus</i> sp.                       |            |            |  |  |  |  |  |  |  |
| <i>Psectrocladius</i> sp.                   |            |            |  |  |  |  |  |  |  |
| MOLLUSCA                                    |            |            |  |  |  |  |  |  |  |
| Gastropoda                                  |            |            |  |  |  |  |  |  |  |
| <i>Amnicola</i> sp.                         |            |            |  |  |  |  |  |  |  |
| <i>Bulinus</i> sp.                          |            |            |  |  |  |  |  |  |  |
| <i>Gyraulus</i> sp.                         |            |            |  |  |  |  |  |  |  |
| <i>Physa</i> sp.                            |            |            |  |  |  |  |  |  |  |
| <i>Pleurocera-Goniobasis</i> sp.            |            |            |  |  |  |  |  |  |  |
| <i>Valvata</i> sp.                          |            |            |  |  |  |  |  |  |  |
| Pelecypoda                                  |            |            |  |  |  |  |  |  |  |
| Unionidae                                   |            |            |  |  |  |  |  |  |  |
| <i>Amblema plicata</i>                      |            |            |  |  |  |  |  |  |  |
| <i>Lampsilis ventricosa</i>                 |            |            |  |  |  |  |  |  |  |
| <i>L. radiata</i>                           |            |            |  |  |  |  |  |  |  |
| <i>Leptodea fragilis</i>                    |            |            |  |  |  |  |  |  |  |
| <i>Ligumia recta</i>                        |            |            |  |  |  |  |  |  |  |
| <i>Potamilus alatus</i>                     |            |            |  |  |  |  |  |  |  |
| <i>Quadrula pustulosa</i>                   |            |            |  |  |  |  |  |  |  |
| Sphaeriidae                                 |            |            |  |  |  |  |  |  |  |
| <i>Pisidium</i> sp.                         |            |            |  |  |  |  |  |  |  |
| <i>Sphaerium</i> sp.                        |            |            |  |  |  |  |  |  |  |
| Total                                       |            |            |  |  |  |  |  |  |  |

Notes:

1. Sample collection date: 8-23-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-5  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
SEPTEMBER, 1973

| BENTHOS SAMPLES                  | Sta.<br>1 | Sta.<br>2 | Sta.<br>3 | Sta.<br>4 | Sta.<br>5 | Sta.<br>6 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| COELENTERATA                     |           |           |           |           |           |           |           |           |           |
| <i>Hydra</i> sp.                 | 18        |           |           |           |           |           |           |           |           |
| PLATYHELMINTHES                  |           |           |           |           |           |           |           |           |           |
| Planariidae                      |           |           |           |           |           |           |           |           |           |
| ANNELIDA                         |           |           |           |           |           |           |           |           |           |
| Hirudinea                        |           |           |           |           |           |           |           |           |           |
| <i>Glossiphonia complanata</i>   |           |           |           |           |           |           |           |           |           |
| <i>Helobdella stagnalis</i>      |           |           |           |           |           |           |           |           |           |
| <i>Helobdella elongata</i>       |           |           |           |           |           |           |           |           |           |
| Oligochaeta, Immatures           | 145       | 199       | 1611      | 2082      |           | 91        | 91        | 3005      | 1937      |
| Tubificidae                      |           |           |           |           |           |           |           |           |           |
| <i>Branchiura sowerbyi</i>       |           |           |           | 91        |           | 18        |           |           |           |
| <i>Limnodrilus cervix</i>        |           |           | 72        | 72        |           |           |           |           | 181       |
| <i>L. claparedeanus</i>          |           |           | 72        | 18        |           |           |           |           | 91        |
| <i>L. claparedeanus-cervix</i>   |           |           |           |           |           |           |           |           |           |
| <i>L. hoffmeisteri</i>           |           |           | 36        |           |           |           |           |           | 54        |
| <i>L. maumeensis</i>             |           |           | 72        |           |           |           |           |           |           |
| <i>L. udekemianus</i>            |           |           |           |           |           |           |           |           |           |
| <i>Potamothrrix moldaviensis</i> |           |           | 54        | 18        |           |           |           |           |           |
| <i>P. vejdoskyi</i>              |           |           |           |           |           |           |           |           |           |
| Naididae                         |           |           |           |           |           |           |           |           |           |
| <i>Nais</i> sp.                  |           |           |           |           |           |           |           |           |           |
| <i>Naidium</i> sp.               |           |           |           |           |           |           |           |           |           |
| <i>Pristina</i> sp.              |           |           |           |           |           |           |           |           |           |
| <i>Stylaria</i> sp.              |           |           |           |           |           |           |           |           |           |
| <i>Uncinaxis uncinata</i> sp.    |           |           |           |           |           |           |           |           |           |
| ARTHROPODA                       |           |           |           |           |           |           |           |           |           |
| Isopoda                          |           |           |           |           |           |           |           |           |           |
| <i>Asellus</i> sp.               |           |           |           |           |           |           |           |           |           |
| Amphipoda                        |           |           |           |           |           |           |           |           |           |
| <i>Gammarus fasciatus</i>        |           |           |           |           | 36        |           |           |           |           |
| <i>Hyaella azteca</i>            |           |           |           |           |           |           |           |           |           |
| Ephemeroptera                    |           |           |           |           |           |           |           |           |           |
| <i>Caenis</i> sp.                |           |           |           |           |           |           |           |           |           |
| Trichoptera                      |           |           |           |           |           |           |           |           |           |
| <i>Athripsodes</i> sp.           |           |           |           |           |           |           |           |           |           |
| <i>Oecetis</i> sp.               |           |           |           |           |           |           |           |           |           |
| <i>Polycentropus</i> sp.         |           |           |           |           |           |           |           |           |           |

Notes:

1. Sample collection date: 9-19-73 and 9-26-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-5 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
SEPTEMBER, 1973

| BENTHOS SPECIES                    | Sta.<br>1 | Sta.<br>2 | Sta.<br>3 | Sta.<br>4 | Sta.<br>5 | Sta.<br>6 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ARTHROPODA (Cont.)                 |           |           |           |           |           |           |           |           |           |
| Limnephilidae                      |           |           |           |           |           |           |           |           |           |
| Chironomidae                       |           |           |           |           |           |           |           |           |           |
| Chironominae                       |           |           |           |           |           |           |           |           |           |
| <i>Chironomus (Chironomus) sp.</i> | 18        | 54        | 199       | 235       |           |           |           | 36        |           |
| <i>C. (Cryptochironomus) sp.</i>   |           |           |           |           |           | 36        |           | 18        |           |
| <i>Polypedilum sp.</i>             | 18        |           |           |           |           |           |           |           |           |
| <i>Pseudochironomus sp.</i>        | 18        |           |           |           |           |           |           |           |           |
| <i>Tanytarsus sp.</i>              | 36        | 72        | 36        |           |           |           |           | 36        | 54        |
| <i>C. (Dicroptendipes)</i>         |           |           |           |           |           | 18        |           |           |           |
| Tanypodinae                        |           |           |           |           |           |           |           |           |           |
| <i>Coelotanypus sp.</i>            |           |           | 18        |           |           |           |           |           |           |
| <i>Procladius sp.</i>              |           |           | 18        | 18        |           |           |           |           |           |
| Orthocladiinae                     |           |           |           |           |           |           |           |           |           |
| <i>Cricotopus sp.</i>              |           |           |           |           |           |           |           |           |           |
| <i>Psectrocladius sp.</i>          |           |           |           |           |           |           |           |           |           |
| MOLLUSCA                           |           |           |           |           |           |           |           |           |           |
| Gastropoda                         |           |           |           |           |           |           |           |           |           |
| <i>Amnicola sp.</i>                |           |           |           |           |           |           |           |           |           |
| <i>Bulimus sp.</i>                 |           |           |           |           |           |           |           |           |           |
| <i>Gyraculus sp.</i>               |           |           |           |           |           |           |           |           |           |
| <i>Physa sp.</i>                   |           |           |           |           |           |           |           |           |           |
| <i>Pleurocera-Goniobasis sp.</i>   |           |           |           |           |           |           |           |           |           |
| <i>Valvata sp.</i>                 |           |           |           |           |           |           |           |           |           |
| Pelecypoda                         |           |           |           |           |           |           |           |           |           |
| Unionidae                          |           |           |           |           |           |           |           |           |           |
| <i>Amblema plicata</i>             |           |           |           |           |           |           |           |           |           |
| <i>Lamosilis ventricosa</i>        |           |           |           |           |           |           |           |           |           |
| <i>L. radiata</i>                  |           |           |           |           |           |           |           |           |           |
| <i>Leptodea fragilis</i>           |           |           |           |           |           |           |           |           |           |
| <i>Ligumia recta</i>               |           |           |           |           |           |           |           |           |           |
| <i>Potamilus alatus</i>            |           |           |           |           |           |           |           |           |           |
| <i>Quadrula pustulosa</i>          |           |           |           |           |           |           |           |           |           |
| Sphaeriidae                        |           |           |           |           |           |           |           |           |           |
| <i>Pisidium sp.</i>                |           |           |           |           |           |           |           |           |           |
| <i>Sphaerium sp.</i>               |           |           | 18        |           |           |           | 18        |           |           |
| Total                              | 253       | 325       | 2206      | 2534      | 36        | 163       | 109       | 3095      | 2317      |

Notes:

1. Sample collection date: 9-19-73 and 9-26-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-5 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
SEPTEMBER, 1973

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| BENTHOS SAMPLES                  | Sta.<br>10 | Sta.<br>11 | Sta.<br>12 | Sta.<br>13 | Sta.<br>14 | Sta.<br>15 | Sta.<br>16 | Sta.<br>17 | Sta.<br>18 |
|----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| COELENTERATA                     |            |            |            |            |            |            |            |            |            |
| <i>Hydra</i> sp.                 |            |            |            |            |            |            | 18         |            |            |
| PLATYHELMINTHES                  |            |            |            |            |            |            |            |            |            |
| Planariidae                      |            |            |            |            |            |            |            |            |            |
| ANNELIDA                         |            |            |            |            |            |            |            |            |            |
| Hirudinea                        |            |            |            |            |            |            |            |            |            |
| <i>Glossiphonia complanata</i>   |            |            |            |            |            |            |            |            |            |
| <i>Helobdella stagnalis</i>      |            |            |            |            |            |            |            |            |            |
| <i>Helobdella elongata</i>       |            |            |            |            |            |            |            |            |            |
| Oligochaeta, Immatures           | 181        |            | 27         | 2299       | 706        | 3964       | 706        | 597        | 2625       |
| Tubificidae                      |            |            |            |            |            |            |            |            |            |
| <i>Branchiura sowerbyi</i>       |            |            |            |            |            | 91         |            |            |            |
| <i>Limnodrilus cervix</i>        | 18         |            |            | 127        | 36         | 235        |            | 18         | 235        |
| <i>L. claparedeanus</i>          |            |            |            |            |            |            |            |            | 91         |
| <i>L. claparedeanus-cervix</i>   |            |            |            |            |            |            |            |            | 91         |
| <i>L. hoffmeisteri</i>           |            |            |            | 272        | 18         | 181        |            |            | 181        |
| <i>L. maumeensis</i>             |            |            |            | 54         |            | 54         |            |            | 36         |
| <i>L. udekemianus</i>            |            |            |            |            |            |            |            |            |            |
| <i>Potamothenix moldaviensis</i> |            |            |            |            |            |            | 91         | 109        |            |
| <i>P. vejdoskyi</i>              |            |            |            |            |            |            |            |            |            |
| Naididae                         |            |            |            |            |            |            |            |            |            |
| <i>Nais</i> sp.                  |            |            |            |            |            |            |            |            |            |
| <i>Naidium</i> sp.               |            |            |            |            |            |            |            |            |            |
| <i>Pristina</i> sp.              |            |            |            |            |            |            |            |            |            |
| <i>Stylaria</i> sp.              |            |            |            |            |            |            |            |            |            |
| <i>Uncinaxis uncinata</i> sp.    |            |            |            |            |            |            |            |            |            |
| ARTHROPODA                       |            |            |            |            |            |            |            |            |            |
| Isopoda                          |            |            |            |            |            |            |            |            |            |
| <i>Asellus</i> sp.               |            |            |            |            |            |            |            |            |            |
| Amphipoda                        |            |            |            |            |            |            |            |            |            |
| <i>Gammarus fasciatus</i>        |            | 18         |            |            |            |            |            |            |            |
| <i>Hyaella azteca</i>            |            |            |            |            |            |            |            |            |            |
| Ephemeroptera                    |            |            |            |            |            |            |            |            |            |
| <i>Caenis</i> sp.                |            |            |            |            |            |            |            |            |            |
| Trichoptera                      |            |            |            |            |            |            |            |            |            |
| <i>Athripsodes</i> sp.           |            |            |            |            |            |            |            |            |            |
| <i>Oecetis</i> sp.               |            |            |            |            |            |            |            |            |            |
| <i>Polycentropus</i> sp.         |            |            |            |            |            |            |            |            |            |

Notes:

1. Sample collection date: 9-19-73 and 9-26-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-5 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
SEPTEMBER, 1973

| BENTHOS SPECIES                             | Sta.<br>10 | Sta.<br>11 | Sta.<br>12 | Sta.<br>13 | Sta.<br>14 | Sta.<br>15 | Sta.<br>16 | Sta.<br>17 | Sta.<br>18 |
|---------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| ARTHROPODA (Cont.)                          |            |            |            |            |            |            |            |            |            |
| Limnephilidae                               |            |            |            |            |            |            |            |            |            |
| Chironomidae                                |            |            |            |            |            |            |            |            |            |
| Chironominae                                |            |            |            |            |            |            |            |            |            |
| <i>Chironomus</i> ( <i>Chironomus</i> ) sp. |            | 18         |            | 72         |            | 109        |            | 109        | 54         |
| <i>C. (Cryptochironomus)</i> sp.            |            |            |            | 18         |            | 18         |            |            | 36         |
| <i>Polypedilum</i> sp.                      |            |            |            |            |            |            |            |            |            |
| <i>Pseudochironomus</i> sp.                 |            |            |            |            |            |            |            |            |            |
| <i>Tanytarsus</i> sp.                       |            |            |            |            |            | 18         |            |            |            |
| Tanypodinae                                 |            |            |            |            |            |            |            |            |            |
| <i>Coelotanypus</i> sp.                     |            |            |            | 54         |            | 127        |            | 18         | 18         |
| <i>Procladius</i> sp.                       | 18         |            |            |            |            | 18         |            | 54         | 54         |
| Orthoclaadiinae                             |            |            |            |            |            |            |            |            |            |
| <i>Cricotopus</i> sp.                       |            |            |            |            |            |            |            |            |            |
| <i>Psectrocladius</i> sp.                   |            |            |            |            |            |            |            |            |            |
| MOLLUSCA                                    |            |            |            |            |            |            |            |            |            |
| Gastropoda                                  |            |            |            |            |            |            |            |            |            |
| <i>Amnicola</i> sp.                         |            |            |            |            |            |            |            |            |            |
| <i>Bulimus</i> sp.                          |            |            |            |            |            |            |            |            |            |
| <i>Gyraulus</i> sp.                         |            |            |            |            |            |            |            |            |            |
| <i>Physa</i> sp.                            |            |            |            |            |            |            |            |            |            |
| <i>Pleurocera-Goniobasis</i> sp.            |            |            |            |            |            |            |            |            |            |
| <i>Valvata</i> sp.                          |            |            |            |            |            |            |            |            |            |
| Pelecypoda                                  |            |            |            |            |            |            |            |            |            |
| Unionidae                                   |            |            |            |            |            |            |            |            |            |
| <i>Amblema plicata</i>                      |            |            |            |            |            |            |            |            |            |
| <i>Lampsilis ventricosa</i>                 |            |            |            |            |            |            |            |            |            |
| <i>L. radiata</i>                           |            |            |            |            |            |            |            |            |            |
| <i>Leptodea fragilis</i>                    |            |            |            |            |            |            |            |            |            |
| <i>Ligumia recta</i>                        |            |            |            |            |            |            |            |            |            |
| <i>Potamilus alatus</i>                     |            |            |            |            |            |            |            |            |            |
| <i>Quadrula pustulosa</i>                   |            |            |            |            |            |            |            |            |            |
| Sphaeriidae                                 |            |            |            |            |            |            |            |            |            |
| <i>Pisidium</i> sp.                         |            |            |            |            |            |            |            |            |            |
| <i>Sphaerium</i> sp.                        |            | 18         |            |            |            | 18         |            |            |            |
| Total                                       | 217        | 54         | 27         | 2897       | 760        | 4833       | 815        | 905        | 3421       |

Notes:

1. Sample collection date: 9-19-73 and 9-26-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-5 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
SEPTEMBER, 1973

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| BENTHOS SAMPLES                 | Sta.<br>19 | Sta.<br>20 |  |  |  |  |  |  |  |
|---------------------------------|------------|------------|--|--|--|--|--|--|--|
| COELENTERATA                    |            |            |  |  |  |  |  |  |  |
| <i>Hydra</i> sp.                |            |            |  |  |  |  |  |  |  |
| PLATYHELMINTHES                 |            |            |  |  |  |  |  |  |  |
| Planariidae                     |            |            |  |  |  |  |  |  |  |
| ANNELIDA                        |            |            |  |  |  |  |  |  |  |
| Hirudinea                       |            |            |  |  |  |  |  |  |  |
| <i>Glossiphonia complanata</i>  |            |            |  |  |  |  |  |  |  |
| <i>Helobdella stagnalis</i>     |            |            |  |  |  |  |  |  |  |
| <i>Helobdella elongata</i>      |            |            |  |  |  |  |  |  |  |
| Oligochaeta, Immatures          |            |            |  |  |  |  |  |  |  |
| Tubificidae                     |            |            |  |  |  |  |  |  |  |
| <i>Branchiura sowerbyi</i>      |            |            |  |  |  |  |  |  |  |
| <i>Limnodrilus cervix</i>       | 18         |            |  |  |  |  |  |  |  |
| <i>L. claparedeanus</i>         |            |            |  |  |  |  |  |  |  |
| <i>L. claparedeanus-cervix</i>  |            |            |  |  |  |  |  |  |  |
| <i>L. hoffmeisteri</i>          |            |            |  |  |  |  |  |  |  |
| <i>L. maumeensis</i>            |            |            |  |  |  |  |  |  |  |
| <i>L. udekemianus</i>           |            |            |  |  |  |  |  |  |  |
| <i>Potamotheix moldaviensis</i> |            |            |  |  |  |  |  |  |  |
| <i>P. vejdoskyi</i>             |            |            |  |  |  |  |  |  |  |
| Naididae                        |            |            |  |  |  |  |  |  |  |
| <i>Nais</i> sp.                 |            |            |  |  |  |  |  |  |  |
| <i>Naidium</i> sp.              |            |            |  |  |  |  |  |  |  |
| <i>Pristina</i> sp.             |            |            |  |  |  |  |  |  |  |
| <i>Stylaria</i> sp.             |            |            |  |  |  |  |  |  |  |
| <i>Uncinaria uncinata</i> sp.   |            |            |  |  |  |  |  |  |  |
| ARTHROPODA                      |            |            |  |  |  |  |  |  |  |
| Isopoda                         |            |            |  |  |  |  |  |  |  |
| <i>Asellus</i> sp.              |            |            |  |  |  |  |  |  |  |
| Amphipoda                       |            |            |  |  |  |  |  |  |  |
| <i>Gammarus fasciatus</i>       |            |            |  |  |  |  |  |  |  |
| <i>Hyalella azteca</i>          |            |            |  |  |  |  |  |  |  |
| Ephemeroptera                   |            |            |  |  |  |  |  |  |  |
| <i>Caenis</i> sp.               |            |            |  |  |  |  |  |  |  |
| Trichoptera                     |            |            |  |  |  |  |  |  |  |
| <i>Athripsodes</i> sp.          |            |            |  |  |  |  |  |  |  |
| <i>Oecetis</i> sp.              |            |            |  |  |  |  |  |  |  |
| <i>Polycentropus</i> sp.        |            |            |  |  |  |  |  |  |  |

Notes:

1. Sample collection date: 9-19-73 and 9-26-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-5 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
SEPTEMBER, 1973

| BENTHOS SPECIES                    | Sta.<br>19 | Sta.<br>20 |  |  |  |  |  |  |  |
|------------------------------------|------------|------------|--|--|--|--|--|--|--|
| ARTHROPODA (Cont.)                 |            |            |  |  |  |  |  |  |  |
| Limnephilidae                      |            |            |  |  |  |  |  |  |  |
| Chironomidae                       |            |            |  |  |  |  |  |  |  |
| Chironominae                       |            |            |  |  |  |  |  |  |  |
| <i>Chironomus (Chironomus) sp.</i> | 18         |            |  |  |  |  |  |  |  |
| <i>C. (Cryptochironomus) sp.</i>   | 18         |            |  |  |  |  |  |  |  |
| <i>Polypedilum sp.</i>             |            |            |  |  |  |  |  |  |  |
| <i>Pseudochironomus sp.</i>        |            |            |  |  |  |  |  |  |  |
| <i>Tanytarsus sp.</i>              |            |            |  |  |  |  |  |  |  |
| Tanypodinae                        |            |            |  |  |  |  |  |  |  |
| <i>Coelotanypus sp.</i>            | 36         |            |  |  |  |  |  |  |  |
| <i>Procladius sp.</i>              | 36         |            |  |  |  |  |  |  |  |
| Orthoclaadiinae                    |            |            |  |  |  |  |  |  |  |
| <i>Cricotopus sp.</i>              |            |            |  |  |  |  |  |  |  |
| <i>Psectrocladius sp.</i>          |            |            |  |  |  |  |  |  |  |
| MOLLUSCA                           |            |            |  |  |  |  |  |  |  |
| Gastropoda                         |            |            |  |  |  |  |  |  |  |
| <i>Amnicola sp.</i>                |            |            |  |  |  |  |  |  |  |
| <i>Bulimus sp.</i>                 |            |            |  |  |  |  |  |  |  |
| <i>Gyraulus sp.</i>                |            |            |  |  |  |  |  |  |  |
| <i>Physa sp.</i>                   |            |            |  |  |  |  |  |  |  |
| <i>Pleurocera-Goniobasis sp.</i>   |            |            |  |  |  |  |  |  |  |
| <i>Valvata sp.</i>                 |            |            |  |  |  |  |  |  |  |
| Pelecypoda                         |            |            |  |  |  |  |  |  |  |
| Unionidae                          |            |            |  |  |  |  |  |  |  |
| <i>Amblema plicata</i>             |            |            |  |  |  |  |  |  |  |
| <i>Lampsilis ventricosa</i>        |            |            |  |  |  |  |  |  |  |
| <i>L. radiata</i>                  |            |            |  |  |  |  |  |  |  |
| <i>Leptodea fragilis</i>           |            |            |  |  |  |  |  |  |  |
| <i>Ligumia recta</i>               |            |            |  |  |  |  |  |  |  |
| <i>Potamilus alatus</i>            |            |            |  |  |  |  |  |  |  |
| <i>Quadrula pustulosa</i>          |            |            |  |  |  |  |  |  |  |
| Sphaeriidae                        |            |            |  |  |  |  |  |  |  |
| <i>Pisidium sp.</i>                |            |            |  |  |  |  |  |  |  |
| <i>Sphaerium sp.</i>               |            |            |  |  |  |  |  |  |  |
| Total                              | 198        | 0          |  |  |  |  |  |  |  |

Notes:

1. Sample collection date: 9-19-73 and 9-26-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-6  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
NOVEMBER, 1973

| BENTHOS SAMPLES                   | Sta.<br>1 | Sta.<br>1 | Sta.<br>1 | Sta.<br>2 | Sta.<br>3 | Sta.<br>4 | Sta.<br>4 | Sta.<br>4 | Sta.<br>5 |
|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| COELENTERATA                      |           |           |           |           |           |           |           |           |           |
| <i>Hydra</i> sp.                  |           |           |           |           | 36        | 72        | 18        |           |           |
| PLATYHELMINTHES                   |           |           |           |           |           |           |           |           |           |
| Planariidae                       |           |           |           |           |           |           |           |           |           |
| ANNELIDA                          |           |           |           |           |           |           |           |           |           |
| Hirudinea                         |           |           |           |           |           |           |           |           |           |
| <i>Glossiphonia complanata</i>    |           |           |           |           |           |           |           |           |           |
| <i>Helobdella stagnalis</i>       |           |           |           |           |           |           |           |           |           |
| <i>Helobdella elongata</i>        |           |           |           |           |           |           |           |           |           |
| Oligochaeta, Immatures            | 869       | 344       | 1466      | 253       | 2425      | 5321      | 2769      | 3421      |           |
| Tubificidae                       |           |           |           |           |           |           |           |           |           |
| <i>Branchiura sowerbyi</i>        | 36        |           |           |           | 18        | 217       | 72        | 235       |           |
| <i>Limnodrilus cervix</i>         |           |           |           |           |           | 18        |           | 54        |           |
| <i>L. claparedeanus</i>           |           |           |           |           |           |           |           | 18        |           |
| <i>L. claparedeanus-cervix</i>    |           |           |           |           |           |           |           |           |           |
| <i>L. hoffmeisteri</i>            |           |           |           |           |           | 18        |           |           |           |
| <i>L. mawmeensis</i>              |           |           |           |           |           |           |           |           |           |
| <i>L. udekemianus</i>             |           |           |           |           |           |           |           |           |           |
| <i>Potamotheirus moldaviensis</i> | 36        |           |           |           |           |           |           | 36        |           |
| <i>P. vejdoskyi</i>               |           |           |           |           |           |           |           | 18        |           |
| Naididae                          |           |           |           |           |           |           |           |           |           |
| <i>Nais</i> sp.                   |           |           |           |           |           |           |           |           |           |
| <i>Naidium</i> sp.                |           |           |           |           |           |           |           |           |           |
| <i>Pristina</i> sp.               |           |           |           |           |           |           |           |           |           |
| <i>Stylaria</i> sp.               |           |           |           |           |           |           |           |           |           |
| <i>Uncinaria uncinata</i> sp.     |           |           |           |           |           |           |           |           |           |
| ARTHROPODA                        |           |           |           |           |           |           |           |           |           |
| Isopoda                           |           |           |           |           |           |           |           |           |           |
| <i>Asellus</i> sp.                |           |           |           |           |           |           |           |           |           |
| Amphipoda                         |           |           |           |           |           |           |           |           |           |
| <i>Gammarus fasciatus</i>         |           |           |           |           |           |           |           |           |           |
| <i>Hyalella azteca</i>            |           |           |           |           |           |           |           |           |           |
| Ephemeroptera                     |           |           |           |           |           |           |           |           |           |
| <i>Caenis</i> sp.                 |           |           |           |           |           |           |           |           |           |
| Trichoptera                       |           |           |           |           |           |           |           |           |           |
| <i>Athripsodes</i> sp.            |           |           |           |           |           |           |           |           |           |
| <i>Oecetis</i> sp.                |           |           |           |           |           |           |           |           |           |
| <i>Polycentropus</i> sp.          |           |           |           |           |           |           |           |           |           |

Notes:

1. Sample collection date: 11-2-73 and 11-7-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-6 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
NOVEMBER, 1973

| BENTHOS SPECIES                    | Sta.<br>1 | Sta.<br>.1 | Sta.<br>1 | Sta.<br>2 | Sta.<br>3 | Sta.<br>4 | Sta.<br>4 | Sta.<br>4 | Sta.<br>5 |
|------------------------------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ARTHROPODA (Cont.)                 |           |            |           |           |           |           |           |           |           |
| Limnephilidae                      |           |            |           |           |           |           |           |           |           |
| Chironomidae                       |           |            |           |           |           |           |           |           |           |
| Chironominae                       |           |            |           |           |           |           |           |           |           |
| <i>Chironomus (Chironomus) sp.</i> |           |            | 36        |           | 54        | 127       | 18        | 181       |           |
| <i>C. (Cryptochironomus) sp.</i>   |           | 36         | 36        |           |           |           |           |           |           |
| <i>Polypedilum sp.</i>             |           |            |           |           |           | 18        |           |           |           |
| <i>Pseudochironomus sp.</i>        |           |            |           |           |           |           |           |           |           |
| <i>Tanytarsus sp.</i>              |           | 18         | 36        | 36        | 18        | 19566     | 18353     | 18589     |           |
| Tanypodinae                        |           |            |           |           |           |           |           |           |           |
| <i>Coelotanypus sp.</i>            |           |            |           |           |           |           |           |           |           |
| <i>Procladius sp.</i>              |           |            |           |           |           |           | 36        | 127       |           |
| Orthoclaadiinae                    |           |            |           |           |           |           |           |           |           |
| <i>Cricotopus sp.</i>              |           |            |           |           |           |           |           |           |           |
| <i>Psectrocladius sp.</i>          |           |            |           |           |           |           |           |           |           |
|                                    |           |            |           |           |           |           |           |           |           |
| MOLLUSCA                           |           |            |           |           |           |           |           |           |           |
| Gastropoda                         |           |            |           |           |           |           |           |           |           |
| <i>Amnicola sp.</i>                |           |            |           |           |           |           |           |           |           |
| <i>Bulimus sp.</i>                 |           |            |           |           |           |           |           |           |           |
| <i>Gyraulus sp.</i>                |           |            |           |           |           |           |           |           |           |
| <i>Physa sp.</i>                   |           |            |           |           |           |           |           |           |           |
| <i>Pleurocera-Goniobasis sp.</i>   |           |            |           |           |           |           |           |           |           |
| <i>Valvata sp.</i>                 |           |            |           |           |           |           |           |           |           |
|                                    |           |            |           |           |           |           |           |           |           |
| Pelecypoda                         |           |            |           |           |           |           |           |           |           |
| Unionidae                          |           |            |           |           |           |           |           |           |           |
| <i>Amblema plicata</i>             |           |            |           |           |           |           |           |           |           |
| <i>Lampsilis ventricosa</i>        |           |            |           |           |           |           |           |           |           |
| <i>L. radiata</i>                  |           |            |           |           |           |           |           |           |           |
| <i>Leptodea fragilis</i>           |           |            |           |           |           |           |           |           |           |
| <i>Ligumia recta</i>               |           |            |           |           |           |           |           |           |           |
| <i>Potamilus alatus</i>            |           |            |           |           |           |           |           |           |           |
| <i>Quadrula pustulosa</i>          |           |            |           |           |           |           |           |           |           |
|                                    |           |            |           |           |           |           |           |           |           |
| Sphaeriidae                        |           |            |           |           |           |           |           |           |           |
| <i>Pisidium sp.</i>                |           |            |           |           |           |           |           |           |           |
| <i>Sphaerium sp.</i>               |           |            |           | 18        |           |           |           |           |           |
| Total                              | 941       | 398        | 1574      | 307       | 2552      | 25357     | 21266     | 22679     | 0         |

Notes:

1. Sample collection date: 11-2-73 and 11-7-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-6 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
NOVEMBER, 1973

| BENTHOS SAMPLES                 | Sta.<br>6 | Sta.<br>7 | Sta.<br>8 | Sta.<br>8 | Sta.<br>8 | Sta.<br>9 | Sta.<br>10 | Sta.<br>11 | Sta.<br>12 |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| COELENTERATA                    |           |           |           |           |           |           |            |            |            |
| <i>Hydra</i> sp.                |           |           |           |           |           |           | 18         |            | 18         |
| PLATYHELMINTHES                 |           |           |           |           |           |           |            |            |            |
| Planariidae                     |           |           |           |           |           |           |            |            |            |
| ANNELIDA                        |           |           |           |           |           |           |            |            |            |
| Hirudinea                       |           |           |           |           |           |           |            |            |            |
| <i>Glossiphonia complanata</i>  |           |           |           |           |           |           |            |            |            |
| <i>Helobdella stagnalis</i>     |           |           |           |           |           |           |            |            |            |
| <i>Helobdella elongata</i>      |           |           |           |           |           |           |            |            |            |
| Oligochaeta, Immatures          | 72        | 507       | 2769      | 181       | 1484      | 2045      | 54         | 109        | 2968       |
| Tubificidae                     |           |           |           |           |           |           |            |            |            |
| <i>Branchyura sowerbyi</i>      |           | 36        | 18        |           |           |           |            |            |            |
| <i>Limnodrilus cervix</i>       |           |           | 54        |           |           |           |            |            | 109        |
| <i>L. claparedeanus</i>         |           |           | 36        |           |           |           |            |            |            |
| <i>L. claparedeanus-cervix</i>  |           |           |           |           |           |           |            |            |            |
| <i>L. hoffmeisteri</i>          |           |           | 36        |           |           | 18        |            | 18         | 18         |
| <i>L. maumeensis</i>            |           |           |           |           |           |           |            |            |            |
| <i>L. udekemianus</i>           |           |           |           |           |           |           |            |            |            |
| <i>Potamothrix moldaviensis</i> |           |           | 91        |           | 72        |           |            |            | 54         |
| <i>P. vejdoskyi</i>             |           |           |           |           |           |           |            |            |            |
| Naididae                        |           |           |           |           |           |           |            |            |            |
| <i>Nais</i> sp.                 |           |           |           |           |           |           |            |            |            |
| <i>Naidium</i> sp.              |           |           |           |           |           |           |            |            |            |
| <i>Pristina</i> sp.             |           |           |           |           |           |           |            |            |            |
| <i>Stylaria</i> sp.             |           |           |           |           |           |           |            |            |            |
| <i>Uncinaiis uncinata</i> sp.   |           |           |           |           |           |           |            |            |            |
| ARTHROPODA                      |           |           |           |           |           |           |            |            |            |
| Isopoda                         |           |           |           |           |           |           |            |            |            |
| <i>Asellus</i> sp.              |           |           |           |           |           |           |            |            |            |
| Amphipoda                       |           |           |           |           |           |           |            |            |            |
| <i>Gammarus fasciatus</i>       | 54        |           |           | 18        |           |           |            | 36         |            |
| <i>Hyaella azteca</i>           |           |           |           |           |           |           |            |            |            |
| Ephemeroptera                   |           |           |           |           |           |           |            |            |            |
| <i>Caenis</i> sp.               |           |           |           |           |           |           |            |            |            |
| Trichoptera                     |           |           |           |           |           |           |            |            |            |
| <i>Athripsodes</i> sp.          |           |           |           |           |           |           |            |            |            |
| <i>Oecetis</i> sp.              |           |           |           |           |           |           |            |            |            |
| <i>Polycentropus</i> sp.        |           |           |           |           |           |           |            |            |            |

Notes:

1. Sample collection date: 11-2-73 and 11-7-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-6 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
NOVEMBER, 1973

| BENTHOS SPECIES                    | Sta.<br>6 | Sta.<br>7 | Sta.<br>8 | Sta.<br>8 | Sta.<br>8 | Sta.<br>9 | Sta.<br>10 | Sta.<br>11 | Sta.<br>12 |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| ARTHROPODA (Cont.)                 |           |           |           |           |           |           |            |            |            |
| Limnephilidae                      |           |           |           |           |           |           |            |            |            |
| Chironomidae                       |           |           |           |           |           |           |            |            |            |
| Chironominae                       |           |           |           |           |           |           |            |            |            |
| <i>Chironomus (Chironomus) sp.</i> |           |           | 18        |           |           | 18        | 109        | 127        |            |
| <i>C. (Cryptochironomus) sp.</i>   |           |           |           |           |           | 18        |            | 18         | 18         |
| <i>Polypedilum sp.</i>             |           |           |           |           |           |           |            |            |            |
| <i>Pseudochironomus sp.</i>        |           |           |           |           |           |           |            | 18         |            |
| <i>Tanytarsus sp.</i>              |           | 54        | 217       | 18        | 326       | 21503     |            |            |            |
| Tanypodinae                        |           |           |           |           |           |           |            |            |            |
| <i>Coelotanypus sp.</i>            |           |           |           |           |           |           |            |            |            |
| <i>Procladius sp.</i>              |           |           |           |           |           |           |            |            |            |
| Orthoclaadiinae                    |           |           |           |           |           |           |            |            |            |
| <i>Cricotopus sp.</i>              |           |           |           |           |           |           |            |            |            |
| <i>Psectrocladius sp.</i>          |           |           |           |           |           |           |            |            |            |
| MOLLUSCA                           |           |           |           |           |           |           |            |            |            |
| Gastropoda                         |           |           |           |           |           |           |            |            |            |
| <i>Amnicola sp.</i>                |           |           |           |           |           |           |            |            |            |
| <i>Bulimus sp.</i>                 |           |           |           |           |           |           |            |            |            |
| <i>Gyraulus sp.</i>                |           |           |           |           |           |           |            |            |            |
| <i>Physa sp.</i>                   |           |           |           |           |           |           |            |            |            |
| <i>Pleurocera-Goniobasis sp.</i>   |           |           |           |           |           |           |            |            |            |
| <i>Valvata sp.</i>                 |           |           |           |           |           |           |            |            |            |
| Pelecypoda                         |           |           |           |           |           |           |            |            |            |
| Unionidae                          |           |           |           |           |           |           |            |            |            |
| <i>Amblema plicata</i>             |           |           |           |           |           |           |            |            |            |
| <i>Lampsilis ventricosa</i>        |           |           |           |           |           |           |            |            |            |
| <i>L. radiata</i>                  |           |           |           |           |           |           |            |            |            |
| <i>Leptodea fragilis</i>           |           |           |           |           | 18        |           |            |            |            |
| <i>Ligumia recta</i>               |           |           |           |           |           |           |            |            |            |
| <i>Potamilius alatus</i>           |           |           |           |           |           |           |            |            |            |
| <i>Quadrula pustulosa</i>          |           |           |           |           |           |           |            |            |            |
| Sphaeriidae                        |           |           |           |           |           |           |            |            |            |
| <i>Pisidium sp.</i>                |           |           |           |           |           |           |            |            |            |
| <i>Sphaerium sp.</i>               |           |           |           |           |           |           |            |            |            |
| Total                              | 126       | 597       | 3240      | 217       | 1901      | 23602     | 181        | 326        | 3185       |

Notes:

1. Sample collection date: 11-2-73 and 11-7-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-6 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
NOVEMBER, 1973

| BENTHOS SAMPLES                 | Sta.<br>12 | Sta.<br>13 | Sta.<br>14 | Sta.<br>15 | Sta.<br>16 | Sta.<br>17 | Sta.<br>18 | Sta.<br>19 | Sta.<br>20 |
|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| COELENTERATA                    |            |            |            |            |            |            |            |            |            |
| <i>Hydra</i> sp.                | 18         | 18         |            |            |            |            |            |            |            |
| PLATYHELMINTHES                 |            |            |            |            |            |            |            |            |            |
| Planariidae                     |            |            |            |            |            |            |            |            |            |
| ANNELIDA                        |            |            |            |            |            |            |            |            |            |
| Hirudinea                       |            |            |            |            |            |            |            |            |            |
| <i>Glossiphonia complanata</i>  |            |            |            |            |            |            |            |            |            |
| <i>Helobdella stagnalis</i>     |            |            |            |            |            |            |            |            |            |
| <i>Helobdella elongata</i>      |            |            |            |            |            |            |            |            |            |
| Oligochaeta, Immatures          | 326        | 1249       | 2226       | 2534       | 434        | 615        | 2172       | 507        |            |
| Tubificidae                     |            |            |            |            |            |            |            |            |            |
| <i>Branchiura sowerbyi</i>      |            |            |            | 36         |            |            | 36         |            |            |
| <i>Limnodrilus cervix</i>       |            |            | 235        | 54         |            |            | 163        |            |            |
| <i>L. claparedeanus</i>         |            |            | 109        |            |            | 18         | 18         |            |            |
| <i>L. claparedeanus-cervix</i>  |            |            |            |            |            |            |            |            |            |
| <i>L. hoffmeisteri</i>          |            |            | 181        | 18         |            | 18         | 127        |            |            |
| <i>L. maumeensis</i>            |            |            |            |            |            |            |            |            |            |
| <i>L. udekemianus</i>           |            |            |            |            |            |            |            |            |            |
| <i>Potamotheix moldaviensis</i> |            |            | 54         |            |            | 18         | 91         |            |            |
| <i>P. vejdoskyi</i>             |            |            |            |            |            |            |            |            |            |
| Naididae                        |            |            |            |            |            |            |            |            |            |
| <i>Nais</i> sp.                 |            |            |            |            |            |            |            |            |            |
| <i>Naidium</i> sp.              |            |            |            |            |            |            |            |            |            |
| <i>Pristina</i> sp.             |            |            |            |            |            |            |            |            |            |
| <i>Stylaria</i> sp.             |            |            |            |            |            |            |            |            |            |
| <i>Uncinaxis uncinata</i> sp.   |            |            |            |            |            |            |            |            |            |
| ARTHROPODA                      |            |            |            |            |            |            |            |            |            |
| Isopoda                         |            |            |            |            |            |            |            |            |            |
| <i>Asellus</i> sp.              |            |            |            |            |            |            |            |            |            |
| Amphipoda                       |            |            |            |            |            |            |            |            |            |
| <i>Gammarus fasciatus</i>       |            |            |            |            |            |            | 36         |            |            |
| <i>Hyalella azteca</i>          |            |            |            |            |            |            |            |            |            |
| Ephemeroptera                   |            |            |            |            |            |            |            |            |            |
| <i>Caenis</i> sp.               |            |            |            |            |            |            |            |            |            |
| Trichoptera                     |            |            |            |            |            |            |            |            |            |
| <i>Athripsodes</i> sp.          |            |            |            |            |            |            |            |            |            |
| <i>Oecetis</i> sp.              |            |            |            |            |            |            |            |            |            |
| <i>Polycentropus</i> sp.        |            |            |            |            |            |            |            |            |            |

Notes:

1. Sample collection date: 11-2-73 and 11-7-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-6 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
NOVEMBER, 1973

| BENTHOS SPECIES                             | Sta.<br>12 | Sta.<br>13 | Sta.<br>14 | Sta.<br>15 | Sta.<br>16 | Sta.<br>17 | Sta.<br>18 | Sta.<br>19 | Sta.<br>20 |
|---------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| ARTHROPODA (Cont.)                          |            |            |            |            |            |            |            |            |            |
| Limnephilidae                               |            |            |            |            |            |            |            |            |            |
| Chironomidae                                |            |            |            |            |            |            |            |            |            |
| Chironominae                                |            |            |            |            |            |            |            |            |            |
| <i>Chironomus</i> ( <i>Chironomus</i> ) sp. |            |            | 344        | 416        |            |            | 380        |            | 18         |
| <i>C. (Cryptochironomus)</i> sp.            |            |            |            | 36         |            |            |            |            |            |
| <i>Polypedilum</i> sp.                      |            |            |            | 18         |            |            |            |            |            |
| <i>Pseudochironomus</i> sp.                 |            |            |            |            |            |            |            |            |            |
| <i>Tanytarsus</i> sp.                       |            | 18         |            | 18         |            |            |            |            |            |
| Tanypodinae                                 |            |            |            |            |            |            |            |            |            |
| <i>Coelotanypus</i> sp.                     |            |            |            | 127        |            |            | 36         |            |            |
| <i>Procladius</i> sp.                       |            |            |            | 36         |            |            |            |            |            |
| Orthoclaadiinae                             |            |            |            |            |            |            |            |            |            |
| <i>Cricotopus</i> sp.                       |            |            |            |            |            |            |            |            |            |
| <i>Psectrocladius</i> sp.                   |            |            | 72         |            |            |            |            |            |            |
| MOLLUSCA                                    |            |            |            |            |            |            |            |            |            |
| Gastropoda                                  |            |            |            |            |            |            |            |            |            |
| <i>Amnicola</i> sp.                         |            |            |            |            |            |            |            |            |            |
| <i>Bulimus</i> sp.                          |            |            |            |            |            |            |            |            |            |
| <i>Gyraulus</i> sp.                         |            |            |            |            |            |            |            |            |            |
| <i>Physa</i> sp.                            |            |            |            |            |            |            |            |            |            |
| <i>Pleurocera-Goniobasis</i> sp.            |            |            |            |            |            |            |            |            |            |
| <i>Valvata</i> sp.                          |            |            |            |            |            |            |            |            |            |
| Pelecypoda                                  |            |            |            |            |            |            |            |            |            |
| Unionidae                                   |            |            |            |            |            |            |            |            |            |
| <i>Amblema plicata</i>                      |            |            |            |            |            |            |            |            |            |
| <i>Lampsilis ventricosa</i>                 |            |            |            |            |            |            |            |            |            |
| <i>L. radiata</i>                           |            |            |            |            |            |            |            |            |            |
| <i>Leptodea fragilis</i>                    |            |            |            |            |            |            |            |            |            |
| <i>Ligumia recta</i>                        |            |            |            |            |            |            |            |            |            |
| <i>Potamilus alatus</i>                     |            |            |            |            |            |            |            |            |            |
| <i>Quadrula pustulosa</i>                   |            |            |            |            |            |            |            |            |            |
| Sphaeriidae                                 |            |            |            |            |            |            |            |            |            |
| <i>Pisidium</i> sp.                         |            |            |            |            |            |            |            |            |            |
| <i>Sphaerium</i> sp.                        |            |            |            |            |            |            |            |            |            |
| Total                                       | 344        | 1285       | 3221       | 3293       | 434        | 669        | 3059       | 507        | 18         |

Notes:

1. Sample collection date: 11-2-73 and 11-7-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
DECEMBER, 1973

| BENTHOS SAMPLES                 | Sta.<br>1 | Sta.<br>2 | Sta.<br>3 | Sta.<br>4 | Sta.<br>5 | Sta.<br>6 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| COELENTERATA                    |           |           |           |           |           |           |           |           |           |
| <i>Hydra</i> sp.                |           |           |           |           |           |           | 362       |           | 18        |
| PLATYHELMINTHES                 |           |           |           |           |           |           |           |           |           |
| Planariidae                     |           |           |           |           |           |           |           |           |           |
| ANNELIDA                        |           |           |           |           |           |           |           |           |           |
| Hirudinea                       |           |           |           |           |           |           |           |           |           |
| <i>Glossiphonia complanata</i>  |           |           |           |           |           |           |           |           |           |
| <i>Helobdella stagnalis</i>     |           |           |           |           |           |           |           |           |           |
| <i>Helobdella elongata</i>      |           |           |           |           |           |           |           |           |           |
| Oligochaeta, Immatures          | 127       | 235       | 2190      | 2118      | 145       |           | 579       | 253       | 2172      |
| Tubificidae                     |           |           |           |           |           |           |           |           |           |
| <i>Branchyura sowerbyi</i>      |           |           |           | 109       |           |           |           |           | 18        |
| <i>Limnodrilus cervix</i>       |           |           |           |           |           |           |           | 36        |           |
| <i>L. claparedianus</i>         |           |           |           | 18        |           |           |           |           |           |
| <i>L. claparedianus-cervix</i>  |           |           |           |           |           |           |           |           |           |
| <i>L. hoffmeisteri</i>          |           |           |           | 18        |           |           |           | 18        |           |
| <i>L. maumeensis</i>            |           |           |           |           |           |           |           |           |           |
| <i>L. udekemianus</i>           |           |           |           |           |           |           |           |           |           |
| <i>Potamothrix moldaviensis</i> |           |           |           | 18        |           |           |           |           |           |
| <i>P. vejdvskyi</i>             |           |           |           |           |           |           |           |           |           |
| Naididae                        |           |           |           |           |           |           |           |           |           |
| <i>Nais</i> sp.                 |           |           |           |           |           |           |           |           |           |
| <i>Naidium</i> sp.              |           |           |           |           |           |           |           |           |           |
| <i>Pristina</i> sp.             |           |           |           |           |           |           |           |           |           |
| <i>Stylaria</i> sp.             |           |           |           |           |           |           |           |           |           |
| <i>Uncinaxis uncinata</i> sp.   |           |           |           |           |           |           |           |           |           |
| ARTHROPODA                      |           |           |           |           |           |           |           |           |           |
| Isopoda                         |           |           |           |           |           |           |           |           |           |
| <i>Asellus</i> sp.              |           |           |           |           |           |           |           |           |           |
| Amphipoda                       |           |           |           |           |           |           |           |           |           |
| <i>Gammarus fasciatus</i>       |           |           |           |           |           |           |           |           |           |
| <i>Hyalella azteca</i>          |           |           |           |           |           |           |           |           |           |
| Ephemeroptera                   |           |           |           |           |           |           |           |           |           |
| <i>Caenis</i> sp.               |           |           |           |           |           |           |           |           |           |
| Trichoptera                     |           |           |           |           |           |           |           |           |           |
| <i>Athripsodes</i> sp.          |           |           |           |           |           |           |           |           |           |
| <i>Oecetis</i> sp.              |           |           |           |           |           |           |           |           |           |
| <i>Polycentropus</i> sp.        |           |           |           |           |           |           |           |           |           |

## Notes:

1. Sample collection date: 12-4-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-7 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
DECEMBER, 1973

| BENTHOS SPECIES                    | Sta.<br>1 | Sta.<br>2 | Sta.<br>3 | Sta.<br>4 | Sta.<br>5 | Sta.<br>6 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| ARTHROPODA (Cont.)                 |           |           |           |           |           |           |           |           |           |
| Limnephilidae                      |           |           |           |           |           |           |           |           |           |
| Chironomidae                       |           |           |           |           |           |           |           |           |           |
| Chironominae                       |           |           |           |           |           |           |           |           |           |
| <i>Chironomus (Chironomus) sp.</i> |           |           | 18        | 36        | 54        |           |           |           | 18        |
| <i>C. (Cryptochironomus) sp.</i>   |           |           | 18        | 18        | 72        |           |           |           |           |
| <i>Polypedilum sp.</i>             |           |           |           |           |           |           |           |           |           |
| <i>Pseudochironomus sp.</i>        |           |           |           |           | 36        |           |           |           |           |
| <i>Tanytarsus sp.</i>              | 36        | 54        | 416       | 91        | 127       |           |           | 18        | 380       |
| Tanypodinae                        |           |           |           |           |           |           |           |           |           |
| <i>Coelotanypus sp.</i>            |           |           |           |           |           |           |           |           |           |
| <i>Procladius sp.</i>              |           |           | 18        | 18        |           |           |           |           |           |
| Orthoclaadiinae                    |           |           |           |           |           |           |           |           |           |
| <i>Cricotopus sp.</i>              |           |           |           |           |           |           |           |           |           |
| <i>Psectrocladius sp.</i>          |           |           |           |           |           |           |           |           |           |
| MOLLUSCA                           |           |           |           |           |           |           |           |           |           |
| Gastropoda                         |           |           |           |           |           |           |           |           |           |
| <i>Amnicola sp.</i>                |           |           |           |           |           |           |           |           |           |
| <i>Bulimus sp.</i>                 |           |           |           |           |           |           |           |           |           |
| <i>Gyraulus sp.</i>                |           |           |           |           |           |           |           |           |           |
| <i>Physa sp.</i>                   |           |           |           |           |           |           |           |           |           |
| <i>Pleurocera-Goniobasis sp.</i>   |           |           |           |           |           |           |           |           |           |
| <i>Valvata sp.</i>                 |           |           |           |           |           |           |           |           |           |
| Pelecypoda                         |           |           |           |           |           |           |           |           |           |
| Unionidae                          |           |           |           |           |           |           |           |           |           |
| <i>Ambiema plicata</i>             |           |           |           |           |           |           |           |           |           |
| <i>Lampsilis ventricosa</i>        |           |           |           |           |           |           |           |           |           |
| <i>L. radiata</i>                  |           |           |           |           |           |           |           |           |           |
| <i>Leptodea fragilis</i>           |           |           |           |           |           |           |           |           |           |
| <i>Ligumia recta</i>               |           |           |           |           |           |           |           |           |           |
| <i>Potamilus alatus</i>            |           |           |           |           |           |           |           |           |           |
| <i>Quadrula pustulosa</i>          |           |           |           |           |           |           |           |           |           |
| Sphaeriidae                        |           |           |           |           |           |           |           |           |           |
| <i>Pisidium sp.</i>                |           |           |           |           |           |           |           |           |           |
| <i>Sphaerium sp.</i>               |           |           |           |           | 18        |           |           |           |           |
| Total                              | 163       | 289       | 2660      | 2444      | 452       | 0         | 941       | 325       | 2606      |

Notes:

1. Sample collection date: 12-4-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-7 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
DECEMBER, 1973

| BENTHOS SAMPLES                 | Sta.<br>10 | Sta.<br>11 | Sta.<br>12 | Sta.<br>13 | Sta.<br>14 | Sta.<br>15 | Sta.<br>16 | Sta.<br>17 | Sta.<br>18 |
|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| COELENTERATA                    |            |            |            |            |            |            |            |            |            |
| <i>Hydra</i> sp.                |            |            |            |            | 163        |            |            |            |            |
| PLATYHELMINTHES                 |            |            |            |            |            |            |            |            |            |
| Planariidae                     |            |            |            |            |            |            |            |            |            |
| ANNELIDA                        |            |            |            |            |            |            |            |            |            |
| Hirudinea                       |            |            |            |            |            |            |            |            |            |
| <i>Glossiphonia complanata</i>  |            |            |            |            |            |            |            |            |            |
| <i>Helobdella stagnalis</i>     |            |            |            |            |            |            |            |            |            |
| <i>Helobdella elongata</i>      |            |            |            |            |            |            |            |            |            |
| Oligochaeta, Immatures          | 959        | 2552       | 2860       | 2244       | 1285       | 4272       | 362        |            | 5231       |
| Tubificidae                     |            |            |            |            |            |            |            |            |            |
| <i>Branchiura sowerbyi</i>      | 36         |            | 36         |            |            |            |            |            | 217        |
| <i>Limnodrilus cervix</i>       |            | 344        | 127        |            |            | 18         |            |            | 308        |
| <i>L. claparedeanus</i>         |            | 326        | 54         |            |            |            |            |            | 91         |
| <i>L. claparedeanus-cervix</i>  |            |            |            |            |            |            |            |            |            |
| <i>L. hoffmeisteri</i>          |            | 181        | 163        | 199        |            |            |            |            | 272        |
| <i>L. maumeensis</i>            |            |            |            |            |            |            |            |            |            |
| <i>L. udekemianus</i>           |            |            |            |            |            |            |            |            |            |
| <i>Potamothrix moldaviensis</i> | 18         | 163        | 36         |            |            |            |            |            |            |
| <i>P. vejdoskyi</i>             |            |            |            |            |            |            |            |            |            |
| Naididae                        |            |            |            |            |            |            |            |            |            |
| <i>Nais</i> sp.                 |            |            |            |            |            |            |            |            |            |
| <i>Naidium</i> sp.              |            |            |            |            |            |            |            |            |            |
| <i>Pristina</i> sp.             |            |            |            |            |            |            |            |            |            |
| <i>Stylaria</i> sp.             |            |            |            |            |            |            |            |            |            |
| <i>Uncinaxis uncinata</i> sp.   |            |            |            |            |            |            |            |            |            |
| ARTHROPODA                      |            |            |            |            |            |            |            |            |            |
| Isopoda                         |            |            |            |            |            |            |            |            |            |
| <i>Asellus</i> sp.              |            |            |            |            |            |            |            |            |            |
| Amphipoda                       |            |            |            |            |            |            |            |            |            |
| <i>Gammarus fasciatus</i>       |            |            |            |            |            |            |            |            |            |
| <i>Hyalella azteca</i>          |            |            |            |            |            |            |            |            |            |
| Ephemeroptera                   |            |            |            |            |            |            |            |            |            |
| <i>Caenis</i> sp.               |            |            |            |            |            |            |            |            |            |
| Trichoptera                     |            |            |            |            |            |            |            |            |            |
| <i>Athripsodes</i> sp.          |            |            |            |            |            |            |            |            |            |
| <i>Oecetis</i> sp.              |            |            |            |            |            |            |            |            |            |
| <i>Polycentropus</i> sp.        |            |            |            |            |            |            |            |            |            |

Notes:

1. Sample collection date: 12-4-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-7 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
DECEMBER, 1973

| BENTHOS SPECIES                    | Sta.<br>10 | Sta.<br>11 | Sta.<br>12 | Sta.<br>13 | Sta.<br>14 | Sta.<br>15 | Sta.<br>16 | Sta.<br>17 | Sta.<br>18 |
|------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| ARTHROPODA (Cont.)                 |            |            |            |            |            |            |            |            |            |
| Limnephilidae                      |            |            |            |            |            |            |            |            |            |
| Chironomidae                       |            |            |            |            |            |            |            |            |            |
| Chironominae                       |            |            |            |            |            |            |            |            |            |
| <i>Chironomus (Chironomus) sp.</i> | 597        | 869        | 253        |            |            |            |            |            | 543        |
| <i>C. (Cryptochironomus) sp.</i>   | 54         |            | 18         | 18         | 18         | 18         |            |            | 36         |
| <i>Polypedilum sp.</i>             |            |            |            |            |            |            |            |            |            |
| <i>Pseudochironomus sp.</i>        |            |            |            |            |            |            |            |            |            |
| <i>Tanytarsus sp.</i>              |            |            |            | 36         | 54         | 36         |            |            |            |
| Tanypodinae                        |            |            |            |            |            |            |            |            |            |
| <i>Coelotanypus sp.</i>            |            |            | 18         |            |            |            |            |            | 36         |
| <i>Procladius sp.</i>              | 18         | 54         | 109        |            |            |            |            |            | 127        |
| Orthoclaadiinae                    |            |            |            |            |            |            |            |            |            |
| <i>Cricotopus sp.</i>              |            |            |            |            |            |            |            |            |            |
| <i>Psectrocladius sp.</i>          |            |            |            |            |            |            |            |            |            |
| MOLLUSCA                           |            |            |            |            |            |            |            |            |            |
| Gastropoda                         |            |            |            |            |            |            |            |            |            |
| <i>Amnicola sp.</i>                |            |            |            |            |            |            |            |            |            |
| <i>Bulimus sp.</i>                 |            |            |            |            |            |            |            |            |            |
| <i>Gyraulus sp.</i>                |            |            |            |            |            |            |            |            |            |
| <i>Physa sp.</i>                   |            |            |            |            |            |            |            |            |            |
| <i>Pleurocera-Goniobasis sp.</i>   |            |            |            |            |            |            |            |            |            |
| <i>Valvata sp.</i>                 |            |            |            |            |            |            |            |            |            |
| Pelecypoda                         |            |            |            |            |            |            |            |            |            |
| Unionidae                          |            |            |            |            |            |            |            |            |            |
| <i>Amblema plicata</i>             |            |            |            |            |            |            |            |            |            |
| <i>Lampsilis ventricosa</i>        |            |            |            |            |            |            |            |            |            |
| <i>L. radiata</i>                  |            |            |            |            |            |            |            |            |            |
| <i>Leptodea fragilis</i>           |            |            |            |            |            |            |            |            |            |
| <i>Ligumia recta</i>               |            |            |            |            |            |            |            |            |            |
| <i>Potamilus alatus</i>            |            |            |            |            |            |            |            |            |            |
| <i>Quadrula pustulosa</i>          |            |            |            |            |            |            |            |            |            |
| Sphaeriidae                        |            |            |            |            |            |            |            |            |            |
| <i>Pisidium sp.</i>                |            |            |            |            |            |            |            |            |            |
| <i>Sphaerium sp.</i>               |            |            |            |            |            |            |            |            |            |
| Total                              | 1682       | 4489       | 3674       | 2497       | 1520       | 4344       | 362        | 0          | 6861       |

## Notes:

1. Sample collection date: 12-4-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-7 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
DECEMBER, 1973

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| BENTHOS SAMPLES                  | Sta.<br>19 | Sta.<br>20 |  |  |  |  |  |  |  |
|----------------------------------|------------|------------|--|--|--|--|--|--|--|
| COELENTERATA                     |            |            |  |  |  |  |  |  |  |
| <i>Hydra</i> sp.                 |            |            |  |  |  |  |  |  |  |
| PLATYHELMINTHES                  |            |            |  |  |  |  |  |  |  |
| Planariidae                      |            |            |  |  |  |  |  |  |  |
| ANNELIDA                         |            |            |  |  |  |  |  |  |  |
| Hirudinea                        |            |            |  |  |  |  |  |  |  |
| <i>Glossiphonia complanata</i>   |            |            |  |  |  |  |  |  |  |
| <i>Helobdella stagnalis</i>      |            |            |  |  |  |  |  |  |  |
| <i>Helobdella elongata</i>       |            |            |  |  |  |  |  |  |  |
| Oligochaeta, Immatures           | 235        | 181        |  |  |  |  |  |  |  |
| Tubificidae                      |            |            |  |  |  |  |  |  |  |
| <i>Branchiura sowerbyi</i>       |            |            |  |  |  |  |  |  |  |
| <i>Limnodrilus cervix</i>        |            |            |  |  |  |  |  |  |  |
| <i>L. claparedianus</i>          |            |            |  |  |  |  |  |  |  |
| <i>L. claparedianus-cervix</i>   |            |            |  |  |  |  |  |  |  |
| <i>L. hoffmeisteri</i>           | 36         |            |  |  |  |  |  |  |  |
| <i>L. maumeensis</i>             |            |            |  |  |  |  |  |  |  |
| <i>L. udekemianus</i>            |            |            |  |  |  |  |  |  |  |
| <i>Potamothenis moldaviensis</i> |            |            |  |  |  |  |  |  |  |
| <i>P. vejnovskyi</i>             |            |            |  |  |  |  |  |  |  |
| Naididae                         |            |            |  |  |  |  |  |  |  |
| <i>Nais</i> sp.                  |            |            |  |  |  |  |  |  |  |
| <i>Naidium</i> sp.               |            |            |  |  |  |  |  |  |  |
| <i>Fristina</i> sp.              |            |            |  |  |  |  |  |  |  |
| <i>Stylaria</i> sp.              |            |            |  |  |  |  |  |  |  |
| <i>Uncinaria uncinata</i> sp.    |            |            |  |  |  |  |  |  |  |
|                                  |            |            |  |  |  |  |  |  |  |
| ARTHROPODA                       |            |            |  |  |  |  |  |  |  |
| Isopoda                          |            |            |  |  |  |  |  |  |  |
| <i>Asellus</i> sp.               |            |            |  |  |  |  |  |  |  |
|                                  |            |            |  |  |  |  |  |  |  |
| Amphipoda                        |            |            |  |  |  |  |  |  |  |
| <i>Gammarus fasciatus</i>        |            |            |  |  |  |  |  |  |  |
| <i>Hyalella azteca</i>           |            |            |  |  |  |  |  |  |  |
|                                  |            |            |  |  |  |  |  |  |  |
| Ephemeroptera                    |            |            |  |  |  |  |  |  |  |
| <i>Caenis</i> sp.                |            |            |  |  |  |  |  |  |  |
|                                  |            |            |  |  |  |  |  |  |  |
|                                  |            |            |  |  |  |  |  |  |  |
| Trichoptera                      |            |            |  |  |  |  |  |  |  |
| <i>Athripsodes</i> sp.           |            |            |  |  |  |  |  |  |  |
| <i>Oecetis</i> sp.               |            |            |  |  |  |  |  |  |  |
| <i>Polycentropus</i> sp.         |            |            |  |  |  |  |  |  |  |

Notes:

1. Sample collection date: 12-4-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

TABLE A-7 CONT.  
ANALYSIS OF BENTHOS POPULATIONS AT LOCUST POINT  
DECEMBER, 1973

| BENTHOS SPECIES                    | Sta.<br>19 | Sta.<br>20 |  |  |  |  |  |  |  |
|------------------------------------|------------|------------|--|--|--|--|--|--|--|
| ARTHROPODA (Cont.)                 |            |            |  |  |  |  |  |  |  |
| Limnephilidae                      |            |            |  |  |  |  |  |  |  |
| Chironomidae                       |            |            |  |  |  |  |  |  |  |
| Chironominae                       |            |            |  |  |  |  |  |  |  |
| <i>Chironomus (Chironomus) sp.</i> |            |            |  |  |  |  |  |  |  |
| <i>C. (Cryptochironomus) sp.</i>   |            |            |  |  |  |  |  |  |  |
| <i>Polypedilum sp.</i>             |            |            |  |  |  |  |  |  |  |
| <i>Pseudochironomus sp.</i>        |            |            |  |  |  |  |  |  |  |
| <i>Tanytarsus sp.</i>              |            |            |  |  |  |  |  |  |  |
| Tanypodinae                        |            |            |  |  |  |  |  |  |  |
| <i>Coelotanypus sp.</i>            |            |            |  |  |  |  |  |  |  |
| <i>Procladius sp.</i>              |            |            |  |  |  |  |  |  |  |
| Orthoclaadiinae                    |            |            |  |  |  |  |  |  |  |
| <i>Cricotopus sp.</i>              |            |            |  |  |  |  |  |  |  |
| <i>Psectrocladius sp.</i>          |            |            |  |  |  |  |  |  |  |
| MOLLUSCA                           |            |            |  |  |  |  |  |  |  |
| Gastropoda                         |            |            |  |  |  |  |  |  |  |
| <i>Amnicola sp.</i>                |            |            |  |  |  |  |  |  |  |
| <i>Bulimus sp.</i>                 |            |            |  |  |  |  |  |  |  |
| <i>Gyraxius sp.</i>                |            |            |  |  |  |  |  |  |  |
| <i>Physa sp.</i>                   |            |            |  |  |  |  |  |  |  |
| <i>Pleurocera-Goniobasis sp.</i>   |            |            |  |  |  |  |  |  |  |
| <i>Valvata sp.</i>                 |            |            |  |  |  |  |  |  |  |
| Pelecypoda                         |            |            |  |  |  |  |  |  |  |
| Unionidae                          |            |            |  |  |  |  |  |  |  |
| <i>Amblema plicata</i>             |            |            |  |  |  |  |  |  |  |
| <i>Lampsilis ventricosa</i>        |            |            |  |  |  |  |  |  |  |
| <i>L. radiata</i>                  |            |            |  |  |  |  |  |  |  |
| <i>Leptodea fragilis</i>           |            |            |  |  |  |  |  |  |  |
| <i>Ligumia recta</i>               |            |            |  |  |  |  |  |  |  |
| <i>Potamilius alatus</i>           |            |            |  |  |  |  |  |  |  |
| <i>Quadrula pustulosa</i>          |            |            |  |  |  |  |  |  |  |
| Sphaeriidae                        |            |            |  |  |  |  |  |  |  |
| <i>Pisidium sp.</i>                |            |            |  |  |  |  |  |  |  |
| <i>Sphaerium sp.</i>               |            |            |  |  |  |  |  |  |  |
| Total                              | 271        | 181        |  |  |  |  |  |  |  |

Notes:

1. Sample collection date: 12-4-73
2. Collection method: Ponar Grab
3. Reported as number of individuals per square meter

APPENDIX B

ZOOPLANKTON POPULATIONS AT LOCUST POINT

1973

TABLE B-1  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
MAY, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>1 | Sta.<br>3 | Sta.<br>5 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 | Sta.<br>10 | Sta.<br>12 | Sta.<br>13 |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| ROTIFERA                      |           |           |           |           |           |           |            |            |            |
| <i>Asplanchna giroidi</i>     |           |           |           |           |           |           |            |            |            |
| <i>A. priodonta</i>           |           | 2.9       | 33.9      | 11.2      |           |           | 10.1       |            | 11.2       |
| <i>Brachionus angularis</i>   | 10.1      | 10.3      | 16.3      |           |           |           | 6.2        |            | 10.5       |
| <i>B. calyciflorus</i>        | 18.8      | 14.3      | 51.5      | 8.1       |           |           | 4.3        |            | 8.4        |
| <i>B. havanaensis</i>         |           |           |           |           |           |           |            |            |            |
| <i>B. (Platias) patulus</i>   |           |           |           |           |           |           |            |            |            |
| <i>B. quadridentatus</i>      |           |           |           |           |           |           |            |            |            |
| <i>Chromocaster ovalis</i>    |           |           |           |           |           |           |            |            |            |
| <i>Filinia terminalis</i>     | 79.4      | 17.7      | 40.7      | 19.3      |           |           | 57.8       |            | 23.8       |
| <i>Kellicottia longispina</i> | 5.8       | 6.3       | 8.1       | 3.7       |           |           | 4.3        |            | 4.9        |
| <i>Keratella cochlearis</i>   | 225.3     | 34.2      | 192.4     | 168.8     |           |           | 238.3      |            | 169.2      |
| <i>K. quadrata</i>            | 82.3      | 94.1      | 276.4     | 145.2     |           |           | 176.2      |            | 234.2      |
| <i>Lecane luna</i>            |           |           |           |           |           |           |            |            |            |
| <i>L. lunaris</i>             |           |           |           |           |           |           |            |            |            |
| <i>Lepadella patella</i>      |           |           |           |           |           |           | 2.9        |            |            |
| <i>Mytilina</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Notholca squamula</i>      |           |           |           |           |           |           |            |            |            |
| <i>Pleosoma</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Polyarthra</i> sp.         | 62.1      | 39.9      | 40.7      | 33.6      |           |           | 51.9       |            | 54.7       |
| <i>Trichocerca cylindrica</i> |           |           |           |           |           |           |            |            |            |
| <i>T. multierinis</i>         |           |           |           |           |           |           |            |            |            |
| Unidentifiable Rotifer        |           |           |           |           |           |           |            |            |            |
| COPEPODA                      |           |           |           |           |           |           |            |            |            |
| Calanoid copepods             |           |           |           |           |           |           |            |            |            |
| <i>Diaptomus</i> sp.          |           | 7.9       |           | 3.1       |           |           | 6.2        |            | 4.9        |
| <i>Eurytemora</i> sp.         |           | 1.1       | 1.4       |           |           |           |            |            |            |
| Immatures                     | 4.3       | 2.9       |           | 2.5       |           |           | 2.9        |            | 2.1        |
| Cyclopoid copepods            |           |           |           |           |           |           |            |            |            |
| <i>Cyclops</i> sp.            | 14.4      | 17.7      | 20.3      | 23.1      |           |           | 27.4       |            | 16.8       |
| <i>Mesocyclops</i> sp.        |           |           |           |           |           |           |            |            |            |
| Immatures                     | 46.2      | 19.4      | 36.6      | 23.6      |           |           | 43.3       |            | 34.9       |
| Nauplius                      | 210.8     | 169.9     | 363.1     | 217.4     |           |           | 194.9      |            | 273.3      |
| CLADOCERA                     |           |           |           |           |           |           |            |            |            |
| <i>Bosmina</i> sp.            | 2.9       | 2.9       | 8.1       | 0.6       |           |           | 5.8        |            | 2.1        |
| <i>Ceriodaphnia</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Chydorus</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Daphnia galeata</i>        |           |           |           |           |           |           |            |            |            |
| <i>D. pulex</i>               |           |           |           |           |           |           |            |            |            |
| <i>D. retrocurva</i>          | 4.3       | 1.7       |           | 1.9       |           |           | 12.9       |            | 1.4        |
| <i>Diaphanosoma</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Holopedium gibberum</i>    |           |           |           |           |           |           |            |            |            |
| <i>Leptodora kindtii</i>      | 1.4       |           | 1.4       |           |           |           |            |            |            |
| Total                         | 768.1     | 443.2     | 1090.9    | 662.1     |           |           | 845.4      |            | 852.4      |

## Notes:

1. Sample collection date: 5-25-73
2. Collection method: Vertical Tow, Wisconsin Net
3. Reported as number of zooplankters per liter

TABLE B-1 CONT.  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
MAY, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>17 | Sta.<br>18 | Sta.<br>19 | Sta.<br>20 | Mean #<br>/Sta.<br>Sampled |  |  |  |  |
|-------------------------------|------------|------------|------------|------------|----------------------------|--|--|--|--|
| ROTIFERA                      |            |            |            |            |                            |  |  |  |  |
| <i>Asplanchna giroidi</i>     |            |            |            |            |                            |  |  |  |  |
| <i>A. priodonta</i>           |            | 18.1       |            |            | 12.5                       |  |  |  |  |
| <i>Brachionus anularis</i>    |            | 8.7        |            |            | 8.9                        |  |  |  |  |
| <i>B. calyciflorus</i>        |            | 27.4       |            |            | 19.0                       |  |  |  |  |
| <i>B. havanensis</i>          |            |            |            |            |                            |  |  |  |  |
| <i>B. (Planias) patulus</i>   |            |            |            |            |                            |  |  |  |  |
| <i>B. quadridentatus</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Chromosaster ovalis</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Filinia terminalis</i>     |            | 22.4       |            |            | 37.3                       |  |  |  |  |
| <i>Kellicottia longispina</i> |            | 2.2        |            |            | 5.0                        |  |  |  |  |
| <i>Keratella cochlearis</i>   |            | 158.8      |            |            | 169.6                      |  |  |  |  |
| <i>K. quadrata</i>            |            | 249.8      |            |            | 179.7                      |  |  |  |  |
| <i>Lecane luna</i>            |            |            |            |            |                            |  |  |  |  |
| <i>L. lunaris</i>             |            |            |            |            |                            |  |  |  |  |
| <i>Lepadella patella</i>      |            |            |            |            | 0.4                        |  |  |  |  |
| <i>Mutillina</i> sp.          |            |            |            |            |                            |  |  |  |  |
| <i>Notholca squamula</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Pleosoma</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Polyarthra</i> sp.         |            | 42.6       |            |            | 46.5                       |  |  |  |  |
| <i>Trichocerca cylindrica</i> |            |            |            |            |                            |  |  |  |  |
| <i>T. multicrinis</i>         |            |            |            |            |                            |  |  |  |  |
| Unidentifiable Rotifer        |            |            |            |            |                            |  |  |  |  |
| COPEPODA                      |            |            |            |            |                            |  |  |  |  |
| Calanoid copepods             |            |            |            |            |                            |  |  |  |  |
| <i>Diaptomus</i> sp.          |            | 8.7        |            |            | 4.4                        |  |  |  |  |
| <i>Eurytemora</i> sp.         |            |            |            |            | 0.4                        |  |  |  |  |
| Immatures                     |            |            |            |            | 2.1                        |  |  |  |  |
| Cyclopoid copepods            |            |            |            |            |                            |  |  |  |  |
| <i>Cyclops</i> sp.            |            | 28.2       |            |            | 21.1                       |  |  |  |  |
| <i>Mesocyclops</i> sp.        |            |            |            |            |                            |  |  |  |  |
| Immatures                     |            | 41.2       |            |            | 34.9                       |  |  |  |  |
| Nauplius                      |            | 264.9      |            |            | 242.0                      |  |  |  |  |
| CLADOCERA                     |            |            |            |            |                            |  |  |  |  |
| <i>Bosmina</i> sp.            |            | 2.2        |            |            | 3.5                        |  |  |  |  |
| <i>Ceriodaphnia</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Chydorus</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Daphnia aculeata</i>       |            |            |            |            |                            |  |  |  |  |
| <i>D. pulex</i>               |            |            |            |            |                            |  |  |  |  |
| <i>D. retrocurva</i>          |            | 1.4        |            |            | 3.4                        |  |  |  |  |
| <i>Dicaphanosoma</i> sp.      |            |            |            |            |                            |  |  |  |  |
| <i>Holopedium gibberum</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Leptodora kindtii</i>      |            | 1.4        |            |            | 0.6                        |  |  |  |  |
| Total                         |            | 878.0      |            |            |                            |  |  |  |  |

## Notes:

1. Sample collection date: 5-25-73
2. Collection method: Vertical Tow, Wisconsin Net
3. Reported as number of zooplankters per liter

TABLE B-2  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
JUNE, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>1 | Sta.<br>3 | Sta.<br>5 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 | Sta.<br>10 | Sta.<br>12 | Sta.<br>13 |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| ROTIFERA                      |           |           |           |           |           |           |            |            |            |
| <i>Asplanchna giroidi</i>     |           |           |           |           |           |           |            |            |            |
| <i>A. priodonta</i>           |           |           |           |           |           |           | 0.9        |            |            |
| <i>Brachionus angularis</i>   |           | 0.6       | 7.8       | 4.8       |           |           | 25.6       |            | 8.1        |
| <i>B. calyciflorus</i>        |           |           |           |           |           |           | 1.9        |            |            |
| <i>B. havanaensis</i>         |           |           |           |           |           |           | 2.9        |            |            |
| <i>B. (Platytas) patulus</i>  |           |           |           |           |           |           |            |            |            |
| <i>B. quadridentatus</i>      |           |           | 1.7       |           |           |           |            |            |            |
| <i>Chromogaster ovalis</i>    |           |           |           |           |           |           |            |            |            |
| <i>Filinia terminalis</i>     |           |           |           |           |           |           | 9.9        |            | 0.6        |
| <i>Kellicottia longispina</i> | 1.9       |           |           |           |           |           |            |            |            |
| <i>Keratella cochlearis</i>   | 3.9       | 3.1       | 7.8       |           |           |           | 31.5       |            | 2.5        |
| <i>K. quadrata</i>            |           |           |           |           |           |           |            |            | 1.9        |
| <i>Lecane luna</i>            |           |           |           |           |           |           |            |            |            |
| <i>L. lunaris</i>             |           |           |           |           |           |           | 0.9        |            |            |
| <i>Lepadella patella</i>      |           |           |           |           |           |           |            |            |            |
| <i>Mytilina</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Notholca squamula</i>      |           |           |           |           |           |           |            |            |            |
| <i>Pleosoma</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Polyarthra</i> sp.         | 39.4      | 74.9      | 137.9     | 92.9      |           |           | 168.4      |            | 74.1       |
| <i>Trichocerca cylindrica</i> |           |           |           |           |           |           |            |            |            |
| <i>T. multicornis</i>         |           |           |           |           |           |           |            |            |            |
| Unidentifiable Rotifer        |           |           |           |           |           |           |            |            |            |
| <i>Conochiloides</i> sp.      |           |           |           |           |           |           |            |            |            |
| COPEPODA                      |           |           |           |           |           |           |            |            |            |
| Calanoid copepods             |           |           |           |           |           |           |            |            |            |
| <i>Diatomus</i> sp.           | 37.5      | 13.6      | 32.1      | 8.9       |           |           | 68.9       |            | 34.9       |
| <i>Eurytemora</i> sp.         |           |           |           |           |           |           |            |            |            |
| Immatures                     | 13.8      | 3.1       |           | 1.6       |           |           | 2.9        |            |            |
| Cyclopoid copepods            |           |           |           |           |           |           |            |            |            |
| <i>Cyclops</i> sp.            | 431.7     | 269.3     | 367.6     | 139.9     |           |           | 198.9      |            | 140.8      |
| <i>Mesocyclops</i> sp.        |           |           |           |           |           |           |            |            |            |
| Immatures                     | 25.6      | 22.3      | 59.8      | 26.4      |           |           | 68.9       |            | 33.0       |
| Nauplius                      | 295.6     | 456.2     | 423.9     | 166.3     |           |           | 328.9      |            | 234.9      |
| CLADOCERA                     |           |           |           |           |           |           |            |            |            |
| <i>Bosmina</i> sp.            | 17.7      | 13.6      | 104.9     | 31.2      |           |           | 58.1       |            | 34.3       |
| <i>Ceriodaphnia</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Chydorus</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Daphnia galeata</i>        |           |           | 0.9       | 0.5       |           |           |            |            |            |
| <i>D. pulex</i>               |           |           |           | 1.6       |           |           | 0.9        |            | 1.3        |
| <i>D. retrocurva</i>          | 110.4     | 60.0      | 209.8     | 107.7     |           |           | 163.5      |            | 54.2       |
| <i>Diaphanosoma</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Holopedium gibberum</i>    |           |           |           |           |           |           |            |            |            |
| <i>Leptodora kindtii</i>      |           |           |           |           |           |           |            |            |            |
| Total                         | 977.5     | 916.7     | 1354.2    | 581.8     |           |           | 1133.0     |            | 620.6      |

## Notes:

1. Sample collection date: 6-27-73
2. Collection method: Vertical Tow, Wisconsin Net
3. Reported as number of zooplankters per liter

TABLE B-2 CONT.  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
JUNE, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>17 | Sta.<br>18 | Sta.<br>19 | Sta.<br>20 | Mean #<br>/Sta.<br>Sampled |  |  |  |  |
|-------------------------------|------------|------------|------------|------------|----------------------------|--|--|--|--|
| ROTIFERA                      |            |            |            |            |                            |  |  |  |  |
| <i>Asplanchna giroidi</i>     |            |            |            |            |                            |  |  |  |  |
| <i>A. priodonta</i>           |            |            |            |            | 0.1                        |  |  |  |  |
| <i>Brachionus angularis</i>   |            | 6.9        | 1.9        | 2.4        | 6.5                        |  |  |  |  |
| <i>B. calyciflorus</i>        |            |            |            |            | 0.2                        |  |  |  |  |
| <i>B. havanaensis</i>         |            |            |            |            | 0.3                        |  |  |  |  |
| <i>B. (Platias) patulus</i>   |            |            |            |            |                            |  |  |  |  |
| <i>B. quadridentatus</i>      |            |            |            |            | 0.2                        |  |  |  |  |
| <i>Chromogaster ovalis</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Filinia terminalis</i>     |            | 1.9        | 39.2       | 0.9        | 5.8                        |  |  |  |  |
| <i>Kellicottia longispina</i> |            | 1.9        |            |            | 0.4                        |  |  |  |  |
| <i>Keratella cochlearis</i>   |            | 2.5        | 0.9        | 1.4        | 6.0                        |  |  |  |  |
| <i>K. quadrata</i>            |            |            |            |            | 0.2                        |  |  |  |  |
| <i>Lecane luna</i>            |            |            |            |            |                            |  |  |  |  |
| <i>L. lunaris</i>             |            |            |            |            | 0.1                        |  |  |  |  |
| <i>Lepadella patella</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Mytilina</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Notholca squamula</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Pleosoma</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Polarthra</i> sp.          |            | 94.1       | 39.4       | 40.9       | 84.7                       |  |  |  |  |
| <i>Trichocerca cylindrica</i> |            |            |            |            |                            |  |  |  |  |
| <i>T. multiseriis</i>         |            |            |            |            |                            |  |  |  |  |
| Unidentifiable Rotifer        |            |            |            |            |                            |  |  |  |  |
| <i>Conochiloides</i> sp.      |            |            |            |            |                            |  |  |  |  |
| COPEPODA                      |            |            |            |            |                            |  |  |  |  |
| Calanoid copepods             |            |            |            |            |                            |  |  |  |  |
| <i>Diaptomus</i> sp.          |            | 47.0       | 12.9       | 12.5       | 29.8                       |  |  |  |  |
| <i>Eurytemora</i> sp.         |            |            |            |            |                            |  |  |  |  |
| Immatures                     |            | 0.6        |            |            | 2.4                        |  |  |  |  |
| Cyclopoid copepods            |            |            |            |            |                            |  |  |  |  |
| <i>Cyclops</i> sp.            |            | 269.9      | 78.9       | 80.3       | 219.7                      |  |  |  |  |
| <i>Mesocyclops</i> sp.        |            |            |            |            |                            |  |  |  |  |
| Immatures                     |            | 42.1       | 12.0       | 13.5       | 33.7                       |  |  |  |  |
| Nauplius                      |            | 263.1      | 269.4      | 266.5      | 300.5                      |  |  |  |  |
| CLADOCERA                     |            |            |            |            |                            |  |  |  |  |
| <i>Bosmina</i> sp.            |            | 27.9       | 18.8       | 20.2       | 36.3                       |  |  |  |  |
| <i>Ceriodaphnia</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Chydorus</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Daphnia galeata</i>        |            |            |            |            | 0.2                        |  |  |  |  |
| <i>D. pulex</i>               |            | 1.2        |            |            | 0.6                        |  |  |  |  |
| <i>D. retrocurva</i>          |            | 70.6       | 39.4       | 37.0       | 94.7                       |  |  |  |  |
| <i>Diaphanosoma</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Holopedium gibberum</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Leptodora kindtii</i>      |            |            |            |            |                            |  |  |  |  |
| Total                         |            | 829.7      | 512.8      | 475.6      |                            |  |  |  |  |

## Notes:

1. Sample collection date: 6-27-73
2. Collection method: Vertical Tow, Wisconsin Net
3. Reported as number of zooplankters per liter

ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
JULY, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>1 | Sta.<br>3 | Sta.<br>5 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 | Sta.<br>10 | Sta.<br>12 | Sta.<br>13 |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| ROTIFERA                      |           |           |           |           |           |           |            |            |            |
| <i>Asplanchna giroidi</i>     |           |           |           |           |           |           |            |            |            |
| <i>A. priodonta</i>           | 15.8      | 4.7       | 8.3       | 7.8       |           | 12.0      | 3.3        |            | 2.7        |
| <i>Brachionus angularis</i>   | 12.9      | 2.0       | 7.2       | 3.9       |           | 3.5       | 1.7        |            | 1.4        |
| <i>B. calyciflorus</i>        | 1.4       |           |           |           |           |           |            |            |            |
| <i>B. havanaensis</i>         |           |           | 5.5       |           |           | 0.5       | 1.7        |            |            |
| <i>B. (Platys) patulus</i>    |           |           |           |           |           |           |            |            |            |
| <i>B. quadridentatus</i>      |           |           |           |           |           |           |            |            |            |
| <i>Chromocaster ovalis</i>    |           |           |           |           |           |           |            |            |            |
| <i>Filinia terminalis</i>     |           |           | 1.0       | 1.7       |           | 3.5       |            |            |            |
| <i>Kellicottia longispina</i> |           |           |           |           |           | .5        |            |            |            |
| <i>Keratella cochlearis</i>   | 30.3      | 22.3      | 45.8      | 37.7      |           | 8.0       | 26.7       |            | 8.1        |
| <i>K. quadrata</i>            |           |           |           |           |           |           |            |            |            |
| <i>Lecane luna</i>            |           |           | 0.7       |           |           |           |            |            |            |
| <i>L. lunaris</i>             |           |           |           |           |           |           |            |            |            |
| <i>Lepadella patella</i>      |           |           |           |           |           |           |            |            |            |
| <i>Mytilina</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Notholca squamula</i>      |           |           |           |           |           |           |            |            |            |
| <i>Pleosoma</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Polarthra</i> sp.          | 547.3     | 155.7     | 70.2      | 228.7     |           | 145.0     | 321.5      |            | 104.3      |
| <i>Trichocerca cylindrica</i> |           |           | 2.4       | 0.6       |           |           |            |            |            |
| <i>T. multicornis</i>         |           |           |           |           |           |           |            |            |            |
| Unidentifiable Rotifer        |           |           |           |           |           |           |            |            |            |
| <i>Conochiloides</i> sp.      | 14.4      | 6.1       | 3.1       | 7.8       |           | 5.5       | 6.7        |            | 7.5        |
| COPEPODA                      |           |           |           |           |           |           |            |            |            |
| Calanoid copepods             |           |           |           |           |           |           |            |            |            |
| <i>Diatomus</i> sp.           |           | 10.8      | 57.8      | 3.9       |           | 7.0       | 6.7        |            | 21.7       |
| <i>Eurytemora</i> sp.         |           |           |           |           |           |           |            |            |            |
| Immatures                     | 1.4       | 2.0       | 1.4       |           |           | 7.0       | 1.7        |            | 5.4        |
| Cyclopoid copepods            |           |           |           |           |           |           |            |            |            |
| <i>Cyclops</i> sp.            | 46.2      | 115.8     | 218.1     | 51.6      |           | 47.0      | 138.3      |            | 221.4      |
| <i>Mesocyclops</i> sp.        |           | 0.7       | 1.0       | 0.6       |           | 1.0       |            |            |            |
| Immatures                     | 50.5      | 12.9      | 8.3       | 7.8       |           | 26.0      | 34.9       |            | 15.6       |
| Nauplius                      | 651.2     | 161.1     | 133.5     | 300.3     |           | 223.5     | 289.9      |            | 121.2      |
| CLADOCERA                     |           |           |           |           |           |           |            |            |            |
| <i>Bosmina</i> sp.            | 12.9      | 9.5       | 9.6       | 13.9      |           | 10.0      | 19.9       |            | 15.6       |
| <i>Ceriodaphnia</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Chydorus</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Daphnia galeata</i>        | 1.4       | 1.4       |           | 4.9       |           | 2.0       |            |            |            |
| <i>D. pulex</i>               |           |           |           |           |           |           | 1.7        |            |            |
| <i>D. retrocurva</i>          | 41.9      | 41.9      |           | 49.4      |           | 61.0      | 23.3       |            | 7.5        |
| <i>Diaphanosoma</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Holopedium gibberum</i>    | 1.4       |           |           |           |           |           |            |            | 0.7        |
| <i>Leptodora kindtii</i>      |           | 0.7       |           | 0.6       |           |           |            |            |            |
| Total                         | 1429.0    | 547.6     | 573.9     | 621.2     |           | 563.0     | 878.0      |            | 533.1      |

## Notes:

1. Sample collection date: 7-25-73
2. Collection method: Vertical Tow, Wisconsin Net
3. Reported as number of zooplankters per liter

TABLE B-3 CONT.  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
JULY, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>17 | Sta.<br>18 | Sta.<br>19 | Sta.<br>20 | Mean #<br>/Sta.<br>Sampled |  |  |  |  |
|-------------------------------|------------|------------|------------|------------|----------------------------|--|--|--|--|
| ROTIFERA                      |            |            |            |            |                            |  |  |  |  |
| <i>Asplanchna giroidi</i>     |            |            |            |            |                            |  |  |  |  |
| <i>A. priodonta</i>           | 6.9        |            |            | 0.9        | 5.7                        |  |  |  |  |
| <i>Brachionus angularis</i>   |            |            | 0.4        | 2.5        | 3.6                        |  |  |  |  |
| <i>B. calyciflorus</i>        |            |            |            |            | .1                         |  |  |  |  |
| <i>B. havanaensis</i>         |            |            |            |            | 4.3                        |  |  |  |  |
| <i>B. (Platias) patulus</i>   |            |            |            |            |                            |  |  |  |  |
| <i>B. quadridentatus</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Chromocaster ovalis</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Filinia terminalis</i>     |            |            |            |            | 0.6                        |  |  |  |  |
| <i>Kellicottia longispina</i> |            |            |            |            | 0.1                        |  |  |  |  |
| <i>Keratella cochlearis</i>   | 25.1       |            | 0.4        |            | 20.4                       |  |  |  |  |
| <i>K. quadrata</i>            |            |            |            |            |                            |  |  |  |  |
| <i>Lecane luna</i>            |            |            |            |            |                            |  |  |  |  |
| <i>L. lunaris</i>             |            |            |            |            |                            |  |  |  |  |
| <i>Lepadella patella</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Mytilina</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Notholca squamula</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Pleucoma</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Polycartha</i> sp.         | 76.3       |            | 77.7       | 88.6       | 181.5                      |  |  |  |  |
| <i>Trichocerca cylindrica</i> |            |            |            |            | 0.3                        |  |  |  |  |
| <i>T. multicornis</i>         |            |            |            |            |                            |  |  |  |  |
| Unidentifiable Rotifer        |            |            |            |            |                            |  |  |  |  |
| <i>Conochiloides</i> sp.      |            |            | 0.4        | .9         | 5.2                        |  |  |  |  |
| COPEPODA                      |            |            |            |            |                            |  |  |  |  |
| Calanoid copepods             |            |            |            |            |                            |  |  |  |  |
| <i>Diatomus</i> sp.           | 4.3        |            | 21.2       | 14.7       | 14.8                       |  |  |  |  |
| <i>Eurytemora</i> sp.         |            |            |            |            |                            |  |  |  |  |
| Immatures                     | 8.7        |            | 1.2        | 2.9        | 3.2                        |  |  |  |  |
| Cyclopoid copepods            |            |            |            |            |                            |  |  |  |  |
| <i>Cyclops</i> sp.            | 276.6      |            | 242.1      | 118.1      | 147.5                      |  |  |  |  |
| <i>Mesocyclops</i> sp.        | 0.9        |            |            |            | 0.4                        |  |  |  |  |
| Immatures                     | 19.9       |            | 54.4       | 13.3       | 24.4                       |  |  |  |  |
| Nauplius                      | 137.9      |            | 190.2      | 116.1      | 232.5                      |  |  |  |  |
| CLADOCERA                     |            |            |            |            |                            |  |  |  |  |
| <i>Bosmina</i> sp.            | 13.0       |            | 0.4        | 3.9        | 10.9                       |  |  |  |  |
| <i>Ceriodaphnia</i> sp.       |            |            | 0.4        |            |                            |  |  |  |  |
| <i>Chydorus</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Daphnia galeata</i>        | 1.7        |            |            | 1.9        | 1.3                        |  |  |  |  |
| <i>D. pulex</i>               |            |            |            | 0.9        | 0.3                        |  |  |  |  |
| <i>D. retrocurva</i>          | 15.6       |            | 4.9        | 7.9        | 25.3                       |  |  |  |  |
| <i>Diaphanosoma</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Holopedium gibberum</i>    |            |            | 0.4        | 0.4        | 0.3                        |  |  |  |  |
| <i>Leptodora kindtii</i>      |            |            |            |            | 0.1                        |  |  |  |  |
| Total                         | 586.9      |            | 599.0      | 373.0      |                            |  |  |  |  |

## Notes:

1. Sample collection date: 7-25-73
2. Collection method: Vertical Tow, Wisconsin Net
3. Reported as number of zooplankters per liter

ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
AUGUST, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>1 | Sta.<br>3 | Sta.<br>5 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 | Sta.<br>10 | Sta.<br>12 | Sta.<br>13 |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| ROTIFERA                      |           |           |           |           |           |           |            |            |            |
| <i>Asplanchna giroidi</i>     |           | 0.6       |           |           |           |           |            |            |            |
| <i>A. priodonta</i>           | 37.2      | 8.0       | 30.3      | 7.4       | 0.5       |           | 45.8       | 22.6       | 15.7       |
| <i>Brachionus angularis</i>   | 69.7      | 30.3      | 41.6      | 11.1      | 12.1      | 7.6       | 69.9       | 29.2       | 15.7       |
| <i>B. calyciflorus</i>        | 1.5       | 1.2       | 0.9       |           |           | 0.5       |            |            |            |
| <i>B. havanaensis</i>         | 15.5      | 1.9       | 8.7       | 4.9       |           |           | 24.1       | 11.3       | 5.2        |
| <i>B. (Platias) patulus</i>   |           |           |           |           |           |           |            | 0.9        |            |
| <i>B. quadridentatus</i>      |           |           |           |           |           |           |            |            |            |
| <i>Chromogaster ovalis</i>    |           |           |           |           |           |           |            |            |            |
| <i>Filinia terminalis</i>     | 6.2       | 0.6       | 5.2       | 1.2       |           | 0.5       | 7.2        | 5.7        | 4.6        |
| <i>Kellicottia longispina</i> |           |           |           |           |           |           |            |            |            |
| <i>Keratella cochlearis</i>   | 15.5      | 18.6      | 17.3      | 15.5      | 5.3       | 4.5       | 36.1       | 20.7       | 11.2       |
| <i>K. quadrata</i>            |           |           |           |           |           |           |            |            |            |
| <i>Lecane luna</i>            |           |           |           |           |           |           |            |            |            |
| <i>L. lunaris</i>             |           |           |           |           |           |           |            |            |            |
| <i>Lepadella patella</i>      |           |           |           |           |           |           |            |            |            |
| <i>Mytilina</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Notholca squamula</i>      |           |           |           |           |           |           |            |            |            |
| <i>Pleosoma</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Polyanthra</i> sp.         | 320.6     | 98.4      | 100.6     |           | 31.2      | 30.2      | 240.9      | 227.9      | 57.1       |
| <i>Trichocerca cylindrica</i> | 18.6      | 4.3       | 5.2       | 1.9       |           |           | 19.3       |            |            |
| <i>T. multicornis</i>         | 9.3       | 4.9       | 1.7       | 3.1       |           |           |            | 7.5        | 2.6        |
| Unidentifiable Rotifer        |           |           |           |           |           |           |            |            |            |
| <i>Conochiloides</i> sp.      |           |           |           |           |           |           |            |            |            |
| COPEPODA                      |           |           |           |           |           |           |            |            |            |
| Calanoid copepods             |           |           |           |           |           |           |            |            |            |
| <i>Diatomus</i> sp.           |           | 1.2       | 0.9       | 7.4       | 2.6       | 10.5      |            | 0.9        | 3.2        |
| <i>Eurytemora</i> sp.         |           |           |           |           |           |           |            |            |            |
| Immatures                     |           | 3.7       | 5.2       | 1.6       | 1.6       | 6.0       |            | 2.8        | 3.9        |
| Cyclopoid copepods            |           |           |           |           |           |           |            |            |            |
| <i>Cyclops</i> sp.            |           | 14.9      | 6.1       | 14.9      | 33.2      | 131.0     | 2.4        | 3.8        | 5.9        |
| <i>Mesocyclops</i> sp.        |           |           | 1.7       |           |           |           |            |            | 0.7        |
| Immatures                     | 12.4      | 22.3      | 11.3      | 21.0      | 20.6      | 20.2      | 14.5       | 21.6       | 20.3       |
| Nauplius                      | 179.7     | 103.4     | 141.3     | 79.9      | 48.0      | 59.4      | 211.9      | 104.6      | 78.1       |
| CLADOCERA                     |           |           |           |           |           |           |            |            |            |
| <i>Bosmina</i> sp.            | 18.6      | 38.4      | 13.0      | 27.2      | 25.3      | 39.8      |            | 22.6       | 24.3       |
| <i>Ceriodaphnia</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Chydorus</i> sp.           |           |           |           | 0.6       | 0.5       | 0.5       |            |            |            |
| <i>Daphnia galeata</i>        |           |           |           | 1.2       |           | 1.5       |            | 0.9        |            |
| <i>D. pulex</i>               |           |           |           |           |           |           |            |            |            |
| <i>D. retrocurva</i>          | 4.6       | 25.4      | 19.9      | 16.1      | 12.1      | 21.2      | 12.0       | 15.1       | 14.4       |
| <i>Diaphanosoma</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Holopedium gibberum</i>    |           |           |           |           | 1.1       | 2.0       |            | 0.9        | 0.7        |
| <i>Leptodora kindtii</i>      |           | 1.9       | 2.6       | 2.5       | 1.1       |           | 2.4        | 0.9        | 2.6        |
| Total                         | 689.4     | 380.0     | 413.5     | 217.5     | 195.2     | 335.4     | 686.5      | 499.9      | 266.2      |

## Notes:

1. Sample collection date: 8-23-73
2. Collection method: Vertical Tow, Wisconsin Net
3. Reported as number of zooplankters per liter

TABLE B-4 CONT.  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
AUGUST, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>17 | Sta.<br>18 | Sta.<br>19 | Sta.<br>20 | Mean #<br>/Sta.<br>Sampled |  |  |  |  |
|-------------------------------|------------|------------|------------|------------|----------------------------|--|--|--|--|
| ROTIFERA                      |            |            |            |            |                            |  |  |  |  |
| <i>Asplanchna giroidi</i>     |            |            |            |            | .1                         |  |  |  |  |
| <i>A. priodonta</i>           | 12.0       |            | 35.1       | 25.4       | 20.0                       |  |  |  |  |
| <i>Brachionus angularis</i>   | 13.2       |            | 32.8       | 9.4        | 28.6                       |  |  |  |  |
| <i>B. calyciflorus</i>        |            |            |            | 2.3        | .5                         |  |  |  |  |
| <i>B. havanaensis</i>         |            |            | 7.0        | 3.7        | 6.9                        |  |  |  |  |
| <i>B. (Plautias) patulus</i>  |            |            |            |            |                            |  |  |  |  |
| <i>B. quadridentatus</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Chromogaster ovalis</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Filinia terminalis</i>     | 1.2        |            | 14.6       | 5.3        | 4.4                        |  |  |  |  |
| <i>Kellicottia longispina</i> |            |            |            |            |                            |  |  |  |  |
| <i>Keratella cochlearis</i>   | 10.8       |            | 24.6       | 6.1        | 15.5                       |  |  |  |  |
| <i>K. quadrata</i>            |            |            |            |            |                            |  |  |  |  |
| <i>Lecane luna</i>            |            |            |            |            |                            |  |  |  |  |
| <i>L. lunaris</i>             |            |            |            |            |                            |  |  |  |  |
| <i>Lepadella patella</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Mytilina</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Notholea squamula</i>      | 1.2        |            |            |            | .1                         |  |  |  |  |
| <i>Pleosoma</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Polyarthra</i> sp.         | 61.4       |            | 309.5      | 50.3       | 127.3                      |  |  |  |  |
| <i>Trichocerca cylindrica</i> |            |            | 7.0        | 3.7        | 5.0                        |  |  |  |  |
| <i>T. multierinis</i>         | 9.6        |            |            |            | 3.2                        |  |  |  |  |
| Unidentifiable Rotifer        |            |            |            |            |                            |  |  |  |  |
| <i>Conochiloides</i> sp.      |            |            | .6         |            | .1                         |  |  |  |  |
| COPEPODA                      |            |            |            |            |                            |  |  |  |  |
| Calanoid copepods             |            |            |            |            |                            |  |  |  |  |
| <i>Diaptomus</i> sp.          | 10.8       |            |            | 10.7       | 4.0                        |  |  |  |  |
| <i>Eurytemora</i> sp.         |            |            |            |            |                            |  |  |  |  |
| Immatures                     |            |            | 4.7        | 8.9        | 3.2                        |  |  |  |  |
| Cyclopoid copepods            |            |            |            |            |                            |  |  |  |  |
| <i>Cyclops</i> sp.            | 1.2        |            |            | 55.6       | 22.4                       |  |  |  |  |
| <i>Mesocyclops</i> sp.        |            |            |            | 1.6        | .3                         |  |  |  |  |
| Immatures                     | 34.9       |            | 2.9        | 35.9       | 19.8                       |  |  |  |  |
| Nauplius                      | 67.4       |            | 155.0      | 123.5      | 112.7                      |  |  |  |  |
| CLADOCERA                     |            |            |            |            |                            |  |  |  |  |
| <i>Bosmina</i> sp.            | 37.3       |            | 2.3        | 7.4        | 21.4                       |  |  |  |  |
| <i>Ceriodaphnia</i> sp.       | 2.4        |            |            |            | .2                         |  |  |  |  |
| <i>Chydorus</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Daphnia galeata</i>        | 1.2        |            |            | 1.6        | .4                         |  |  |  |  |
| <i>D. pulex</i>               |            |            |            |            |                            |  |  |  |  |
| <i>D. retrocurva</i>          | 22.9       |            | .6         | 8.2        | 14.4                       |  |  |  |  |
| <i>Diaphanosoma</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Holopedium gibberum</i>    | 1.2        |            |            | 2.9        | .7                         |  |  |  |  |
| <i>Leptodora kindtii</i>      |            |            | 1.2        |            | 1.3                        |  |  |  |  |
| Total                         | 288.7      |            | 597.9      | 362.5      |                            |  |  |  |  |

## Notes:

1. Sample collection date: 8-23-73
2. Collection method: Vertical Tow, Wisconsin Net
3. Reported as number of zooplankters per liter

TABLE B-5  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
SEPTEMBER, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>1 | Sta.<br>3 | Sta.<br>5 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 | Sta.<br>10 | Sta.<br>12 | Sta.<br>13 |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| ROTIFERA                      |           |           |           |           |           |           |            |            |            |
| <i>Asplanchna giroidi</i>     |           |           |           |           |           |           |            |            |            |
| <i>A. priodonta</i>           | 5.9       | 2.5       | 23.3      |           |           | 0.9       |            |            | 2.2        |
| <i>Brachionus angularis</i>   | 80.8      | 64.9      | 59.9      | 24.4      | 41.2      | 34.9      | 13.0       | 14.4       | 15.9       |
| <i>B. calyciflorus</i>        |           |           |           |           |           |           |            |            |            |
| <i>B. havanaensis</i>         | 17.7      | 9.2       | 13.3      | 12.2      | 11.9      | 5.2       | 39.0       | 4.3        | 5.1        |
| <i>B. (Platytas) patulus</i>  |           |           |           |           | 0.7       | 0.5       |            |            |            |
| <i>B. quadridentatus</i>      |           | 0.8       | 0.8       |           |           |           |            |            |            |
| <i>Chromaster ovalis</i>      |           |           | 3.3       |           |           |           |            |            |            |
| <i>Filinia terminalis</i>     |           |           |           |           |           |           |            |            |            |
| <i>Kellicottia longispina</i> |           |           |           |           |           |           |            |            |            |
| <i>Keratella cochlearis</i>   | 171.5     | 23.3      | 56.6      | 24.4      | 20.3      | 9.4       | 41.2       | 49.8       | 66.4       |
| <i>K. quadrata</i>            |           |           |           |           |           | 0.5       |            |            |            |
| <i>Lecane luna</i>            |           |           | 0.8       |           |           |           |            |            |            |
| <i>L. lunaris</i>             |           |           |           |           |           |           |            |            |            |
| <i>Lepadella patella</i>      |           |           |           |           |           |           |            |            |            |
| <i>Mytilina</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Notholca squamula</i>      |           |           |           |           |           |           |            |            |            |
| <i>Pleosoma</i> sp.           | 1.9       |           |           |           | 0.7       |           |            | 0.7        |            |
| <i>Polarthra</i> sp.          | 484.9     | 265.7     | 159.1     | 166.5     | 150.3     | 124.3     | 179.9      | 111.2      | 144.4      |
| <i>Trichocerca cylindrica</i> | 11.8      | 2.5       | 4.9       | 7.4       | 7.7       | 2.4       | 6.5        | 1.4        | 6.5        |
| <i>T. multicornis</i>         | 72.9      | 17.5      | 32.5      | 7.4       | 23.1      | 13.2      | 39.0       | 18.7       | 28.2       |
| Unidentifiable Rotifer        | 7.9       | 70.8      | 42.5      | 46.0      | 60.8      | 38.2      | 15.2       | 15.2       | 37.5       |
| <i>Conochiloides</i> sp.      | 17.7      | 9.9       |           |           |           |           |            |            |            |
| COPEPODA                      |           |           |           |           |           |           |            |            |            |
| Calanoid copepods             |           |           |           |           |           |           |            |            |            |
| <i>Diaptomus</i> sp.          |           | 0.8       | 5.8       | 0.7       | 4.2       | 0.9       | 2.2        | 1.4        | 1.4        |
| <i>Eurytemora</i> sp.         |           |           |           |           |           |           |            |            |            |
| Immatures                     |           | 1.7       |           |           |           | 0.5       |            | 0.7        |            |
| Cyclopoid copepods            |           |           |           |           |           |           |            |            |            |
| <i>Cyclops</i> sp.            | 35.5      | 9.2       | 13.3      | 4.7       | 9.9       | 7.5       | 49.9       | 27.4       | 7.9        |
| <i>Mesocyclops</i> sp.        |           |           | 1.7       |           | 2.1       | 1.4       |            | 2.9        |            |
| Immatures                     | 41.4      | 25.8      | 43.3      | 6.8       | 4.9       | 11.3      | 13.0       | 2.2        | 6.5        |
| Nauplius                      | 303.5     | 168.3     | 178.3     | 113.1     | 125.1     | 84.3      | 147.4      | 88.1       | 114.8      |
| CLADOCERA                     |           |           |           |           |           |           |            |            |            |
| <i>Bosmina</i> sp.            | 61.1      | 35.8      | 44.1      | 59.6      | 53.8      | 44.7      | 26.0       | 43.3       | 43.3       |
| <i>Ceriodaphnia</i> sp.       |           | 2.5       |           | 2.0       |           | 0.9       |            |            |            |
| <i>Chydorus</i> sp.           | 25.6      | 14.2      | 9.9       | 10.2      | 13.9      | 13.2      | 6.5        | 0.7        | 6.5        |
| <i>Daphnia galeata</i>        |           | 1.7       |           |           |           |           |            | 20.9       |            |
| <i>D. pulex</i>               |           |           |           |           |           |           |            |            |            |
| <i>D. retrocurva</i>          | 29.6      | 14.2      | 16.8      | 28.4      | 32.2      | 16.0      | 15.2       | 4.3        | 34.7       |
| <i>Diaphanosoma</i> sp.       | 1.9       |           | 0.8       | 0.7       |           |           |            |            |            |
| <i>Holopedium gibberum</i>    |           |           |           |           | 0.7       | 0.5       |            | 0.7        | 0.7        |
| <i>Leptodora kindtii</i>      | 1.9       | 0.8       | 0.8       |           |           |           |            |            |            |
| Total                         | 1373.5    | 742.1     | 711.8     | 514.5     | 563.5     | 410.7     | 594.0      | 408.3      | 522.0      |

## Notes:

1. Sample collection date: 9-26-73
2. Collection method: Vertical Tow, Wisconsin Net
3. Reported as number of zooplankters per liter.

TABLE B-5 CONT.  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
SEPTEMBER, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>17 | Sta.<br>18 | Sta.<br>19 | Sta.<br>20 | Mean #<br>/Sta.<br>Sampled |  |  |  |  |
|-------------------------------|------------|------------|------------|------------|----------------------------|--|--|--|--|
| ROTIFERA                      |            |            |            |            |                            |  |  |  |  |
| <i>Asplanchna giroidi</i>     |            |            |            |            |                            |  |  |  |  |
| <i>A. priodonta</i>           |            |            | 3.8        |            | 3.2                        |  |  |  |  |
| <i>Brachionus angularis</i>   | 13.4       |            | 14.1       | 13.7       | 32.6                       |  |  |  |  |
| <i>B. calyciflorus</i>        |            |            |            |            |                            |  |  |  |  |
| <i>B. havanaensis</i>         | 7.2        |            | 6.5        | 9.9        | 11.8                       |  |  |  |  |
| <i>B. (Plautias) patulus</i>  |            |            |            |            | 0.1                        |  |  |  |  |
| <i>B. quadridentatus</i>      |            |            |            |            | 0.1                        |  |  |  |  |
| <i>Chromogaster ovalis</i>    |            |            |            |            | 0.3                        |  |  |  |  |
| <i>Filinia terminalis</i>     |            |            |            |            |                            |  |  |  |  |
| <i>Kellicottia longispina</i> |            |            |            |            |                            |  |  |  |  |
| <i>Keratella cochlearis</i>   | 55.7       |            | 7.0        | 2.5        | 44.0                       |  |  |  |  |
| <i>K. quadrata</i>            |            |            |            |            | 0.0                        |  |  |  |  |
| <i>Lecane luna</i>            |            |            | 0.5        |            | 0.1                        |  |  |  |  |
| <i>L. lunaris</i>             |            |            |            |            |                            |  |  |  |  |
| <i>Lepadella patella</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Mytilina</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Notholca squamula</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Pleosoma</i> sp.           |            |            |            |            | 0.3                        |  |  |  |  |
| <i>Polyarthra</i> sp.         | 121.8      |            | 25.5       | 3.3        | 161.4                      |  |  |  |  |
| <i>Trichocerca cylindrica</i> | 3.1        |            | 0.5        |            | 4.6                        |  |  |  |  |
| <i>T. multicornis</i>         | 13.4       |            | 4.3        | 7.1        | 23.1                       |  |  |  |  |
| Unidentifiable Rotifer        | 44.4       |            | 3.8        | 9.9        | 32.7                       |  |  |  |  |
| <i>Conochiloides</i> sp.      | 2.1        |            |            |            | 2.5                        |  |  |  |  |
| COPEPODA                      |            |            |            |            |                            |  |  |  |  |
| Calanoid copepods             |            |            |            |            |                            |  |  |  |  |
| <i>Diaptomus</i> sp.          | 2.1        |            | 1.6        | 4.2        | 2.1                        |  |  |  |  |
| <i>Eurytemora</i> sp.         |            |            |            |            |                            |  |  |  |  |
| Immatures                     |            |            | 1.6        | 1.2        | 0.5                        |  |  |  |  |
| Cyclopoid copepods            |            |            |            |            |                            |  |  |  |  |
| <i>Cyclops</i> sp.            | 10.3       |            | 5.4        | 26.2       | 17.3                       |  |  |  |  |
| <i>Mesocyclops</i> sp.        |            |            |            |            | 0.7                        |  |  |  |  |
| Immatures                     | 5.2        |            | 11.4       | 17.5       | 15.8                       |  |  |  |  |
| Nauplius                      | 97.0       |            | 69.9       | 83.2       | 131.1                      |  |  |  |  |
| CLADOCERA                     |            |            |            |            |                            |  |  |  |  |
| <i>Bosmina</i> sp.            | 38.2       |            | 18.9       | 73.6       | 45.2                       |  |  |  |  |
| <i>Ceriodaphnia</i> sp.       | 1.0        |            |            |            | 0.5                        |  |  |  |  |
| <i>Chydorus</i> sp.           | 6.2        |            | 3.3        | 3.7        | 9.5                        |  |  |  |  |
| <i>Daphnia galeata</i>        | 17.5       |            | 0.5        | 1.2        | 3.5                        |  |  |  |  |
| <i>D. pulex</i>               |            |            |            |            |                            |  |  |  |  |
| <i>D. retrocurva</i>          |            |            | 3.3        | 12.1       | 17.2                       |  |  |  |  |
| <i>Diaphanosoma</i> sp.       |            |            |            |            | 0.3                        |  |  |  |  |
| <i>Holopedium gibberum</i>    |            |            | 1.6        | 0.8        | 0.4                        |  |  |  |  |
| <i>Leptodora kindtii</i>      |            |            |            |            | 0.3                        |  |  |  |  |
| Total                         | 438.6      |            | 183.5      | 270.1      |                            |  |  |  |  |

## Notes:

1. Sample collection date: 9-26-73
2. Collection method: Vertical Tow, Wisconsin Net
3. Reported as number of zooplankters per liter

TABLE B-6  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
NOVEMBER, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>17 | Sta.<br>18 | Sta.<br>19 | Sta.<br>20 | Mean #<br>/Sta.<br>Sampled |  |  |  |  |
|-------------------------------|------------|------------|------------|------------|----------------------------|--|--|--|--|
| ROTIFERA                      |            |            |            |            |                            |  |  |  |  |
| <i>Asplanchna giroidi</i>     |            |            |            |            |                            |  |  |  |  |
| <i>A. priodonta</i>           |            |            | 1.9        |            | 1.6                        |  |  |  |  |
| <i>Brachionus angularis</i>   |            |            | 0.6        |            | 0.1                        |  |  |  |  |
| <i>B. calyciflorus</i>        | 4.3        |            |            |            | 2.4                        |  |  |  |  |
| <i>B. havanensis</i>          |            |            |            |            |                            |  |  |  |  |
| <i>B. (Planitica) patulus</i> |            |            |            |            |                            |  |  |  |  |
| <i>B. quadridentatus</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Chromocaster ovalis</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Filinia terminalis</i>     |            |            |            |            |                            |  |  |  |  |
| <i>Kellicottia longispina</i> |            |            |            |            | 0.1                        |  |  |  |  |
| <i>Keratella cochlearis</i>   | 144.4      |            | 50.1       | 58.1       | 145.8                      |  |  |  |  |
| <i>K. quadrata</i>            | 10.1       |            | 5.6        | 5.9        | 13.2                       |  |  |  |  |
| <i>Lecane luna</i>            |            |            |            |            |                            |  |  |  |  |
| <i>L. lunaris</i>             |            |            |            |            |                            |  |  |  |  |
| <i>Lepadella patella</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Mytilina</i> sp.           |            |            |            |            | 0.2                        |  |  |  |  |
| <i>Notholca squamula</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Pleosoma</i> sp.           |            |            |            |            | 0.2                        |  |  |  |  |
| <i>Polarthra</i> sp.          | 53.4       |            | 3.1        | 2.9        | 88.8                       |  |  |  |  |
| <i>Trichocerca cylindrica</i> |            |            |            |            | 0.1                        |  |  |  |  |
| <i>T. multicornis</i>         | 1.4        |            | 1.9        |            | 1.0                        |  |  |  |  |
| Unidentifiable Rotifer        | 5.8        |            | 1.9        |            | 13.1                       |  |  |  |  |
| <i>Conochiloides</i> sp.      |            |            |            |            |                            |  |  |  |  |
| COPEPODA                      |            |            |            |            |                            |  |  |  |  |
| Calanoid copepods             |            |            |            |            |                            |  |  |  |  |
| <i>Diaptomus</i> sp.          |            |            |            |            | 0.9                        |  |  |  |  |
| <i>Eurytemora</i> sp.         |            |            |            |            |                            |  |  |  |  |
| Immatures                     |            |            |            |            |                            |  |  |  |  |
| Cyclopoid copepods            |            |            |            |            |                            |  |  |  |  |
| <i>Cyclops</i> sp.            | 1.4        |            | 1.2        | 2.9        | 2.1                        |  |  |  |  |
| <i>Mesocyclops</i> sp.        |            |            |            |            | 0.3                        |  |  |  |  |
| Immatures                     | 4.3        |            | 3.7        | 8.9        | 7.8                        |  |  |  |  |
| Nauplius                      | 34.7       |            | 22.3       | 46.3       | 35.1                       |  |  |  |  |
| CLADOCERA                     |            |            |            |            |                            |  |  |  |  |
| <i>Bosmina</i> sp.            | 14.4       |            | 18.6       | 50.2       | 28.9                       |  |  |  |  |
| <i>Ceriodaphnia</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Chydorus</i> sp.           | 11.6       |            | 3.1        | 3.9        | 7.7                        |  |  |  |  |
| <i>Daphnia galeata</i>        |            |            |            |            |                            |  |  |  |  |
| <i>D. pulex</i>               |            |            |            |            |                            |  |  |  |  |
| <i>D. retrocurva</i>          | 1.4        |            |            |            | 0.4                        |  |  |  |  |
| <i>Diaphanosoma</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Holopedium gibberum</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Leptodora kindtii</i>      |            |            |            |            |                            |  |  |  |  |
| Total                         | 287.2      |            | 114.0      | 179.1      |                            |  |  |  |  |

## Notes:

1. Sample collection date: 11-6-73
2. Collection method: Vertical Tow, Wisconsin Net
3. Reported as number of zooplankters per liter

TABLE B-6 CONT.  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
NOVEMBER, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>1 | Sta.<br>3 | Sta.<br>5 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 | Sta.<br>10 | Sta.<br>12 | Sta.<br>13 |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| ROTIFERA                      |           |           |           |           |           |           |            |            |            |
| <i>Asplanchna giroidi</i>     |           |           |           |           |           |           |            |            |            |
| <i>A. priodonta</i>           | 2.2       | 2.9       | 4.3       |           |           | 1.8       |            |            | 3.6        |
| <i>Brachionus angularis</i>   |           |           |           | 0.7       |           |           |            |            |            |
| <i>B. calyciflorus</i>        | 8.7       | 1.4       | 2.2       | 1.4       |           | 6.0       |            |            |            |
| <i>B. havanaensis</i>         |           |           |           |           |           |           |            |            |            |
| <i>B. (Platytas) patulus</i>  |           |           |           |           |           |           |            |            |            |
| <i>B. quadridentatus</i>      |           |           |           |           |           |           |            |            |            |
| <i>Chromogaster ovalis</i>    |           |           |           |           |           |           |            |            |            |
| <i>Filinia terminalis</i>     |           |           |           |           |           |           |            |            |            |
| <i>Kellicottia longispina</i> |           |           |           |           |           |           |            |            | 0.7        |
| <i>Keratella cochlearis</i>   | 197.3     | 106.9     | 143.1     | 132.8     |           | 101.1     | 370.7      |            | 153.1      |
| <i>K. quadrata</i>            | 23.8      | 10.1      | 15.2      | 12.3      |           | 14.4      | 23.8       |            | 10.8       |
| <i>Lecane luna</i>            |           |           |           |           |           |           |            |            |            |
| <i>L. lunaris</i>             |           |           |           |           |           |           |            |            |            |
| <i>Lepadella patella</i>      |           |           |           |           |           |           |            |            |            |
| <i>Mytilina</i> sp.           |           |           | 2.2       |           |           |           |            |            |            |
| <i>Notholca scaumula</i>      |           |           |           |           |           |           |            |            |            |
| <i>Pleosoma</i> sp.           |           | 2.2       |           |           |           |           |            |            |            |
| <i>Polyarthra</i> sp.         | 117.1     | 65.7      | 86.7      | 80.1      |           | 57.2      | 342.0      |            | 79.4       |
| <i>Trichocerca cylindrica</i> |           |           |           |           |           |           |            |            | 0.7        |
| <i>T. multicornis</i>         | 6.5       |           |           |           |           | 0.6       |            |            |            |
| Unidentifiable Rotifer        | 19.5      | 10.1      | 32.5      | 17.3      |           | 12.0      | 21.7       |            | 10.1       |
| <i>Conochiloides</i> sp.      |           |           |           |           |           |           |            |            |            |
| COPEPODA                      |           |           |           |           |           |           |            |            |            |
| Calanoid copepods             |           |           |           |           |           |           |            |            |            |
| <i>Diaptomus</i> sp.          |           |           |           | 0.7       |           |           | 8.5        |            |            |
| <i>Eurytemora</i> sp.         |           |           |           |           |           |           |            |            |            |
| Immatures                     |           |           |           |           |           |           |            |            |            |
| Cyclopoid copepods            |           |           |           |           |           |           |            |            |            |
| <i>Cyclops</i> sp.            |           | 0.7       |           |           |           | 1.8       | 8.5        |            | 4.5        |
| <i>Mesocyclops</i> sp.        |           |           |           | 0.7       |           | 0.6       |            |            | 1.4        |
| Immatures                     | 8.7       | 2.2       | 13.0      | 2.9       |           | 4.8       | 21.7       |            | 7.9        |
| Nauplius                      | 56.4      | 19.5      | 39.0      | 26.7      |           | 22.3      | 45.5       |            | 38.3       |
| CLADOCERA                     |           |           |           |           |           |           |            |            |            |
| <i>Bosmina</i> sp.            | 34.7      | 20.2      | 23.8      | 20.9      |           | 20.5      | 43.4       |            | 41.9       |
| <i>Ceriodaphnia</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Chydorus</i> sp.           | 10.8      | 4.3       | 6.5       | 4.3       |           | 3.6       | 16.9       |            | 12.3       |
| <i>Daphnia galeata</i>        |           |           |           |           |           |           |            |            |            |
| <i>D. pulex</i>               |           |           |           |           |           |           |            |            |            |
| <i>D. retrocurva</i>          |           | 1.4       |           |           |           |           |            |            | 1.4        |
| <i>Diaphanosoma</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Holopedium gibberum</i>    |           |           |           |           |           |           |            |            |            |
| <i>Leptodora kindtii</i>      |           |           |           |           |           |           |            |            |            |
| Total                         | 485.7     | 247.6     | 368.5     | 300.8     |           | 246.7     | 902.7      |            | 366.1      |

## Notes:

1. Sample collection date: 11-6-73
2. Collection method: Vertical Tow, Wisconsin Net
3. Reported as number of zooplankters per liter

TABLE B-7  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
DECEMBER, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>1 | Sta.<br>3 | Sta.<br>5 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 | Sta.<br>10 | Sta.<br>12 | Sta.<br>13 |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| ROTIFERA                      |           |           |           |           |           |           |            |            |            |
| <i>Asplanchna giroidi</i>     |           |           |           |           |           |           |            |            |            |
| <i>A. priodonta</i>           | 13.0      | 1.7       |           | 7.2       |           | 8.9       | 8.1        |            | 6.9        |
| <i>Brachionus angularis</i>   |           |           |           |           |           |           | 2.7        |            |            |
| <i>B. calyciflorus</i>        | 13.0      | 36.7      | 21.7      | 19.2      |           | 18.4      | 24.4       |            | 19.4       |
| <i>B. havanaensis</i>         |           |           |           |           |           |           |            |            |            |
| <i>B. (Planorbis) patulus</i> |           |           |           |           |           |           |            |            |            |
| <i>B. quadridentatus</i>      |           |           |           |           |           |           |            |            |            |
| <i>Chromogaster ovalis</i>    |           |           |           |           |           |           |            |            |            |
| <i>Filinia terminalis</i>     |           |           | 1.8       |           |           |           |            |            |            |
| <i>Kellicottia longispina</i> | 6.5       | 3.3       | 1.8       | 1.6       |           | 3.2       |            |            | 2.3        |
| <i>Keratella cochlearis</i>   | 175.6     | 97.5      | 90.4      | 85.8      |           | 75.5      | 235.9      |            | 47.9       |
| <i>K. quadrata</i>            | 13.0      | 17.0      | 12.6      | 10.4      |           | 8.9       | 24.4       |            | 17.8       |
| <i>Lecane luna</i>            |           |           |           |           |           |           |            |            |            |
| <i>L. lunaris</i>             |           |           |           |           |           |           |            |            |            |
| <i>Lepadella patella</i>      |           |           |           |           |           |           |            |            |            |
| <i>Mytilina</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Notholca squamula</i>      |           |           |           |           |           |           |            |            |            |
| <i>Pleosoma</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Polyarthra</i> sp.         | 38.6      | 42.5      | 79.5      | 40.1      |           | 68.1      | 146.4      |            | 38.8       |
| <i>Trichocerca cylindrica</i> |           |           |           |           |           |           |            |            |            |
| <i>T. multierinis</i>         |           |           |           |           |           |           |            |            |            |
| Unidentifiable Rotifer        | 23.8      | 23.3      | 12.6      | 20.9      |           | 18.4      | 37.9       |            | 19.4       |
| <i>Conochiloides</i> sp.      |           |           |           |           |           |           |            |            |            |
| COPEPODA                      |           |           |           |           |           |           |            |            |            |
| Calanoid copepods             |           |           |           |           |           |           |            |            |            |
| <i>Diaptomus</i> sp.          | 2.2       |           |           |           |           |           |            |            |            |
| <i>Eurytemora</i> sp.         |           |           |           |           |           |           |            |            |            |
| Immatures                     |           |           |           |           |           |           |            |            |            |
| Cyclopoid copepods            |           |           |           |           |           |           |            |            |            |
| <i>Cyclops</i> sp.            |           |           |           |           |           |           |            |            |            |
| <i>Mesocyclops</i> sp.        |           |           |           |           |           |           |            |            |            |
| Immatures                     | 26.0      | 4.9       | 5.4       | 7.2       |           | 3.2       | 2.7        |            | 0.8        |
| Nauplius                      | 39.0      | 38.3      | 21.7      | 33.7      |           | 33.3      | 32.5       |            | 9.3        |
| CLADOCERA                     |           |           |           |           |           |           |            |            |            |
| <i>Bosmina</i> sp.            | 73.7      | 14.9      | 57.8      | 12.8      |           | 8.9       | 40.7       |            | 6.9        |
| <i>Ceriodaphnia</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Chydorus</i> sp.           |           |           | 1.8       | 1.6       |           | 1.6       |            |            |            |
| <i>Daphnia galeata</i>        |           |           |           |           |           |           |            |            |            |
| <i>D. pulex</i>               |           |           |           |           |           |           |            |            |            |
| <i>D. retrocurva</i>          |           |           |           |           |           |           |            |            |            |
| <i>Diaphanosoma</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Holopedium gibberum</i>    |           |           |           |           |           |           |            |            |            |
| <i>Leptodora kindtii</i>      |           |           |           |           |           |           |            |            |            |
| Total                         | 424.4     | 280.1     | 307.1     | 240.5     |           | 248.4     | 555.7      |            | 169.5      |

Notes:

1. Sample collection date: 12-4-73
2. Collection method: Vertical Tow, Wisconsin Net
3. Reported as number of zooplankters per liter

TABLE B-7 CONT.  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
DECEMBER, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>17 | Sta.<br>18 | Sta.<br>19 | Sta.<br>20 | Mean #<br>/Sta.<br>Sampled |  |  |  |  |
|-------------------------------|------------|------------|------------|------------|----------------------------|--|--|--|--|
| ROTIFERA                      |            |            |            |            |                            |  |  |  |  |
| <i>Asplanchna giroidi</i>     |            |            |            |            |                            |  |  |  |  |
| <i>A. priodonta</i>           | 1.7        |            | 1.1        | 0.8        | 4.9                        |  |  |  |  |
| <i>Brachionus angularis</i>   |            |            |            |            | .3                         |  |  |  |  |
| <i>B. calyciflorus</i>        | 23.3       |            | 15.4       | 6.3        | 19.8                       |  |  |  |  |
| <i>B. havanaensis</i>         |            |            |            |            |                            |  |  |  |  |
| <i>B. (Platias) patulus</i>   |            |            |            |            |                            |  |  |  |  |
| <i>B. quadridentatus</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Chromocaster ovalis</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Filinia terminalis</i>     |            |            |            |            | 0.2                        |  |  |  |  |
| <i>Kellicottia longispina</i> | 6.7        |            | 3.9        | 1.3        | 3.0                        |  |  |  |  |
| <i>Keratella cochlearis</i>   | 104.9      |            | 50.2       | 52.2       | 101.6                      |  |  |  |  |
| <i>K. quadrata</i>            | 14.9       |            | 18.8       | 3.8        | 14.2                       |  |  |  |  |
| <i>Lecane luna</i>            |            |            |            |            |                            |  |  |  |  |
| <i>L. lunaris</i>             |            |            |            |            |                            |  |  |  |  |
| <i>Lepadella patella</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Mytilina</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Notholca squamula</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Pleosoma</i> sp.           | 1.7        |            |            |            | 0.2                        |  |  |  |  |
| <i>Polyarthra</i> sp.         | 84.9       |            | 38.2       | 15.2       | 59.2                       |  |  |  |  |
| <i>Trichocerca cylindrica</i> |            |            |            |            |                            |  |  |  |  |
| <i>T. multicornis</i>         |            |            |            |            |                            |  |  |  |  |
| Unidentifiable Rotifer        | 13.3       |            | 21.1       | 6.7        | 19.7                       |  |  |  |  |
| <i>Conochiloides</i> sp.      |            |            |            |            |                            |  |  |  |  |
| COPEPODA                      |            |            |            |            |                            |  |  |  |  |
| Calanoid copepods             |            |            |            |            |                            |  |  |  |  |
| <i>Diaptomus</i> sp.          |            |            |            |            | 0.2                        |  |  |  |  |
| <i>Eurytemora</i> sp.         |            |            |            |            |                            |  |  |  |  |
| Immatures                     |            |            |            |            |                            |  |  |  |  |
| Cyclopoid copepods            |            |            |            |            |                            |  |  |  |  |
| <i>Cyclops</i> sp.            |            |            |            |            |                            |  |  |  |  |
| <i>Mesocyclops</i> sp.        |            |            |            |            |                            |  |  |  |  |
| Immatures                     | 1.7        |            | 5.7        | 1.3        | 5.9                        |  |  |  |  |
| Nauplius                      | 23.3       |            | 19.4       | 11.4       | 26.2                       |  |  |  |  |
| CLADOCERA                     |            |            |            |            |                            |  |  |  |  |
| <i>Bosmina</i> sp.            | 18.3       |            | 4.6        | 5.9        | 24.5                       |  |  |  |  |
| <i>Ceriodaphnia</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Chydorus</i> sp.           |            |            | 0.6        | 1.3        | 0.7                        |  |  |  |  |
| <i>Daphnia galeata</i>        |            |            |            |            |                            |  |  |  |  |
| <i>D. pulex</i>               |            |            |            |            |                            |  |  |  |  |
| <i>D. retrocurva</i>          |            |            |            |            |                            |  |  |  |  |
| <i>Diaphanosoma</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Holopedium gibberum</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Leptodora kindtii</i>      |            |            |            |            |                            |  |  |  |  |
| Total                         | 294.7      |            | 179.0      | 106.2      |                            |  |  |  |  |

## Notes:

1. Sample collection date: 12-4-73
2. Collection method: Vertical Tow, Wisconsin Net
3. Reported as number of zooplankters per liter

TABLE B-8

ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
MAY, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>1 | Sta.<br>3 | Sta.<br>5 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 | Sta.<br>10 | Sta.<br>12 | Sta.<br>13 |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| ROTIFERA                      |           |           |           |           |           |           |            |            |            |
| <i>Asplanchna giroidi</i>     |           |           |           |           |           |           |            |            |            |
| <i>A. priocanta</i>           | 11.2      |           | 22.4      | 11.2      |           |           | 16.8       |            | 11.2       |
| <i>Brachionus ocellularis</i> | 16.8      | 5.6       | 11.2      |           |           |           | 22.4       |            | 39.2       |
| <i>B. calyciflorus</i>        | 16.8      | 11.2      | 22.4      | 28.0      |           |           | 11.2       |            | 5.6        |
| <i>B. havanaensis</i>         |           |           |           |           |           |           |            |            |            |
| <i>B. (Planorbis) patulus</i> |           |           |           |           |           |           |            |            |            |
| <i>B. quadridentatus</i>      |           |           |           |           |           |           |            |            |            |
| <i>Chromosaster ovalis</i>    |           |           |           |           |           |           |            |            |            |
| <i>Filinia terminalis</i>     | 61.6      | 44.8      | 28.0      | 22.4      |           |           | 44.8       |            | 72.8       |
| <i>Kellicottia longispina</i> | 5.6       | 39.2      | 5.6       | 11.2      |           |           |            |            | 11.2       |
| <i>Keratella cochlearis</i>   | 106.4     | 67.2      | 106.4     | 190.4     |           |           | 252.0      |            | 117.6      |
| <i>K. quadrata</i>            | 61.6      | 212.8     | 117.6     | 604.8     |           |           | 218.4      |            | 414.4      |
| <i>Lecane luna</i>            |           |           |           |           |           |           |            |            |            |
| <i>L. lunaris</i>             |           |           |           |           |           |           |            |            |            |
| <i>Lepadella patella</i>      |           |           |           |           |           |           |            |            |            |
| <i>Mytilina</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Notholca squamula</i>      |           |           |           |           |           |           |            |            |            |
| <i>Pleosoma</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Polarthra</i> sp.          | 39.2      | 67.2      | 11.2      | 72.8      |           |           | 50.4       |            | 61.6       |
| <i>Trichocerca cylindrica</i> |           |           |           |           |           |           |            |            |            |
| <i>T. multicornis</i>         |           |           |           |           |           |           | 5.6        |            |            |
| Unidentifiable Rotifer        |           |           |           |           |           |           |            |            |            |
| <i>Conochiloides</i> sp.      |           |           |           |           |           |           |            |            |            |
| COPEPODA                      |           |           |           |           |           |           |            |            |            |
| Calanoid copepods             |           |           |           |           |           |           |            |            |            |
| <i>Diaptomus</i> sp.          |           | 16.8      |           |           |           |           | 5.6        |            |            |
| <i>Eurytemora</i> sp.         |           |           |           |           |           |           |            |            |            |
| Immatures                     |           | 11.2      |           |           |           |           | 11.2       |            |            |
| Cyclopoid copepods            |           |           |           |           |           |           |            |            |            |
| <i>Cyclops</i> sp.            | 16.8      | 11.2      | 11.2      | 5.6       |           |           | 22.4       |            | 11.2       |
| <i>Mesocyclops</i> sp.        |           |           |           |           |           |           |            |            |            |
| Immatures                     | 33.6      | 33.6      | 11.2      | 22.4      |           |           | 39.6       |            | 33.6       |
| Nauplius                      | 235.2     | 218.4     | 235.2     | 358.4     |           |           | 229.6      |            | 319.2      |
| CLADOCERA                     |           |           |           |           |           |           |            |            |            |
| <i>Bosmina</i> sp.            | 5.6       |           |           | 5.6       |           |           |            |            |            |
| <i>Ceriodaphnia</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Chydorus</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Daphnia galeata</i>        |           |           |           |           |           |           |            |            |            |
| <i>D. pulex</i>               |           |           |           |           |           |           |            |            |            |
| <i>D. retrocurva</i>          | 11.2      |           |           |           |           |           |            |            |            |
| <i>Diaphanosoma</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Holopedium gibberum</i>    |           |           |           |           |           |           |            |            |            |
| <i>Leptodora kindtii</i>      | 5.6       | 5.6       |           |           |           |           |            |            |            |
| Total                         | 627.2     | 744.8     | 582.4     | 1332.8    |           |           | 930.0      |            | 1097.6     |

## Notes:

1. Sample collection date: 5-25-73
2. Collection method: 3-liter Surface Grab
3. Reported as number of zooplankters per liter

TABLE B-8 CONT.  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
MAY, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>17 | Sta.<br>18 | Sta.<br>19 | Sta.<br>20 | Mean #<br>/Sta.<br>Sampled |  |  |  |  |
|-------------------------------|------------|------------|------------|------------|----------------------------|--|--|--|--|
| ROTIFERA                      |            |            |            |            |                            |  |  |  |  |
| <i>Asplanchna giroidi</i>     |            |            |            |            |                            |  |  |  |  |
| <i>A. priodonta</i>           |            |            |            |            | 12.1                       |  |  |  |  |
| <i>Brachionus angularis</i>   |            |            |            |            | 15.9                       |  |  |  |  |
| <i>B. calyciflorus</i>        |            |            |            |            | 15.9                       |  |  |  |  |
| <i>B. havanaensis</i>         |            |            |            |            |                            |  |  |  |  |
| <i>B. (Plastias) patulus</i>  |            |            |            |            |                            |  |  |  |  |
| <i>B. quadridentatus</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Chromogaster ovalis</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Filinia terminalis</i>     |            |            |            |            | 45.7                       |  |  |  |  |
| <i>Kellicottia longispina</i> |            |            |            |            | 12.1                       |  |  |  |  |
| <i>Keratella cochlearis</i>   |            |            |            |            | 140.7                      |  |  |  |  |
| <i>K. quadrata</i>            |            |            |            |            | 271.6                      |  |  |  |  |
| <i>Lecane luna</i>            |            |            |            |            |                            |  |  |  |  |
| <i>L. lunaris</i>             |            |            |            |            |                            |  |  |  |  |
| <i>Lepadella patella</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Mytilina</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Notholca squamula</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Pleosoma</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Polyarthra</i> sp.         |            |            |            |            | 50.4                       |  |  |  |  |
| <i>Trichocerca cylindrica</i> |            |            |            |            |                            |  |  |  |  |
| <i>T. multierinis</i>         |            |            |            |            | 0.9                        |  |  |  |  |
| Unidentifiable Rotifer        |            |            |            |            |                            |  |  |  |  |
| <i>Conochiloides</i> sp.      |            |            |            |            |                            |  |  |  |  |
| COPEPODA                      |            |            |            |            |                            |  |  |  |  |
| Calanoid copepods             |            |            |            |            |                            |  |  |  |  |
| <i>Diatomus</i> sp.           |            |            |            |            | 3.7                        |  |  |  |  |
| <i>Eurytemora</i> sp.         |            |            |            |            |                            |  |  |  |  |
| Immatures                     |            |            |            |            | 3.7                        |  |  |  |  |
| Cyclopoid copepods            |            |            |            |            |                            |  |  |  |  |
| <i>Cyclops</i> sp.            |            |            |            |            | 13.1                       |  |  |  |  |
| <i>Mesocyclops</i> sp.        |            |            |            |            |                            |  |  |  |  |
| Immatures                     |            |            |            |            | 29.0                       |  |  |  |  |
| Nauplius                      |            |            |            |            | 266.0                      |  |  |  |  |
| CLADOCERA                     |            |            |            |            |                            |  |  |  |  |
| <i>Bosmina</i> sp.            |            |            |            |            |                            |  |  |  |  |
| <i>Ceriodaphnia</i> sp.       |            |            |            |            | 1.9                        |  |  |  |  |
| <i>Chydorus</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Daphnia galeata</i>        |            |            |            |            |                            |  |  |  |  |
| <i>D. pulex</i>               |            |            |            |            |                            |  |  |  |  |
| <i>D. retrocurva</i>          |            |            |            |            | 1.9                        |  |  |  |  |
| <i>Diaphanosoma</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Holopedium gibberum</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Leptodora kindtii</i>      |            |            |            |            | 1.9                        |  |  |  |  |
| Total                         |            |            |            |            |                            |  |  |  |  |

## Notes:

1. Sample collection date: 5-25-73
2. Collection method: 3-liter Surface Grab
3. Reported as number of zooplankters per liter

TABLE B-9  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
JUNE, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>1 | Sta.<br>3 | Sta.<br>5 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 | Sta.<br>10 | Sta.<br>12 | Sta.<br>13 |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| ROTIFERA                      |           |           |           |           |           |           |            |            |            |
| <i>Asplanchna giroidi</i>     |           |           |           |           |           |           |            |            |            |
| <i>A. priodonta</i>           |           |           |           |           |           |           |            |            |            |
| <i>Brachionus angularis</i>   |           |           | 16.8      |           |           |           | 16.8       |            | 5.6        |
| <i>B. calyciflorus</i>        |           |           |           |           |           |           |            |            |            |
| <i>B. havanensis</i>          |           |           |           |           |           |           |            |            |            |
| <i>B. (Platys) patulus</i>    |           |           |           |           |           |           |            |            |            |
| <i>B. quadridentatus</i>      |           |           |           |           |           |           |            |            |            |
| <i>Chromosaster ovalis</i>    |           |           |           |           |           |           |            |            |            |
| <i>Filinia terminalis</i>     |           | 5.6       | 5.6       |           |           |           | 5.6        |            |            |
| <i>Kellicottia longispina</i> |           |           |           |           |           |           |            |            |            |
| <i>Keratella cochlearis</i>   |           |           |           |           |           |           |            |            |            |
| <i>K. quadrata</i>            |           |           |           |           |           |           |            |            |            |
| <i>Lecane luna</i>            |           |           |           |           |           |           |            |            |            |
| <i>L. lunaris</i>             |           |           |           |           |           |           |            |            |            |
| <i>Lepadella patella</i>      |           |           |           |           |           |           |            |            |            |
| <i>Mytilina</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Notholca squamula</i>      |           |           |           |           |           |           |            |            |            |
| <i>Pleosoma</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Polyarthra</i> sp.         | 50.4      | 84.0      | 112.0     | 414.4     |           |           | 84.0       |            | 95.2       |
| <i>Trichocerca alvindraca</i> |           |           |           |           |           |           |            |            |            |
| <i>T. multicornis</i>         |           |           |           |           |           |           |            |            |            |
| Unidentifiable Rotifer        |           |           |           |           |           |           |            |            |            |
| <i>Conochiloides</i> sp.      |           |           |           |           |           |           |            |            |            |
| COPEPODA                      |           |           |           |           |           |           |            |            |            |
| Calanoid copepods             |           |           |           |           |           |           |            |            |            |
| <i>Diaptomus</i> sp.          | 11.2      |           | 11.2      | 5.6       |           |           | 5.6        |            | 22.4       |
| <i>Eurytemora</i> sp.         |           |           |           |           |           |           |            |            |            |
| Immatures                     |           |           |           |           |           |           | 11.2       |            |            |
| Cyclopoid copepods            |           |           |           |           |           |           |            |            |            |
| <i>Cyclops</i> sp.            | 84.0      | 89.6      | 128.8     | 106.4     |           |           | 67.8       |            | 100.8      |
| <i>Mesocyclops</i> sp.        |           |           |           |           |           |           |            |            |            |
| Immatures                     |           | 28.0      | 11.2      | 11.2      |           |           | 44.8       |            | 50.4       |
| Nauplius                      | 352.8     | 582.4     | 498.4     | 308.0     |           |           | 319.2      |            | 319.2      |
| CLADOCERA                     |           |           |           |           |           |           |            |            |            |
| <i>Bosmina</i> sp.            | 16.8      | 50.4      | 33.6      | 16.8      |           |           | 44.8       |            | 22.4       |
| <i>Ceriodaphnia</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Chydorus</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Daphnia galeata</i>        |           |           |           |           |           |           |            |            |            |
| <i>D. pulex</i>               |           |           |           |           |           |           |            |            |            |
| <i>D. retrocurva</i>          | 11.2      | 22.4      | 61.6      | 50.4      |           |           | 22.4       |            | 56.0       |
| <i>Diaphanosoma</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Holopedium gibberum</i>    |           |           |           |           |           |           |            |            |            |
| <i>Leptodora kindtii</i>      |           |           |           |           |           |           |            |            |            |
| Total                         | 526.4     | 862.4     | 879.2     | 912.8     |           |           | 622.2      |            | 672.0      |

## Notes:

1. Sample collection date: 6-27-73
2. Collection method: 3-liter Surface Grab
3. Reported as number of zooplankters per liter

TABLE B-9 CONT.  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
JUNE, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>17 | Sta.<br>18 | Sta.<br>19 | Sta.<br>20 | Mean #<br>/Sta.<br>Sampled |  |  |  |  |
|-------------------------------|------------|------------|------------|------------|----------------------------|--|--|--|--|
| ROTIFERA                      |            |            |            |            |                            |  |  |  |  |
| <i>Asplanchna giroidi</i>     |            |            |            |            |                            |  |  |  |  |
| <i>A. priodonta</i>           |            |            |            |            |                            |  |  |  |  |
| <i>Brachionus angularis</i>   |            |            | 16.8       | 11.2       | 7.5                        |  |  |  |  |
| <i>B. calyciflorus</i>        |            |            |            |            |                            |  |  |  |  |
| <i>B. havanaensis</i>         |            |            |            |            |                            |  |  |  |  |
| <i>B. (Platyas) patulus</i>   |            |            |            |            |                            |  |  |  |  |
| <i>B. quadridentatus</i>      |            |            | 5.6        |            | 0.6                        |  |  |  |  |
| <i>Chromogaster ovalis</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Filinia terminalis</i>     |            |            | 39.2       | 11.2       | 7.5                        |  |  |  |  |
| <i>Kellicottia longispina</i> |            |            |            |            |                            |  |  |  |  |
| <i>Keratella cochlearis</i>   |            |            |            |            |                            |  |  |  |  |
| <i>K. quadrata</i>            |            |            |            |            |                            |  |  |  |  |
| <i>Lecane luna</i>            |            |            |            | 5.6        | 0.6                        |  |  |  |  |
| <i>L. lunaris</i>             |            |            |            |            |                            |  |  |  |  |
| <i>Lepadella patella</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Mytilina</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Notholca squamula</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Pleosoma</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Polyarthra</i> sp.         |            | 95.2       | 134.4      | 50.4       | 124.4                      |  |  |  |  |
| <i>Trichocerca cylindrica</i> |            |            |            |            |                            |  |  |  |  |
| <i>T. multierinis</i>         |            |            |            |            |                            |  |  |  |  |
| Unidentifiable Rotifer        |            |            |            |            |                            |  |  |  |  |
| <i>Conochiloides</i> sp.      |            |            |            |            |                            |  |  |  |  |
| COPEPODA                      |            |            |            |            |                            |  |  |  |  |
| Calanoid copepods             |            |            |            |            |                            |  |  |  |  |
| <i>Diaptomus</i> sp.          |            | 11.2       | 11.2       | 5.6        | 9.3                        |  |  |  |  |
| <i>Eurytemora</i> sp.         |            |            |            |            |                            |  |  |  |  |
| Immatures                     |            |            |            |            | 1.2                        |  |  |  |  |
| Cyclopoid copepods            |            |            |            |            |                            |  |  |  |  |
| <i>Cyclops</i> sp.            |            | 16.8       | 61.6       | 67.2       | 80.3                       |  |  |  |  |
| <i>Mesocyclops</i> sp.        |            |            |            |            |                            |  |  |  |  |
| Immatures                     |            | 22.4       | 16.8       | 5.6        | 21.2                       |  |  |  |  |
| Nauplius                      |            | 117.6      | 487.2      | 296.8      | 364.6                      |  |  |  |  |
| CLADOCERA                     |            |            |            |            |                            |  |  |  |  |
| <i>Bosmina</i> sp.            |            | 22.4       | 16.8       | 16.8       | 26.8                       |  |  |  |  |
| <i>Ceriodaphnia</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Chydorus</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Daphnia galeata</i>        |            |            |            |            |                            |  |  |  |  |
| <i>D. pulex</i>               |            |            |            |            |                            |  |  |  |  |
| <i>D. retrocurva</i>          |            | 33.6       | 16.8       | 16.8       | 32.4                       |  |  |  |  |
| <i>Diaphanosoma</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Holopedium gibberum</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Leptodora kindtii</i>      |            |            |            |            |                            |  |  |  |  |
| Total                         |            | 319.2      | 806.4      | 487.2      |                            |  |  |  |  |

## Notes:

1. Sample collection date: 6-27-73
2. Collection method: 3-liter Surface Grab
3. Reported as number of zooplankters per liter

TABLE B-10  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
JULY, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>1 | Sta.<br>3 | Sta.<br>5 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 | Sta.<br>10 | Sta.<br>12 | Sta.<br>13 |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| ROTIFERA                      |           |           |           |           |           |           |            |            |            |
| <i>Asplanchna giroidi</i>     |           |           |           |           |           |           |            |            |            |
| <i>A. priodonta</i>           | 5.6       | 5.6       | 16.8      | 5.6       |           | 33.6      | 28.0       |            | 28.0       |
| <i>Brachionus angularis</i>   |           |           |           |           |           | 44.8      |            |            |            |
| <i>B. calyciflorus</i>        |           |           |           |           |           |           |            |            |            |
| <i>B. havanaensis</i>         |           |           | 33.6      | 5.6       |           |           |            |            |            |
| <i>B. (Platys) patulus</i>    |           |           |           |           |           |           |            |            |            |
| <i>B. quadridentatus</i>      |           |           |           |           |           |           |            |            |            |
| <i>Chromocaster ovalis</i>    |           |           |           |           |           |           |            |            |            |
| <i>Filinia terminalis</i>     |           |           | 11.2      | 5.6       |           | 5.6       |            |            |            |
| <i>Kellicottia longispina</i> |           |           |           |           |           |           |            |            |            |
| <i>Keratella cochlearis</i>   | 50.4      | 16.8      | 195.8     | 67.2      |           | 16.8      | 11.2       |            | 22.4       |
| <i>K. quadrata</i>            |           |           |           |           |           |           |            |            |            |
| <i>Lecane luna</i>            |           |           |           |           |           | 5.6       |            |            |            |
| <i>L. lunaris</i>             |           |           |           |           |           |           |            |            |            |
| <i>Lepadella patella</i>      |           |           |           |           |           |           |            |            |            |
| <i>Mytilina</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Notholca squamula</i>      |           |           |           |           |           |           |            |            |            |
| <i>Pleosoma</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Polyarthra</i> sp.         | 425.6     | 324.8     | 515.4     | 957.6     |           | 952.0     | 347.2      |            | 246.4      |
| <i>Trichocerca cylindrica</i> |           |           | 28.0      |           |           |           |            |            |            |
| <i>T. multierinis</i>         |           |           |           |           |           |           |            |            |            |
| Unidentifiable Rotifer        |           |           |           |           |           |           |            |            |            |
| <i>Conochiloides</i> sp.      |           | 11.2      | 16.8      | 5.6       |           | 16.8      |            |            |            |
| COPEPODA                      |           |           |           |           |           |           |            |            |            |
| Calanoid copepods             |           |           |           |           |           |           |            |            |            |
| <i>Diaptomus</i> sp.          |           | 5.6       |           | 11.2      |           | 5.6       |            |            | 16.8       |
| <i>Eurytemora</i> sp.         |           |           |           |           |           |           |            |            |            |
| Immatures                     |           | 33.6      |           | 61.6      |           | 11.2      | 11.2       |            | 16.8       |
| Cyclopoid copepods            |           |           |           |           |           |           |            |            |            |
| <i>Cyclops</i> sp.            | 28.0      | 44.8      | 139.8     |           |           | 44.8      | 89.6       |            | 285.6      |
| <i>Mesocyclops</i> sp.        |           |           |           |           |           |           |            |            |            |
| Immatures                     |           | 22.4      | 44.8      | 22.4      |           | 50.4      | 44.8       |            | 22.4       |
| Nauplius                      | 526.6     | 375.2     | 392.0     | 543.4     |           | 632.8     | 453.6      |            | 269.8      |
| CLADOCERA                     |           |           |           |           |           |           |            |            |            |
| <i>Bosmina</i> sp.            | 11.2      |           | 61.6      | 5.6       |           | 16.8      |            |            | 11.2       |
| <i>Ceriodaphnia</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Chydorus</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Daphnia galeata</i>        |           | 5.6       |           | 5.6       |           |           |            |            | 5.6        |
| <i>D. pulex</i>               |           |           |           |           |           |           | 5.6        |            |            |
| <i>D. retrocurva</i>          |           | 22.4      | 16.8      | 89.6      |           | 15.0      |            |            | 16.8       |
| <i>Diaphanosoma</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Holopedium gibberum</i>    |           |           |           |           |           |           |            |            |            |
| <i>Leptodora kindtii</i>      |           |           |           |           |           |           |            |            |            |
| Total                         | 1047.4    | 868.0     | 1472.6    | 1786.6    |           | 1851.8    | 991.2      |            | 941.8      |

## Notes:

1. Sample collection date: 7-25-73
2. Collection method: 3-liter Surface Grab
3. Reported as number of zooplankters per liter

TABLE B-10 CONT.  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
JULY, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>17 | Sta.<br>18 | Sta.<br>19 | Sta.<br>20 | Mean #<br>/Sta.<br>Sampled |  |  |  |  |
|-------------------------------|------------|------------|------------|------------|----------------------------|--|--|--|--|
| ROTIFERA                      |            |            |            |            |                            |  |  |  |  |
| <i>Asplanchna giroidi</i>     |            |            |            |            |                            |  |  |  |  |
| <i>A. priodonta</i>           | 11.2       |            |            |            | 13.4                       |  |  |  |  |
| <i>Brachionus angularis</i>   |            |            |            |            | 4.5                        |  |  |  |  |
| <i>B. calyciflorus</i>        |            |            |            |            |                            |  |  |  |  |
| <i>B. havanensis</i>          |            |            |            |            | 3.9                        |  |  |  |  |
| <i>B. (Plautias) patulus</i>  |            |            |            |            |                            |  |  |  |  |
| <i>B. quadridentatus</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Chromaster ovalis</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Filinia terminalis</i>     |            |            |            | 5.6        | 2.8                        |  |  |  |  |
| <i>Kellicottia longispina</i> |            |            |            |            |                            |  |  |  |  |
| <i>Keratella cochlearis</i>   | 16.8       |            |            |            | 39.7                       |  |  |  |  |
| <i>K. quadrata</i>            |            |            |            |            |                            |  |  |  |  |
| <i>Lecane luna</i>            |            |            |            |            |                            |  |  |  |  |
| <i>L. lunaris</i>             |            |            |            |            |                            |  |  |  |  |
| <i>Lepadella patella</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Mytilina</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Notholca squamula</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Pleqsona</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Polycarthra</i> sp.        | 285.6      |            | 269.8      | 319.2      | 464.4                      |  |  |  |  |
| <i>Trichocerca cylindrica</i> |            |            |            |            | 2.8                        |  |  |  |  |
| <i>T. multicornis</i>         |            |            |            |            |                            |  |  |  |  |
| Unidentifiable Rotifer        |            |            |            |            |                            |  |  |  |  |
| <i>Conochiloides</i> sp.      |            |            |            |            | 5.0                        |  |  |  |  |
| COPEPODA                      |            |            |            |            |                            |  |  |  |  |
| Calanoid copepods             |            |            |            |            |                            |  |  |  |  |
| <i>Diaptomus</i> sp.          | 11.2       |            |            | 5.6        | 5.6                        |  |  |  |  |
| <i>Eurytemora</i> sp.         |            |            |            |            |                            |  |  |  |  |
| Immatures                     |            |            |            | 22.4       | 15.7                       |  |  |  |  |
| Cyclopoid copepods            |            |            |            |            |                            |  |  |  |  |
| <i>Cyclops</i> sp.            | 139.8      |            | 44.8       | 100.8      | 91.8                       |  |  |  |  |
| <i>Mesocyclops</i> sp.        |            |            |            |            |                            |  |  |  |  |
| Immatures                     | 22.4       |            |            | 28.0       | 25.8                       |  |  |  |  |
| Nauplius                      | 285.6      |            | 280.0      | 375.2      | 413.4                      |  |  |  |  |
| CLADOCERA                     |            |            |            |            |                            |  |  |  |  |
| <i>Bosmina</i> sp.            |            |            |            | 11.2       | 11.8                       |  |  |  |  |
| <i>Ceriodaphnia</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Chydorus</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Daphnia galeata</i>        |            |            |            |            | 1.7                        |  |  |  |  |
| <i>D. pulex</i>               |            |            | 5.6        | 16.8       | 2.8                        |  |  |  |  |
| <i>D. retrocurva</i>          | 5.6        |            |            |            | 16.6                       |  |  |  |  |
| <i>Diaphanosoma</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Holopedium gibberum</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Leptodora kindtii</i>      |            |            |            |            |                            |  |  |  |  |
| Total                         | 778.2      |            | 600.2      | 884.8      |                            |  |  |  |  |

## Notes:

1. Sample collection date: 7-25-73
2. Collection method: 3-liter Surface Grab
3. Reported as number of zooplankters per liter

TABLE B-11  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
AUGUST, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>1 | Sta.<br>3 | Sta.<br>5 | Sta.<br>7 | Sta.<br>8 | Sta.<br>9 | Sta.<br>10 | Sta.<br>12 | Sta.<br>13 |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|
| ROTIFERA                      |           |           |           |           |           |           |            |            |            |
| <i>Asplanchna giroldi</i>     |           |           |           |           |           |           |            |            |            |
| <i>A. priodonta</i>           | 5.6       | 11.2      | 33.6      | 11.2      |           | 11.2      | 39.2       | 50.4       | 33.6       |
| <i>Brachionus angularis</i>   | 151.2     | 128.8     | 5.6       | 50.4      |           | 33.6      | 72.8       | 33.6       | 5.6        |
| <i>B. calyciflorus</i>        |           |           |           |           |           |           |            |            |            |
| <i>B. havanensis</i>          |           |           | 16.8      | 16.8      |           |           |            | 33.6       | 5.6        |
| <i>B. (Planias) patulus</i>   |           |           |           |           |           |           |            |            |            |
| <i>B. quadridentatus</i>      |           |           |           |           |           |           |            |            |            |
| <i>Chromocaster ovalis</i>    |           |           |           |           |           |           |            |            |            |
| <i>Filinia terminalis</i>     |           |           | 22.4      |           |           |           |            | 16.8       |            |
| <i>Kellicottia longispina</i> |           |           |           |           |           |           |            |            |            |
| <i>Keratella cochlearis</i>   | 95.2      | 67.2      | 28.0      | 50.4      |           | 11.2      | 39.2       | 16.8       | 28.0       |
| <i>K. quadrata</i>            |           |           |           |           |           |           |            |            |            |
| <i>Lecane luna</i>            |           |           |           |           |           |           |            |            |            |
| <i>L. lunaris</i>             |           |           |           |           |           |           |            |            |            |
| <i>Lepadella patella</i>      |           |           |           |           |           |           |            |            |            |
| <i>Mytilina</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Notholca squamula</i>      |           |           |           |           |           |           |            |            |            |
| <i>Pleosoma</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Polyarthra</i> sp.         | 319.2     | 285.6     | 123.2     | 280.0     |           | 162.4     | 72.8       | 364.0      | 156.8      |
| <i>Trichocerca cylindrica</i> | 33.6      | 22.4      |           |           |           |           |            |            |            |
| <i>T. multicornis</i>         |           | 11.2      |           |           |           |           |            |            | 16.8       |
| Unidentifiable Rotifer        |           |           |           |           |           |           |            |            |            |
| <i>Conochiloides</i> sp.      |           |           |           |           |           | 11.2      |            |            |            |
| COPEPODA                      |           |           |           |           |           |           |            |            |            |
| Calanoid copepods             |           |           |           |           |           |           |            |            |            |
| <i>Diaptomus</i> sp.          |           |           |           | 11.2      |           |           |            |            |            |
| <i>Eurytemora</i> sp.         |           |           |           |           |           |           |            |            |            |
| Immatures                     |           | 5.6       |           |           |           |           |            |            |            |
| Cyclopoid copepods            |           |           |           |           |           |           |            |            |            |
| <i>Cyclops</i> sp.            |           |           |           | 16.8      |           | 50.4      |            |            |            |
| <i>Mesocyclops</i> sp.        |           |           |           |           |           |           |            |            |            |
| Immatures                     | 5.6       | 5.6       | 11.2      | 16.8      |           | 16.8      | 16.8       |            | 5.6        |
| Nauplius                      | 212.8     | 162.4     | 140.0     | 268.8     |           | 95.2      | 168.0      | 100.8      | 100.8      |
| CLADOCERA                     |           |           |           |           |           |           |            |            |            |
| <i>Bosmina</i> sp.            | 16.8      | 16.8      | 22.4      | 39.2      |           | 33.6      | 16.8       | 33.6       | 11.2       |
| <i>Ceriodaphnia</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Chydorus</i> sp.           |           |           |           |           |           |           |            |            |            |
| <i>Daphnia galeata</i>        |           |           |           |           |           |           |            |            |            |
| <i>D. pulex</i>               |           |           |           |           |           |           |            |            |            |
| <i>D. retrocurva</i>          | 11.2      | 33.6      | 16.8      | 28.0      |           |           | 5.6        |            | 11.2       |
| <i>Diaphanosoma</i> sp.       |           |           |           |           |           |           |            |            |            |
| <i>Holopedium gibberum</i>    |           |           |           | 5.6       |           |           |            |            | 5.6        |
| <i>Leptodora kindtii</i>      |           |           |           |           |           |           | 11.2       | 5.6        |            |
| Total                         | 951.2     | 750.4     | 420.0     | 795.2     |           | 425.6     | 442.4      | 655.2      | 380.8      |

## Notes:

1. Sample collection date: 8-23-73
2. Collection method: 3-liter Surface Grab
3. Reported as number of zooplankters per liter

TABLE B-11 CONT.  
ANALYSIS OF ZOOPLANKTON POPULATIONS AT LOCUST POINT  
AUGUST, 1973

| ZOOPLANKTON SPECIES           | Sta.<br>17 | Sta.<br>18 | Sta.<br>19 | Sta.<br>20 | Mean #<br>/Sta.<br>Sampled |  |  |  |  |
|-------------------------------|------------|------------|------------|------------|----------------------------|--|--|--|--|
| ROTIFERA                      |            |            |            |            |                            |  |  |  |  |
| <i>Asplanchna giroidi</i>     |            |            |            |            |                            |  |  |  |  |
| <i>A. priodonta</i>           | 11.2       |            | 117.6      | 84.0       | 37.2                       |  |  |  |  |
| <i>Brachionus angularis</i>   | 33.6       |            | 39.2       | 78.2       | 57.5                       |  |  |  |  |
| <i>B. calyciflorus</i>        |            |            |            | 5.6        | .5                         |  |  |  |  |
| <i>B. havanaensis</i>         |            |            | 11.2       | 16.8       | 9.2                        |  |  |  |  |
| <i>B. (Platytas) patulus</i>  |            |            |            |            |                            |  |  |  |  |
| <i>B. quadridentatus</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Chromogaster ovalis</i>    |            |            |            |            |                            |  |  |  |  |
| <i>Filinia terminalis</i>     |            |            | 78.4       | 33.6       | 13.7                       |  |  |  |  |
| <i>Kellicottia longispina</i> |            |            |            |            |                            |  |  |  |  |
| <i>Keratella cochlearis</i>   |            |            | 78.4       | 179.2      | 54.0                       |  |  |  |  |
| <i>K. quadrata</i>            |            |            |            |            |                            |  |  |  |  |
| <i>Lecane luna</i>            |            |            | 11.2       |            | 1.0                        |  |  |  |  |
| <i>L. lunaris</i>             |            |            |            |            |                            |  |  |  |  |
| <i>Lepadella patella</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Mytilina</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Notholca squamula</i>      |            |            |            |            |                            |  |  |  |  |
| <i>Plecosoma</i> sp.          |            |            |            |            |                            |  |  |  |  |
| <i>Polyarthra</i> sp.         | 151.2      |            | 1041.6     | 991.2      | 358.9                      |  |  |  |  |
| <i>Trichocerca cylindrica</i> |            |            | 44.8       | 22.4       | 11.2                       |  |  |  |  |
| <i>T. multiserinis</i>        |            |            |            |            | 2.5                        |  |  |  |  |
| Unidentifiable Rotifer        |            |            |            |            | 1.0                        |  |  |  |  |
| <i>Conochiloides</i> sp.      |            |            |            |            |                            |  |  |  |  |
| COPEPODA                      |            |            |            |            |                            |  |  |  |  |
| Calanoid copepods             |            |            |            |            |                            |  |  |  |  |
| <i>Diaptomus</i> sp.          |            |            |            | 16.8       | 2.5                        |  |  |  |  |
| <i>Eurytemora</i> sp.         |            |            |            |            |                            |  |  |  |  |
| Immatures                     | 28.0       |            |            |            | 3.1                        |  |  |  |  |
| Cyclopoid copepods            |            |            |            |            |                            |  |  |  |  |
| <i>Cyclops</i> sp.            |            |            |            | 16.8       | 7.6                        |  |  |  |  |
| <i>Mesocyclops</i> sp.        |            |            |            |            |                            |  |  |  |  |
| Immatures                     |            |            |            | 16.8       | 8.7                        |  |  |  |  |
| Nauplius                      | 84.0       |            | 319.2      | 369.6      | 183.8                      |  |  |  |  |
| CLADOCERA                     |            |            |            |            |                            |  |  |  |  |
| <i>Bosmina</i> sp.            | 22.4       |            | 11.2       | 11.2       | 21.4                       |  |  |  |  |
| <i>Ceriodaphnia</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Chydorus</i> sp.           |            |            |            |            |                            |  |  |  |  |
| <i>Daphnia galeata</i>        |            |            |            |            |                            |  |  |  |  |
| <i>D. pulex</i>               |            |            |            |            |                            |  |  |  |  |
| <i>D. retrocurva</i>          | 11.2       |            | 5.6        |            | 11.2                       |  |  |  |  |
| <i>Daphnoscapha</i> sp.       |            |            |            |            |                            |  |  |  |  |
| <i>Holopedium gibberum</i>    |            |            |            |            | 1.0                        |  |  |  |  |
| <i>Leptodora kindtii</i>      |            |            |            |            | 1.5                        |  |  |  |  |
| Total                         | 341.6      |            | 1758.4     | 1842.2     |                            |  |  |  |  |

## Notes:

1. Sample collection date: 8-23-73
2. Collection method: 3-liter Surface Grab
3. Reported as number of zooplankters per liter

## APPENDIX C

## PHYTOPLANKTON POPULATIONS AT LOCUST POINT

1973

TABLE C-1

DOMINANT PHYTOPLANKTON TAXA  
AT LOCUST POINT, MAY, 1973

Collection Date 5-25-73

| PHYTOPLANKTON<br>SPECIES       | STA.<br>1 | STA.<br>2 | STA.<br>3 | STA.<br>5 | STA.<br>7 | STA.<br>10 | STA.<br>13 | STA.<br>17 | STA.<br>31 | STA.<br>31 | STA.<br>31 | STA.<br>31 | STA.<br>31 | STA.<br>31 |
|--------------------------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                                | VT        | 31        | VT        | 31        | VT        | 31         | VT         | 31         | VT         | 31         | VT         | 31         | VT         | 31         |
| MYXOPHYCEAE (Blue-Green Algae) |           |           |           |           |           |            |            |            |            |            |            |            |            |            |
| <i>Aphanizomenon</i> sp.       |           |           |           |           |           |            |            |            |            |            |            |            |            |            |
| CHLOROPHYCEAE (Green Algae)    |           |           |           |           |           |            |            |            |            |            |            |            |            |            |
| <i>Pediastrum</i> sp.          | ●         | ●         | ●         | ●         | ●         | ●          | ●          | ●          | ●          | ●          | ●          | ●          | ●          | ●          |
| <i>Ulothrix</i> sp.            | ●         | ●         | ●         | ●         | ●         | ●          | ●          | ●          | ●          | ●          | ●          | ●          | ●          | ●          |
| <i>Volvox</i> sp.              |           |           |           |           | ●         | ●          |            | ●          |            |            |            |            |            |            |
| BACILLARIOPHYCEAE (Diatoms)    |           |           |           |           |           |            |            |            |            |            |            |            |            |            |
| <i>Asterionella</i> sp.        | ●         | ●         | ●         | ●         | ●         | ●          | ●          | ●          | ●          | ●          | ●          | ●          | ●          | ●          |
| <i>Pragilaria</i> sp.          | ●         | ●         | ●         | ●         | ●         | ●          | ●          | ●          | ●          | ●          | ●          | ●          | ●          | ●          |
| <i>Melosira</i> sp.            | ●         | ●         | ●         | ●         | ●         | ●          | ●          | ●          | ●          | ●          | ●          | ●          | ●          | ●          |
| <i>Tabellaria</i> sp.          | ●         | ●         | ●         | ●         | ●         | ●          | ●          | ●          | ●          | ●          | ●          | ●          | ●          | ●          |
| DINOPHYCEAE (Dinoflagellates)  |           |           |           |           |           |            |            |            |            |            |            |            |            |            |
| <i>Ceratium</i> sp.            | ●         | ●         | ●         | ●         |           |            |            | ●          |            |            |            |            |            |            |

VT - vertical tow, Wisconsin net (40 mesh)

31 - 3 liter water sample (1 meter below surface)

TABLE C-2

DOMINANT PHYTOPLANKTON TAXA  
AT LOCUST POINT, JUNE, 1973

Collection Date 6-27-73

| PHYTOPLANKTON<br>SPECIES       | STA.<br>1 |    | STA.<br>3 |    | STA.<br>5 |    | STA.<br>7 |    | STA.<br>10 |    | STA.<br>13 |    | STA.<br>17 |    | STA.<br>20 |    | STA.<br>19 |    | STA. |    | STA. |    | STA. |    |
|--------------------------------|-----------|----|-----------|----|-----------|----|-----------|----|------------|----|------------|----|------------|----|------------|----|------------|----|------|----|------|----|------|----|
|                                | VT        | 3l | VT        | 3l | VT        | 3l | VT        | 3l | VT         | 3l | VT         | 3l | VT         | 3l | VT         | 3l | VT         | 3l | VT   | 3l | VT   | 3l | VT   | 3l |
| MYXOPHYCEAE (Blue-Green Algae) |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |      |    |
| <i>Aphanizomenon</i> sp.       |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |      |    |
| CHLOROPHYCEAE (Green Algae)    |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |      |    |
| <i>Pediastrum</i> sp.          | ●         | ●  | ●         | ●  | ●         | ●  | ●         | ●  | ●          | ●  | ●          | ●  | ●          | ●  | ●          | ●  | ●          | ●  |      |    |      |    |      |    |
| <i>Ulothrix</i> sp.            |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |      |    |
| <i>Volvox</i> sp.              |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |      |    |
| BACILLARIOPHYCEAE (Diatoms)    |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |      |    |
| <i>Asterionella</i> sp.        |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |      |    |
| <i>Fragilaria</i> sp.          |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |      |    |
| <i>Melosira</i> sp.            |           |    |           |    |           |    | ●         |    |            | ●  |            | ●  |            |    |            |    |            |    |      |    |      |    |      |    |
| <i>Tabellaria</i> sp.          |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |      |    |
| DINOPHYCEAE (Dinoflagellates)  |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |      |    |
| <i>Ceratium</i> sp.            |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |      |    |

VT - vertical tow, Wisconsin net (40 mesh)  
3l - 3 liter water sample (1 meter below surface)

TABLE C-3

DOMINANT PHYTOPLANKTON TAXA  
AT LOCUST POINT, JULY, 1973

Collection Date 7-25-73

| PHYTOPLANKTON<br>SPECIES       | STA.<br>1 |    | STA.<br>3 |    | STA.<br>5 |    | STA.<br>7 |    | STA.<br>9 |    | STA.<br>10 |    | STA.<br>13 |    | STA.<br>18 |    | STA.<br>19 |    | STA.<br>20 |    | STA. |    | STA. |    |
|--------------------------------|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|------------|----|------------|----|------------|----|------------|----|------------|----|------|----|------|----|
|                                | VT        | 3l | VT        | 3l | VT        | 3l | VT        | 3l | VT        | 3l | VT         | 3l | VT         | 3l | VT         | 3l | VT         | 3l | VT         | 3l | VT   | 3l | VT   | 3l |
| MYXOPHYCEAE (Blue-Green Algae) |           |    |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |
| <i>Aphanizomenon</i> sp.       | ●         |    | ●         | ●  |           |    | ●         |    |           |    | ●          |    | ●          |    |            |    | ●          |    |            |    |      |    |      |    |
| CHLOROPHYCEAE (Green Algae)    |           |    |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |
| <i>Pediastrum</i> sp.          | ●         | ●  | ●         | ●  | ●         | ●  | ●         | ●  | ●         | ●  | ●          | ●  | ●          | ●  | ●          | ●  | ●          | ●  | ●          | ●  |      |    |      |    |
| <i>Ulothrix</i> sp.            |           |    |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |
| <i>Volvox</i> sp.              |           |    |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |
| BACILLARIOPHYCEAE (Diatoms)    |           |    |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |
| <i>Asterionella</i> sp.        |           |    |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |
| <i>Fragilaria</i> sp.          |           |    |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |
| <i>Melosira</i> sp.            | ●         | ●  |           |    | ●         | ●  | ●         |    |           |    |            |    | ●          |    | ●          |    |            |    |            |    |      |    |      |    |
| <i>Tabellaria</i> sp.          |           |    |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |
| DINOPHYCEAE (Dinoflagellates)  |           |    |           |    |           |    |           |    |           |    |            |    |            |    |            |    |            |    |            |    |      |    |      |    |
| <i>Ceratium</i> sp.            |           |    |           |    |           |    | ●         |    | ●         | ●  |            |    |            |    |            |    |            |    |            |    |      |    |      |    |

VT - vertical tow, Wisconsin net (40 mesh)

3l - 3 liter water sample (1 meter below surface)

TABLE C-4

DOMINANT PHYTOPLANKTON TAXA  
AT LOCUST POINT, AUGUST, 1973

Collection Date 8-23-73

| PHYTOPLANKTON<br>SPECIES       | STA. 1 |    | STA. 3 |    | STA. 5 |    | STA. 7 |    | STA. 8 |    | STA. 9 |    | STA. 10 |    | STA. 12 |    | STA. 13 |    | STA. 18 |    | STA. 19 |    | STA. 20 |    |
|--------------------------------|--------|----|--------|----|--------|----|--------|----|--------|----|--------|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|
|                                | VT     | 31 | VT     | 31 | VT     | 31 | VT     | 31 | VT     | 31 | VT     | 31 | VT      | 31 | VT      | 31 | VT      | 31 | VT      | 31 | VT      | 31 | VT      | 31 |
| MYXOPHYCEAE (Blue-Green Algae) |        |    |        |    |        |    |        |    |        |    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |
| <i>Aphanizomenon</i> sp.       | ●      | ●  | ●      | ●  | ●      | ●  | ●      | ●  | ●      | ●  | ●      | ●  | ●       | ●  | ●       | ●  | ●       | ●  | ●       | ●  | ●       | ●  | ●       | ●  |
| CHLOROPHYCEAE (Green Algae)    |        |    |        |    |        |    |        |    |        |    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |
| <i>Pediastrum</i> sp.          | ●      | ●  | ●      | ●  | ●      | ●  | ●      | ●  | ●      | ●  | ●      | ●  | ●       | ●  | ●       | ●  | ●       | ●  | ●       | ●  | ●       | ●  | ●       | ●  |
| <i>Ulothrix</i> sp.            |        |    |        |    |        |    |        |    |        |    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |
| <i>Volvox</i> sp.              |        |    |        |    |        |    |        |    |        |    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |
| BACILLARIOPHYCEAE (Diatoms)    |        |    |        |    |        |    |        |    |        |    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |
| <i>Asterionella</i> sp.        |        |    |        |    |        |    |        |    |        |    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |
| <i>Fragilaria</i> sp.          | ●      | ●  | ●      | ●  | ●      | ●  | ●      | ●  | ●      | ●  | ●      | ●  | ●       | ●  | ●       | ●  | ●       | ●  | ●       | ●  | ●       | ●  | ●       | ●  |
| <i>Melosira</i> sp.            |        |    |        |    |        |    |        |    |        |    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |
| <i>Tabellaria</i> sp.          |        |    |        |    |        |    |        |    |        |    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |
| DINOPHYCEAE (Dinoflagellates)  |        |    |        |    |        |    |        |    |        |    |        |    |         |    |         |    |         |    |         |    |         |    |         |    |
| <i>Ceratium</i> sp.            |        |    |        |    |        |    |        |    | ●      | ●  |        |    |         |    |         |    | ●       | ●  | ●       | ●  | ●       | ●  | ●       | ●  |

VT - vertical tow, Wisconsin net (40 mesh)  
 31 - 3 liter water sample (1 meter below surface)

TABLE C-5

DOMINANT PHYTOPLANKTON TAXA  
AT LOCUST POINT, SEPTEMBER, 1973

Collection Date 9-26-73

| PHYTOPLANKTON<br>SPECIES       | STA.<br>1 |  | STA.<br>3 |  | STA.<br>5 |  | STA.<br>7 |  | STA.<br>8 |  | STA.<br>9 |  | STA.<br>10 |  | STA.<br>12 |  | STA.<br>13 |  | STA.<br>18 |   | STA.<br>19 |   | STA.<br>20 |  |
|--------------------------------|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|------------|--|------------|--|------------|--|------------|---|------------|---|------------|--|
|                                | VT        |  | VT        |  | VT        |  | VT        |  | VT        |  | VT        |  | VT         |  | VT         |  | VT         |  | VT         |   | VT         |   | VT         |  |
| MYXOPHYCEAE (Blue-Green Algae) |           |  |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |   |            |   |            |  |
| <i>Aphanizomenon</i> sp.       | ●         |  | ●         |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            | ● |            | ● |            |  |
| CHLOROPHYCEAE (Green Algae)    |           |  |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |   |            |   |            |  |
| <i>Fediastrum</i> sp.          | ●         |  | ●         |  | ●         |  | ●         |  | ●         |  | ●         |  | ●          |  | ●          |  | ●          |  | ●          |   | ●          |   | ●          |  |
| <i>Ulothrix</i> sp.            |           |  |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |   |            |   |            |  |
| <i>Volvox</i> sp.              |           |  |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |   |            |   |            |  |
| BACILLARIOPHYCEAE (Diatoms)    |           |  |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |   |            |   |            |  |
| <i>Asterionella</i> sp.        |           |  |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |   |            |   |            |  |
| <i>Fragilaria</i> sp.          | ●         |  | ●         |  |           |  | ●         |  | ●         |  | ●         |  | ●          |  | ●          |  | ●          |  | ●          |   | ●          |   | ●          |  |
| <i>Melosira</i> sp.            | ●         |  | ●         |  | ●         |  | ●         |  | ●         |  | ●         |  | ●          |  | ●          |  | ●          |  | ●          |   | ●          |   | ●          |  |
| <i>Tabellaria</i> sp.          |           |  |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |   |            |   |            |  |
| DINOPHYCEAE (Dinoflagellates)  |           |  |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |   |            |   |            |  |
| <i>Ceratium</i> sp.            |           |  |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |   |            |   |            |  |

VT - vertical tow, Wisconsin net (40 mesh)  
 3l - 3 liter water sample (1 meter below surface)

TABLE C-6

DOMINANT PHYTOPLANKTON TAXA  
AT LOCUST POINT, OCTOBER, 1973

Collection Date 11-6-73

| PHYTOPLANKTON<br>SPECIES       | STA.<br>1 |  | STA.<br>3 |  | STA.<br>5 |  | STA.<br>7 |  | STA.<br>9 |  | STA.<br>10 |  | STA.<br>13 |  | STA.<br>18 |  | STA.<br>19 |  | STA.<br>20 |  | STA.<br>31 |    | STA.<br>31 |    |
|--------------------------------|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|------------|--|------------|--|------------|--|------------|--|------------|--|------------|----|------------|----|
|                                | VT        |  | VT        |  | VT        |  | VT        |  | VT        |  | VT         |  | VT         |  | VT         |  | VT         |  | VT         |  | VT         | 31 | VT         | 31 |
| MYXOPHYCEAE (Blue-Green Algae) |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| <i>Aphanizomenon</i> sp.       |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| CHLOROPHYCEAE (Green Algae)    |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| <i>Pediastrum</i> sp.          | ●         |  | ●         |  |           |  | ●         |  | ●         |  | ●          |  | ●          |  | ●          |  | ●          |  | ●          |  |            |    |            |    |
| <i>Ulothrix</i> sp.            |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| <i>Volvox</i> sp.              |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| BACILLARIOPHYCEAE (Diatoms)    |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| <i>Asterionella</i> sp.        | ●         |  | ●         |  | ●         |  | ●         |  | ●         |  | ●          |  | ●          |  | ●          |  | ●          |  | ●          |  |            |    |            |    |
| <i>Fragilaria</i> sp.          |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| <i>Melosira</i> sp.            | ●         |  | ●         |  | ●         |  | ●         |  | ●         |  | ●          |  | ●          |  | ●          |  | ●          |  | ●          |  |            |    |            |    |
| <i>Tabellaria</i> sp.          |           |  |           |  | ●         |  |           |  |           |  |            |  |            |  |            |  | ●          |  |            |  |            |    |            |    |
| DINOPHYCEAE (Dinoflagellates)  |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| <i>Ceratium</i> sp.            |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |

VT - vertical tow, Wisconsin net (40 mesh)

31 - 3 liter water sample (1 meter below surface)

TABLE C-7

DOMINANT PHYTOPLANKTON TAXA  
AT LOCUST POINT, NOVEMBER, 1973

Collection Date 12-4-73

| PHYTOPLANKTON<br>SPECIES       | STA.<br>1 |  | STA.<br>3 |  | STA.<br>5 |  | STA.<br>7 |  | STA.<br>9 |  | STA.<br>10 |  | STA.<br>13 |  | STA.<br>18 |  | STA.<br>19 |  | STA.<br>20 |  | STA.<br>31 |    | STA.<br>31 |    |
|--------------------------------|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|------------|--|------------|--|------------|--|------------|--|------------|--|------------|----|------------|----|
|                                | VT        |  | VT        |  | VT        |  | VT        |  | VT        |  | VT         |  | VT         |  | VT         |  | VT         |  | VT         |  | VT         | 31 | VT         | 31 |
| MYXOPHYCEAE (Blue-Green Algae) |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| <i>Aphanizomenon</i> sp.       |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| CHLOROPHYCEAE (Green Algae)    |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| <i>Pediastrum</i> sp.          |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| <i>Ulothrix</i> sp.            |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| <i>Volvox</i> sp.              |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| BACILLARIOPHYCEAE (Diatoms)    |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| <i>Asterionella</i> sp.        | ●         |  | ●         |  |           |  |           |  |           |  |            |  | ●          |  | ●          |  |            |  |            |  |            |    |            |    |
| <i>Fragilaria</i> sp.          | ●         |  |           |  | ●         |  |           |  |           |  | ●          |  | ●          |  | ●          |  | ●          |  |            |  |            |    |            |    |
| <i>Melosira</i> sp.            | ●         |  | ●         |  | ●         |  | ●         |  | ●         |  | ●          |  | ●          |  | ●          |  | ●          |  | ●          |  |            |    |            |    |
| <i>Tabellaria</i> sp.          | ●         |  | ●         |  | ●         |  | ●         |  | ●         |  | ●          |  | ●          |  | ●          |  | ●          |  |            |  |            |    |            |    |
| DINOPHYCEAE (Dinoflagellates)  |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |
| <i>Ceratium</i> sp.            |           |  |           |  |           |  |           |  |           |  |            |  |            |  |            |  |            |  |            |  |            |    |            |    |

VT - vertical tow, Wisconsin net (40 mesh)

31 - 3 liter water sample (1 meter below surface)

APPENDIX D

FISH POPULATIONS AT LOCUST POINT

1973

TABLE D-1

## ANALYSIS OF TRAWLING CATCH AT LOCUST POINT, 1973

| Species                         | 6-29-73 |             |         |                 | 7-17-73 |             |         |                 |
|---------------------------------|---------|-------------|---------|-----------------|---------|-------------|---------|-----------------|
|                                 | No.     | Length (mm) |         | Total<br>Wt (g) | No.     | Length (mm) |         | Total<br>Wt (g) |
|                                 |         | Mean        | Range   |                 |         | Mean        | Range   |                 |
| <u>Alosa pseudoharengus</u>     |         |             |         |                 |         |             |         |                 |
| <u>Aplodinotus grunniens</u>    | 60      | 34          | 11-267  | 662             | 150     | 54          | 20-248  | 2258            |
| <u>Carassius auratus</u>        | 2       | 208         | 202-213 | 384             | 3       | 211         | 167-242 | 536             |
| <u>Catostomus c. commersoni</u> |         |             |         |                 | 1       | 138         | -       | 21              |
| <u>Cyprinus carpio</u>          | 7       | 277         | 166-514 | 2886            | 10      | 223         | 157-445 | 2531            |
| <u>Dorosoma cepedianum</u>      |         |             |         |                 |         |             |         |                 |
| <u>Ictalurus nebulosus</u>      | 10      | 195         | 165-222 | 1142            | 8       | 180         | 130-254 | 313             |
| <u>I. punctatus</u>             | 12      | 179         | 17-197  | 225             | 107     | 182         | 83-275  | 6586            |
| <u>Morone chrysops</u>          | 5       | 75          | 21-155  | 90              | 5       | 24          | 16-31   | -               |
| <u>Notropis a. atherinoides</u> | 12      | 99          | 85-108  | 78              | 3       | 103         | 100-107 | 24              |
| <u>N. hudsonius</u>             | 8       | 104         | 88-113  | 86              | 6       | 40          | 33-44   | -               |
| <u>Osmerus eperlanus mordax</u> | 69      | 33          | 21-160  | 48              | 22      | 35          | 30-41   | -               |
| <u>Perca flavescens</u>         | 26      | 43          | 15-175  | 169             | 21      | 84          | 40-198  | 318             |
| <u>Percina caprodes</u>         |         |             |         |                 |         |             |         |                 |
| <u>Percopsis omiscomaycus</u>   | 1       | 82          | -       | 3               |         |             |         |                 |
| <u>Pomoxis annularis</u>        |         |             |         |                 |         |             |         |                 |
| <u>P. nigromaculatus</u>        |         |             |         |                 |         |             |         |                 |
| <u>Stizostedion v. vitreum</u>  | 2       | 48          | 41-55   | -               |         |             |         |                 |
| TOTAL                           | 214     |             |         | 5773            | 336     |             |         | 12587           |

TABLE D-1 CONT.

## ANALYSIS OF TRAWLING CATCH AT LOCUST POINT, 1973

| Species                         | 8-24-73 |             |         |              | 9-27-73 |             |         |              |
|---------------------------------|---------|-------------|---------|--------------|---------|-------------|---------|--------------|
|                                 | No.     | Length (mm) |         | Total Wt (g) | No.     | Length (mm) |         | Total Wt (g) |
|                                 |         | Mean        | Range   |              |         | Mean        | Range   |              |
| <u>Alosa pseudoharengus</u>     |         |             |         |              | 21      | 111         | 97-123  | 253          |
| <u>Aplodinotus grunniens</u>    | 12      | 136         | 80-220  | 443          | 10      | 99          | 61-159  | 124          |
| <u>Carassius auratus</u>        |         |             |         |              |         |             |         |              |
| <u>Catostomus c. commersoni</u> |         |             |         |              |         |             |         |              |
| <u>Cyprinus carpio</u>          | 2       | 236         | 232-240 | 444          | 4       | 306         | 228-360 | 1718         |
| <u>Dorosoma cepedianum</u>      | 10      | 115         | 63-147  | 193          | 28      | 114         | 101-138 | 347          |
| <u>Ictalurus nebulosus</u>      | 1       | 166         |         | 64           |         |             |         |              |
| <u>I. punctatus</u>             | 3       | 67          | 56-74   | 9            | 9       | 91          | 56-98   | 88           |
| <u>Morone chrysops</u>          | 8       | 59          | 37-73   | 18           | 56      | 70          | 40-105  | 206          |
| <u>Notropis a. atherinoides</u> | 3       | 49          | 25-94   | 6            | 1       | 85          | -       | 4            |
| <u>N. hudsonius</u>             | 20      | 110         | 90-124  | 263          | 45      | 103         | 70-131  | 510          |
| <u>Osmerus eperlanus mordax</u> | 2       | 44          | 36-52   | -            |         |             |         |              |
| <u>Perca flavescens</u>         | 39      | 171         | 80-220  | 2596         | 33      | 168         | 78-210  | 2003         |
| <u>Percina caprodes</u>         |         |             |         |              | 1       | 64          |         | 2            |
| <u>Percopsis omiscomaycus</u>   |         |             |         |              | 1       | 87          |         | 8            |
| <u>Pomoxis annularis</u>        | 1       | 148         | -       | 40           |         |             |         |              |
| <u>P. nigromaculatus</u>        | 2       | 86          | 36-137  | 40           | 1       | 128         |         | 20           |
| <u>Stizostedion v. vitreum</u>  |         |             |         |              |         |             |         |              |
| TOTAL                           | 103     |             |         | 4116         | 210     |             |         | 5283         |

TABLE D-1 CONT.

## ANALYSIS OF TRAWLING CATCH AT LOCUST POINT, 1973

| Species                         | 11-5-73 |             |         |                 |
|---------------------------------|---------|-------------|---------|-----------------|
|                                 | No.     | Length (mm) |         | Total<br>Wt (g) |
|                                 |         | Mean        | Range   |                 |
| <u>Alosa pseudoharengus</u>     |         |             |         |                 |
| <u>Aplodinotus grunniens</u>    | 18      | 124         | 65-362  | 1053            |
| <u>Carassius auratus</u>        | 5       | 207         | 170-276 | 906             |
| <u>Catostomus c. commersoni</u> |         |             |         |                 |
| <u>Cyprinus carpio</u>          | 2       | 258         | 250-265 | 502             |
| <u>Dorosoma cepedianum</u>      | 3       | 129         | 119-145 | 69              |
| <u>Ictalurus nebulosus</u>      |         |             |         |                 |
| <u>I. punctatus</u>             | 12      | 77          | 55-100  | 48              |
| <u>Morone chrysops</u>          |         |             |         |                 |
| <u>Notropis a. atherinoides</u> | 2       | 59          | 55-62   | -               |
| <u>N. hudsonius</u>             | 38      | 103         | 50-130  | 413             |
| <u>Osmerus eperlanus mordax</u> |         |             |         |                 |
| <u>Perca flavescens</u>         | 51      | 161         | 80-210  | 2716            |
| <u>Percina caprodes</u>         | 1       | 57          |         | -               |
| <u>Percopsis omiscomaycus</u>   | 1       | 75          |         | 3               |
| <u>Pomoxis annularis</u>        |         |             |         |                 |
| <u>P. nigromaculatus</u>        |         |             |         |                 |
| <u>Stizostedion v. vitreum</u>  |         |             |         |                 |
| TOTAL                           | 133     |             |         | 5710            |

TABLE D-2

## ANALYSIS OF GILL NETTING CATCH AT LOCUST POINT, 1973

| Species                                     | 7-2-73 |             |         |                 | 8-2-73 |             |         |                 |
|---------------------------------------------|--------|-------------|---------|-----------------|--------|-------------|---------|-----------------|
|                                             | No.    | Length (mm) |         | Total<br>Wt (g) | No.    | Length (mm) |         | Total<br>Wt (g) |
|                                             |        | Mean        | Range   |                 |        | Mean        | Range   |                 |
| <u>Alosa pseudoharengus</u>                 |        |             |         |                 |        |             |         |                 |
| <u>Aplodinotus grunniens</u>                | 108    | 211         | 102-355 | 13616           | 30     | 176         | 121-280 | 2481            |
| <u>Carassius auratus</u>                    | 3      | 281         | 254-300 | 1025            | 5      | 201         | 145-305 | 847             |
| <u>Catostomus c. commersoni</u>             | 1      | 326         |         | 400             |        |             |         |                 |
| <u>Cyprinus carpio</u>                      | 14     | 340         | 160-476 | 8706            | 17     | 335         | 226-435 | 9196            |
| <u>C. carpio</u> x <u>Carassius auratus</u> | 2      | 329         | 325-332 | 1107            | 7      | 300         | 169-332 | 3123            |
| <u>Dorosoma cepedianum</u>                  | 36     | 289         | 205-375 | 10977           | 86     | 184.5       | 76-352  | 12207           |
| <u>Hybopsis storeriana</u>                  |        |             |         |                 | 1      | 168         |         | 40              |
| <u>Ictalurus natalis</u>                    |        |             |         |                 |        |             |         |                 |
| <u>I. nebulosus</u>                         |        |             |         |                 |        |             |         |                 |
| <u>I. punctatus</u>                         | 6      | 210         | 165-322 | 627             | 7      | 249         | 158-360 | 1715            |
| <u>Morone chrysops</u>                      |        |             |         |                 | 2      | 172         | 81-262  | 276             |
| <u>Notropis a. atherinoides</u>             |        |             |         |                 |        |             |         |                 |
| <u>N. hudsonius</u>                         |        |             |         |                 | 12     | 113         | 100-122 | 172             |
| <u>Osmerus eperlanus mordax</u>             |        |             |         |                 | 1      | 159         |         | 21              |
| <u>Perca flavescens</u>                     | 34     | 186         | 164-218 | 2720            | 134    | 184         | 132-262 | 11269           |
| <u>Pomoxis annularis</u>                    |        |             |         |                 |        |             |         |                 |
| <u>Stizostedion v. vitreum</u>              |        |             |         |                 |        |             |         |                 |
| TOTAL                                       | 204    |             |         | 39178           | 302    |             |         | 41347           |

TABLE D-2 CONT.

## ANALYSIS OF GILL NETTING CATCH AT LOCUST POINT, 1973

| Species                                     | 8-30-73 |             |         |              | 9-28-73 |             |         |              |
|---------------------------------------------|---------|-------------|---------|--------------|---------|-------------|---------|--------------|
|                                             | No.     | Length (mm) |         | Total Wt (g) | No.     | Length (mm) |         | Total Wt (g) |
|                                             |         | Mean        | Range   |              |         | Mean        | Range   |              |
| <u>Alosa pseudoharengus</u>                 |         |             |         |              | 186*    | 113         | 98-195  | 1895         |
| <u>Aplodinotus grunniens</u>                | 31      | 192         | 85-329  | 3650         | 13      | 233         | 125-281 | 2139         |
| <u>Carassius auratus</u>                    | 2       | 223         | 205-241 | 384          | 1       | 228         |         | 192          |
| <u>Catostomus c. commersoni</u>             |         |             |         |              | 1       | 486         |         | 1221         |
| <u>Cyprinus carpio</u>                      | 16      | 299         | 215-421 | 6811         | 17      | 300         | 230-382 | 7164         |
| <u>C. carpio</u> x <u>Carassius auratus</u> | 6       | 320         | 245-383 | 2974         | 4       | 299         | 234-334 | 1371         |
| <u>Dorosoma cepedianum</u>                  | 341     | 134         | 75-388  | 21662        | 112*    | 138         | 86-372  | 3892         |
| <u>Hybopsis storeriana</u>                  |         |             |         |              | 1       | 166         |         | 50           |
| <u>Ictalurus natalis</u>                    | 1       | 173         |         | 76           |         |             |         |              |
| <u>I. nebulosus</u>                         | 1       | 194         |         | 98           | 2       | 195         | 176-213 | 185          |
| <u>I. punctatus</u>                         | 2       | 178         | 137-219 | 130          |         |             |         |              |
| <u>Morone chrysops</u>                      | 13      | 105         | 85-144  | 207          | 3       | 93          | 83-106  | 28           |
| <u>Notropis a. atherinoides</u>             | 25      | 111         | 98-128  | 348          |         |             |         |              |
| <u>N. hudsonius</u>                         |         |             |         |              | 64      | 116         | 100-134 | 1044         |
| <u>Osmerus eperlanus mordax</u>             |         |             |         |              |         |             |         |              |
| <u>Perca flavescens</u>                     | 287     | 186         | 141-236 | 25330        | 356     | 215         | 104-226 | 31144        |
| <u>Pomoxis annularis</u>                    |         |             |         |              | 2       | 160         | 156-164 | 96           |
| <u>Stizostedion v. vitreum</u>              |         |             |         |              | 1       | 346         |         | 496          |
| TOTAL                                       | 725     |             |         | 61670        | 763*    |             |         | 50917        |

\* Does not include Young-of-the-year

Alosa pseudoharengus - 308Dorosoma cepedianum - 272

TABLE D-2 CONT.

## ANALYSIS OF GILL NETTING CATCH AT LOCUST POINT, 1973

| Species                              | 11-12-73 |             |         |                 |
|--------------------------------------|----------|-------------|---------|-----------------|
|                                      | No.      | Length (mm) |         | Total<br>Wt (g) |
|                                      |          | Mean        | Range   |                 |
| <u>Alosa pseudoharengus</u>          | 1        | 137         |         | 24              |
| <u>Aplodinotus grunniens</u>         |          |             |         |                 |
| <u>Carassius auratus</u>             |          |             |         |                 |
| <u>Catostomus c. commersoni</u>      |          |             |         |                 |
| <u>Cyprinus carpio</u>               |          |             |         |                 |
| <u>C. carpio x Carassius auratus</u> |          |             |         |                 |
| <u>Dorosoma cepedianum</u>           | 5        | 167         | 122-330 | 464             |
| <u>Hybopsis storeriana</u>           |          |             |         |                 |
| <u>Ictalurus natalis</u>             |          |             |         |                 |
| <u>I. nebulosus</u>                  |          |             |         |                 |
| <u>I. punctatus</u>                  |          |             |         |                 |
| <u>Morone chrysops</u>               |          |             |         |                 |
| <u>Notropis a. atherinoides</u>      | 1        | 100         |         | 5               |
| <u>N. hudsonius</u>                  | 14       | 116         | 106-131 | 177             |
| <u>Osmerus eperlanus mordax</u>      |          |             |         |                 |
| <u>Perca flavescens</u>              | 1        | 191         |         | 92              |
| <u>Pomoxis annularis</u>             |          |             |         |                 |
| <u>Stizostedion v. vitreum</u>       |          |             |         |                 |
| Total                                | 22       |             |         | 762             |

TABLE D-3

## ANALYSIS OF SHORE SEINING CATCH AT LOCUST POINT, 1973

| Species                         | 6-14-73 |             |         |              | 8-1-73 |             |        |              |
|---------------------------------|---------|-------------|---------|--------------|--------|-------------|--------|--------------|
|                                 | No.     | Length (mm) |         | Total Wt (g) | No.    | Length (mm) |        | Total Wt (g) |
|                                 |         | Mean        | Range   |              |        | Mean        | Range  |              |
| <u>Alosa pseudoharengus</u>     | 5       | 164         | 153-172 | 190          | 232    | 53          | 36-74  | 250          |
| <u>Aplodinotus grunniens</u>    | 1       | 297         |         | 357          |        |             |        |              |
| <u>Cyprinus carpio</u>          | 3       | 423         | 296-495 | 3751         |        |             |        |              |
| <u>Dorosoma cepedianum</u>      | 2       | 303         | 299-307 | 556          | 47     | 81          | 60-118 | 188          |
| <u>Lepomis humilis</u>          | 1       | 76          |         | 10           |        |             |        |              |
| <u>Morone chrysops</u>          | 2       | 137         | 130-143 | 68           | 122    | 63          | 37-90  | 300          |
| <u>Notropis a. atherinoides</u> | 306     | 68.3        | 45-119  | 979          | 474    | 83          | 39-122 | 2124         |
| <u>N. hudsonius</u>             | 129     | 110         | 73-127  | 997          |        |             |        |              |
| <u>N. v. volucellus</u>         |         |             |         |              | 1      | 60          |        | 2            |
| <u>Pomoxis annularis</u>        | 7       | 123         | 93-165  | 188          |        |             |        |              |
| <u>P. nigromaculatus</u>        | 6       | 109.5       | 84-173  | 139          |        |             |        |              |
| TOTAL                           | 462     |             |         | 7235         | 876    |             |        | 2864         |

TABLE D-3 CONT.

## ANALYSIS OF SHORE SEINING CATCH AT LOCUST POINT, 1973

| Species                         | 10-3-73 |             |        |                 | 11-12-73 |             |        |                 |
|---------------------------------|---------|-------------|--------|-----------------|----------|-------------|--------|-----------------|
|                                 | No.     | Length (mm) |        | Total<br>Wt (g) | No.      | Length (mm) |        | Total<br>Wt (g) |
|                                 |         | Mean        | Range  |                 |          | Mean        | Range  |                 |
| <u>Alosa pseudoharengus</u>     |         |             |        |                 |          |             |        |                 |
| <u>Aplodinotus grunniens</u>    |         |             |        |                 |          |             |        |                 |
| <u>Cyprinus carpio</u>          |         |             |        |                 |          |             |        |                 |
| <u>Dorosoma cepedianum</u>      | 8       | 108         | 67-154 | 144             | 21       | 130         | 75-183 | 574             |
| <u>Lepomis humilis</u>          |         |             |        |                 |          |             |        |                 |
| <u>Morone chrysops</u>          | 2       | 67          | 67-67  | 8               | 1        | 95          |        | 9               |
| <u>Notropis a. atherinoides</u> | 12      | 82          | 67-105 | 57              | 332      | 59          | 43-95  | 549             |
| <u>N. hudsonius</u>             |         |             |        |                 |          |             |        |                 |
| <u>N. v. volucellus</u>         |         |             |        |                 |          |             |        |                 |
| <u>Pomoxis annularis</u>        |         |             |        |                 | 1        | 122         |        | 25              |
| <u>P. nigromaculatus</u>        |         |             |        |                 |          |             |        |                 |
| Total                           | 22      |             |        | 209             | 355      |             |        | 1157            |

APPENDIX E

WATER CHEMISTRY AT LOCUST POINT

1973

TABLE E-1

PHYSICOCHEMICAL MEASUREMENTS OF LAKE ERIE WATER  
AT LOCUST POINT, OHIO

16-25 May 1973

Data Period

| Sta | Date/Time | Depth<br>(m) | Trans<br>(m) | DO<br>(ppm) |   | Temp<br>(C°) |      | Cond<br>(µmho/cm) |     | Turbid<br>JTU |   | Alk<br>(ppm) |   | pH |   |
|-----|-----------|--------------|--------------|-------------|---|--------------|------|-------------------|-----|---------------|---|--------------|---|----|---|
|     |           |              |              | S           | B | S            | B    | S                 | B   | S             | B | S            | B | S  | B |
| 1   | 5-19/1100 | 2.1          | 0.30         |             |   | 13.6         | 13.6 | 335               | 310 | 43            |   |              |   |    |   |
| 2   | 5-19/1130 | 2.6          | 0.76         |             |   | 13.4         | 13.4 | 315               | 315 |               |   |              |   |    |   |
| 3   | 5-19/1150 | 4.0          | 0.91         | 13.0        |   | 13.1         | 13.4 | 305               | 300 | 11            |   |              |   |    |   |
| 4   | 5-19/1230 | 4.3          | 0.91         |             |   | 12.8         | 13.1 | 300               | 300 |               |   |              |   |    |   |
| 5   | 5-25/1355 | 2.1          | 0.67         | 12.0        |   | 15.6         | 15.6 | 350               | 350 | 23            |   |              |   |    |   |
| 6   | 5-25/1340 | 2.8          | 0.61         |             |   | 15.6         | 15.6 | 340               | 350 |               |   |              |   |    |   |
| 7   | 5-25/1320 | 4.0          | 0.61         | 13.0        |   | 15.6         | 14.6 | 340               | 330 | 12            |   |              |   |    |   |
| 8   | 5-25/1310 | 4.4          | 0.76         |             |   | 15.6         | 14.7 | 340               | 320 |               |   |              |   |    |   |
| 9   | 5-25/1300 | 4.5          | 0.61         |             |   | 15.6         | 14.7 | 320               | 320 |               |   |              |   |    |   |
| 10  | 5-16/0900 | 1.8          | 0.49         |             |   | 13.4         | 13.4 | 335               | 340 | 23            |   |              |   |    |   |
| 11  | 5-16/0940 | 2.0          | 0.61         |             |   | 13.4         | 13.4 | 320               | 325 |               |   |              |   |    |   |
| 12  | 5-16/1000 |              | 0.61         | 14.0        |   | 13.4         | 13.4 | 340               | 340 | 13            |   |              |   |    |   |
| 13  | 5-25/1125 | 3.7          | 0.67         | 12.0        |   | 15.0         | 14.5 | 335               | 320 | 13            |   |              |   |    |   |
| 14  | 5-25/1155 | 4.3          | 0.61         |             |   | 15.6         | 14.5 | 335               | 330 |               |   |              |   |    |   |
| 15  | 5-25/1050 | 3.5          | 0.76         |             |   | 15.0         | 14.5 | 340               | 330 |               |   |              |   |    |   |
| 16  | 5-25/1105 | 2.2          | 0.67         |             |   | 15.0         | 14.7 | 340               | 330 |               |   |              |   |    |   |
| 17  |           |              |              |             |   |              |      |                   |     |               |   |              |   |    |   |
| 18  | 5-25/1205 | 3.5          | 0.76         | 13.0        |   | 15.6         | 14.5 | 340               | 320 | 13            |   |              |   |    |   |
| 19  |           |              |              |             |   |              |      |                   |     |               |   |              |   |    |   |
| 20  |           |              |              |             |   |              |      |                   |     |               |   |              |   |    |   |
| 21  |           |              |              |             |   |              |      |                   |     |               |   |              |   |    |   |
| 22  |           |              |              |             |   |              |      |                   |     |               |   |              |   |    |   |

TABLE E-2

PHYSICOCHEMICAL MEASUREMENTS OF LAKE ERIE WATER  
AT LOCUST POINT, OHIO

27 June-2 July 1973  
Data Period

| Sta | Date/Time | Depth<br>(m) | Trans<br>(m) | DO<br>(ppm) |   | Temp<br>(C°) |      | Cond<br>(µmho/cm) |   | Turbid<br>JTU |   | Alk<br>(ppm) |   | pH |   |  |  |
|-----|-----------|--------------|--------------|-------------|---|--------------|------|-------------------|---|---------------|---|--------------|---|----|---|--|--|
|     |           |              |              | S           | B | S            | B    | S                 | B | S             | B | S            | B | S  | B |  |  |
| 1   | 6-27/1515 | 1.6          | 0.27         |             |   | 23.4         | 22.8 |                   |   |               |   |              |   |    |   |  |  |
| 2   | 6-27/1520 | 2.6          | 0.24         |             |   | 22.8         | 22.8 |                   |   |               |   |              |   |    |   |  |  |
| 3   | 6-27/1530 | 3.7          | 0.34         | 7.0         |   | 22.8         | 23.1 |                   |   | 32            |   |              |   |    |   |  |  |
| 4   | 6-27/1550 | 4.1          | 0.43         |             |   | 22.8         | 22.8 |                   |   |               |   |              |   |    |   |  |  |
| 5   | 7-2/1400  | 1.9          | 0.18         |             |   | 25.6         | 24.5 |                   |   |               |   |              |   |    |   |  |  |
| 6   | 7-2/1350  | 3.1          | 0.27         |             |   | 25.0         | 23.9 |                   |   |               |   |              |   |    |   |  |  |
| 7   | 7-2/1330  | 4.5          | 0.43         | 14.0        |   | 24.2         | 23.4 | 330               |   | 18            |   |              |   |    |   |  |  |
| 8   | 7-2/1320  | 4.5          | 0.34         |             |   | 24.5         | 23.4 |                   |   |               |   |              |   |    |   |  |  |
| 9   | 7-2/1310  | 4.8          | 0.49         |             |   | 24.5         | 23.4 |                   |   |               |   |              |   |    |   |  |  |
| 10  | 7-2/1140  | 2.9          | 0.24         |             |   | 25.6         | 23.9 |                   |   |               |   |              |   |    |   |  |  |
| 11  | 7-2/1150  | 3.2          | 0.30         |             |   | 25.6         | 23.6 |                   |   |               |   |              |   |    |   |  |  |
| 12  | 7-2/1220  | 2.2          | 0.34         |             |   | 25.0         | 23.4 |                   |   |               |   |              |   |    |   |  |  |
| 13  | 6-27/1255 | 3.5          | 0.30         | 9.0         |   | 23.4         | 22.8 |                   |   | 32            |   |              |   |    |   |  |  |
| 14  | 6-27/1205 | 3.9          | 0.40         |             |   | 23.1         | 23.1 |                   |   |               |   |              |   |    |   |  |  |
| 15  | 7-2/1200  | 2.3          | 0.34         |             |   | 24.5         | 23.4 |                   |   |               |   |              |   |    |   |  |  |
| 16  | 7-2/1210  | 2.3          | 0.34         |             |   | 24.7         | 23.4 |                   |   |               |   |              |   |    |   |  |  |
| 17  |           |              |              |             |   |              |      |                   |   |               |   |              |   |    |   |  |  |
| 18  | 6-27/1230 | 3.5          | 0.34         |             |   | 23.1         | 23.4 |                   |   | 32            |   |              |   |    |   |  |  |
| 19  | 7-2/1510  | 4.5          | 0.27         | 14.0        |   | 27.5         |      | 390               |   | 32            |   |              |   |    |   |  |  |
| 20  | 7-2/1450  | 4.8          | 0.30         | 14.0        |   | 27.2         |      | 390               |   | 34            |   |              |   |    |   |  |  |
| 21  |           |              |              |             |   |              |      |                   |   |               |   |              |   |    |   |  |  |
| 22  |           |              |              |             |   |              |      |                   |   |               |   |              |   |    |   |  |  |

TABLE E-3

PHYSICOCHEMICAL MEASUREMENTS OF LAKE ERIE WATER  
AT LOCUST POINT, OHIO

25 July-1 Aug. 1973  
Data Period

| Sta | Date/Time | Depth<br>(m) | Trans<br>(m) | DO<br>(ppm) |   | Temp<br>(C°) |      | Cond<br>(umho/cm) |   | Turbid<br>JTU |   | Alk<br>(ppm) |   | pH |   |  |  |
|-----|-----------|--------------|--------------|-------------|---|--------------|------|-------------------|---|---------------|---|--------------|---|----|---|--|--|
|     |           |              |              | S           | B | S            | B    | S                 | B | S             | B | S            | B | S  | B |  |  |
| 1   | 7-25/1415 | 1.7          | 0.37         | 12.0        |   | 25.6         | 25.0 |                   |   | 17            |   | 95           |   |    |   |  |  |
| 2   | 7-25/1435 | 2.3          | 0.40         |             |   | 27.2         | 25.0 |                   |   |               |   |              |   |    |   |  |  |
| 3   | 7-25/1445 | 3.3          | 0.49         | 13.0        |   | 26.7         | 25.3 |                   |   | 15            |   | 105          |   |    |   |  |  |
| 4   | 7-25/1505 | 4.0          | 0.49         |             |   | 26.1         | 26.1 |                   |   |               |   |              |   |    |   |  |  |
| 5   | 8-1/1225  | 6.5          | 0.18         | 7.0         |   | 24.5         | 24.5 |                   |   | 50            |   | 180          |   |    |   |  |  |
| 6   | 8-1/1245  | 2.7          | 0.15         |             |   | 24.5         | 24.5 |                   |   |               |   |              |   |    |   |  |  |
| 7   | 8-1/1150  | 4.0          | 0.34         | 9.0         |   | 23.9         | 25.0 |                   |   | 19            |   | 120          |   |    |   |  |  |
| 8   | 8-1/1135  | 4.1          | 0.43         |             |   | 24.5         | 24.5 |                   |   |               |   |              |   |    |   |  |  |
| 9   | 8-1/1110  | 4.5          | 0.64         | 9.0         |   | 24.2         | 23.9 |                   |   | 9             |   | 105          |   |    |   |  |  |
| 10  | 7-25/1100 | 1.7          | 0.15         | 9.0         |   | 26.4         | 24.5 |                   |   | 51            |   | 110          |   |    |   |  |  |
| 11  | 7-25/1120 | 2.3          | 0.37         |             |   | 25.3         | 25.0 |                   |   |               |   |              |   |    |   |  |  |
| 12  | 7-25/1155 | 2.9          | 0.43         |             |   | 25.6         | 24.5 |                   |   |               |   |              |   |    |   |  |  |
| 13  | 7-25/1205 | 3.3          | 0.55         | 12.0        |   | 24.5         | 24.5 |                   |   | 14            |   | 110          |   |    |   |  |  |
| 14  | 7-25/1225 | 4.0          | 0.46         |             |   | 25.6         | 24.7 |                   |   |               |   |              |   |    |   |  |  |
| 15  | 7-25/1135 | 3.2          | 0.58         |             |   | 25.0         | 24.5 |                   |   |               |   |              |   |    |   |  |  |
| 16  | 7-25/1145 | 2.1          | 0.40         |             |   | 24.5         | 24.5 |                   |   |               |   |              |   |    |   |  |  |
| 17  | 7-25/1245 | 2.7          | 0.40         | 12.0        |   | 25.9         | 24.5 |                   |   | 21            |   | 100          |   |    |   |  |  |
| 18  | 7-25/1235 | 3.6          | 0.43         |             |   | 25.6         | 24.5 |                   |   |               |   |              |   |    |   |  |  |
| 19  | 7-25/1600 | 5.5          | 0.24         | 11.0        |   | 26.7         | 26.7 |                   |   | 32            |   | 110          |   |    |   |  |  |
| 20  | 7-25/1615 | 6.2          | 0.27         | 12.0        |   | 26.1         | 25.3 |                   |   | 32            |   | 100          |   |    |   |  |  |
| 21  |           |              |              |             |   |              |      |                   |   |               |   |              |   |    |   |  |  |
| 22  |           |              |              |             |   |              |      |                   |   |               |   |              |   |    |   |  |  |

TABLE E-4

PHYSICOCHEMICAL MEASUREMENTS OF LAKE ERIE WATER  
AT LOCUST POINT, OHIO

23 August 1973

Data Period

| Sta | Date/Time | Depth<br>(m) | Trans<br>(m) | DO<br>(ppm) |   | Temp<br>(C°) |   | Cond<br>( $\mu$ mhos/cm) |   | Turbid<br>JTU |   | Alk<br>(ppm) |   | pH |   | CO <sub>2</sub><br>(ppm) |
|-----|-----------|--------------|--------------|-------------|---|--------------|---|--------------------------|---|---------------|---|--------------|---|----|---|--------------------------|
|     |           |              |              | S           | B | S            | B | S                        | B | S             | B | S            | B | S  | B |                          |
| 1   | 8-23/1705 | 1.9          | 0.30         | 12.0        |   |              |   |                          |   |               |   | 120          |   |    |   | 0-5                      |
| 2   | 8-23/1655 | 2.3          | 0.30         |             |   |              |   |                          |   | 17            |   |              |   |    |   |                          |
| 3   | 8-23/1640 | 3.9          | 0.34         | 9.0         |   |              |   |                          |   | 19            |   | 120          |   |    |   | 0-5                      |
| 4   | 8-23/1630 | 4.3          | 0.40         |             |   |              |   |                          |   |               |   |              |   |    |   |                          |
| 5   | 8-23/1540 | 2.9          | 0.18         | 8.0         |   |              |   |                          |   | 19            |   | 155          |   |    |   | 0-5                      |
| 6   | 8-23/1530 | 3.0          | 0.34         |             |   |              |   |                          |   |               |   |              |   |    |   |                          |
| 7   | 8-23/1510 | 3.0          | 0.34         | 7.0         |   |              |   |                          |   | 19            |   | 120          |   |    |   | 0-5                      |
| 8   | 8-23/1450 | 4.1          | 0.43         |             |   |              |   |                          |   |               |   |              |   |    |   |                          |
| 9   | 8-23/1430 | 4.5          | 0.43         | 10.0        |   |              |   |                          |   | 16            |   | 135          |   |    |   | 0-5                      |
| 10  | 8-23/1245 | 1.1          | 0.21         | 11.0        |   |              |   |                          |   | 26            |   | 170          |   |    |   | 0-5                      |
| 11  | 8-23/1230 | 2.1          | 0.24         |             |   |              |   |                          |   |               |   |              |   |    |   |                          |
| 12  | 8-23/1205 | 3.0          | 0.30         | 11.0        |   |              |   |                          |   | 18            |   | 105          |   |    |   | 0-5                      |
| 13  | 8-23/1120 | 3.8          | 0.27         | 11.0        |   |              |   |                          |   | 16            |   | 120          |   |    |   | 0-5                      |
| 14  | 8-23/1030 | 4.3          | 0.30         |             |   |              |   |                          |   |               |   |              |   |    |   |                          |
| 15  | 8-23/1140 | 3.5          | 0.27         |             |   |              |   |                          |   |               |   |              |   |    |   |                          |
| 16  | 8-23/1155 | 2.6          | 0.30         |             |   |              |   |                          |   |               |   |              |   |    |   |                          |
| 17  | 8-23/1050 | 2.2          | 0.27         | 9.0         |   |              |   |                          |   | 22            |   | 155          |   |    |   | 0-5                      |
| 18  | 8-23/1045 | 3.9          | 0.34         |             |   |              |   |                          |   |               |   |              |   |    |   |                          |
| 19  | 8-23/1325 | 4.9          | 0.30         | 11.0        |   |              |   |                          |   | 18            |   | 120          |   |    |   | 0-5                      |
| 20  | 8-23/1345 | 5.5          | 0.37         | 11.0        |   |              |   |                          |   | 16            |   | 105          |   |    |   | 0-5                      |
| 21  |           |              |              |             |   |              |   |                          |   |               |   |              |   |    |   |                          |
| 22  |           |              |              |             |   |              |   |                          |   |               |   |              |   |    |   |                          |

TABLE E-5

PHYSICOCHEMICAL MEASUREMENTS OF LAKE ERIE WATER  
AT LOCUST POINT, OHIO

19-26 Sept. 1973

Data Period

| Sta | Date/Time | Depth<br>(m) | Trans<br>(m) | DO<br>(ppm) |      | Temp<br>(C°) |      | Cond<br>(umho/cm) |   | Turbid<br>JTU |   | Alk<br>(ppm) |       | pH  |   | OrthoPhos-<br>phate<br>(ppm) |  |
|-----|-----------|--------------|--------------|-------------|------|--------------|------|-------------------|---|---------------|---|--------------|-------|-----|---|------------------------------|--|
|     |           |              |              | S           | B    | S            | B    | S                 | B | S             | B | phenol       | total | S   | B |                              |  |
| 1   | 9-26/1410 | 1.7          | 0.21         | 9.6         | 8.8  | 20.0         | 19.0 | 300               |   | 27            |   | 0            | 155   | 8.3 |   | 0.05                         |  |
| 2   | 9-26/1350 | 2.0          | 0.24         | 9.5         | 9.2  | 20.0         | 19.0 |                   |   |               |   |              |       |     |   |                              |  |
| 3   | 9-26/1330 | 3.0          | 0.30         | 10.0        | 9.1  | 20.0         | 19.0 | 281               |   | 25            |   | 0            | 135   | 8.2 |   | 0.05                         |  |
| 4   | 9-26/1315 | 3.6          | 0.30         | 8.8         | 10.0 | 19.5         | 19.0 |                   |   |               |   |              |       |     |   |                              |  |
| 5   | 9-26/1230 | 3.3          | 0.18         | 8.4         | 7.3  | 20.0         | 19.0 | 260               |   | 35            |   | 0            | 135   | 8.2 |   | 0.05                         |  |
| 6   | 9-26/1215 | 2.5          | 0.18         | 9.1         | 8.6  | 19.5         | 19.0 |                   |   |               |   |              |       |     |   |                              |  |
| 7   | 9-26/1150 | 3.6          | 0.46         | 9.1         | 9.0  | 19.1         | 19.0 | 281               |   | 18            |   | 0            | 155   | 8.2 |   | 0.25                         |  |
| 8   | 9-26/1125 | 4.3          | 0.49         | 8.8         | 8.5  | 19.0         | 18.6 | 260               |   | 14            |   | 0            | 120   | 8.3 |   | 0.40                         |  |
| 9   | 9-26/1100 | 5.6          | 0.49         | 9.0         | 8.2  | 19.0         | 18.5 | 245               |   | 16            |   | 0            | 135   | 8.3 |   | 0.05                         |  |
| 10  | 9-19/1220 | 1.0          | 0.27         | 10.0        | 9.0  | 17.0         | 16.0 | 287               |   | 37            |   | 0            | 120   | 7.9 |   | 0.03                         |  |
| 11  | 9-19/1235 | 2.4          | 0.27         |             |      |              |      |                   |   |               |   |              |       |     |   |                              |  |
| 12  | 9-19/0130 | 2.6          | 0.30         | 5.9         | 8.2  | 17.0         | 17.0 | 306               |   | 24            |   | 0            | 120   | 7.9 |   | 0.04                         |  |
| 13  | 9-19/1200 | 3.3          | 0.27         | 8.8         | 8.2  | 17.0         | 17.0 | 306               |   | 33            |   | 0            | 135   | 8.2 |   | 0.04                         |  |
| 14  | 9-19/1105 | 4.0          | 0.34         | 8.8         | 8.1  | 17.0         | 17.0 |                   |   |               |   |              |       |     |   |                              |  |
| 15  | 9-19/0100 | 3.2          | 0.24         |             |      |              |      |                   |   |               |   |              |       |     |   |                              |  |
| 16  | 9-19/1250 | 1.8          | 0.24         |             |      |              |      |                   |   |               |   |              |       |     |   |                              |  |
| 17  | 9-19/1140 | 2.3          | 0.34         | 8.8         | 8.1  | 17.0         | 16.5 | 361               |   | 27            |   | 0            | 135   | 8.1 |   | 0.08                         |  |
| 18  | 9-19/1125 | 3.3          | 0.34         |             |      |              |      |                   |   |               |   |              |       |     |   |                              |  |
| 19  | 9-26/0945 | 4.6          | 0.18         | 8.4         | 7.3  | 19.5         | 18.5 | 286               |   | 50            |   | 0            | 135   | 8.3 |   | 0.1                          |  |
| 20  | 9-26/1015 | 5.5          | 0.21         | 8.3         | 6.0  | 19.0         | 17.0 | 270               |   | 38            |   | 0            | 135   | 8.1 |   | 0.05                         |  |
| 21  |           |              |              |             |      |              |      |                   |   |               |   |              |       |     |   |                              |  |
| 22  |           |              |              |             |      |              |      |                   |   |               |   |              |       |     |   |                              |  |

TABLE E-6

PHYSICOCHEMICAL MEASUREMENTS OF LAKE ERIE WATER  
AT LOCUST POINT, OHIO

2 November 1973

Data Period

| Sta | Date/Time | Depth<br>(m) | Trans<br>(m) | DO<br>(ppm) |      | Temp<br>(C°) |      | Cond<br>(umho/cm) |   | Turbid<br>JTU |   | Alk<br>(ppm) |   | pH  |   | OrthoPhos-<br>phate<br>(ppm) |  |
|-----|-----------|--------------|--------------|-------------|------|--------------|------|-------------------|---|---------------|---|--------------|---|-----|---|------------------------------|--|
|     |           |              |              | S           | B    | S            | B    | S                 | B | S             | B | S            | B | S   | B |                              |  |
| 1   | 11/2-1500 | 1.2          | 0.15         | 10.6        | 10.8 | 10.0         | 10.0 |                   |   |               |   |              |   |     |   |                              |  |
| 2   | 11-2/1440 | 1.9          | 0.18         | 10.2        | 10.8 | 10.5         | 10.0 |                   |   |               |   |              |   |     |   |                              |  |
| 3   | 11-2/1420 | 3.0          | 0.18         | 10.6        | 10.4 | 10.0         | 10.0 |                   |   |               |   |              |   |     |   |                              |  |
| 4   | 11-2/1355 | 3.8          | 0.18         | 10.2        | 8.8  | 10.0         | 10.0 |                   |   |               |   |              |   |     |   |                              |  |
| 5   | 11-7/1245 | 1.5          | 0.15         | 12.6        | 12.4 | 5.0          | 5.0  | 320               |   | 52            |   |              |   | 7.5 |   | 0.07                         |  |
| 6   | 11-7/1230 | 1.9          | 0.18         | 13.6        | 13.4 | 5.0          | 5.0  |                   |   |               |   |              |   |     |   |                              |  |
| 7   | 11-7/1215 | 3.6          | 0.18         | 14.6        | 14.2 | 6.0          | 6.0  | 310               |   | 32            |   |              |   | 7.6 |   | 0.15                         |  |
| 8   | 11-7/1130 | 4.0          | 0.30         | 14.2        | 13.2 | 6.0          | 6.0  |                   |   |               |   |              |   |     |   |                              |  |
| 9   | 11-7/1100 | 4.2          | 0.24         | 12.4        | 11.2 | 6.0          | 6.0  | 270               |   | 37            |   |              |   | 7.8 |   | 0.05                         |  |
| 10  | 11-2/1145 | 1.5          | 0.15         | 11.0        | 10.8 | 10.0         | 10.0 |                   |   |               |   |              |   |     |   |                              |  |
| 11  | 11-2/1200 | 2.0          | 0.18         | 10.8        | 11.0 | 10.0         | 10.0 |                   |   |               |   |              |   |     |   |                              |  |
| 12  | 11-2/1215 | 2.8          | 0.15         | 11.0        | 11.0 | 10.0         | 10.0 |                   |   |               |   |              |   |     |   |                              |  |
| 13  | 11-2/1250 | 3.2          | 0.21         | 10.8        | 10.0 | 10.0         | 10.0 |                   |   |               |   |              |   |     |   |                              |  |
| 14  | 11-2/1100 | 4.1          | 0.30         | 10.8        | 10.6 | 10.0         | 10.0 |                   |   |               |   |              |   |     |   |                              |  |
| 15  | 11-2/1320 | 3.0          | 0.18         | 10.8        | 10.6 | 10.5         | 9.5  |                   |   |               |   |              |   |     |   |                              |  |
| 16  | 11-2/1300 | 1.9          | 0.15         | 10.2        | 10.6 | 10.5         | 10.0 |                   |   |               |   |              |   |     |   |                              |  |
| 17  | 11-2/1125 | 2.0          | 0.18         | 11.2        | 11.0 | 10.0         | 10.0 |                   |   |               |   |              |   |     |   |                              |  |
| 18  | 11-2/1135 | 3.1          | 0.30         | 11.6        | 11.8 | 10.0         | 9.8  |                   |   |               |   |              |   |     |   |                              |  |
| 19  | 11-7/1345 | 4.0          | 0.27         | 11.8        | 11.2 | 7.0          | 7.0  | 370               |   | 36            |   |              |   | 7.5 |   | 0.07                         |  |
| 20  | 11-7/1400 | 5.4          | 0.24         | 11.0        | 10.4 | 7.0          | 7.0  | 380               |   | 34            |   |              |   | 7.7 |   | 0.05                         |  |
| 21  |           |              |              |             |      |              |      |                   |   |               |   |              |   |     |   |                              |  |
| 22  |           |              |              |             |      |              |      |                   |   |               |   |              |   |     |   |                              |  |

TABLE E-7

PHYSICOCHEMICAL MEASUREMENTS OF LAKE ERIE WATER  
AT LOCUST POINT, OHIO

4 December 1973

Data Period

| Sta | Date/Time | Depth<br>(m) | Trans<br>(m) | DO<br>(ppm) |      | Temp<br>(C°) |     | Cond<br>(umho/cm) |   | Turbid<br>JTU |   | Alk<br>(ppm) |       | pH  |   | Sul-<br>fate | Ortho-<br>Phos-<br>phate |
|-----|-----------|--------------|--------------|-------------|------|--------------|-----|-------------------|---|---------------|---|--------------|-------|-----|---|--------------|--------------------------|
|     |           |              |              | S           | B    | S            | B   | S                 | B | S             | B | pheno        | total | S   | B |              |                          |
| 1   | 12-4/     | 1.6          | 1.2          | 11.0        |      | 6.0          | 6.0 | 370               |   | 17            |   | 0            | 85    | 7.5 |   | 1.0          | 0.05                     |
| 2   |           |              |              |             |      |              |     |                   |   |               |   |              |       |     |   |              |                          |
| 3   | 12-4/1045 | 3.1          | 1.6          |             |      |              |     | 340               |   | 15            |   | 0            | 105   | 7.4 |   | 2.6          | 0.05                     |
| 4   |           |              |              |             |      |              |     |                   |   |               |   |              |       |     |   |              |                          |
| 5   | 12-4/     | 1.9          | 1.5          |             |      |              |     |                   |   | 15            |   | 0            | 105   | 7.4 |   | 1.2          | 0.15                     |
| 6   |           |              |              |             |      |              |     |                   |   |               |   |              |       |     |   |              |                          |
| 7   | 12-4/     | 3.2          | 2.0          |             |      |              |     | 310               |   | 14            |   | 0            | 120   | 7.4 |   | 2.7          | 0.07                     |
| 8   |           |              |              |             |      |              |     |                   |   |               |   |              |       |     |   |              |                          |
| 9   | 12-4/     | 4.5          | 2.5          | 10.0        | 11.0 | 6.0          | 6.0 | 300               |   | 10            |   | 0            | 105   | 7.5 |   | 4.1          | 0.2                      |
| 10  | 12-4/     | 1.5          | 1.5          |             |      |              |     | 360               |   | 17            |   | 0            | 135   | 7.5 |   | 0.8          | 0.35                     |
| 11  |           |              |              |             |      |              |     |                   |   |               |   |              |       |     |   |              |                          |
| 12  |           |              |              |             |      |              |     |                   |   |               |   |              |       |     |   |              |                          |
| 13  | 12-4/1300 | 3.2          | 1.6          | 11.0        | 11.0 | 6.0          | 6.0 | 380               |   | 16            |   | 0            | 105   | 7.4 |   | 2.8          | 0.25                     |
| 14  |           |              |              |             |      |              |     |                   |   |               |   |              |       |     |   |              |                          |
| 15  |           |              |              |             |      |              |     |                   |   |               |   |              |       |     |   |              |                          |
| 16  |           |              |              |             |      |              |     |                   |   |               |   |              |       |     |   |              |                          |
| 17  | 12-4/     | 1.9          | 1.5          |             |      |              |     | 370               |   | 14            |   | 0            | 120   | 7.6 |   | 1.3          | 0.17                     |
| 18  |           |              |              |             |      |              |     |                   |   |               |   |              |       |     |   |              |                          |
| 19  | 12-4/     | 4.2          | 1.1          |             |      |              |     | 340               |   | 22            |   | 0            | 120   | 7.3 |   | 3.8          | 0.05                     |
| 20  | 12-4/     | 5.6          | 1.0          |             |      |              |     | 350               |   | 25            |   | 0            | 135   | 7.2 |   | 5.1          | 0.05                     |
| 21  |           |              |              |             |      |              |     |                   |   |               |   |              |       |     |   |              |                          |
| 22  |           |              |              |             |      |              |     |                   |   |               |   |              |       |     |   |              |                          |