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STUDIES OF THE AQUATIC ECOLOGY OF THE BLENHEIM-GILBOA PUMPED STORAGE RESERVOIRS AND OF SCHOHARIE CREEK BETWEEN PRATTSVILLE AND BREAKABEEN, NEW YORK

Progress Report for the Period
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by

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INTRODUCTION

In October 1972 Ichthyological Associates, Inc. (IA), began a study of the aquatic ecology of Schoharie Creek and its tributaries in the area of a pumped storage site (Breakabeen site) located between North Blenheim and Breakabeen, New York (Culp 1974). In April 1973 studies were enlarged to include the Blenheim-Gilboa (B-G) Pumped Storage Project between Gilboa and North Blenheim, New York, which is located 2½ mi upstream from the Breakabeen site.

The research was designed to acquire data on the aquatic environment of the B-G Project and Schoharie Creek between Prattsville and Breakabeen, New York. The objectives were:

1. To determine the fishes and the fisheries present in Schoharie Creek and tributaries.

2. To determine changes, if any, in the fisheries of Schoharie Creek above and below the B-G Pumped Storage Project that could be attributed to construction and operation.

3. To determine changes, if any, in the fisheries of Lower B-G after operation of the 1000 MW facility began in June 1973. Turbines (250 MW) 1, 2, 3, and 4 became fully operational on 4 July, 31 July, 19 September, and 9 October 1973, respectively. At elevation 860 ft Lower B-G contains 220 surface acres of water and at 900 ft, 420 surface acres.

4. To monitor the development of the fisheries in Upper B-G after pumping began in June 1973. At elevation 2003 ft Upper B-G contains 390 surface acres of water and at 1965 ft, 260 surface acres.

Results of the aquatic studies conducted from October 1972 through

October 1973 and from November 1973 through September 1974 are presented in Culp 1974 and 1975. Data collected from October 1974 through December 1975 are analyzed and presented in this report.

Studies conducted include: (1) variety, abundance, and distribution of fishes; (2) age and growth of fishes; (3) condition of fishes; (4) food habits of fishes (stomach analysis); (5) movement of fishes; (6) ichthyoplankton and zooplankton; (7) creel census; (8) stream benthos; and (9) water quality.

VARIETY, ABUNDANCE, AND DISTRIBUTION OF FISHES

Introduction

Fish collections were made from April through September 1975 in Lower and Upper B-G and in Schoharie Creek between the Gilboa Dam and the Walhalla Rocks; this includes the area of Schoharie Creek and its tributaries that would have been inundated by a pumped storage project at the Breakabeen site (Culp 1975). Fish were collected to determine actual and relative abundance (number of individuals and biomass) and to study food habits, age and growth, condition, and movement.

Materials and Methods

Methods of fish collection and locations of sampling stations were identical to those used in 1974 (Maps 1-5) (Culp 1974, 1975). In addition, three seine stations were sampled in Upper B-G in 1975. Stations sampled in 1974 but not in 1975 were trap net station 5 and the block net station at gill net station 6 in Lower B-G and the block net station between gill net stations 1 and 2 in Upper B-G.

Except for weight determination, fish processing was identical in 1974 and 1975. In 1975 fish were weighed to the nearest 1.0 g if 1000 g or less and to the nearest 1.0 oz if over 1000 g (2.2 lbs). All fish were weighed to the nearest 0.1 g in 1974.

Length of sampling was rounded to the nearest quarter hour and reported as 0.00, 0.25, 0.50, and 0.75.

Fishes were identified to species according to Hubbs and Lagler (1970) except for young (0+) sunfish spp. (redbreast sunfish, green sunfish, pumpkinseed, and bluegill) because of overlapping meristic characteristics (Table 1).

Results and Discussion

Lower B-G

Experimental Gill Net

In 1416.00 hours from April through September 1975 at 10 gill net stations, 14 fishes (n = 326) were captured (Tables 2 and 3). Rank by abundance was white sucker (n = 76, 23.3%), golden shiner (57, 17.5%), carp (49, 15.0%), pumpkinseed (48, 14.7%), brown bullhead (34, 10.4%), yellow perch (23, 7.1%), stonecat (11, 3.4%), fallfish (11, 3.4%), walleye (7, 2.1%), chain pickerel (3, 0.9%), rock bass (3, 0.9%), largemouth bass (2, 0.6%), smallmouth bass (1, 0.3%), and creek chub (1, 0.3%). Carp (67.34 lbs, 42.5%) and white sucker (39.67 lbs, 25.0%) comprised the greatest biomass (Table 4). Catch per hour was similar for all months sampled and ranged between 0.18 in August and 0.26 in July and September. Catch per hour was greatest at station 2 (0.47) and lowest at station 5 (0.05).

In 1975 the catch per hour for all fishes except pumpkinseed increased or remained the same in comparison to 1974. The catch per hour for golden shiner and white sucker was higher in 1975 than in 1974 or 1973. Total fish caught per hour was similar in 1974 (0.21) and 1975 (0.23), but well below the 1973 level (0.49). Thirteen fishes were caught in 1973 and 1974 and 14 in 1975. Fish biomass caught per hour increased between 1974 (0.07 lbs) and 1975 (0.11 lbs).

Trap Net

In 570.50 hours from April through September 1975 at four stations, 10 fishes (n = 247) were captured (Tables 5 and 6). Brown bullhead (n = 120, 48.6%) and pumpkinseed (73, 29.6%) were most abundant. Brown bullhead (19.21 lbs, 50.9%) and white sucker (9.77 lbs, 25.9%) comprised

the greatest biomass (Table 7). Catch per hour was highest in July (0.93) and lowest in June (0.17). Station 2 was the most productive (0.82 fish/hr) and station 3 the least (0.12 fish/hr).

Between 1974 and 1975 catch per hour decreased or remained the same for all fishes except yellow perch, white sucker, sunfish spp., and stonecat. White sucker was the only fish of which more were caught per hour in 1975 than in 1973. The decrease in catch rate between 1973 and 1975 was greatest for pumpkinseed (2.99 vs 0.13), carp (0.20 vs 0.00), and rock bass (0.14 vs 0.02). Redbreast sunfish, walleye, fallfish, smallmouth bass, sunfish spp., and stonecat were caught in 1975 but not in 1973. Overall catch rate decreased from 4.05 fish per hour in 1973 to 0.91 in 1974 and 0.43 in 1975. Ten fishes were caught in 1973, 13 in 1974, and 10 in 1975. Fish biomass caught per hour decreased from 0.12 in 1974 to 0.07 in 1975.

Seine Net

From June through September 1975, 24 seine hauls at three locations took nine fishes (n = 196) (Table 8). Golden shiner (n = 152, 77.6%) and fallfish (23, 11.7%) were most abundant. Golden shiner comprised the greatest biomass (1.34 lbs, 51.3%), followed by pumpkinseed (0.74 lbs, 28.4%) and fallfish (0.28 lbs, 10.7%). The most fish per haul were caught in August (15.5) and at station 1 (19.5).

Catch per haul was 305.9 in 1973, compared to 7.1 and 7.9 in 1974 and 1975, respectively (Table 9). The number of fishes caught decreased from 19 in 1973 to 12 in 1974 and 9 in 1975. Six fishes (creek chub, blacknose dace, longnose dace, cutlips minnow, stoneroller, and fantail darter) captured in 1973 but not in 1974 or 1975 prefer lotic environments. A single tessellated darter was caught in 1975, and none were caught in 1974 or 1973. Biomass per haul was approximately the same in 1974 (0.11 lbs) and 1975 (0.12 lbs).

Block Net

A block net was set monthly from June through September 1975 in Mine Kill Cove (Tables 10 and 11). The September set was incomplete because leaves clogged the net, causing two large tears. A total of 5001 fish representing 23 fishes was captured. Most abundant were carp (n = 2034, 40.7%), brown bullhead (1214, 24.3%), and white sucker (729, 14.6%). Carp (1570.02 lbs, 67.1%) comprised the greatest biomass, followed by white sucker (420.53 lbs, 18.0%) and brown bullhead (204.16 lbs, 8.7%). Most fish were taken in June (1805), fishes in September (18), and biomass in July (1006.25 lbs).

A block net in Mine Kill Cove on 17 August 1973 took 18 fishes (n = 5557, 312.12 lbs) in 0.75 surface acres and on 17 August 1975 took 13 fishes (834, 556.56 lbs) in 1.50 surface acres (Table 12). Between 1973 and 1975 the relative abundance of carp, white sucker, and brown bullhead increased and that of pumpkinseed decreased. Abundance and biomass of all fishes except carp, white sucker, smallmouth bass, and walleye were less in 1975 than in 1973. The greatest absolute change in biomass between 1973 and 1975 was for pumpkinseed (71.09 lbs vs 8.56 lbs, respectively), carp (119.91 lbs vs 405.33 lbs, respectively), and white sucker (42.35 lbs vs 108.88 lbs, respectively).

Combined Methods - Lower B-G

A total of 5770 fish (2538.48 lbs) and 24 fishes was captured by experimental gill net (n = 326, 5.6%), trap net (247, 4.3%), seine net (196, 3.4%), and block net (5001, 86.7%) (Tables 2-13). Most abundant were carp (n = 2083, 36.1%), brown bullhead (1369, 23.7%), and white sucker (830, 14.4%). Carp comprised the greatest biomass (1637.36 lbs, 64.5%),

followed by white sucker (469.98 lbs, 18.5%) and brown bullhead (233.01 lbs, 9.2%).

Game fishes collected included smallmouth bass (n = 165, 2.9%), walleye (32, 0.6%), largemouth bass (13, 0.2%), chain pickerel (5, 0.1%), and brown trout (1, 0.1%). Game fishes comprised 3.7% (216) by number and 3.4% (85.69 lbs) by weight of the total catch.

Pan fishes collected included brown bullhead (n = 1369, 23.7%), pumpkinseed (448, 7.8%), rock bass (74, 1.3%), sunfish spp. (66, 1.1%), yellow perch (55, 1.0%), and redbreast sunfish (4, 0.1%). Pan fishes comprised 34.9% (2016) by number and 12.1% (306.75 lbs) by weight of the total catch.

Weight of non-game fishes (pan and rough fishes) was 2452.79 lbs, giving a non-game fish/game fish weight ratio of 28.6/1 (Rounsefell and Everhart 1960). Data collected by the New York State Department of Environmental Conservation (DEC) in July 1975 resulted in a non-game fish/game fish ratio of 57.8/1 (Sanford 1976).

Upper B-G

Experimental Gill Net

In 853.50 hours from April through September 1975 at six gill net stations, 12 fishes (n = 624) were captured (Tables 14 and 15). Rank by abundance was yellow perch (n = 224, 35.9%), pumpkinseed (169, 27.1%), brown bullhead (52, 8.3%), carp (44, 7.1%), golden shiner (35, 5.6%), redbreast sunfish (34, 5.4%), walleye (26, 4.2%), fallfish (15, 2.4%), white sucker (13, 2.1%), rock bass (8, 1.3%), northern hog sucker (2, 0.3%), and stonecat (2, 0.3%). Carp (66.62 lbs, 35.0%) and yellow perch (49.85 lbs, 26.2%) comprised the greatest biomass (Table 16). Catch per hour by month

and station ranged from 0.29 in August to 1.79 in May and from 0.59 at station 5 to 0.95 at station 3.

Between 1974 and 1975 catch per hour increased for pumpkinseed, yellow perch, golden shiner, walleye, and fallfish and decreased for brown bullhead, carp, and redbreast sunfish. Common shiner (n = 5) and logperch (3) were caught only in 1974 and northern hog sucker (2) only in 1975. Fish and biomass caught per hour decreased between 1974 (1.09 and 0.31 lbs, respectively) and 1975 (0.73 and 0.23 lbs, respectively). Thirteen fishes were caught in 1974, compared to 12 in 1975.

Trap Net

In 566 hours from April through September 1975 at four trap net stations, seven fishes (n = 300) were captured (Tables 17 and 18). Rank by abundance was pumpkinseed (n = 159, 53.0%), yellow perch (100, 33.3%), redbreast sunfish (15, 5.0%), rock bass (14, 4.7%), brown bullhead (9, 3.0%), white sucker (2, 0.7%), and common shiner (1, 0.3%). Pumpkinseed (11.74 lbs, 36.5%) and yellow perch (11.48 lbs, 35.7%) comprised the greatest biomass (Table 19). July (1.42) and station 3 (0.89) produced the greatest catch per hour of months and stations sampled, and April (0.03) and station 1 (0.22) the least.

Between 1974 and 1975 catch per hour for yellow perch increased from 0.07 to 0.18 and decreased or remained the same for other fishes. Overall catch per hour in 1974 (0.74) was higher than in 1975 (0.53). Seven fishes were caught in 1975, compared to 12 in 1974. Logperch, carp, fantail darter, satinfin shiner, and walleye were not caught in 1975. Biomass caught per hour decreased from 0.08 in 1974 to 0.06 in 1975.

Seine Net

From July through September 1975, 18 hauls made at three locations took eight fishes (n = 346) (Table 20). Pumpkinseed (n = 263, 76.0%) and yellow perch (52, 15.0%) were most abundant. Carp (5.38 lbs, 46.4%) and pumpkinseed (5.35 lbs, 46.2%) comprised the greatest biomass. Most fish per haul were caught in July (38.7) and at station 2 (34.2). Overall catch and biomass per haul were 19.2 and 0.64 lbs, respectively.

Combined Methods - Upper B-G

A total of 1270 individuals (233.98 lbs) of 16 fishes was captured by experimental gill net (n = 624, 49.1%), seine net (346, 27.2%), and trap net (300, 23.6%) (Tables 14-21). Most abundant were pumpkinseed (n = 591, 46.5%), yellow perch (376, 29.6%), and brown bullhead (61, 4.8%). Carp comprised the greatest biomass (72.00 lbs, 30.8%), followed by yellow perch (61.55 lbs, 26.3%) and pumpkinseed (34.00 lbs, 14.5%).

Walleye was the only game fish collected and comprised 2.0% (26) by number and 6.8% (15.99 lbs) by weight of the total catch.

Pan fishes collected included pumpkinseed (n = 591, 46.5%), yellow perch (376, 29.6%), brown bullhead (61, 4.8%), redbreast sunfish (49, 3.9%), and rock bass (22, 1.7%). Pan fishes comprised 86.5% (1099) by number and 51.9% (121.44 lbs) by weight of the total catch.

Non-game fishes weighed 217.99 lbs, giving a non-game fish/game fish ratio (by weight) of 13.6/1.

Lower vs Upper B-G

Experimental Gill Net

From April through September 1975, 14 fishes (n = 326) and 12 fishes (624) were captured in Lower (1416.00 hours) and Upper (853.50 hours) B-G,

respectively (Table 22). White sucker (n = 76, 23.3%), golden shiner (57, 17.5%), carp (49, 15.0%), and pumpkinseed (48, 14.7%) were most abundant in Lower B-G, and yellow perch (224, 35.9%), pumpkinseed (169, 27.1%), brown bullhead (52, 8.3%), and carp (44, 7.1%) in Upper B-G. Carp comprised the greatest biomass in both Lower and Upper B-G (67.34 lbs, 42.5% and 66.62 lbs, 35.0%, respectively), followed by white sucker (39.67 lbs, 25.0%), golden shiner (10.34 lbs, 6.5%), and brown bullhead (9.49 lbs, 6.0%) in Lower B-G and yellow perch (49.85 lbs, 26.2%), pumpkinseed (16.91 lbs, 8.9%), and walleye (15.99 lbs, 8.4%) in Upper B-G.

Catch per hour was 0.23 in Lower B-G and 0.73 in Upper B-G. White sucker was the only fish captured in both reservoirs of which more were caught per hour in Lower B-G (0.05) than in Upper B-G (0.02). Chain pickerel (n = 3), largemouth bass (2), smallmouth bass (1), and creek chub (1) were collected only in Lower B-G, and redbreast sunfish (34) and northern hog sucker (2) only in Upper B-G. Biomass caught per hour was approximately twice as great in Upper B-G (0.23 lbs) as in Lower B-G (0.11 lbs).

Trap Net

From April through September 1975, 10 fishes (n = 247) and 7 fishes (300) were captured in Lower (570.50 hours) and Upper (566.00 hours) B-G, respectively (Table 23). Brown bullhead (n = 120, 48.6%), pumpkinseed (73, 29.6%), and white sucker (22, 8.9%) were most abundant in Lower B-G, and pumpkinseed (159, 53.0%), yellow perch (100, 33.3%), and redbreast sunfish (15, 5.0%) in Upper B-G. Brown bullhead (19.21 lbs, 50.9%), white sucker (9.77 lbs, 25.9%), and pumpkinseed (4.71 lbs, 12.5%) comprised the greatest biomass in Lower B-G, and pumpkinseed (11.74 lbs, 36.5%), yellow perch (11.48 lbs, 35.7%), and brown bullhead (3.55 lbs, 11.0%) in Upper B-G.

Catch per hour was 0.43 and 0.53 in Lower and Upper B-G, respectively. Catch per hour of brown bullhead and white sucker was higher in Lower B-G than in Upper B-G, while the reverse occurred for pumpkinseed, yellow perch, and redbreast sunfish. Walleye (n = 2), fallfish (1), smallmouth bass (1), stonecat (1), and sunfish spp. (1) were captured only in Lower B-G, and common shiner (1) only in Upper B-G. Biomass caught per hour was approximately equal in Lower (0.07 lbs) and Upper (0.06 lbs) B-G.

Seine Net

From June through September 1975, nine fishes (n = 196) were captured in 24 hauls in Lower B-G, and from July through September 1975, eight fishes (346) were captured in 18 hauls in Upper B-G (Table 24). Golden shiner (n = 152, 77.6%) and fallfish (23, 11.7%) were most abundant in Lower B-G, and pumpkinseed (263, 76.0%) and yellow perch (52, 15.0%) in Upper B-G. Biomass was greatest for golden shiner (1.69 lbs, 57.1%) and pumpkinseed (0.74 lbs, 25.0%) in Lower B-G and for carp (5.38 lbs, 46.4%) and pumpkinseed (5.35 lbs, 46.2%) in Upper B-G.

Catch per haul was 8.2 in Lower B-G and 19.2 in Upper B-G. Catch per haul of golden shiner and fallfish was higher in Lower B-G than in Upper B-G, while the reverse occurred for pumpkinseed, tessellated darter, and spottail shiner. White sucker (n = 3), smallmouth bass (2), largemouth bass (2), and brown bullhead (1) were captured only in Lower B-G; yellow perch (52), logperch (8), and carp (3) only in Upper B-G. Biomass per haul was 0.12 lbs in Lower B-G and 0.64 lbs in Upper B-G. The larger biomass per haul in Upper B-G is due to the relatively large biomass of carp (5.38 lbs) and pumpkinseed (5.35 lbs) captured.

Schoharie Creek - Between Schoharie Reservoir and the Walhalla Rocks Trap Net

In 623.00 hours in August 1975 at nine fish sampling pools (FSPs) (B-G spillway pool, 1, 2, 8, 9, Walhalla Rocks, 10A, 10, and 11), 10 fishes (n = 79) were captured (Table 25). Rock bass (n = 28, 35.4%), white sucker (14, 17.7%), and pumpkinseed (10, 12.7%) were most abundant. White sucker (15.65 lbs, 46.7%), rock bass (6.19 lbs, 18.5%), and walleye (3.70 lbs, 11.0%) comprised the greatest biomass. The largest catch per hour occurred at the Walhalla Rocks pool (0.25) and the lowest at FSPs 10 and 11 (0.01).

Walhalla Rocks, FSP 9, and FSP 10A were sampled in August of 1973, 1974, and 1975 (Table 26). Catch rate of fishes caught in both August 1973 and August 1975, except for northern hog sucker, was higher in 1973 than in 1975. Catch per hour decreased from 0.32 in 1973 to 0.31 in 1974 and to 0.19 in 1975. Biomass caught per hour decreased from 0.21 lbs in 1974 to 0.11 lbs in 1975.

Game fishes collected during August 1975 included walleye (n = 5, 6.3%), chain pickerel (2, 2.5%), and largemouth bass (1, 1.3%). Game fishes comprised 10.1% (8) by number and 13.3% (4.46 lbs) by weight of the total catch.

Pan fishes collected included rock bass (n = 28, 35.4%), pumpkinseed (10, 12.7%), yellow perch (7, 8.9%), and brown bullhead (5, 6.3%). Pan fishes comprised 63.3% (50) by number and 26.3% (8.81 lbs) by weight of the total catch.

Non-game fishes weighed 29.06 lbs, giving a non-game fish/game fish ratio (by weight) of 6.5/1.

Schoharie Creek - Between Schoharie Reservoir and Lower B-G vs Between Lower B-G and the Walhalla Rocks

Trap Net

Five fishes (n = 12) weighing 4.63 lbs were collected in 207.50 hours between Schoharie Reservoir and Lower B-G, and 10 fishes (67) weighing 28.89 lbs were captured in 415.50 hours between Lower B-G and the Walhalla Rocks (Table 27). White sucker (n = 4, 33.3%) was most abundant above Lower B-G, and rock bass (25, 37.3%) below. White sucker comprised the greatest biomass in both locations (3.34 lbs, 72.1% above and 12.31 lbs, 42.6% below). Catch per hour was 0.06 above Lower B-G and 0.16 below. More rock bass and pumpkinseed were caught per hour below than above Lower B-G. Yellow perch (n = 7), walleye (5), shorthead redhorse (2), chain pickerel (2), and largemouth bass (1) were caught only below Lower B-G. Biomass caught per hour was 0.02 lbs above Lower B-G and 0.07 lbs below.

Summary

Lower B-G

1. In 1975, 5770 fish were captured in Lower B-G (5001 by block net, 326 by experimental gill net, 247 by trap net, and 196 by seine net). Carp (n = 2083, 36.1%), brown bullhead (1369, 23.7%), white sucker (830, 14.4%), golden shiner (504, 8.7%), and pumpkinseed (448, 7.8%) were most abundant.

2. Catch per hour by experimental gill net was similar in 1975 (0.23) and 1974 (0.21) but lower than in 1973 (0.49). Biomass caught per hour increased from 0.07 lbs in 1974 to 0.11 lbs in 1975.

3. Catch per hour by experimental gill net for carp, brown bullhead, white sucker, and golden shiner was higher in 1975 than in 1974; only for white sucker and golden shiner was it higher in 1975 than in 1973.

4. Thirteen fishes were captured by experimental gill net in 1973 and 1974, and 14 in 1975.

5. Catch per hour by trap net was lower in 1975 (0.43) than in 1974 (0.91) and 1973 (4.05). Biomass caught per hour decreased from 0.12 lbs in 1974 to 0.07 lbs in 1975.

6. Catch per hour by trap net for yellow perch and white sucker was higher in 1975 than in 1974; only for white sucker was it higher in 1975 than in 1973.

7. Ten fishes were captured by trap net in 1973 and 1975; 13 were captured in 1974.

8. The abundance of small fish that inhabit shallow shoreline areas decreased greatly between 1973 (305.9 fish per seine haul) and 1974 (7.1 fish per seine haul) and remained about the same from 1974 to 1975 (7.9 fish per seine haul). Biomass caught per haul was approximately the same in 1974 and 1975 (0.11 lbs and 0.12 lbs, respectively).

9. Fishes captured by seine net decreased from 19 in 1973 to 12 in 1974 and to 9 in 1975. Many fishes captured in 1973 are found predominantly in lotic environments.

10. In August 1973 a block net completely blocking Mine Kill Cove captured 6.7 times more fish than in August 1975 while blocking one-half the surface area. Total biomass captured increased from 312.12 lbs in 1973 to 556.56 lbs in 1975.

11. Fishes captured by block net in August decreased from 18 in 1973 to 13 in 1975.

12. In 1975 the non-game fish/game fish ratio was 28.6/1, compared to 57.8/1 reported by DEC.

Upper B-G

13. In 1975, 1270 fish were captured in Upper B-G (624 by experimental gill net, 346 by seine net, and 300 by trap net). Pumpkinseed (n = 591, 46.5%) and yellow perch (376, 29.6%) were most abundant.

14. Fish and biomass caught per hour by experimental gill net decreased between 1974 (1.09 and 0.31 lbs, respectively) and 1975 (0.73 and 0.23 lbs, respectively).

15. Catch per hour by experimental gill net for yellow perch, pumpkinseed, golden shiner, walleye, and fallfish was higher in 1975 than in 1974. A large decrease in catch per hour from 1974 to 1975 occurred for brown bullhead (0.54 vs 0.06).

16. Fishes caught by experimental gill net decreased from 13 to 12 between 1974 and 1975.

17. Fish and biomass caught per hour by trap net decreased between 1974 (0.74 and 0.08 lbs, respectively) and 1975 (0.53 and 0.06 lbs, respectively).

18. Between 1974 and 1975 trap net catch per hour increased most for yellow perch (0.07 vs 0.18).

19. Twelve fishes were captured by trap net in 1974, compared to seven in 1975.

20. Eight fishes (n = 346) were collected by seine net in 1975. Pumpkinseed (n = 263, 76.0%) and yellow perch (52, 15.0%) were most abundant, and carp (5.38 lbs, 46.4%) and pumpkinseed (5.35 lbs, 46.2%) comprised the greatest biomass.

21. In 1975 the non-game fish/game fish ratio was 13.6/1.

Lower B-G vs Upper B-G

22. In 1975 the catch per hour was higher in Upper B-G than in Lower B-G for experimental gill net (0.73 vs 0.23) and trap net (0.53 vs 0.43). Seine net catch per haul was also higher in Upper B-G (19.2) than in Lower B-G (8.2). Biomass caught per hour by gill net was higher in Upper B-G than in Lower B-G (0.23 lbs vs 0.11 lbs) and approximately equal for trap net (0.07 lbs in Lower B-G and 0.06 lbs in Upper B-G). Biomass caught per seine haul was 0.12 lbs in Lower B-G and 0.64 lbs in Upper B-G.

23. Pumpkinseed, yellow perch, and redbreast sunfish were relatively more abundant in Upper B-G and white sucker in Lower B-G.

24. More fishes were caught in Lower B-G than in Upper B-G by experimental gill net (14 vs 12), trap net (10 vs 7), and seine net (9 vs 8).

Schoharie Creek

25. In 1975, 79 fish were captured by trap net in nine FSPs of Schoharie Creek between Schoharie Reservoir and the Walhalla Rocks. Rock bass (n = 28, 35.4%), white sucker (14, 17.7%), and pumpkinseed (10, 12.7%) were most abundant; white sucker (15.65 lbs, 46.7%) and rock bass (6.19 lbs, 18.5%) comprised the greatest biomass.

26. Trap net catch per hour at the Walhalla Rocks pool and FSPs 9 and 10A was lower in 1975 (0.19) than in 1974 (0.31) or in 1973 (0.32). Biomass caught per hour decreased from 0.21 lbs in 1974 to 0.11 lbs in 1975.

27. Fish and biomass caught per hour in Schoharie Creek below Lower B-G (0.16 and 0.07 lbs) was higher than above Lower B-G (0.06 and 0.02 lbs).

28. Rock bass and white sucker were most abundant in Schoharie Creek above and below Lower B-G.

29. In 1975 the non-game fish/game fish ratio was 6.5/1.

AGE AND GROWTH OF FISHES

Introduction

A study was conducted from April through September 1975 to determine age group composition and growth rate of game (largemouth bass, smallmouth bass, and walleye) and pan (pumpkinseed, redbreast sunfish, rock bass, and yellow perch) fishes collected in Lower and Upper B-G and the area of Schoharie Creek between the Gilboa Dam and the Breakabeen iron bridge. Data collected in 1975 are compared to data collected in 1973 and 1974.

Materials and Methods

Analysis of length-frequency distributions and scales were used to age fish (Culp 1975). Total length (nearest 1.0 mm) was measured and the data plotted in 10-mm size groups to show length-frequency distributions (Figs. 1-17).

The mean total length (nearest 1.0 mm) and mean weight (nearest 1.0 g) for each age group of fishes collected were determined monthly (Tables 28-41). Temporal and spatial differences in fish growth (length and weight) were compared using the Student t-test and were tested for significance at the 0.05 alpha level or less (Sokal and Rohlf 1969).

Results and Discussion

Lower B-G vs Upper B-G

Most pumpkinseed, yellow perch, and walleye in Lower B-G were 2+ and 3+; and most rock bass, largemouth bass, and smallmouth bass were 3+ and 4+ (Table 42). The most abundant age class in 1975 was 3+ (spawned in 1972 when B-G was full but not fluctuating). Few 0+ or 1+ fishes were captured in Lower B-G in 1975. The small size of 0+ fish precludes capture by sampling

methods used until late in the sampling season. Age 1+ fish were spawned in 1974, the first full year of pumped storage operation, which began in June 1973.

The age structure of fishes in Lower B-G, with decreasing numbers in the younger age groups, is indicative of declining fish populations (Smith 1966).

In Upper B-G pumpkinseed in age groups 1+, 2+, and 3+ were most abundant, while redbreast sunfish and walleye were dominated by 2+ and 3+ and rock bass and yellow perch by 3+. As in Lower B-G, the dominant age class of all fishes captured in Upper B-G in 1975 was 3+.

Yellow perch (1+, 2+, and 3+) were larger (length and weight) in Upper B-G than in Lower B-G, and fish in age groups 2+ and 3+ were significantly larger. Growth of pumpkinseed, rock bass, and walleye was approximately equal in Lower and Upper B-G.

1974 vs 1975 (Lower B-G)

Pumpkinseed (2+ and 3+) captured in Lower B-G in 1975 had significantly larger mean lengths and weights than the same age fish captured in 1974 (Tables 43 and 44). Yellow perch and rock bass captured in 1974 generally had larger mean lengths and weights than in 1975 (Tables 45-48).

1974 vs 1975 (Upper B-G)

Age 1+ pumpkinseed and yellow perch had significantly larger mean lengths and weights and age 2+ yellow perch had significantly larger mean weights in 1974 than in 1975 (Tables 49-52). Redbreast sunfish generally had greater mean lengths and weights in 1975 than in 1974 (Tables 53 and 54).

Schoharie Creek

Rock bass in Schoharie Creek had similar mean lengths and weights in 1974 and 1975, except 3+ rock bass collected in July, which had a significantly larger mean weight in 1975 (Table 55). Rock bass from Schoharie Creek tended to be larger than those from Lower and Upper B-G.

Summary

1. The most abundant age class of fishes in Lower and Upper B-G in 1975 was 3+, spawned in 1972 when Lower B-G was full but not fluctuating.

2. Few 1+ fish were captured in Lower B-G; 1+ fish were spawned in 1974, the first complete year of pumped storage operation.

3. The age structure of fishes in Lower and Upper B-G is indicative of declining populations.

4. Yellow perch (2+ and 3+) had significantly larger mean lengths and weights in Upper B-G than Lower B-G in 1975.

5. In Lower B-G pumpkinseed (2+ and 3+) captured in 1975 had significantly larger mean lengths and weights than in 1974.

6. In Upper B-G 1+ pumpkinseed and yellow perch had significantly larger mean lengths and weights and 2+ yellow perch had significantly larger mean weights in 1974 than in 1975.

7. Rock bass in Schoharie Creek had similar mean lengths and weights in 1974 and 1975.

8. Rock bass from Schoharie Creek tended to be larger than those from Lower and Upper B-G in 1975.

CONDITION OF FISHES

Introduction

Condition factor, "K," was determined for pan (pumpkinseed, yellow perch, rock bass, and redbreast sunfish) and game (largemouth bass, smallmouth bass, walleye, chain pickerel, brook trout, brown trout, and rainbow trout) fishes collected from April through September 1975 in Lower and Upper B-G, Schoharie Creek, and Cole Hollow Creek.

Materials and Methods

Methods of analysis were identical to those used by Culp (1975).

Statistical comparisons were made using the Student t-test; the 0.05 alpha level or less was used to establish significance (Sokal and Rohlf 1969).

Results and Discussion

B-G Reservoirs and Schoharie Creek

"K" was determined for 1773 fish; 780 were from Lower B-G, 843 from Upper B-G, and 150 from Schoharie Creek (Table 56).

Pumpkinseed

Of 901 specimens, 444 (49.3%) were from Lower B-G, 430 (47.7%) from Upper B-G, and 27 (3.0%) from Schoharie Creek. In 1975 pumpkinseed were in better condition in Lower B-G than in Upper B-G, with condition of fish in Schoharie Creek intermediate (Table 57). Between 1974 and 1975 there was no change in the condition factor of fish in Lower B-G and a large decrease in Upper B-G. The general trend in Lower B-G from 1973 to 1974 was a decrease in mean "K" and from 1974 to 1975 a slight increase (Table 58). In Upper B-G the general trend was a decrease in mean "K" from 1973 to 1975.

Yellow perch

Of 384 specimens, 55 (14.3%) were from Lower B-G, 316 (82.3%) from Upper B-G, and 13 (3.4%) from Schoharie Creek. In 1975 yellow perch in Lower and Upper B-G had similar mean "K" values, whereas in 1974 they were higher in Upper B-G (Table 59). In 1975 fish in Lower and Upper B-G were in better condition than those in Schoharie Creek. The general trend in Lower B-G was a decrease in mean "K" from 1973 to 1974 and no change from 1974 to 1975 (Table 60). In Upper B-G the general trend from 1973 to 1975 was a decrease in mean "K."

Rock bass

Of 151 specimens, 75 (49.7%) were from Lower B-G, 22 (14.6%) from Upper B-G, and 54 (35.8%) from Schoharie Creek. In 1974 rock bass had greater mean "K" values in Upper B-G than in Lower B-G, whereas in 1975 they were similar (Table 61). Fish in Schoharie Creek were in better condition than those in Lower and Upper B-G in 1975. The general trend in Lower B-G was a decrease in mean "K" from 1973 to 1974 and a slight increase from 1974 to 1975 (Table 62). In Upper B-G condition of fish remained the same from 1974 to 1975 and in Schoharie Creek from 1973 through 1975.

Redbreast sunfish

Of 57 specimens, 3 (5.3%) were from Lower B-G, 49 (86.0%) from Upper B-G, and 5 (8.7%) from Schoharie Creek. Mean "K" values in Upper B-G were significantly higher in 1974 than 1975 (Table 63).

Walleye

Of 86 specimens, 32 (37.2%) were from Lower B-G, 26 (30.2%) from Upper B-G, and 28 (32.6%) from Schoharie Creek. In 1975 fish in Upper B-G were

in better condition than those in Lower B-G; fish in Lower B-G were in better condition than those in Schoharie Creek (Table 64). The general trend in Lower B-G from 1973 to 1974 was a small decrease in mean "K" (Table 65). Lack of comparable data prohibits comparisons between 1974 and 1975 in both Lower and Upper B-G. Condition of fish in Schoharie Creek remained the same from 1973 through 1975.

Smallmouth bass

Of 165 specimens, 153 (92.7%) were from Lower B-G and 12 (7.3%) from Schoharie Creek. The general trend from 1973 to 1974 in Lower B-G was a large decrease in mean "K" and from 1974 to 1975 a small increase (Tables 66 and 67).

Largemouth bass

Of 15 specimens, 12 (80.0%) were from Lower B-G and 3 (20.0%) from Schoharie Creek. The general trend from 1973 to 1974 in Lower B-G was a large decrease in mean "K" and no change from 1974 to 1975 (Tables 68 and 69).

Chain pickerel

Of nine specimens, five (55.6%) were from Lower B-G and four (44.4%) from Schoharie Creek. No meaningful comparisons could be made because of the small number of fish collected (Tables 70 and 71).

Rainbow trout

Three rainbow trout (203 mm, 235 mm, and 378 mm) collected by creel census personnel in June in Schoharie Creek had condition factors of 1.1356, 1.1404, and 1.0276, respectively.

Brown trout

One brown trout (228 mm) with a condition factor of 0.9196 was collected by creel census personnel in June in Schoharie Creek; another (262 mm), captured by block net in August in Lower B-G, had a condition factor of 0.7135.

Cole Hollow Creek

Brook trout

Seventeen brook trout (101-200 mm) were collected in Cole Hollow Creek in June, July, and September 1975, with mean condition factors ranging from 0.8069 to 1.0173 (Table 72). As length of fish increased, condition decreased, indicating overpopulation (Bennett 1971).

Summary

1. In 1975 pumpkinseed had higher mean "K" values in Lower B-G than Upper B-G, and walleye had higher mean "K" values in Upper B-G. Mean "K" values of yellow perch and rock bass were similar in Lower and Upper B-G.

2. Rock bass and smallmouth bass captured in 1975 in Lower B-G tended to have higher mean "K" values than in 1974; pumpkinseed, yellow perch, rock bass, and largemouth bass had similar "K" values.

3. Pumpkinseed, yellow perch, and redbreast sunfish captured in 1975 in Upper B-G tended to have lower mean "K" values than in 1974; rock bass had similar "K" values.

4. Rock bass and walleye captured in Schoharie Creek tended to have similar mean "K" values in 1973, 1974, and 1975.

FOOD HABITS OF FISHES (STOMACH ANALYSIS)

Introduction

An examination of stomach contents of fishes collected from June through September 1975 was made to determine the major food items in the diets of game fishes (walleye, largemouth bass, smallmouth bass, chain pickerel, brook trout, brown trout, and rainbow trout) and pan fishes (yellow perch, rock bass, pumpkinseed, and redbreast sunfish) in Lower and Upper B-G, Schoharie Creek between Schoharie Reservoir and above Lower B-G, and Schoharie Creek and tributary (Cole Hollow Creek) between Lower B-G and the Walhalla Rocks.

Materials and Methods

Fish were collected by experimental gill net in both reservoirs, by block net and creel census personnel in Lower B-G, and by creel census personnel in Schoharie Creek and Cole Hollow Creek. Only fish that experienced net mortality or those kept by anglers were analyzed. Fish were measured (nearest 1.0 mm) and weighed (nearest 1.0 g for fish 1000 g and less and nearest 1.0 oz for fish over 1000 g) and the stomachs removed in the field. Stomachs were preserved in jars containing 10% formalin. In the laboratory stomach contents were separated according to taxa, and the major groups counted and weighed to the nearest 0.01 g. Remains of fish, crayfish, and insects and zooplankton were not counted.

Stomachs were analyzed according to fish size, because as fish mature, feeding adaptations develop and the diets become highly restricted (Lagler 1956). The following size groups were established:

Walleye	<200 or ≥ 200	(mm)
Largemouth bass	<200 or ≥ 200	(mm)
Smallmouth bass	<200 or ≥ 200	(mm)
Chain pickerel	<200 or ≥ 200	(mm)

Brook trout	<200 or ≥200	(mm)
Brown trout	<200 or ≥200	(mm)
Rainbow trout	<200 or ≥200	(mm)
Yellow perch	<150 or ≥150	(mm)
Rock bass	<150 or ≥150	(mm)
Pumpkinseed	<100 or ≥100	(mm)
Redbreast sunfish	<100 or ≥100	(mm)

Three methods of analysis were used: (1) numerical, (2) frequency of occurrence, and (3) weight (Culp 1975).

Results and Discussion

Game Fishes

Walleye

Four stomachs (all empty) from fish collected in Lower B-G, six stomachs (four empty) from fish collected in Upper B-G, and five stomachs (four empty) from fish collected in Schoharie Creek below Lower B-G were examined (Tables 73-75). Two sunfish spp. (3.05 g) were found in a 233 mm fish collected in June and four minnows (0.89 g) in a 247 mm fish collected in July in Upper B-G. Fish remains (3.97 g) were found in the walleye (390 mm) collected in June in Schoharie Creek below Lower B-G.

Largemouth bass

Six stomachs (five empty) from fish collected in Lower B-G and two stomachs (one empty) from fish collected in Schoharie Creek below Lower B-G were examined (Tables 73-75). A largemouth bass (323 mm) collected in September in Lower B-G contained a brown bullhead (20.51 g); fish remains (1.17 g) were found in a fish (295 mm) collected in June in Schoharie Creek below Lower B-G.

Smallmouth bass

Eight stomachs (four empty) from fish collected in Lower B-G, two

stomachs (one empty) from Schoharie Creek above Lower B-G, and two (zero empty) from Schoharie Creek below Lower B-G were examined (Tables 73, 75, and 76). A fish (196 mm) captured in Lower B-G in July contained remains of two crayfish (3.96 g); two fish (209 mm, 221 mm) captured in August contained one crayfish (0.22 g) and unidentifiable remains (0.26 g), respectively; and a fish (199 mm) collected in September contained fish remains (0.52 g) and one Heptageniidae mayfly nymph (0.02 g). In Schoharie Creek above Lower B-G a fish (247 mm) collected in July contained fish remains (2.41 g), and below Lower B-G two fish (285 mm, 330 mm) collected in July contained crayfish remains (0.59 g) and one darter (0.96 g). respectively.

Chain pickerel

One chain pickerel (464 mm) was collected by creel census personnel in July at the spillway pool below Lower B-G (Table 75). It contained one golden shiner (5.27 g), which appeared to have been hooked for angling.

Brook trout

Five stomachs (zero empty) were examined in June from upper Cole Hollow Creek (Table 75). Brook trout between 162 and 188 mm fed exclusively on terrestrial and aquatic insects (3.04 g) (Table 77).

Brown trout

Three stomachs (two empty) from fish in Schoharie Creek above Lower B-G were examined (Table 76). A brown trout (224 mm) collected in June contained two adult crane flies (0.02 g) and 0.31 g of unidentifiable remains.

Rainbow trout

Two stomachs (one empty) from fish in Schoharie Creek above Lower B-G were examined (Table 76). A rainbow trout (203 mm) collected in June contained unidentifiable material (0.30 g).

Pan Fishes

Yellow perch

Six stomachs (five empty) from Lower B-G and 14 stomachs (11 empty) from Upper B-G were examined (Tables 73 and 74). A yellow perch (199 mm) collected in Lower B-G in June contained copepods and cladocerans (0.02 g). Three yellow perch from Upper B-G, one collected in June (218 mm) and two in July (215 mm each), each contained fish remains (1.00 g total weight).

Rock bass

Four stomachs (zero empty) from Lower B-G and two stomachs (one empty) from Schoharie Creek above Lower B-G were examined (Tables 73 and 76). Three rock bass (162 mm, 163 mm, 200 mm) collected in Lower B-G in July all contained crayfish remains (2.85 g total weight), and one (162 mm) also contained insect remains. A fish (80 mm) collected in August contained one unidentifiable fish (0.04 g), insect remains (0.03 g), four Hydropsychidae caddis fly larvae (0.01 g), and one Heptageniidae mayfly nymph (0.01 g). A fish (183 mm) from Schoharie Creek above Lower B-G contained unidentifiable remains (0.20 g).

Pumpkinseed

Twenty-nine stomachs (14 empty) from Lower B-G, 12 (2 empty) from Upper B-G, and 2 (2 empty) from Schoharie Creek below Lower B-G were examined (Tables 73-75). Insects, water fleas, and copepods were the

predominant food item in the 12 stomachs from pumpkinseed (≥100 mm) collected in July in Lower B-G (Table 78). Three pumpkinseed (140 mm, 145 mm, 160 mm) were collected in September and contained a diptera pupa (0.01 g) and unidentifiable remains (0.01 g), fish remains (14.5 g), and insect remains (0.10 g), respectively. Three pumpkinseed (126 mm, 130 mm, 133 mm) collected in June in Upper B-G all contained insect remains (0.83 g total weight) and a beetle (0.04 g), unidentifiable remains (0.03 g), and three beetles (0.04 g), respectively. One pumpkinseed (129 mm) collected in August contained insect remains (0.15 g) and one adult Grinidae water strider (0.02 g). The predominant food in the six stomachs from pumpkinseed (<100 mm) collected in August was insects (Table 78).

Redbreast sunfish

The one stomach examined from a fish (144 mm) collected in June in Upper B-G contained insect remains (0.11 g).

Summary

1. Equal size fishes in Lower and Upper B-G and Schoharie Creek generally fed on the same food organisms.

2. Too few fish were examined to note seasonal differences in feeding behavior.

3. Larger (approximately 200 mm or greater) walleye and largemouth bass fed on fish, and smallmouth bass fed on crayfish and fish.

4. Brook trout (162-188 mm) from upper Cole Hollow Creek fed on insects.

5. Larger (>150 mm) yellow perch fed on fish in Upper B-G, and zooplankton were found in the single fish examined in Lower B-G.

6. Larger (>150 mm) rock bass fed on crayfish, and smaller fish (<150 mm) on insects.

7. Pumpkinseed (66-160 mm) and redbreast sunfish (144 mm) fed predominantly on insects.

MOVEMENT OF FISHES

Introduction

Game and pan fishes were tagged in Lower and Upper B-G from June through September 1975 to determine movement of fishes within and between reservoirs.

Materials and Methods

Game and pan fishes (≥125 mm) collected during routine fish sampling were tagged with stainless steel opercular tags (National Band and Tag Co.) and released at point of capture. Tags were 20 mm, 0.2 g, numbered, and initialed (I.A.).

Results and Discussion

From June through September 1975, 355 fish were tagged in Lower and Upper B-G (441 fish were tagged in Lower and Upper B-G and Schoharie Creek in 1974) (Table 79, Appendix 1) (Culp 1975). In 1975 pumpkinseed (n = 124, 63%), smallmouth bass (38, 19%), rock bass (13, 7%), yellow perch (13, 7%), walleye (5, 3%), largemouth bass (3, 2%), brown trout (1, 4%), and chain pickerel (1, 4%) were tagged in Lower B-G; and yellow perch (n = 85, 54%), pumpkinseed (45, 29%), redbreast sunfish (19, 12%), walleye (5, 3%), and rock bass (3, 2%) in Upper B-G.

Three fish were recaptured (Table 80). A rock bass released on 18

August 1974 in Mine Kill Cove was caught by a fisherman on 1 June 1975 at FSP 10B (Nickerson swimming hole). It had been dressed by a fisherman before the tag was noticed; consequently, length and weight at recapture were unavailable. A yellow perch released on 12 September 1974 at trap net station 1 in Upper B-G was recaptured on 11 July 1975 at gill net station 8 in Lower B-G. It had grown 1 mm and lost 14 g. A smallmouth bass captured on 17 August 1975 was recaptured 13 days later at its point of release, length and weight unchanged.

Summary

1. In 1975, 198 and 157 fish were tagged in Lower and Upper B-G, respectively.

2. Of a total 796 fish tagged (441 in 1974 and 355 in 1975), three fish (rock bass, yellow perch, and smallmouth bass) were recaptured in 1975. The rock bass and yellow perch had been released in 1974 and the smallmouth bass in 1975.

3. The rock bass had moved from Lower B-G to Schoharie Creek above Lower B-G, and the yellow perch had moved from Upper B-G to Lower B-G. The smallmouth bass was recaptured in Mine Kill Cove, where captured 13 days earlier.

ICHTHYOPLANKTON AND ZOOPLANKTON

Introduction

Weekly ichthyoplankton samples were taken in Lower and Upper B-G from 12 May through 25 August 1975; weekly zooplankton samples were taken from 23 June through 28 October 1975. These data were collected to determine zooplankton biomass and which fishes were most successful in

reproducing during operation of the pumped storage facility.

Materials and Methods

Three stations on Lower B-G and four stations on Upper B-G were sampled day and night for ichthyoplankton and at night for zooplankton (Map 6). Because of low water level in Lower B-G, the location of station 3 was changed from its original 1974 site, and station 4 was not sampled (Culp 1975). A fourth sampling site, station 8, was added on Upper B-G to provide more sampling of shallow water habitat.

Ichthyoplankton tows were made at the surface, mid-depth, and bottom; and zooplankton were sampled concurrently at the surface only.

Surface tows (1.5 m) were made at stations 3.1 m or less in depth; surface and mid-depth tows (4.6 m) were made at stations 6.1 m or less; and surface, mid-depth, and bottom tows (10.7 m) were made at stations greater than 12.2 m. Net depth was regulated by the length and angle of the tow line.

On 12 May tows were made at 1.0 m/sec; on 27 May the towing speed was reduced to 0.8 m/sec and on 2 June was further reduced to 0.6 m/sec. Tows were of 5-minute duration.

Replicate samples were taken at each site and depth using nylon (0.375 mm by 0.450 mm mesh) plankton nets with 0.5-m diameter openings. The cone-shaped nets were 1.5 m in length, tapering to a 0.08-m circular opening where samples were concentrated in 0.47-liter Nalgene bottles.

A General Oceanics Model 2031 digital flow meter was mounted across the mouth of one net to measure the quantity (m^3) of water filtered.

Samples were preserved in 5% formalin and stained with rose bengal in the field. Zooplankton samples were filtered through a U.S. Standard #230 sieve, and wet weights (nearest 0.1 g) were taken using an Ohaus triple

beam balance. Ichthyoplankton were identified to the lowest possible taxonomic category, counted, measured (total length to the nearest 0.1 mm), and identified as pro-larvae (yolk sac present), post-larvae (yolk sac absent), or juvenile (body form approximates that of the adult) (Fish 1932; Hubbs 1943; Mansueti and Hardy 1967; Lippson and Moran 1974). Sunfish spp. may include redbreast sunfish, pumpkinseed, green sunfish, and bluegill. Overlapping meristic characteristics preclude identification to species. Growth (mean weekly length) of yellow perch and sunfish spp. in 1974 and 1975 was analyzed by linear regression (Sokal and Rohlf 1969).

Results and Discussion

A total of seven taxa (n = 762) was captured in 38,690 m^3 of water filtered from 12 May through 25 August 1975 in Lower and Upper B-G (Tables 81 and 82, Appendixes 2-9). Rank by abundance was yellow perch (n = 451, 59%), sunfish spp. (214, 28%), minnow family (8, 1%), golden shiner (7, 1%), tessellated darter (3, 1%), walleye (1, 1%), and rock bass (1, 1%). Seventy-seven specimens (10%) were physically damaged, precluding identification.

The first yellow perch was taken on 19 May and the last on 7 July (98% were taken between 26 May and 30 June). The first sunfish spp. was collected on 30 June and the last on 11 August (90% were taken between 7 July and 4 August).

Lower B-G yielded 0.0020 specimens per m^3 during the day and 0.0119 at night, campared to 0.0034 during the day and 0.0533 at night in Upper B-G. The observed day-night difference in catch per unit effort has been reported by Jacobsen (1973), Harmon (1974), and Potter (1975).

Surface tows produced 0.0117 specimens per m^3 in Lower B-G; mid-depth

and bottom tows produced 0.0015 and 0.0031, respectively (Table 83). In Upper B-G surface sampling produced 0.0405 specimens per m^3, compared to 0.0119 at mid-depth and 0.0242 at the bottom. Werner (1966) reported that bluegill fry were densest in the upper 2 m of the water column. Taber (1969) recorded higher surface densities for bluegill and longear sunfish larvae up to 6.0 mm total length, whereas bottom tows yielded greater densities of larvae greater than 6.0 mm.

In Lower B-G station 1 was most productive (0.0095 specimens per m^3), followed by station 3 (0.0067) and station 2 (0.0038) (Table 84). In Upper B-G station 7 was most productive (0.1022), followed by stations 8 (0.0261), 6 (0.0208), and 5 (0.0158). Station 2 in Lower B-G is nearest the powerhouse and site 5 in Upper B-G is nearest the power tunnel outlet.

In 1975 yellow perch density was 0.0011 per m^3 in Lower B-G, compared to 0.0200 in Upper B-G (Table 85). Sunfish spp. densities were similar in both reservoirs (0.0052 in Lower B-G vs 0.0058 in Upper B-G).

Between 1974 and 1975 yellow perch densities decreased in Lower B-G (0.0020 vs 0.0011) and increased in Upper B-G (0.0030 vs 0.0200), while sunfish spp. densities increased in Lower B-G (0.0014 vs 0.0052) and decreased in Upper B-G (0.0433 vs 0.0058).

In 1975 yellow perch growth was slightly faster in Lower B-G than in Upper B-G (Fig. 18). Yellow perch growth in both reservoirs was faster in 1975 than in 1974. Growth of sunfish spp. was faster in Upper B-G than in Lower B-G during 1975 (Fig. 19). Sunfish spp. growth was faster in both reservoirs in 1974.

From 23 June through 28 October zooplankton biomass (g/m^3) ranged from 0.0268 to 0.5876 in Lower B-G and 0.0288 to 0.6100 in Upper B-G (Tables 86 and 87). Zooplankton density fluctuated more in Lower B-G (two blooms)

than in Upper B-G (one bloom) (Fig. 20). Peak density occurred earlier in Upper B-G (7 July) than in Lower B-G (15 July). Zooplankton biomass in both reservoirs stabilized in late August; thereafter, biomass was greater in Upper B-G.

Summary

1. Seven hundred sixty-two larval fish representing seven taxa were collected from 12 May through 25 August 1975 in Lower and Upper B-G.

2. Yellow perch (n = 451, 59%) and sunfish spp. (214, 28%) were most abundant.

3. Night tows yielded more specimens per m^3 than day tows.

4. Surface tows yielded more specimens per m^3 than mid-depth or bottom tows.

5. Stations 1 and 7 were the most productive sites in Lower and Upper B-G, respectively.

6. Stations 2 and 5 were least productive.

7. In 1975 greater densities of yellow perch were found in Upper B-G than in Lower B-G; sunfish spp. densities were similar in both reservoirs.

8. From 1974 to 1975 yellow perch densities decreased in Lower B-G and increased in Upper B-G; sunfish spp. densities increased in Lower B-G and decreased in Upper B-G.

9. Growth of yellow perch was faster in Lower B-G than in Upper B-G in 1975 and was faster in both reservoirs in 1975 than in 1974.

10. Growth of sunfish spp. was faster in Upper B-G than in Lower B-G in 1975 and was faster in both reservoirs in 1974 than in 1975.

11. From 23 June through 28 October zooplankton biomass (g/m^3) ranged from 0.0268 to 0.5876 in Lower B-G and 0.0288 to 0.6100 in Upper B-G.

12. Biomass fluctuated more in Lower B-G.

13. Peak biomass occurred earlier in Upper B-G.

14. Biomass was greater in Upper B-G, once biomass stabilized in both reservoirs.

CREEL CENSUS

Introduction

A creel census was conducted from 1 May through 27 September 1975 on Lower B-G, Schoharie Creek between Schoharie Reservoir and the Breakabeen iron bridge, and tributary Cole Hollow Creek (Maps 4 and 5) (Culp 1975). The objectives were (1) to determine resident (Gilboa, Blenheim, and Breakabeen, New York) and non-resident success at various locations and (2) to provide data for studies of food habits (stomach analysis), age and growth, condition, and movement of fishes.

Materials and Methods

Schoharie Creek was surveyed as follows:

Zone 1: Between Schoharie Reservoir and Lower B-G (2.0 mi);

Zone 2: Between Lower B-G and the Breakabeen iron bridge, area that would have been inundated by the Breakabeen project as proposed (4.4 mi);

Zone 3: Between Lower B-G and the Breakabeen iron bridge, area that would not have been inundated (3.6 mi).

Lower B-G, Schoharie Creek, and Cole Hollow Creek were surveyed from sunrise to sunset on one weekday and one weekend day from 1 May through 17 June and from 1 September through 27 September and on two weekdays and both weekend days from 21 June through 31 August (Lower B-G creel census ended 1 September) (Tables 88 and 89). Census days were chosen randomly. From 21 June through 18 August, Lower B-G was surveyed by one man remaining

at the boat ramp parking area, which is the primary access point, from 0800 hours to 2030 hours. Schoharie Creek, Cole Hollow Creek, and Lower B-G (except from 21 June through 18 August) were surveyed by a man who drove to all likely fishing sites.

Each fishing party encountered was interviewed (Figs. 21 and 22). Total length (nearest 1.0 mm), weight (nearest 1.0 g), and scale samples were taken from game and pan fish. Stomachs were taken from game and pan fish with the permission of the angler. Only fish observed were recorded.

Hours surveyed and hours fished were rounded to the nearest quarter hour and reported as 0.00, 0.25, 0.50, and 0.75.

Concurrent with the IA creel census on Lower B-G and Schoharie Creek, DEC conducted an instantaneous aerial count of fishermen. Persons recorded by IA as fishing or expecting to fish at the time of the DEC plane flyover were compared with the DEC aerial count.

Results and Discussion

Lower B-G

Nine fishes (n = 64) were caught and kept by 112 fishermen in 185.75 hours from 1 May through 1 September 1975 (Table 90). Brown bullhead (n = 41) were most often caught, followed by carp (8), largemouth bass (4), pumpkinseed (3), smallmouth bass (2), yellow perch (2), walleye (2), bluegill (1), and rock bass (1).

Twenty-one (18.8%) of the 112 anglers were residents.

Boat fishermen (n = 23) were fewer in number than shore fishermen (89) but fished longer (2.7 hours vs 1.4 hours) and caught fewer fish per hour (0.27 vs 0.38). Shore fishermen caught more per hour of brown bullhead, carp, pumpkinseed, and bluegill; boat fishermen caught more per hour of

largemouth bass, smallmouth bass, yellow perch, walleye, and rock bass.

Excluding September, when the survey was made only on Labor Day and 0.92 fishermen were observed per hour, most fishermen were observed in May (0.31 per hour) and the fewest in July (0.15 per hour) (Appendixes 10-14). Fishermen fished the longest in June (2.3 hours) and the least in May (0.8 hours). Fishermen were most successful in July (0.71 fish per hour) and least successful in August (0.04 fish per hour). No fish were caught in September.

Of the non-resident fishing parties, 24.4% traveled 10-25 mi to fish, 35.6% traveled 26-50 mi, 24.4% traveled 51-100 mi, and 15.6% traveled over 100 mi.

Nineteen (33.3%) fishing parties interviewed regarded fishing quality for pan fish as good, 18 (31.6%) as fair, and 14 (24.6%) as poor; 6 (10.5%) had no opinion (Table 91). Twelve (21.1%) fishing parties interviewed regarded fishing quality for game fish as good, 22 (38.6%) as fair, and 17 (29.8%) as poor; 6 (10.5%) had no opinion.

Most fishing parties interviewed fished for any species (n = 47, 82.5%), five (8.8%) fished for bass (smallmouth or largemouth, or both), two (3.5%) for brown bullhead, two (3.5%) for walleye only, and one (1.8%) for walleye and bass (Table 92).

From 15 June through 15 September 1974, 0.20 fishermen were counted per hour; and from 1 May through 1 September 1975, 0.21 fishermen were counted (Table 93). Fishermen fished longer and caught more in 1974 (2.3 hours and 0.49 fish per hour) than in 1975 (1.7 hours and 0.34 fish per hour). Brown bullhead and carp were caught most often in both years.

In August (the only month surveyed in 1973, 1974, and 1975) 0.69 fishermen were counted per hour in 1973, compared to 0.26 in 1974 and 0.22

in 1975 (Table 94). Hours fished per fisherman decreased from 1.9 in 1973 to 1.8 in 1974 and 1.6 in 1975. Catch per hour was 0.56 in 1973, 0.42 in 1974, and 0.04 in 1975. Smallmouth bass (n = 25, 34.7%) were most often caught in 1973, brown bullhead (12, 63.2%) in 1974, and carp (2, 66.7%) in 1975.

DEC's aerial count of fishermen on Lower B-G was similar but not always equal to IA's ground count (Table 95). Some discrepancy may result from fishermen quitting before or fishing longer than the time they "expected to fish beyond time already fished." Also, plane counts may include persons engaged in non-fishing activity.

Schoharie Creek

Fifteen fishes (n = 164) were caught and kept by 599 fishermen in 639.75 hours from 1 May through 27 September 1975 (Table 96). Rock bass (31, 18.9%) were most often caught, followed by walleye (25, 15.2%) and carp (23, 14.0%).

Sixty (10.0%) of the 599 anglers were residents.

The fewest fishermen were observed in zone 2 (0.14 per hour), compared to 0.33 per hour in zones 1 and 3. Catch per hour varied from 0.31 in zone 3 to 0.17 in zone 2.

Rock bass (n = 22, 33.8%) and pumpkinseed (15, 23.1%) were most often caught in zone 1, smallmouth bass (6, 33.3%) and rock bass (5, 27.8%) in zone 2, and walleye (24, 29.6%) and carp (15, 18.5%) in zone 3.

Most fishermen were observed in 1975 (0.81 per hour) and 1973 (0.80 per hour) and the fewest in 1974 (0.34 per hour) (Table 97). Fishermen fished the longest in 1974 (1.5 hours) and the least in 1975 (1.1 hours). Catch per hour was 0.79 in 1973, 0.81 in 1974, and 0.26 in 1975.

Rock bass (n = 65, 28.6%) and smallmouth bass (62, 27.3%) were most often caught in 1973, brown bullhead (50, 44.2%) and pumpkinseed (14, 12.4%) in 1974, and rock bass (31, 18.9%) and walleye (25, 15.2%) in 1975.

DEC's aerial count of fishermen on Schoharie Creek was similar but not always equal to IA's ground count (Table 98). Some discrepancy may result from fishermen quitting before or fishing longer than the time they "expected to fish beyond time already fished." Also, plane counts may include persons engaged in non-fishing activity.

Zone 1 (Schoharie Creek between Schoharie Reservoir and Lower B-G)

Nine fishes (n = 65) were caught and kept by 247 fishermen in 270.25 hours from 1 May through 27 September 1975 (Table 99). Most often caught were rock bass (22), followed by pumpkinseed (15), brown bullhead (6), carp (5), redbreast sunfish (4), smallmouth bass (4), rainbow trout (4), brown trout (3), and fallfish (2).

Twenty-three (9.3%) of the 247 anglers were residents.

In 1975, 0.33 fishermen were observed per hour, compared to 0.17 in 1974 and 0.39 in 1973. Fishermen fished 1.1 hours per trip in 1973 and 1975, compared to 1.7 hours per trip in 1974.

Catch per hour was lower in 1975 (0.24) than in 1974 (0.96) and 1973 (0.93). Rock bass (n = 22, 33.8%) and pumpkinseed (15, 23.1%) were most often caught in 1975; brown bullhead (50, 64.1%) in 1974; and pumpkinseed (37, 31.1%), rock bass (34, 28.6%), and smallmouth bass (26, 21.9%) in 1973.

During the 1975 fishing season, the Gilboa iron bridge (FSP 11) was rebuilt, and construction activity restricted fisherman use.

Of the non-resident fishing parties interviewed in 1975, 13.1% traveled 10-25 mi to fish, 27.3% traveled 26-50 mi, 29.3% traveled 51-100

mi, and 30.3% traveled over 100 mi.

Forty-two (35.3%) fishing parties interviewed regarded fishing quality for pan fish as good, 29 (24.4%) as fair, and 29 (24.4%) as poor; 19 (16.0%) had no opinion (Table 100). Thirty-three (27.7%) fishing parties interviewed regarded fishing quality for game fish as good, 29 (24.4%) as fair, and 37 (31.1%) as poor; 20 (16.8%) had no opinion. A higher percentage of resident than non-resident fishermen rated the fishing for both pan and game fish as good.

Most fishing parties interviewed fished for any species (n = 84, 70.6%), 11 (9.2%) fished for bass (smallmouth or largemouth, or both), 7 (5.9%) for walleye, 7 (5.9%) for trout, 3 (2.5%) for walleye and bass, 3 (2.5%) for bass and trout, 2 (1.7%) for carp, 1 (0.8%) for walleye and trout, and 1 (0.8%) for rock bass (Table 101).

Most fishermen were observed in August (0.49 per hour) and the fewest in September (0.13 per hour) (Appendix 15). Fishermen fished the longest in July (1.3 hours) and the least in September (0.3 hours). The greatest catch per hour was in May (0.36) and June (0.35) and the least in September (0.00).

Zone 2 (Schoharie Creek between Lower B-G and the Breakabeen iron bridge, area that would have been inundated by the Breakabeen project as proposed)

Six fishes (n = 18) were caught and kept by 106 fishermen in 104.00 hours from 1 May through 27 September 1975 (Table 102). Rank by abundance was smallmouth bass (6), rock bass (5), carp (3), fallfish (2), walleye (1), and yellow perch (1).

Twenty-two (20.8%) of the 106 anglers were residents.

In 1975, 0.14 fishermen were counted per hour, compared to 0.02 in

1974 and 0.30 in 1973. Fishermen fished 1.0 hours per trip in 1975, compared to 1.2 hours in 1974 and 1.1 hours in 1973.

Catch per hour was lower in 1975 (0.17) than in 1974 (0.43) and 1973 (0.85). Smallmouth bass (n = 6, 33.3%) and rock bass (5, 27.8%) were most often caught in 1975, carp (3, 100%) in 1974, and rock bass (30, 32.6%) and smallmouth bass (27, 29.3%) in 1973.

Of the non-resident fishing parties interviewed in 1975, 38.9% traveled 10-26 mi to fish, 22.2% traveled 26-50 mi, 11.1% traveled 51-100 mi, and 27.8% traveled over 100 mi.

Fifteen (33.3%) fishing parties interviewed regarded fishing quality for pan fish as good, 8 (17.8%) as fair, and 14 (31.1%) as poor; 8 (17.8%) had no opinion (Table 100). Thirteen (28.9%) fishing parties interviewed regarded fishing quality for game fish as good, 8 (17.8%) as fair, and 16 (35.6%) as poor; 8 (17.8%) had no opinion.

Most fishing parties interviewed fished for any species (n = 33, 73.3%), 5 (11.1%) fished for bass (smallmouth or largemouth, or both), 3 (6.7%) for walleye, 2 (4.4%) for walleye and bass, 1 (2.2%) for brown bullhead, and 1 (2.2%) for trout (Table 101).

Most fishermen were observed in August (0.21 per hour) and the fewest in June (0.06) (Appendix 16). Fishermen fished the longest in June (1.3 hours) and the least in May (0.7 hours). The greatest catch per hour was in July (0.38); no fish were caught in May and September.

Zone 3 (Schoharie Creek between Lower B-G and the Breakabeen iron bridge, area that would not have been inundated by the Breakabeen project as proposed)

Fourteen fishes (n = 81) were caught and kept by 246 fishermen in 265.50 hours from 1 May through 27 September 1975 (Table 103). Rank by

abundance was walleye (24), carp (15), yellow perch (10), brown bullhead (6), rock bass (4), pumpkinseed (4), smallmouth bass (4), redbreast sunfish (3), white sucker (2), fallfish (2), largemouth bass (2), chain pickerel (2), shorthead redhorse (2), and rainbow trout (1).

Fifteen (6.1%) of the 246 anglers were residents.

In 1975, 0.33 fishermen were counted per hour, compared to 0.15 in 1974 and 0.11 in 1973. Fishermen fished 1.1 hours per trip in 1975, compared to 1.2 hours in 1974 and 1.5 hours in 1973.

Catch per hour was lower in 1975 (0.31) than in 1974 (0.63) and 1973 (0.34). Walleye (n = 24, 29.6%) and carp (15, 18.5%) were most often caught in 1975; pumpkinseed (7, 21.9%) and walleye, yellow perch, and rock bass (6 each, 18.8% each) in 1974; and smallmouth bass (9, 52.9%) in 1973.

Of the non-resident fishing parties interviewed in 1975, 27.1% traveled 10-26 mi to fish, 31.3% traveled 26-50 mi, 17.7% traveled 51-100 mi, and 24.0% traveled over 100 mi.

Thirty-three (30.8%) fishing parties interviewed regarded fishing quality for pan fish as good, 32 (29.9%) as fair, and 26 (24.3%) as poor; 16 (15.0%) had no opinion (Table 100). Thirty-two (29.9%) fishing parties interviewed regarded fishing quality for game fish as good, 33 (30.8%) as fair, and 26 (24.3%) as poor; 16 (15.0%) had no opinion.

Most fishing parties interviewed fished for any species (n = 65, 60.7%), 17 (15.9%) fished for walleye, 13 (12.1%) for bass (smallmouth or largemouth, or both), 5 (4.7%) for trout, 3 (2.8%) for walleye and bass, 1 (0.9%) for bass and trout, 1 (0.9%) for walleye and trout, 1 (0.9%) for chain pickerel, and 1 (0.9%) for suckers (Table 101).

Most fishermen were observed in September (0.49 per hour) and the fewest in May (0.06) (Appendix 17). Fishermen fished the longest in June

(1.5 hours) and the least in May (0.3 hours). The greatest catch per hour was in May (1.00) and the least in September (0.12).

Cole Hollow Creek

Forty-one brook trout were caught (1.49 per hour) and kept by 21 fishermen in 27.5 hours (Table 104).

Two (9.5%) of the 21 anglers were residents.

Most fishermen were observed in June (n = 12, 0.08 per hour) and the fewest in May (0, 0.00). Fishermen fished the longest in June (1.8 hours) and the least in August (0.2 hours). The greatest catch per hour was in September (4.00) and the least in August (0.00).

Eighteen brook trout and two rainbow trout were reported by fishermen as caught and released.

Summary

Lower B-G

1. Nine fishes (n = 64) were caught and kept by 112 fishermen in 185.75 hours from 1 May through 1 September 1975 in Lower B-G.

2. Brown bullhead (n = 41, 64.1%) were caught most often, followed by carp (8, 12.5%) and largemouth bass (4, 6.3%).

3. Twenty-one (18.8%) of the 112 anglers were residents.

4. Boat fishermen in comparison to shore fishermen fished longer (2.7 hours vs 1.4 hours) but caught fewer fish per hour (0.27 vs 0.38).

5. Most fishermen were observed in May (0.31 per hour) (excluding September, when the survey was conducted only on Labor Day and 0.92 fishermen were observed per hour), fished the longest in June (2.3 hours per trip), and caught the most fish in July (0.71 per hour).

6. Of the non-resident fishing parties, 15.6% traveled over 100 mi.

7. Nineteen (33.3%) of the fishing parties interviewed regarded fishing quality for pan fish as good; twelve (21.1%) rated fishing quality for game fish as good.

8. Most (82.5%) fishing parties interviewed fished for any species; 8.8% fished for bass (smallmouth or largemouth, or both).

9. During 1 May through 1 September 1975, 0.21 fishermen were counted per hour, compared to 0.20 during 15 June through 15 September 1974.

10. Catch per hour was lower in 1975 (0.34) than in 1974 (0.49). Brown bullhead and carp were most abundant in both years.

11. In August 0.69 fishermen were observed per hour in 1973, compared to 0.26 in 1974 and 0.22 in 1975.

12. Catch per hour was 0.56 in 1973, 0.42 in 1974, and 0.04 in 1975. Smallmouth bass (n = 25, 34.7%) were most abundant in 1973, brown bullhead (12, 63.2%) in 1974, and carp (2, 66.7%) in 1975.

13. DEC's aerial count of fishermen on Lower B-G was similar but not always equal to IA's ground count.

Schoharie Creek

14. Fifteen fishes (n = 164) were caught and kept by 599 fishermen in 639.75 hours from 1 May through 27 September 1975 in Schoharie Creek.

15. Rock bass (n = 31, 18.9%) were most often caught, followed by walleye (25, 15.2%) and carp (23, 14.0%).

16. Sixty (10.0%) of the 599 anglers were residents.

17. The fewest fishermen were observed in zone 2 (0.14 per hour) and

the most in zones 1 and 3 (0.33 per hour). The greatest catch per hour was in zone 3 (0.31) and the least in zone 2 (0.17).

18. The most fishermen were observed per hour in 1973 (0.80) and 1975 (0.81) and the least in 1974 (0.34). Catch per hour was 0.79 in 1973, 0.81 in 1974, and 0.26 in 1975.

19. DEC's aerial count of fishermen on Schoharie Creek was similar but not always equal to IA's ground count.

Schoharie Creek (Zone 1)

20. Nine fishes (n = 65) were caught and kept by 247 fishermen in 270.25 hours in zone 1. Rock bass (n = 22, 33.8%) and pumpkinseed (15, 23.1%) were most abundant.

21. Of the non-resident fishing parties, 30.3% traveled over 100 mi.

22. Forty-two (35.3%) of the fishing parties interviewed regarded fishing quality for pan fish as good; 33 (27.7%) rated fishing quality for game fish as good.

23. Most (70.6%) fishing parties interviewed fished for any species; 9.2% fished for bass (smallmouth or largemouth, or both).

24. In 1975, 0.33 fishermen were counted per hour, compared to 0.17 in 1974 and 0.39 in 1973. Catch per hour was lower in 1975 (0.24) than in 1974 (0.96) and 1973 (0.93).

Schoharie Creek (Zone 2)

25. Six fishes (n = 18) were caught and kept by 106 fishermen in 104.00 hours in zone 2. Smallmouth bass (n = 6, 33.3%) and rock bass (5, 27.8%) were most abundant.

26. Of the non-resident fishing parties, 27.8% traveled over 100 mi.

27. Fifteen (33.3%) of the fishing parties interviewed regarded fishing quality for pan fish as good; 13 (28.9%) rated fishing quality for game fish as good.

28. Most (73.3%) fishing parties interviewed fished for any species; 11.1% fished for bass (smallmouth or largemouth, or both).

29. In 1975, 0.14 fishermen were observed per hour, compared to 0.02 in 1974 and 0.30 in 1973. Catch per hour was lower in 1975 (0.17) than in 1974 (0.43) and 1973 (0.85).

Schoharie Creek (Zone 3)

30. Fourteen fishes (n = 81) were caught and kept by 246 fishermen in 265.50 hours in zone 3. Walleye (n = 24, 29.6%) and carp (15, 18.5%) were most abundant.

31. Of the non-resident fishing parties, 24.0% traveled over 100 mi.

32. Thirty-three (30.8%) of the fishing parties interviewed regarded fishing quality for pan fish as good; 32 (29.9%) rated fishing quality for game fish as good.

33. Most (60.7%) fishing parties interviewed fished for any species; 15.9% fished for walleye.

34. In 1975, 0.33 fishermen were observed per hour, compared to 0.15 in 1974 and 0.11 in 1973. Catch per hour was lower in 1975 (0.31) than in 1974 (0.63) and 1973 (0.34).

Cole Hollow Creek

35. Forty-one brook trout were caught (1.49 per hour) and kept by 21 fishermen in 27.5 hours in Cole Hollow Creek.

36. Two (9.5%) of the 21 anglers were residents.

37. Most fishermen were observed (n = 12, 0.08 per hour) and fished

the longest (1.8 hours) in June and caught the most per hour in September (4.00).

STREAM BENTHOS

Introduction

Stream benthos were surveyed monthly in Schoharie Creek and Cole Hollow Creek from June through September 1975.

The variety and abundance (number and biomass) were determined to (1) measure the capacity of these habitats to support higher forms of aquatic life (i.e., fishes); (2) compare with data collected in 1973 and 1974 to determine yearly variations; and (3) determine the effects of variation in water flow directly below Lower B-G (spillway pool).

Materials and Methods

Ten samples were taken per month at each of 12 stations in two zones of Schoharie Creek and at each of four stations in two zones of Cole Hollow Creek. Stations and zones sampled and methods of collection were identical to those used in 1974 (Table 105, Maps 7-9) (Culp 1975).

Results and Discussion

Schoharie Creek

A total of 480 samples yielded 12,975 organisms with a biomass of 97.46 g (Table 106). Eighteen taxa and 37 families of aquatic insects were identified.

Mayflies (n = 6015, 46.4%), dipterans (2902, 22.4%), and caddis flies (2156, 16.6%) were most abundant (Table 107). Dipterans (n = 2205, 40.0%), mayflies (1389, 25.2%), and caddis flies (1181, 21.4%) were most abundant in zone 1; and mayflies (4626, 62.0%), caddis flies, (975, 13.1%), and

dipterans (697, 9.3%) in zone 2. Mayflies, dipterans, caddis flies, beetles, and leeches were found at all stations in zones 1 and 2; and worms, scuds, sow bugs, hellgrammites, and fish were found at all stations in zone 1.

The mean number of organisms per sample was over twice as large in zone 1 (n = 47) as in zone 2 (21), primarily because of the abundance of chironomids in zone 1 (Table 108). Samples taken in zone 1 contained an average of five insect families and five taxa, compared to five insect families and four taxa in zone 2. The mean biomass was approximately equal in zone 1 (0.19 g) and zone 2 (0.21 g). Station 4 (directly below Lower B-G spillway) had the lowest mean numbers of organisms, insect families, taxa, and biomass collected of all stations. Since flow into Lower B-G changes rapidly and the B-G Pumped Storage Project is operated so that the discharge rate from Lower B-G is generally equal (except for seepage and evaporation loss) to the rate of inflow, flows at station 4 can vary as much as 9999 cfs in one hour (Table 109). Extreme variations in stream flow limit benthic abundance and diversity (Culp 1975).

Mayflies, caddis flies, and dipterans were most abundant and were found at all stations during each month sampled (Appendixes 18-25). Dipterans were most abundant in July and mayflies in other months sampled. The mean number of organisms per sample ranged from 9 in June to 37 in September and of insect families from 4 in June to 6 in August; mean biomass ranged from 0.15 g in June and August to 0.28 in September (Appendixes 26-29). Mean number of taxa collected was 4 in each month sampled.

Caddis flies were the most abundant taxa collected in 1973 and mayflies in 1974 and 1975 (Culp 1974, 1975). Mean number of organisms collected per sample varied from 75 in 1973 to 19 in 1974 and 27 in 1975 (Table 110).

The mean number of taxa collected per sample was 4 in 1973 and 1975 and 3 in 1974. The mean numbers of organisms and of taxa collected per sample in zone 1 were greatest in 1975 (47 and 5, respectively) and least in 1974 (21 and 3, respectively). The mean number of organisms collected per sample in zone 2 was greatest in 1973 (92) and approximately equal in 1974 (19) and 1975 (21). The mean number of taxa collected per sample in zone 2 was 4 in 1973 and 1975 and 3 in 1974. Station 4 had the lowest mean number of organisms and of taxa collected per sample of all stations sampled in 1973, 1974, and 1975.

Cole Hollow Creek

A total of 160 samples yielded 3729 organisms with a biomass of 70.42 g (Table 111). Fourteen taxa and 33 families of aquatic insects were identified.

Mayflies (n = 1053, 28.2%), caddis flies (1020, 27.4%), dipterans (922, 24.7%), and stoneflies (486, 13.0%) were most abundant (Table 112). Mayflies (n = 465, 40.7%), caddis flies (219, 19.2%), and stoneflies (202, 17.7%) were most abundant in zone 1; and caddis flies (801, 31.0%), dipterans (795, 30.7%), and mayflies (588, 22.7%) in zone 2. Mayflies, caddis flies, dipterans, stoneflies, beetles, and worms occurred at all stations. Crayfish, dragonflies, and hellgrammites were found at both stations in zone 1; and snails, clams, and leeches at both stations in zone 2.

The mean numbers of organisms, of insect families, and of taxa collected per sample were greater in zone 2 (37, 7, and 5, respectively) than in zone 1 (14, 6, and 4, respectively) (Table 113). Mean biomass collected per sample was slightly larger in zone 1 (0.48 g) than in zone 2

(0.46 g).

Mayflies, caddis flies, dipterans, and stoneflies were most abundant and were found at all stations during each month sampled (Appendixes 30-37). Mean numbers of organisms collecter per sample were greatest in September (39), of taxa in August and September (5), of insect families in August and September (7), and biomass in July (0.70 g) (Appendixes 38-41).

Rank by abundance in 1973 and 1974 was mayflies, caddis flies, and stoneflies (Culp 1974, 1975). In 1975 mayflies and caddis flies were again most abundant, but dipterans were more abundant than stoneflies. The mean numbers of organisms and taxa and mean biomass collected per sample in 1975 (25, 4, and 0.47 g, respectively) were similar to those collected in 1974 (24, 4, and 0.41 g, respectively) (Table 114).

In zone 1 the mean number of organisms collected per sample was greater, of taxa equal, and biomass less in 1974 (22, 4, and 0.47 g, respectively) than in 1975 (14, 4, and 0.48, respectively). Mean numbers of organisms and of taxa and mean biomass collected per sample in zone 2 were greater in 1975 (37, 5, and 0.46, respectively) than in 1974 (26, 4, and 0.34 g, respectively).

Summary

Schoharie Creek

1. A total of 480 samples yielded 12,975 organisms with a biomass of 97.46 g. Eighteen taxa and 37 insect families were identified.

2. Mayflies (n = 6015, 46.4%), dipterans (2902, 22.4%), and caddis flies (2156, 16.6%) were present in the greatest numbers.

3. Dipterans were most abundant in zone 1 and mayflies in zone 2.

4. Mayflies, dipterans, caddis flies, beetles, and leeches were found at all stations. Worms, scuds, sow bugs, hellgrammites, and fish

were found at all stations in zone 1.

5. The mean number of insect families and biomass per sample were similar in zones 1 and 2, while the mean numbers of taxa and of organisms collected were greater in zone 1.

6. Because of extreme variation in stream flow at station 4, the abundance (number and biomass) and variety (number of taxa and insect families) of benthic organisms were lowest of all stations sampled.

7. Mean number of organisms and biomass collected per sample were greatest in September; mean number of insect families was greatest in August. Mean number of taxa collected per sample was equal during all months sampled.

8. Caddis flies were the most abundant taxa collected in 1973; mayflies were most abundant in 1974 and 1975.

9. Mean number of organisms per sample was greatest in 1973 and least in 1974; the mean number of taxa per sample was equal in 1973 and 1975 and greater than in 1974.

10. Station 4 was the least productive (lowest abundance and variety of benthic organisms) station sampled in 1973, 1974, and 1975.

Cole Hollow Creek

11. A total of 160 samples yielded 3729 organisms with a biomass of 70.42 g. Fourteen taxa and 33 insect families were identified.

12. Mayflies (n = 1053, 28.2%), caddis flies (1020, 27.4%), dipterans (922, 24.7%), and stoneflies (486, 13.0%) were most abundant.

13. Mayflies were most abundant in zone 1 and caddis flies in zone 2.

14. Mayflies, caddis flies, dipterans, stoneflies, beetles, and worms were found at all stations. Crayfish, dragonflies, and hellgrammites were found at both stations in zone 1; and snails, clams, and leeches at both

stations in zone 2.

15. Mean numbers of organisms, of insect families, and of taxa per sample were greater in zone 2 than in zone 1; mean biomass per sample was approximately equal.

16. Mayflies, caddis flies, dipterans, and stoneflies were most abundant and were found at all stations during each month sampled.

17. Mayflies, followed by caddis flies, were the most abundant taxa collected in 1973, 1974, and 1975. Stoneflies were third most abundant in 1973 and 1974 and dipterans in 1975.

18. The mean numbers of organisms and of taxa and biomass per sample were similar in 1974 and 1975.

WATER QUALITY

Introduction

Water quality parameters important to aquatic life were measured at 12 stations on Schoharie Creek and tributaries, 3 sites on Lower B-G, and 2 sites on Upper B-G from 31 October 1974 through 23 December 1975 (Maps 10-12) (Culp 1975). A third station (18) was added on Upper B-G on 24 April (Table 115).

Materials and Methods

Turbidity, air temperature, water temperature, dissolved oxygen, and Secchi disc transparency were measured semimonthly from 31 October 1974 through 24 April 1975 and from 11 November through 23 December 1975 and weekly from 1 May through 29 October 1975 (Table 116). Alkalinity, total hardness, calcium hardness, carbon dioxide, and pH were determined semimonthly from 31 October 1974 through 10 March 1975 and monthly thereafter.

On the reservoirs water temperature and dissolved oxygen were recorded at 2-m intervals. Alkalinity, total hardness, calcium hardness, carbon dioxide, and pH were measured at the surface, mid-depth, and bottom. Turbidity was measured at the surface.

Stream samples were taken in flowing water at a depth of 15 cm, 1 m from the stream bank.

To provide sedimentation information, 0.47-liter water samples were taken at stations 1, 2, 4, 5, 6, 8, 10, 11, 12, 14, and 16 following rainfall in excess of 2.51 cm (0.99 inch) in a 24-hour period.

Monthly fluctuation data for Lower and Upper B-G were provided by Mr. J. M. Collyer, Resident Manager of the B-G Pumped Storage Project.

Results and Discussion

Schoharie Creek and Tributaries

Turbidity in Schoharie Creek ranged from 0 to 133 formazin turbidity units (FTU) and from 0.81 to 75 nephelometer turbidity units (NTU) (Table 117). From 31 October 1974 through 28 May 1975, turbidity (FTU) was greatest at station 2 ($\bar{x}$ = 27, 2-133) and lowest at station 9 ($\bar{x}$ = 17, 1-70). From 5 June through 25 November 1975, turbidity (NTU) was greatest at station 6 ($\bar{x}$ = 9.2, 2.2-67) and lowest at station 2 ($\bar{x}$ = 3.2, 0.81-17). Turbidity at station 2 depended upon flow over the Gilboa Dam, which ceased on 10 June 1975.

Turbidity in tributaries ranged from 0 to 25 FTU and from 0.33 to 120 NTU and was generally less than that in Schoharie Creek. From 31 October 1974 through 28 May 1975, average turbidity (FTU) was similar at all tributaries. From 5 June through 25 November 1975, turbidity (NTU) was lowest at station 11 ($\bar{x}$ = 3.0, 0.33-22) and highest at station 10 ($\bar{x}$ = 8.6,

0.50-120). High mean turbidity at station 10 reflects a high reading on 12 June.

Excluding station 2, alkalinity, total hardness, and calcium hardness concentrations were similar among stations, with maximum values of 70, 75, and 65 mg/l, respectively (Tables 118-120). Higher concentrations at station 2 (maximum 145, 130, and 100 mg/l, respectively) occurred when flow over Gilboa Dam ceased and the water in the pool became stagnant. Carbon dioxide concentration was 2 mg/l at all stations except at station 2 (31 October 1974) and at station 8 (11 September 1975), when carbon dioxide concentration was 8 and 4 mg/l, respectively (Table 121).

The pH ranged from 7.0 to 8.8, indicating neutral to slightly alkaline conditions (Table 122).

Air temperature, which reflects weather conditions and time of sampling, ranged from -13 to 33 C (Table 123). Water temperature fluctuated little among the Schoharie Creek sites and varied seasonally (Table 124). Water temperature in tributaries was generally lowest at station 12 and highest at station 11, and was colder than in Schoharie Creek during the warmer months sampled (June through September).

Dissolved oxygen concentration was similar among stations and varied with water temperature (Table 125).

Lower and Upper B-G

From 24 April through 28 May 1975, turbidity varied from 0 to 28 FTU and from 5 June through 9 December 1975, from 1.2 to 12 NTU (Table 117). Turbidity was generally higher in Lower B-G. Secchi disc readings varied seasonally from 8 to 144 inches and were generally lower (greater turbidity) in Lower B-G (Table 126). Secchi disc readings were higher in 1975 than

in 1974 at stations 13 through 17 from mid-June through early August and similar during the rest of the season (Figs. 23-27). Secchi disc readings were lower in 1973 than in 1974 or 1975 at stations 13 and 16.

Alkalinity (range = 10-50 mg/l), total hardness (15-55 mg/l), calcium hardness (10-40 mg/l), carbon dioxide (2-4 mg/l), and pH (6.8-9.3) fluctuated little among stations and depths (Tables 127-131).

Air temperature, depending upon time of sampling, seasonal weather patterns, and elevation, ranged from -7 to 33 C (Table 123). Water temperature in both reservoirs was similar among stations and depths during most of the season (Table 132). During the summer, water temperature was slightly (approximately 1 C) colder in Upper B-G than in Lower B-G, where a maximum surface temperature of 25.2 C was recorded on 17 July at station 13. A thermocline had formed by 3 July at station 15 and by 10 July at stations 13, 16, and 17. Station 14 (located directly in front of the powerhouse) and station 18 (the shallowest site) never developed thermoclines.

Dissolved oxygen concentration was similar among stations and generally decreased with depth, except at station 14, where dissolved oxygen was homogeneous from surface to bottom (Table 133). Oxygen depletion (<3 ppm) occurred at the bottom at stations 13, 15, 16, and 17 in July and at stations 13 and 16 in August.

The monthly average daily fluctuation in water level ranged from 11.55 to 18.02 ft in Lower B-G and from 9.35 to 13.72 ft in Upper B-G (Table 134). The weekly fluctuation ranged from 18.1 (23-29 March 1975) to 39.8 (10-16 August 1975) ft in Lower B-G and from 15.2 (20-26 October 1974) to 38.1 (10-16 August 1975) ft in Upper B-G (Table 135, Fig. 28). Daily and weekly fluctuations were highest in May through August 1975; in October through December 1975 fluctuations were greater than in the same months

in 1974.

Beginning 13 June, Schoharie Creek, tributaries, and both reservoirs were sampled five times following rainfall in excess of 0.99 inch in a 24-hour period to measure suspended solids (Table 136).

Summary

Schoharie Creek and Tributaries

1. Turbidity in Schoharie Creek ranged from 0 to 133 FTU and from 0.81 to 75 NTU.

2. Turbidity was highest at station 2 until water ceased flowing over the Gilboa Dam (10 June), after which time station 2 had the lowest turbidity.

3. Turbidity in tributaries ranged from 0 to 25 FTU and from 0.33 to 120 NTU and was generally less than that in Schoharie Creek.

4. Because of stagnant conditions at station 2, alkalinity, total hardness, and calcium hardness (maximum values 145, 130, and 100 mg/l, respectively) were higher than at other stations sampled.

5. Carbon dioxide concentration was 2 mg/l at all stations and on all dates sampled, except at station 2 on 31 October 1974 and at station 8 on 11 September 1975, when values of 8 and 4 mg/l, respectively, were recorded.

6. The pH ranged from 7.0 to 8.8.

7. Water temperature in Schoharie Creek was similar among stations and was generally higher during the summer than that in tributaries.

8. During the summer, station 12 was the coldest tributary sampled and station 11 the warmest.

9. Dissolved oxygen was similar among stations and varied with water temperature.

Lower and Upper B-G

10. Turbidity ranged from 0 to 28 FTU and from 1.2 to 12 NTU and was generally higher in Lower B-G.

11. Secchi disc readings varied seasonally from 8 to 144 inches and were generally lower (greater turbidity) in Lower B-G.

12. Alkalinity, total hardness, calcium hardness, carbon dioxide, and pH fluctuated little among stations and depths.

13. Summer water temperature was slightly colder in Upper B-G than in Lower B-G, where a maximum surface temperature of 25.2 C was recorded on 17 July at station 13.

14. Thermal stratification occurred at all stations except 14 in Lower B-G and 18 in Upper B-G. Station 14 is located directly in front of the generating plant, and 18 is the shallowest.

15. Dissolved oxygen concentration was uniform from the surface to bottom at station 14 and generally decreased with depth at other stations.

16. Oxygen depletion (<3 ppm) occurred near the bottom at stations 13, 15, 16, and 17 during July and at stations 13 and 16 during August.

17. Average daily fluctuation per month and weekly fluctuation in water level were greater in Lower B-G than in Upper B-G.

18. Fluctuations were highest in May through August 1975; in October through December 1975 fluctuations were greater than in the same months in 1974.

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Table 1. Common and scientific names of fishes collected by Ichthyological Associates, Inc., from 1973 through 1975. Nomenclature follows Bailey (1970).

Common Name	Scientific Name	Angler Classification*
Catfishes - Ictaluridae		
Brown bullhead	Ictalurus nebulosus	P
Stonecat	Noturus flavus	R
Minnows - Cyprinidae		
Blacknose dace	Rhinichthys atratulus	R
Bluntnose minnow	Pimephales notatus	R
Carp	Cyprinus carpio	R
Common shiner	Notropis cornutus	R
Creek chub	Semotilus atromaculatus	R
Cutlips minnow	Exoglossum maxillingua	R
Fallfish	Semotilus corporalis	R
Golden shiner	Notemigonus crysoleucas	R
Longnose dace	Rhinichthys cataractae	R
Redside dace	Clinostomus elongatus	R
Rosyface shiner	Notropis rubellus	R
Satinfin shiner	Notropis analostanus	R
Spottail shiner	Notropis hudsonius	R
Stoneroller	Campostoma anomalum	R
Perches - Percidae		
Fantail darter	Etheostoma flabellare	R
Greenside darter	Etheostoma blennioides	R
Logperch	Percina caprodes	R
Tessellated darter	Etheostoma olmatedi	R
Walleye	Stizostedion vitreum vitreum	G
Yellow perch	Perca flavescens	P
Pikes - Esocidae		
Chain pickerel	Esox niger	G
Sculpins - Cottidae		
Slimy sculpin	Cottus cognatus	R
Suckers - Catostomidae		
Northern hog sucker	Hypentelium nigricans	R
Shorthead redhorse	Moxostoma macrolepidotum	R
White sucker	Catostomus commersoni	R
Sunfishes - Centrarchidae		
Bluegill	Lepomis macrochirus	P
Green sunfish	Lepomis cyanellus	P
Largemouth bass	Micropterus salmoides	G
Pumpkinseed	Lepomis gibbosus	P
Redbreast sunfish	Lepomis auritus	P
Rock bass	Ambloplites rupestris	P
Smallmouth bass	Micropterus dolomieui	G
Trouts - Salmoides		
Brook trout	Salvelinus fontinalis	G
Brown trout	Salmo trutta	G
Rainbow trout	Salmo gairdneri	G

* G = game fish; P = pan fish; R = rough or forage fish.

Table 2. Fishes collected by month by experimental gill net from April through September 1975 in 1416.00 hours at ten stations in Lower B-G.

Month	Apr	May	Jun	Jul	Aug	Sep	Total
Number of Hours Sampled	238.50	240.00	232.00	230.50	239.50	235.50	1416.00
Species							
White sucker	27	11	16	3	6	13	76
Golden shiner	-	7	15	19	3	7	57
Carp	6	2	8	18	6	9	49
Pumpkinseed	-	22	2	7	5	12	48
Brown bullhead	1	2	4	3	13	11	34
Yellow perch	1	5	9	6	1	1	23
Stonecat	4	5	-	-	1	1	11
Fallfish	4	-	1	3	-	3	11
Walleye	1	1	3	1	1	-	7
Chain pickerel	2	-	-	-	-	1	3
Rock bass	-	-	-	1	-	2	3
Largemouth bass	1	-	-	-	-	1	2
Smallmouth bass	1	-	-	-	-	-	1
Creek chub	-	1	-	-	-	-	1
Number of Fish	48	56	58	61	42	61	326
Number of Fishes	10	9	8	9	8	11	14
Catch Per Hour	0.20	0.23	0.25	0.26	0.18	0.26	0.23

Table 3. Fishes collected by station by experimental gill net from April through September 1975 in 1416.00 hours at ten stations in Lower B-G.

Station	1	2	3	4	5	6	7	8	9	10	Total
Number of Hours Sampled	136.25	139.50	142.00	148.00	146.00	137.50	143.00	140.50	144.00	139.25	1416.00
Species											
White sucker	5	21	15	9	1	10	7	3	1	4	76
Golden shiner	9	20	4	11	2	-	3	2	5	1	57
Carp	2	6	10	10	1	7	7	1	4	1	49
Pumpkinseed	5	8	6	8	-	3	13	4	-	1	48
Brown bullhead	3	5	-	-	-	3	13	1	1	8	34
Yellow perch	3	1	1	2	1	-	1	8	1	5	23
Stonecat	3	-	3	2	1	1	-	-	1	-	11
Fallfish	-	4	1	1	1	1	1	2	-	-	11
Walleye	1	1	-	1	-	1	2	-	1	-	7
Chain pickerel	1	-	-	-	-	-	2	-	-	-	3
Rock bass	-	-	2	1	-	-	-	-	-	-	3
Largemouth bass	-	-	-	-	-	1	1	-	-	-	2
Smallmouth bass	-	-	-	1	-	-	-	-	-	-	1
Creek chub	-	-	1	-	-	-	-	-	-	-	1
Number of Fish	32	66	43	46	7	27	50	21	14	20	326
Number of Fishes	9	8	9	10	6	8	10	7	7	6	14
Catch Per Hour	0.23	0.47	0.30	0.31	0.05	0.20	0.35	0.15	0.10	0.14	0.23

Table 4. Fishes collected by experimental gill net from April through September 1973 (1680.00 hours), 1974 (1440.00 hours), and 1975 (1416.00 hours) at ten stations in Lower B-G.

Species	1973					1974					1975				
	Collected		Catch Per	Biomass*		Collected		Catch Per	Biomass		Collected		Catch Per	Biomass	
	#	%	Hour	lbs	%	#	%	Hour	lbs	%	#	%	Hour	lbs	%
Carp	289	34.8	0.17			35	11.3	0.02	44.2	41.9	49	15.0	0.03	67.34	42.5
Pumpkinseed	150	18.1	0.09			106	34.3	0.07	9.9	9.4	48	14.7	0.03	5.94	3.7
Brown bullhead	89	10.7	0.05			13	4.2	0.01	5.0	4.7	34	10.4	0.02	9.49	6.0
Stonecat	74	8.9	0.04			20	6.5	0.01	4.7	4.5	11	3.4	0.01	3.50	2.2
White sucker	55	6.7	0.03			51	16.5	0.04	20.8	19.7	76	23.3	0.05	39.67	25.0
Largemouth bass	41	4.9	0.02			2	0.6	0.01	0.5	0.5	2	0.6	0.01	1.50	0.9
Fallfish	41	4.9	0.02			12	3.9	0.01	3.0	2.8	11	3.4	0.01	5.97	3.8
Yellow perch	27	3.2	0.02			27	8.7	0.02	6.0	5.7	23	7.1	0.02	4.45	2.8
Chain pickerel	20	2.4	0.01			10	3.2	0.01	4.8	4.6	3	0.9	0.01	4.98	3.1
Walleye	16	1.9	0.01			6	1.9	0.01	1.8	1.7	7	2.1	0.01	3.46	2.2
Golden shiner	13	1.7	0.01			21	6.8	0.01	3.1	2.9	57	17.5	0.04	10.34	6.5
Rock bass	9	1.1	0.01			5	1.6	0.01	0.6	0.6	3	0.9	0.01	0.59	0.4
Northern hog sucker	7	0.8	0.01			1	0.3	0.01	1.0	0.9	-	-	-	-	-
Smallmouth bass	-	-	-			-	-	-	-	-	1	0.3	0.01	1.13	0.7
Creek chub	-	-	-			-	-	-	-	-	1	0.3	0.01	0.26	0.2
Total Number of Fish and Biomass	831					309			105.4		326			158.62	
Number of Fishes	13					13					14				
Catch Per Hour (Number and Biomass)			0.49					0.21	0.07				0.23	0.11	

* No biomass recorded in 1973.

Table 5. Fishes collected by month by trap net from April through September 1975 in 570.50 hours at four stations in Lower B-G.

Month	Apr	May	Jun	Jul	Aug	Sep	Total
Number of Hours Sampled	93.00	96.00	92.50	99.50	95.50	94.00	570.50
Species							
Brown bullhead	12	28	7	49	24	-	120
Pumpkinseed	1	13	8	32	8	11	73
White sucker	14	1	-	1	5	1	22
Yellow perch	1	-	-	8	2	3	14
Rock bass	2	6	1	2	-	-	11
Walleye	-	-	-	1	-	1	2
Smallmouth bass	1	-	-	-	-	-	1
Fallfish	1	-	-	-	-	-	1
Stonecat	-	1	-	-	-	-	1
Redbreast sunfish	-	-	-	-	1	-	1
Sunfish spp.	-	-	-	-	-	1	1
Number of Fish	32	49	16	93	40	17	247
Number of Fishes	7	5	3	6	5	4	10
Catch Per Hour	0.34	0.51	0.17	0.93	0.42	0.18	0.43

Table 6. Fishes collected by station by trap net from April through September 1975 in 570.50 hours at four stations in Lower B-G.

Station	1	2	3	4	Total
Number of Hours Sampled	140.00	141.00	147.50	142.00	570.50
Species					
Brown bullhead	9	73	7	31	120
Pumpkinseed	13	25	5	30	73
White sucker	15	5	2	-	22
Yellow perch	3	8	1	2	14
Rock bass	3	2	3	3	11
Walleye	-	2	-	-	2
Smallmouth bass	-	-	-	1	1
Fallfish	1	-	-	-	1
Stonecat	1	-	-	-	1
Redbreast sunfish	1	-	-	-	1
Sunfish spp.	1	-	-	-	1
Number of Fish	47	115	18	67	247
Number of Fishes	8	6	5	5	10
Catch Per Hour	0.34	0.82	0.12	0.47	0.43

Table 7. Fishes collected by trap net in June, July, and September 1973 (285.25 hours) at stations 1 and 3 and from April through September 1974 (1270.00 hours) at stations 1 through 5 and 1975 (570.50 hours) at stations 1 through 4 in Lower B-G.

Species	1973					1974					1975				
	Collected		Catch Per	Biomass*		Collected		Catch Per	Biomass		Collected		Catch Per	Biomass	
	#	%	Hour	lbs	%	#	%	Hour	lbs	%	#	%	Hour	lbs	%
Pumpkinseed	853	73.9	2.99			454	39.3	0.36	21.5	14.5	73	29.6	0.13	4.71	12.5
Brown bullhead	184	15.9	0.65			631	54.6	0.50	99.0	67.0	120	48.6	0.21	19.21	50.9
Carp	56	4.9	0.20			13	1.1	0.01	5.6	3.8	-	-	-	-	-
Rock bass	39	3.4	0.14			20	1.7	0.02	4.9	3.3	11	4.5	0.02	1.99	5.3
Yellow perch	10	0.9	0.04			5	0.4	0.01	0.7	0.5	14	5.7	0.02	1.04	2.8
White sucker	5	0.4	0.02			20	1.7	0.02	13.4	9.1	22	8.9	0.04	9.77	25.9
Largemouth bass	3	0.3	0.01			4	0.3	0.01	1.6	1.1	-	-	-	-	-
Golden shiner	2	0.2	0.01			2	0.2	0.01	0.1	0.1	-	-	-	-	-
Bluntnose minnow	1	0.1	0.01			-	-	-	-	-	-	-	-	-	-
Chain pickerel	1	0.1	0.01			-	-	-	-	-	-	-	-	-	-
Redbreast sunfish	-	-	-			2	0.2	0.01	0.2	0.1	1	0.4	0.01	0.09	0.2
Walleye	-	-	-			2	0.2	0.01	0.5	0.3	2	0.8	0.01	0.29	0.8
Fallfish	-	-	-			1	0.1	0.01	0.1	0.1	1	0.4	0.01	0.24	0.6
Smallmouth bass	-	-	-			1	0.1	0.01	0.1	0.1	1	0.4	0.01	0.06	0.2
Logperch	-	-	-			1	0.1	0.01	0.1	0.1	-	-	-	-	-
Sunfish spp.	-	-	-			-	-	-	-	-	1	0.4	0.01	0.01	0.0
Stonecat	-	-	-			-	-	-	-	-	1	0.4	0.01	0.33	0.9
Total Number of Fish and Biomass	1154					1156			147.8		247			37.74	
Number of Fishes	10					13					10				
Catch Per Hour (Number and Biomass)			4.05					0.91	0.12				0.43	0.07	

* No biomass recorded in 1973.

Table 8. Fishes collected by seine net from June through September 1975 at three stations (24 hauls) in Lower B-G.

Date	26 Jun	26 Jun	26 Jun	Jun Total	28 Jul	28 Jul	28 Jul	Jul Total	27 Aug	27 Aug	27 Aug	Aug Total
Station*	1	2	3		1	2	3		1	2	3	
Species												
Golden shiner	17	-	-	17	-	-	-	-	78	-	8	86
Fallfish	14	-	-	14	-	3	1	4	1	-	-	1
Pumpkinseed	-	-	-	-	-	6	1	7	2	-	2	4
White sucker	3	-	-	3	-	-	-	-	-	-	-	-
Smallmouth bass	-	-	-	-	-	1	1	2	-	-	-	-
Largemouth bass	-	-	-	-	-	-	-	-	1	-	1	2
Brown bullhead	-	-	-	-	-	1	-	1	-	-	-	-
Tessellated darter	-	-	-	-	-	-	1	1	-	-	-	-
Spottail shiner	-	-	-	-	-	1	-	1	-	-	-	-
Number of Fish and Biomass	34	0	0	34	0	12	4	16	82	0	11	93
Number of Fishes	3	0	0	3	0	5	4	6	4	0	3	4
Catch Per Haul (Number and Biomass)	17.0	0.0	0.0	5.7	0.0	6.0	2.0	2.7	41.0	0.0	5.5	15.5

Date	24 Sep	24 Sep	24 Sep	Sep Total	Station Totals			Total Collected		Catch Per	Biomass	
Station	1	2	3		1	2	3	#	%	Haul	lbs	%
Species												
Golden shiner	42	-	7	49	137	-	15	152	77.6	6.3	1.34	51.3
Fallfish	1	-	3	4	16	3	4	23	11.7	1.0	0.28	10.7
Pumpkinseed	-	-	-	-	2	6	3	11	5.6	0.5	0.74	28.4
White sucker	-	-	-	-	3	-	-	3	1.5	0.1	0.01	0.4
Smallmouth bass	-	-	-	-	-	1	1	2	1.0	0.1	0.05	1.9
Largemouth bass	-	-	-	-	1	-	1	2	1.0	0.1	0.02	0.8
Brown bullhead	-	-	-	-	-	1	-	1	0.5	0.1	0.15	5.7
Tessellated darter	-	-	-	-	-	-	1	1	0.5	0.1	0.01	0.4
Spottail shiner	-	-	-	-	-	1	-	1	0.5	0.1	0.01	0.4
Number of Fish and Biomass	43	0	10	53	156	12	25	196			2.61	
Number of Fishes	2	0	2	2	5	5	6	9				
Catch Per Haul (Number and Biomass)	21.5	0.0	5.0	8.8	19.5	1.5	3.1	8.2			0.11	

* Two hauls per station.

Table 9. Fishes collected by seine net in April and May 1973 at stations 1 and 3 and from June through August 1974 and 1975 at stations 1 through 3 in Lower B-G.

Species	Total 1973 (10 hauls)					Total 1974 (29 hauls)					Total 1975 (18 hauls)				
	Collected		Catch Per	Biomass*		Collected		Catch Per	Biomass		Collected		Catch Per	Biomass	
	#	%	Haul	lbs	%	#	%	Haul	lbs	%	#	%	Haul	lbs	%
Golden shiner	1811	59.2	181.1			4	1.9	0.1	0.12	3.8	103	72.0	5.7	0.98	44.1
Common shiner	415	13.6	41.5			4	1.9	0.1	0.04	1.3	-	-	-	-	-
Creek chub	311	10.2	31.1			-	-	-	-	-	-	-	-	-	-
Bluntnose minnow	182	5.9	18.2			3	1.4	0.1	0.02	0.6	-	-	-	-	-
Rosyface shiner	100	3.3	10.0			129	62.3	4.4	0.42	13.2	-	-	-	-	-
Pumpkinseed	62	2.0	6.7			46	22.2	1.6	2.21	69.7	11	7.7	0.6	0.74	33.3
Blacknose dace	47	1.5	4.7			-	-	-	-	-	-	-	-	-	-
Carp	37	1.2	3.7			1	0.5	0.1	0.01	0.3	-	-	-	-	-
Satinfin shiner	23	0.8	2.3			12	5.8	0.4	0.06	1.9	-	-	-	-	-
Longnose dace	23	0.8	2.3			-	-	-	-	-	-	-	-	-	-
Fallfish	17	0.6	1.7			4	1.9	0.1	0.01	0.3	19	13.3	0.7	0.25	11.3
White sucker	11	0.4	1.1			-	-	-	-	-	3	2.1	0.2	0.01	0.5
Cutlips minnow	8	0.3	0.8			-	-	-	-	-	-	-	-	-	-
Spottail shiner	3	0.1	0.3			-	-	-	-	-	1	0.7	0.1	0.01	0.5
Stoneroller	3	0.1	0.3			-	-	-	-	-	-	-	-	-	-
Largemouth bass	2	0.1	0.2			1	0.5	0.1	0.15	4.7	2	1.4	0.1	0.02	0.9
Fantail darter	2	0.1	0.2			-	-	-	-	-	-	-	-	-	-
Smallmouth bass	1	0.1	0.1			1	0.5	0.1	0.01	0.3	2	1.4	0.1	0.05	2.3
Rock bass	1	0.1	0.1			-	-	-	-	-	-	-	-	-	-
Yellow perch	-	-	-			1	0.5	0.1	0.01	0.3	-	-	-	-	-
Brown bullhead	-	-	-			1	0.5	0.1	0.11	3.5	1	0.7	0.1	0.15	6.8
Tessellated darter	-	-	-			-	-	-	-	-	1	0.7	0.1	0.01	0.5
Total Number of Fish and Biomass	3059					207			3.17		143			2.22	
Number of Fishes	19					12					9				
Catch Per Haul (Number and Biomass)			305.9					7.1	0.11				7.9	0.12	

* No biomass recorded in 1973.

Table 10. Description of block net station sampled in 1975 in Mine Kill Cove in Lower B-G.

When elevation of Lower B-G is 900 ft, Mine Kill Cove is V-shaped. The Mine Kill enters at the western end. The eastern end opens into Lower B-G and is about 1000 ft wide. The length of the cove, which runs in an east-west direction, is 2750 ft. The old channel of the Mine Kill flows near the northern shore where it first enters the cove, then to the center and back to the northern shore just before the mouth of the cove meets the main body of Lower B-G.

At elevation 870 ft, the bottom of the cove is completely exposed. At elevation 900 ft, about two-thirds of the cove is 0-20 ft deep and one-third is 20-30 ft deep. The deepest part of the cove is at the northeastern end.

The shore is wooded with deciduous trees and hemlock. The bottom is composed of 85% clay, 10% rubble, and 5% boulders. Branches of dead trees and shrubs are present over about 25% of the bottom.

Table 11. Abundance and biomass of fishes collected by block net from June through September 1975 in Mine Kill Cove (1.50 surface acres) in Lower B-G.

Date	22 June 1975				20 July 1975				17 August 1975			
	Abundance		Biomass		Abundance		Biomass		Abundance		Biomass	
Species	#	%	lbs	%	#	%	lbs	%	#	%	lbs	%
Carp	579	32.1	421.06	59.7	980	58.2	739.19	73.5	471	56.5	405.33	72.8
Brown bullhead	752	41.7	118.63	16.8	221	13.1	33.06	3.3	56	6.7	9.56	1.7
White sucker	236	13.1	101.26	14.4	292	17.3	197.45	19.6	157	18.8	108.88	19.6
Pumpkinseed	93	5.2	17.63	2.5	111	6.6	10.24	1.0	64	7.7	8.56	1.5
Golden shiner	19	1.1	2.63	0.4	2	0.1	0.03	0.1	30	3.6	4.68	0.8
Smallmouth bass	50	2.8	21.94	3.1	47	2.8	16.96	1.7	43	5.2	15.94	2.9
Sunfish spp.	-	-	-	-	-	-	-	-	-	-	-	-
Rock bass	36	2.0	5.91	0.8	13	0.8	2.61	0.3	7	0.8	0.71	0.1
Fallfish	5	0.3	1.27	0.2	5	0.3	3.10	0.3	1	0.1	0.56	0.1
Walleye	19	1.1	8.67	1.2	3	0.2	2.17	0.2	1	0.1	0.52	0.1
Yellow perch	6	0.3	1.17	0.2	8	0.5	0.48	0.1	-	-	-	-
Spottail shiner	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass	5	0.3	3.53	0.5	-	-	-	-	1	0.1	0.41	0.1
Rosyface shiner	-	-	-	-	-	-	-	-	-	-	-	-
Bluntnose minnow	-	-	-	-	-	-	-	-	-	-	-	-
Tessellated darter	-	-	-	-	-	-	-	-	-	-	-	-
Redbreast sunfish	2	0.1	0.27	0.1	-	-	-	-	-	-	-	-
Northern hog sucker	2	0.1	0.48	0.1	-	-	-	-	-	-	-	-
Chain pickerel	1	0.1	0.51	0.1	1	0.1	0.96	0.1	-	-	-	-
Common shiner	-	-	-	-	-	-	-	-	1	0.1	0.01	0.1
Shorthead redhorse	-	-	-	-	-	-	-	-	1	0.1	1.00	0.2
Brown trout	-	-	-	-	-	-	-	-	1	0.1	0.40	0.1
Stonecat	-	-	-	-	-	-	-	-	-	-	-	-
Fantail darter	-	-	-	-	-	-	-	-	-	-	-	-
Number of Fish and Biomass	1805		704.96		1683		1006.25		834		556.56	
Number of Fishes	14				11				13			

Date	28 September 1975				Total			
	Abundance		Biomass		Abundance		Biomass	
Species	#	%	lbs	%	#	%	lbs	%
Carp	4	0.6	4.44	6.2	2034	40.7	1570.02	67.1
Brown bullhead	185	27.2	42.91	59.8	1214	24.3	204.16	8.7
White sucker	44	6.5	12.94	18.0	729	14.6	420.53	18.0
Pumpkinseed	48	7.1	5.71	8.0	316	6.3	42.14	1.8
Golden shiner	244	35.9	1.78	2.5	295	5.9	9.12	0.4
Smallmouth bass	21	3.1	1.02	1.4	161	3.2	55.86	2.4
Sunfish spp.	65	9.6	0.15	0.2	65	1.3	0.15	0.1
Rock bass	4	0.6	0.61	0.9	60	1.2	9.84	0.4
Fallfish	19	2.8	0.18	0.3	30	0.6	5.11	0.2
Walleye	-	-	-	-	23	0.5	11.36	0.5
Yellow perch	4	0.6	0.05	0.1	18	0.4	1.70	0.1
Spottail shiner	18	2.7	0.07	0.1	18	0.4	0.07	0.1
Largemouth bass	3	0.4	1.17	1.6	9	0.2	5.11	0.2
Rosyface shiner	7	1.0	0.03	0.1	7	0.1	0.03	0.1
Bluntnose minnow	5	0.7	0.01	0.1	5	0.1	0.01	0.1
Tessellated darter	4	0.6	0.01	0.1	4	0.1	0.01	0.1
Redbreast sunfish	1	0.1	0.08	0.1	3	0.1	0.35	0.1
Northern hog sucker	1	0.1	0.48	0.7	3	0.1	0.96	0.1
Chain pickerel	-	-	-	-	2	0.1	1.47	0.1
Common shiner	-	-	-	-	1	0.1	0.01	0.1
Shorthead redhorse	-	-	-	-	1	0.1	1.00	0.1
Brown trout	-	-	-	-	1	0.1	0.40	0.1
Stonecat	1	0.1	0.09	0.1	1	0.1	0.09	0.1
Fantail darter	1	0.1	0.01	0.1	1	0.1	0.01	0.1
Number of Fish and Biomass	679		71.74		5001		2339.51	
Number of Fishes	18				23			

Table 12. Fishes collected by block net in August 1973, 1974, and 1975 in Mine Kill Cove in Lower B-G.

Date	17 August 1973				18 August 1974				17 August 1975			
Area Blocked	0.75 Surface Acres (complete catch)				2.30 Surface Acres (incomplete catch)				1.50 Surface Acres (complete catch)			
	Collected		Biomass		Collected		Biomass		Collected		Biomass	
Species	#	%	lbs	%	#	%	lbs	%	#	%	lbs	%
Pumpkinseed	4400	79.2	71.09	22.8	71	22.2	4.69	4.2	64	7.7	8.56	1.5
Carp	393	7.1	119.91	38.4	4	1.3	2.56	2.3	471	56.5	405.33	72.8
White sucker	186	3.3	42.35	13.6	113	35.3	86.94	77.6	157	18.8	108.88	19.6
Golden shiner	184	3.3	5.72	1.8	68	21.3	6.63	5.9	30	3.6	4.68	0.8
Smallmouth bass	72	1.3	10.94	3.5	5	1.6	1.54	1.4	43	5.2	15.94	2.9
Fallfish	69	1.2	13.88	4.4	2	0.6	2.02	1.8	1	0.1	0.56	0.1
Brown bullhead	57	1.0	19.39	6.2	4	1.3	0.30	0.3	56	6.7	9.56	1.7
Largemouth bass	55	1.0	11.03	3.5	7	2.2	1.09	1.0	1	0.1	0.41	0.1
Rock bass	49	0.9	3.55	1.1	17	5.3	3.46	3.1	7	0.8	0.71	0.1
Northern hog sucker	30	0.5	12.26	3.9	1	0.3	0.40	0.4	-	-	-	-
Bluntnose minnow	23	0.4	0.08	0.1	-	-	-	-	-	-	-	-
Logperch	12	0.2	0.19	0.1	-	-	-	-	-	-	-	-
Walleye	7	0.1	0.36	0.1	-	-	-	-	1	0.1	0.52	0.1
Common shiner	7	0.1	0.14	0.1	-	-	-	-	1	0.1	0.01	0.1
Yellow perch	6	0.1	0.65	0.2	1	0.3	0.12	0.1	-	-	-	-
Redbreast sunfish	3	0.1	0.39	0.1	-	-	-	-	-	-	-	-
Creek chub	3	0.1	0.13	0.1	-	-	-	-	-	-	-	-
Cutlips minnow	1	0.1	0.06	0.1	-	-	-	-	-	-	-	-
Chain pickerel	-	-	-	-	1	0.3	0.10	0.1	-	-	-	-
Satinfin shiner	-	-	-	-	1	0.3	0.10	0.1	-	-	-	-
Spottail shiner	-	-	-	-	25	7.8	2.10	1.9	-	-	-	-
Shorthead redhorse	-	-	-	-	-	-	-	-	1	0.1	1.00	0.2
Brown trout	-	-	-	-	-	-	-	-	1	0.1	0.40	0.1
Total Number of Fish and Biomass	5557		312.12		320		112.05		834		556.56	
Number of Fishes	18				14				13			

Table 13. Abundance and biomass of fishes collected by block net, experimental gill net, trap net, and seine net from April through September 1975 in Lower B-G.

Species	Abundance		Biomass	
	#	%	# (lbs)	%
Carp	2083	36.1	1637.36	64.5
Brown bullhead	1369	23.7	233.01	9.2
White sucker	830	14.4	469.98	18.5
Golden shiner	504	8.7	20.80	0.8
Pumpkinseed	448	7.8	53.53	2.1
Smallmouth bass	165	2.9	57.10	2.2
Rock bass	74	1.3	12.42	0.5
Sunfish spp.	66	1.1	0.16	0.1
Fallfish	65	1.1	11.60	0.5
Yellow perch	55	1.0	7.19	0.3
Walleye	32	0.6	15.11	0.6
Spottail shiner	19	0.3	0.08	0.1
Largemouth bass	13	0.2	6.63	0.3
Stonecat	13	0.2	3.92	0.2
Rosyface shiner	7	0.1	0.03	0.1
Chain pickerel	5	0.1	6.45	0.3
Bluntnose minnow	5	0.1	0.01	0.1
Tessellated darter	5	0.1	0.02	0.1
Redbreast sunfish	4	0.1	0.44	0.1
Northern hog sucker	3	0.1	0.96	0.1
Brown trout	1	0.1	0.40	0.1
Common shiner	1	0.1	0.01	0.1
Creek chub	1	0.1	0.26	0.1
Shorthead redhorse	1	0.1	1.00	0.1
Fantail darter	1	0.1	0.01	0.1
Total Number of Fish and Biomass	5770		2538.48	
Number of Fishes	24			

Table 14. Fishes collected by month by experimental gill net from April through September 1975 in 853.50 hours at six stations in Upper B-G.

Month	Apr	May	Jun	Jul	Aug	Sep	Total
Number of Hours Sampled	141.50	139.00	141.00	151.00	133.50	147.50	853.50
Species							
Yellow perch	57	84	29	18	5	31	224
Pumpkinseed	-	88	40	18	10	13	169
Brown bullhead	7	37	7	-	1	-	52
Carp	5	17	14	3	3	2	44
Golden shiner	3	5	10	2	7	8	35
Redbreast sunfish	-	5	19	4	5	1	34
Walleye	-	4	4	11	-	7	26
Fallfish	6	2	2	1	3	1	15
White sucker	1	-	1	1	4	6	13
Rock bass	-	6	2	-	-	-	8
Northern hog sucker	1	-	-	-	1	-	2
Stonecat	-	1	1	-	-	-	2
Number of Fish	80	249	129	58	39	69	624
Number of Fishes	7	10	11	8	9	8	12
Catch Per Hour	0.57	1.79	0.91	0.38	0.29	0.47	0.73

Table 15. Fishes collected by station by experimental gill net from April through September 1975 in 853.50 hours at six stations in Upper B-G.

Station	1	2	3	4	5	6	Total
Number of Hours Sampled	142.00	141.50	140.00	142.00	145.50	142.50	853.50
Species							
Yellow perch	32	56	40	23	43	30	224
Pumpkinseed	18	31	53	27	9	31	169
Brown bullhead	15	13	15	5	3	1	52
Carp	8	7	13	6	5	5	44
Golden shiner	6	6	5	6	9	3	35
Redbreast sunfish	4	5	1	11	6	7	34
Walleye	5	6	4	2	3	6	26
Fallfish	3	3	2	4	1	2	15
White sucker	4	1	-	1	4	3	13
Rock bass	5	-	-	1	1	1	8
Northern hog sucker	-	-	-	-	2	-	2
Stonecat	-	-	-	-	-	2	2
Number of Fish	100	128	133	86	86	91	624
Number of Fishes	10	9	8	10	11	11	12
Catch Per Hour	0.70	0.90	0.95	0.61	0.59	0.64	0.73

Table 16. Fishes collected by experimental gill net from April through September 1974 (864.00 hours) and 1975 (853.50 hours) in Upper B-G.

Species	1974 Collected #	1974 Collected %	1974 Catch Per Hour	1974 Biomass lbs	1974 Biomass %	1975 Collected #	1975 Collected %	1975 Catch Per Hour	1975 Biomass lbs	1975 Biomass %
Brown bullhead	469	49.8	0.54	99.3	37.4	52	8.3	0.06	12.28	6.5
Pumpkinseed	141	15.0	0.16	12.5	4.7	169	27.1	0.20	16.91	8.9
Yellow perch	95	10.1	0.11	21.3	8.0	224	35.9	0.26	49.85	26.2
Carp	94	10.0	0.11	104.6	39.4	44	7.1	0.05	66.62	35.0
Redbreast sunfish	66	7.0	0.08	8.2	3.1	34	5.4	0.04	5.63	3.0
Golden shiner	23	2.4	0.03	3.5	1.3	35	5.6	0.04	4.95	2.6
White sucker	20	2.1	0.02	6.0	2.3	13	2.1	0.02	10.07	5.3
Walleye	9	1.0	0.01	3.7	1.4	26	4.2	0.03	15.99	8.4
Rock bass	8	0.8	0.01	1.3	0.5	8	1.3	0.01	0.91	0.5
Fallfish	5	0.5	0.01	1.5	0.6	15	2.4	0.02	3.65	1.9
Common shiner	5	0.5	0.01	1.5	0.6	-	-	-	-	-
Stonecat	4	0.4	0.01	1.8	0.7	2	0.3	0.01	1.58	0.8
Logperch	3	0.3	0.01	0.1	0.0	-	-	-	-	-
Northern hog sucker	-	-	-	-	-	2	0.3	0.01	1.79	0.9
Total Number of Fish and Biomass	942			265.3		624			190.23	
Number of Fishes	13					12				
Catch Per Hour (Number and Biomass)			1.09	0.31				0.73	0.23	

Table 17. Fishes collected by month by trap net from April through September 1975 in 566.00 hours at four stations in Upper B-G.

Month	Apr	May	Jun	Jul	Aug	Sep	Total
Number of Hours Sampled	96.00	96.00	93.00	92.00	92.00	97.00	566.00
Species							
Pumpkinseed	1	20	24	26	77	11	159
Yellow perch	1	3	3	81	11	1	100
Redbreast sunfish	-	1	-	11	3	-	15
Rock bass	-	5	3	6	-	-	14
Brown bullhead	-	2	1	6	-	-	9
White sucker	-	-	-	1	1	-	2
Common shiner	1	-	-	-	-	-	1
Number of Fish	3	31	31	131	92	12	300
Number of Fishes	3	5	4	6	4	2	7
Catch Per Hour	0.03	0.32	0.33	1.42	1.00	0.12	0.53

Table 18. Fishes collected by station by trap net from April through September 1975 in 566.00 hours at four stations in Upper B-G.

Station	1	2	3	4	Total
Number of Hours Sampled	143.00	143.50	140.00	139.50	566.00
Species					
Pumpkinseed	17	66	60	16	159
Yellow perch	8	12	49	31	100
Redbreast sunfish	2	7	5	1	15
Rock bass	3	4	4	3	14
Brown bullhead	1	2	5	1	9
White sucker	-	1	1	-	2
Common shiner	-	-	-	1	1
Number of Fish	31	92	124	53	300
Number of Fishes	5	6	6	6	7
Catch Per Hour	0.22	0.64	0.89	0.38	0.53

Table 19. Fishes collected by trap net from April through September 1974 (1278.00 hours) and 1975 (566.00 hours) at four stations in Upper B-G.

Species	1974 Collected #	1974 Collected %	1974 Catch Per Hour	1974 Biomass lbs	1974 Biomass %	1975 Collected #	1975 Collected %	1975 Catch Per Hour	1975 Biomass lbs	1975 Biomass %
Pumpkinseed	642	67.9	0.50	57.1	58.4	159	53.0	0.28	11.74	36.5
Redbreast sunfish	119	12.6	0.09	11.3	11.6	15	5.0	0.03	1.83	5.7
Yellow perch	85	9.0	0.07	13.2	13.5	100	33.3	0.18	11.48	35.7
Brown bullhead	61	6.5	0.05	9.8	10.0	9	3.0	0.02	3.55	11.0
Rock bass	26	2.8	0.02	2.5	2.6	14	4.7	0.02	1.69	5.3
White sucker	4	0.4	0.01	1.2	1.2	2	0.7	0.01	1.81	5.6
Logperch	2	0.2	0.01	0.1	0.1	-	-	-	-	-
Carp	2	0.2	0.01	2.0	2.0	-	-	-	-	-
Fantail darter	1	0.1	0.01	0.1	0.1	-	-	-	-	-
Satinfin shiner	1	0.1	0.01	0.1	0.1	-	-	-	-	-
Common shiner	1	0.1	0.01	0.1	0.1	1	0.3	0.01	0.06	0.2
Walleye	1	0.1	0.01	0.2	0.2	-	-	-	-	-
Total Number of Fish and Biomass	945			97.7		300			32.16	
Number of Fishes	12					7				
Catch Per Hour (Number and Biomass)			0.74		0.08			0.53		0.06

Table 20. Fishes collected by seine net from July through September 1975 at three stations (18 hauls) in Upper B-G.

Date	18 Jul	18 Jul	18 Jul	Jul Total	29 Aug	29 Aug	29 Aug	Aug Total	26 Sep	26 Sep	26 Sep	Sep Total
Station*	1	2	3		1	2	3		1	2	3	
Species												
Pumpkinseed	-	132	23	155	10	21	71	102	-	4	2	6
Yellow perch	-	35	13	48	-	-	3	3		-	1	1
Tessellated darter	-	8	3	11	-	-	1	1	-	-	-	-
Logperch	-	2	6	8	-	-	-	-	-	-	-	-
Golden shiner	-	-	4	4	-	-	-	-	-	-	-	-
Carp	-	-	3	3	-	-	-	-	-	-	-	-
Spottail shiner	-	2	-	2	1	-	-	1	-	-	-	-
Fallfish	-	1	-	1	-	-	-	-	-	-	-	-
Number of Fish and Biomass	0	180	52	232	11	21	75	107	0	4	3	7
Number of Fishes	0	6	6	8	2	1	3	4	0	1	2	2
Catch Per Haul (Number and Biomass)	0.0	90.0	26.0	38.7	5.5	10.5	37.5	17.8	0.0	2.0	1.5	1.2

	Station Totals			Total Collected		Total Catch Per	Total Biomass	
	1	2	3	#	%	Haul	lbs	%
Species								
Pumpkinseed	10	157	96	263	76.0	14.6	5.35	46.2
Yellow perch	-	35	17	52	15.0	2.9	0.22	1.9
Tessellated darter	-	8	4	12	3.5	0.7	0.05	0.4
Logperch	-	2	6	8	2.3	0.4	0.42	3.6
Golden shiner	-	-	4	4	1.2	0.3	0.11	0.9
Carp	-	-	3	3	0.9	0.2	5.38	46.4
Spottail shiner	1	2	-	3	0.9	0.2	0.02	0.2
Fallfish	-	1	-	1	0.3	0.1	0.04	0.3
Number of Fish and Biomass	11	205	130	346			11.59	
Number of Fishes	2	6	6	8				
Catch Per Haul (Number and Biomass)	1.8	34.2	21.7			19.2	0.64	

* Two hauls per station.

Table 21. Abundance and biomass of fishes collected by experimental gill net, trap net, and seine net from April through September 1975 in Upper B-G.

Species	Abundance #	Abundance %	Biomass lbs	Biomass %
Pumpkinseed	591	46.5	34.00	14.5
Yellow perch	376	29.6	61.55	26.3
Brown bullhead	61	4.8	15.83	6.8
Redbreast sunfish	49	3.9	7.46	3.2
Carp	47	3.7	72.00	30.8
Golden shiner	39	3.1	5.06	2.2
Walleye	26	2.0	15.99	6.8
Rock bass	22	1.7	2.60	1.1
Fallfish	16	1.3	3.69	1.6
White sucker	15	1.2	11.88	5.1
Tessellated darter	12	0.9	0.05	0.1
Log perch	8	0.6	0.42	0.2
Spottail shiner	3	0.2	0.02	0.1
Stonecat	2	0.2	1.58	0.7
Northern hog sucker	2	0.2	1.79	0.8
Common shiner	1	0.1	0.06	0.1
Total Number of Fish and Biomass	1270		233.98	
Number of Fishes	16			

Table 22. Abundance and biomass of fishes collected by experimental gill net from April through September 1975 in Lower (1416.00 hours) and Upper (853.50 hours) B-G.

Species	Lower B-G Collected #	Lower B-G Collected %	Lower B-G Catch Per Hour	Lower B-G Biomass lbs	Lower B-G Biomass %	Upper B-G Collected #	Upper B-G Collected %	Upper B-G Catch Per Hour	Upper B-G Biomass lbs	Upper B-G Biomass %
White sucker	76	23.3	0.05	39.67	25.0	13	2.1	0.02	10.07	5.3
Golden shiner	57	17.5	0.04	10.34	6.5	35	5.6	0.04	4.95	2.6
Carp	49	15.0	0.03	67.34	42.5	44	7.1	0.05	66.62	35.0
Pumpkinseed	48	14.7	0.03	5.94	3.7	169	27.1	0.20	16.91	8.9
Brown bullhead	34	10.4	0.01	9.49	6.0	52	8.3	0.06	12.28	6.5
Yellow perch	23	7.1	0.02	4.45	2.8	224	35.9	0.24	49.85	26.2
Stonecat	11	3.4	0.01	3.50	2.2	2	0.3	0.01	1.58	0.8
Fallfish	11	3.4	0.01	5.97	3.8	15	2.4	0.02	3.65	1.9
Walleye	7	2.1	0.01	3.46	2.2	26	4.2	0.03	15.99	8.4
Chain pickerel	3	0.9	0.01	4.98	3.1	-	-	-	-	-
Rock bass	3	0.9	0.01	0.59	0.4	8	1.3	0.01	0.91	0.5
Largemouth bass	2	0.6	0.01	1.50	0.9	-	-	-	-	-
Smallmouth bass	1	0.3	0.01	1.13	0.7	-	-	-	-	-
Creek chub	1	0.3	0.01	0.26	0.2	-	-	-	-	-
Redbreast sunfish	-	-	-	-	-	34	5.4	0.04	5.63	3.0
Northern hog sucker	-	-	-	-	-	2	0.3	0.01	1.79	0.9
Total Number of Fish and Biomass	326			158.62		624			190.23	
Number of Fishes	14					12				
Catch Per Hour (Number and Biomass)			0.23	0.11				0.73	0.23	

Table 23. Abundance and biomass of fishes collected by trap net from April through September 1975 in Lower (570.50 hours) and Upper (566.00 hours) B-G.

Species	Lower B-G					Upper B-G				
	Collected		Catch Per	Biomass		Collected		Catch Per	Biomass	
	#	%	Hour	lbs	%	#	%	Hour	lbs	%
Brown bullhead	120	48.6	0.21	19.21	50.9	9	3.0	0.02	3.55	11.0
Pumpkinseed	73	29.6	0.13	4.71	12.5	159	53.0	0.28	11.74	36.5
White sucker	22	8.9	0.04	9.77	25.9	2	0.7	0.01	1.81	5.6
Yellow perch	14	5.7	0.02	1.04	2.8	100	33.3	0.18	11.48	35.7
Rock bass	11	4.5	0.02	1.99	5.3	14	4.7	0.02	1.69	5.3
Walleye	2	0.8	0.01	0.29	0.8	-	-	-	-	-
Fallfish	1	0.4	0.01	0.24	0.6	-	-	-	-	-
Smallmouth bass	1	0.4	0.01	0.06	0.2	-	-	-	-	-
Stonecat	1	0.4	0.01	0.33	0.9	-	-	-	-	-
Redbreast sunfish	1	0.4	0.01	0.09	0.2	15	5.0	0.02	1.83	5.7
Sunfish spp.	1	0.4	0.01	0.01	0.1	-	-	-	-	-
Common shiner	-	-	-	-	-	1	0.3	0.01	0.06	0.2
Total Number of Fish and Biomass	247			37.74		300			32.16	
Number of Fishes	10					7				
Catch Per Hour (Number and Biomass)			0.43	0.07				0.53	0.06	

Table 24. Abundance and biomass of fishes collected by seine net from June through September 1975 at three stations in Lower B-G (24 hauls) and from July through September 1975 at three stations in Upper B-G (18 hauls).

Species	Lower B-G					Upper B-G				
	Collected		Catch Per	Biomass		Collected		Catch Per	Biomass	
	#	%	Haul	lbs	%	#	%	Haul	lbs	%
Golden shiner	152	77.6	6.3	1.69	57.1	4	1.2	0.2	0.11	0.9
Fallfish	23	11.7	1.0	0.28	9.5	1	0.3	0.1	0.04	0.3
Pumpkinseed	11	5.6	0.5	0.74	25.0	263	76.0	14.6	5.35	46.2
White sucker	3	1.5	0.1	0.01	0.3	-	-	-	-	-
Smallmouth bass	2	1.0	0.1	0.05	1.7	-	-	-	-	-
Largemouth bass	2	1.0	0.1	0.02	0.7	-	-	-	-	-
Brown bullhead	1	0.5	0.1	0.15	5.1	-	-	-	-	-
Tessellated darter	1	0.5	0.1	0.01	0.3	12	3.5	0.7	0.05	0.4
Spottail shiner	1	0.5	0.1	0.01	0.3	3	0.9	0.2	0.02	0.2
Yellow perch	-	-	-	-	-	52	15.0	2.9	0.22	1.9
Logperch	-	-	-	-	-	8	2.3	0.4	0.42	3.6
Carp	-	-	-	-	-	3	0.9	0.2	5.38	46.4
Total Number of Fish and Biomass	196			2.96		346			11.59	
Number of Fishes	9					8				
Catch Per Haul (Number and Biomass)			8.2	0.12				19.2	0.64	

Table 25. Fishes collected by trap net in August 1975 (623.00 hours) at nine FSPs in Schoharie Creek.

FSP*	L B-G Spillway Pool			1			2		
Hours Fished	69.0			72.0			63.0		
Species	#	Catch/ hr	Biomass (lbs)	#	Catch/ hr	Biomass (lbs)	#	Catch/ hr	Biomass (lbs)
Rock bass	-	-	-	4	0.06	0.37	5	0.08	0.96
White sucker	-	-	-	-	-	-	-	-	-
Pumpkinseed	-	-	-	-	-	-	3	0.05	0.32
Yellow perch	4	0.06	0.28	3	0.04	0.29	-	-	-
Brown bullhead	-	-	-	2	0.03	0.18	-	-	-
Northern hog sucker	-	-	-	-	-	-	-	-	-
Walleye	1	0.01	0.48	-	-	-	-	-	-
Chain pickerel	-	-	-	-	-	-	-	-	-
Shorthead redhorse	2	0.03	1.33	-	-	-	-	-	-
Largemouth bass	-	-	-	1	0.1	0.26	-	-	-
Number of Fish and Biomass	7		2.09	10		1.10	8		1.28
Number of Fishes	3			4			2		
Catch Per Hour (Number and Biomass)		0.10	0.03		0.14	0.02		0.13	0.02

FSP	8			9			Walhalla Rocks		
Hours Fished	69.0			70.0			72.5		
Species	#	Catch/ hr	Biomass (lbs)	#	Catch/ hr	Biomass (lbs)	#	Catch/ hr	Biomass (lbs)
Rock bass	3	0.04	0.74	7	0.10	1.64	6	0.08	2.01
White sucker	-	-	-	2	0.03	2.00	8	0.11	10.31
Pumpkinseed	2	0.03	0.19	-	-	-	2	0.03	0.10
Yellow perch	-	-	-	-	-	-	-	-	-
Brown bullhead	1	0.01	0.44	-	-	-	1	0.01	0.44
Northern hog sucker	1	0.01	0.99	3	0.04	1.84	-	-	-
Walleye	3	0.04	2.72	1	0.01	0.50	-	-	-
Chain pickerel	1	0.01	0.35	-	-	-	1	0.01	0.15
Shorthead redhorse	-	-	-	-	-	-	-	-	-
Largemouth bass	-	-	-	-	-	-	-	-	-
Number of Fish and Biomass	11		5.43	13		5.98	18		13.01
Number of Fishes	6			4			5		
Catch Per Hour (Number and Biomass)		0.16	0.08		0.19	0.09		0.25	0.18

* FSP = Fish Sampling Pool

Table 25 - (Continued).

FSP	10A			10			11		
Hours Fished	69.0			68.0			70.5		
Species	#	Catch/ hr	Biomass (lbs)	#	Catch/ hr	Biomass (lbs)	#	Catch/ hr	Biomass (lbs)
Rock bass	3	0.04	0.47	-	-	-	-	-	-
White sucker	4	0.06	3.34	-	-	-	-	-	-
Pumpkinseed	2	0.03	0.17	1	0.01	0.08	-	-	-
Yellow perch	-	-	-	-	-	-	-	-	-
Brown bullhead	1	0.01	0.13	-	-	-	-	-	-
Northern hog sucker	-	-	-	-	-	-	1	0.01	0.44
Walleye	-	-	-	-	-	-	-	-	-
Chain pickerel	-	-	-	-	-	-	-	-	-
Shorthead redhorse	-	-	-	-	-	-	-	-	-
Largemouth bass	-	-	-	-	-	-	-	-	-
Number of Fish and Biomass	10		4.11	1		0.08	1		0.44
Number of Fishes	4			1			1		
Catch Per Hour (Number and Biomass)		0.14	0.06		0.01	0.01		0.01	0.01

Species	Total Fishes Collected		Catch/hr	Biomass	
	#	%		lbs	%
Rock bass	28	35.4	0.04	6.19	18.5
White sucker	14	17.7	0.02	15.65	46.7
Pumpkinseed	10	12.7	0.02	0.86	2.6
Yellow perch	7	8.9	0.01	0.57	1.7
Brown bullhead	5	6.3	0.01	1.19	3.6
Northern hog sucker	5	6.3	0.01	3.27	9.8
Walleye	5	6.3	0.01	3.70	11.0
Chain pickerel	2	2.5	0.01	0.50	1.5
Shorthead redhorse	2	2.5	0.01	1.33	4.0
Largemouth bass	1	1.3	0.01	0.26	0.8
Number of Fish and Biomass	79			33.52	
Number of Fishes	10				
Catch Per Hour (Number and Biomass)			0.13	0.05	

Table 26. Fishes collected by trap net in August 1973 (380.0 hours), 1974 (277.0 hours), and 1975 (211.5 hours) in Walhalla Rocks pool and FSPs 9 and 10A in Schoharie Creek.

Date	Aug 1973					Aug 1974					Aug 1975				
Hours Fished	380.0					277.0					211.5				
	Collected		Catch Per	Biomass*		Collected		Catch Per	Biomass		Collected		Catch Per	Biomass	
Species	#	%	Hour	lbs	%	#	%	Hour	lbs	%	#	%	Hour	lbs	%
Rock bass	33	27.0	0.09			27	31.0	0.10	4.87	8.3	16	39.0	0.08	4.12	17.8
White sucker	32	26.2	0.08			30	34.5	0.11	44.03	75.3	14	34.1	0.07	15.65	67.7
Pumpkinseed	31	25.4	0.08			2	2.3	0.01	0.81	1.4	4	9.8	0.02	0.27	1.2
Walleye	7	5.7	0.02			1	1.1	0.01	2.06	3.5	1	2.4	0.01	0.50	2.2
Brown bullhead	6	4.9	0.02			13	14.9	0.05	1.25	2.1	2	4.9	0.01	0.57	2.5
Northern hog sucker	5	4.1	0.01			4	4.6	0.01	2.63	4.5	3	7.3	0.01	1.84	8.0
Redbreast sunfish	3	2.5	0.01			2	2.3	0.01	0.55	0.9	-	-	-	-	-
Fallfish	2	1.6	0.01			2	2.3	0.01	0.74	1.3	-	-	-	-	-
Yellow perch	2	1.6	0.01			-	-	-	-	-	-	-	-	-	-
Smallmouth bass	1	0.8	0.01			1	1.1	0.01	0.34	0.6	-	-	-	-	-
Carp	-	-	-			1	1.1	0.01	0.43	0.7	-	-	-	-	-
Stonecat	-	-	-			4	4.6	0.01	0.80	1.4	-	-	-	-	-
Chain pickerel	-	-	-			-	-	-	-	-	1	2.4	0.01	0.15	0.6
Total Number of Fish and Biomass	122					87			58.51		41			23.10	
Number of Fishes	10					11					7				
Catch Per Hour (Number and Biomass)			0.32					0.31	0.21				0.19	0.11	

* Biomass not recorded in 1973.

Table 27. Fishes collected by trap net in August 1975 in Schoharie Creek between Schoharie Reservoir and Lower B-G and between Lower B-G and the Walhalla Rocks.

Location	Between Schoharie Reservoir and Lower B-G (above L B-G)					Between Lower B-G and the Walhalla Rocks (below L B-G)				
FSPs* Sampled	10, 10A, 11					L B-G Spillway Pool, 1, 2, 8, 9, Walhalla Rocks				
Hours Fished	207.50					415.50				
	Collected		Catch Per	Biomass		Collected		Catch Per	Biomass	
Species	#	%	Hour	lbs	%	#	%	Hour	lbs	%
White sucker	4	33.3	0.02	3.34	72.1	10	14.9	0.02	12.31	42.6
Rock bass	3	25.0	0.01	0.47	10.2	25	37.3	0.06	5.72	19.8
Pumpkinseed	3	25.0	0.01	0.25	5.4	7	10.4	0.02	0.61	2.1
Brown bullhead	1	8.3	0.01	0.13	2.8	4	6.0	0.01	1.06	3.7
Northern hog sucker	1	8.3	0.01	0.44	9.5	4	6.0	0.01	2.83	9.8
Yellow perch	-	-	-	-	-	7	10.4	0.02	0.57	2.0
Walleye	-	-	-	-	-	5	7.5	0.01	3.70	12.8
Shorthead redhorse	-	-	-	-	-	2	3.0	0.01	1.33	4.6
Chain pickerel	-	-	-	-	-	2	3.0	0.01	0.50	1.7
Largemouth bass	-	-	-	-	-	1	1.5	0.01	0.26	0.9
Total Number of Fish and Biomass	12			4.63		67			28.89	
Number of Fishes	5					10				
Catch Per Hour (Number and Biomass)			0.06	0.02				0.16	0.07	

* FSP = Fish Sampling Pool

Table 28. Mean total length (mm) by month of each age group of pumpkinseed collected in 1975 in Lower and Upper B-G and Schoharie Creek.

Age		0+			1+			2+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C
Apr	ML[1]	-	-	-	-	-	-	116	-	-
	SD[2]	-	-	-	-	-	-	-	-	-
	R[3]	-	-	-	-	-	-	-	-	-
	N[4]	-	-	-	-	-	-	1	-	-
May	ML	-	-	-	-	105	-	127	123	-
	SD	-	-	-	-	-	-	8.5	9.3	-
	R	-	-	-	-	-	-	112-134	105-134	-
	N	-	-	-	-	1	-	5	8	-
Jun	ML	-	-	-	-	61	-	117	95	-
	SD	-	-	-	-	-	-	12.1	-	-
	R	-	-	-	-	-	-	95-136	-	-
	N	-	-	-	-	1	-	14	1	-
Jul	ML	-	-	-	-	75	-	126*	119*	-
	SD	-	-	-	-	6.4	-	13.4	9.7	-
	R	-	-	-	-	70-79	-	90-142	99-138	-
	N	-	-	-	-	2	-	38	27	-
Aug	ML	-	-	-	-	76	-	123	128	121
	SD	-	-	-	-	7.3	-	14.2	7.9	11.3
	R	-	-	-	-	63-95	-	96-139	108-142	102-136
	N	-	-	-	-	52	-	11	25	7
Sep	ML	46	-	-	-	81	-	121	129	-
	SD	5.3	-	-	-	6.4	-	10.9	3.3	-
	R	41-57	-	-	-	70-92	-	99-135	126-134	-
	N	11	-	-	-	16	-	14	5	-

Age		3+			4+			5+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C
Apr	ML	-	148	-	-	-	-	-	-	-
	SD	-	-	-	-	-	-	-	-	-
	R	-	-	-	-	-	-	-	-	-
	N	-	1	-	-	-	-	-	-	-
May	ML	130*	136*	-	-	156	-	-	155	-
	SD	9.1	8.0	-	-	10.8	-	-	-	-
	R	110-142	122-160	-	-	144-170	-	-	-	-
	N	18	27	-	-	4	-	-	1	-
Jun	ML	128	136	130	-	-	171	-	-	170
	SD	19.6	11.9	-	-	-	13.4	-	-	-
	R	99-167	114-157	-	-	-	161-180	-	-	-
	N	18	16	1	-	-	2	-	-	1
Jul	ML	132	136	-	153	150	-	-	-	-
	SD	16.0	7.2	-	9.9	-	-	-	-	-
	R	100-165	126-152	-	141-165	-	-	-	-	-
	N	37	11	-	4	1	-	-	-	-
Aug	ML	146*	139*	135	163	180	151	-	-	-
	SD	10.2	7.2	9.2	13.4	-	0.7	-	-	-
	R	124-168	123-152	119-146	153-172	-	150-151	-	-	-
	N	39	15	8	2	1	2	-	-	-
Sep	ML	145	139	-	162	154	-	166	-	-
	SD	8.3	5.9	-	7.7	-	-	-	-	-
	R	127-163	130-145	-	153-176	-	-	-	-	-
	N	37	7	-	6	1	-	1	-	-

1. ML = mean length (mm) 2. SD = standard deviation 3. R = range (mm) 4. N = number of fish
* Significant difference in mean total length between Lower and Upper B-G at the 0.05 or less alpha level from t-test.

Table 29. Mean weight (g) by month of each age group of pumpkinseed collected in 1975 in Lower and Upper B-G and Schoharie Creek.

Age		0+			1+			2+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C
Apr	MW[1]	-	-	-	-	-	-	28	-	-
	SD[2]	-	-	-	-	-	-	-	-	-
	R[3]	-	-	-	-	-	-	-	-	-
	N[4]	-	-	-	-	-	-	1	-	-
May	MW	-	-	-	-	15	-	35	30	-
	SD	-	-	-	-	-	-	8.6	7.1	-
	R	-	-	-	-	-	-	20-40	18-40	-
	N	-	-	-	-	1	-	5	8	-
Jun	MW	-	-	-	-	12	-	32	12	-
	SD	-	-	-	-	-	-	12.8	-	-
	R	-	-	-	-	-	-	17-60	-	-
	N	-	-	-	-	1	-	14	1	-
Jul	MW	-	-	-	-	4	-	39*	31*	-
	SD	-	-	-	-	-	-	11.6	8.5	-
	R	-	-	-	-	-	-	18-55	17-46	-
	N	-	-	-	-	2	-	38	27	-
Aug	MW	-	-	-	-	6	-	39	38	34
	SD	-	-	-	-	3.5	-	12.5	8.8	8.5
	R	-	-	-	-	1-15	-	16-55	21-58	21-46
	N	-	-	-	-	52	-	11	25	7
Sep	MW	1	-	-	-	6	-	31	38	-
	SD	0.0	-	-	-	3.7	-	10.1	6.1	-
	R	-	-	-	-	3-15	-	14-47	30-46	-
	N	11	-	-	-	16	-	14	5	-

Age		3+			4+			5+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C
Apr	MW	-	66	-	-	-	-	-	-	-
	SD	-	-	-	-	-	-	-	-	-
	R	-	-	-	-	-	-	-	-	-
	N	-	1	-	-	-	-	-	-	-
May	MW	39*	48*	-	-	71	-	-	76	-
	SD	8.4	9.6	-	-	22.1	-	-	-	-
	R	20-52	30-80	-	-	52-105	-	-	-	-
	N	18	27	-	-	4	-	-	1	-
Jun	MW	45	46	76	-	-	110	-	-	98
	SD	21.9	13.6	-	-	-	16.3	-	-	-
	R	20-90	28-72	-	-	-	98-121	-	-	-
	N	18	16	1	-	-	2	-	-	1
Jul	MW	46	47	-	74	58	-	-	-	-
	SD	17.5	7.0	-	17.7	-	-	-	-	-
	R	19-88	40-65	-	57-96	-	-	-	-	-
	N	37	11	-	4	1	-	-	-	-
Aug	MW	65*	51*	48	96	118	71	-	-	-
	SD	16.2	10.2	8.1	27.6	-	7.1	-	-	-
	R	34-101	36-66	34-56	76-115	-	66-76	-	-	-
	N	39	15	8	2	1	2	-	-	-
Sep	MW	57	51	-	85	74	-	90	-	-
	SD	12.0	7.4	-	21.6	-	-	-	-	-
	R	31-85	38-56	-	58-124	-	-	-	-	-
	N	37	7	-	6	1	-	1	-	-

1. MW = mean weight (g) 2. SD = standard deviation 3. R = range (g) 4. N = number of fish
* Significant difference in mean weight between Lower and Upper B-G at the 0.05 or less alpha level from t-test.

Table 30. Mean total length (mm) by month of each age group of redbreast sunfish collected in 1975 in Lower and Upper B-G and Schoharie Creek.

Age		2+			3+			4+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C
May	ML[1]	-	139	-	-	146	-	-	161	-
	SD[2]	-	4.6	-	-	-	-	-	-	-
	R[3]	-	134-145	-	-	-	-	-	-	-
	N[4]	-	4	-	-	1	-	-	1	-
Jun	ML	-	-	-	128	140	-	161	-	170
	SD	-	-	-	-	5.0	-	-	-	-
	R	-	-	-	-	135-146	-	-	-	-
	N	-	-	-	1	5	-	1	-	1
Jul	ML	-	131	-	-	144	146	-	-	-
	SD	-	6.0	-	-	6.7	-	-	-	-
	R	-	125-141	-	-	135-152	-	-	-	-
	N	-	7	-	-	6	1	-	-	-
Aug	ML	-	135	123	-	152	147	-	158	166
	SD	-	3.8	-	-	4.4	-	-	-	-
	R	-	131-138	-	-	149-157	-	-	-	-
	N	-	3	1	-	3	1	-	1	1
Sep	ML	-	-	-	120	-	-	-	140	-
	SD	-	-	-	-	-	-	-	-	-
	R	-	-	-	-	-	-	-	-	-
	N	-	-	-	1	-	-	-	1	-

1. ML = mean length (mm) 2. SD = standard deviation 3. R = range (mm) 4. N = number of fish

Table 31. Mean weight (g) by month of each age group of redbreast sunfish collected in 1975 in Lower and Upper B-G and Schoharie Creek.

Age		2+			3+			4+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C
May	MW[1]	-	51	-	-	55	-	-	82	-
	SD[2]	-	9.4	-	-	-	-	-	-	-
	R[3]	-	40-63	-	-	-	-	-	-	-
	N[4]	-	4	-	-	1	-	-	1	-
Jun	MW	-	-	-	35	54	-	88	-	88
	SD	-	-	-	-	7.1	-	-	-	-
	R	-	-	-	-	46-60	-	-	-	-
	N	-	-	-	1	5	-	1	-	1
Jul	MW	-	39	-	-	55	58	-	-	-
	SD	-	5.0	-	-	7.7	-	-	-	-
	R	-	31-47	-	-	46-66	-	-	-	-
	N	-	7	-	-	6	1	-	-	-
Aug	MW	-	45	35	-	68	70	-	80	90
	SD	-	11.2	-	-	10.6	-	-	-	-
	R	-	33-55	-	-	60-80	-	-	-	-
	N	-	3	1	-	3	1	-	1	1
Sep	MW	-	-	-	35	-	-	-	52	-
	SD	-	-	-	-	-	-	-	-	-
	R	-	-	-	-	-	-	-	-	-
	N	-	-	-	1	-	-	-	1	-

1. MW = mean weight (g) 2. SD = standard deviation 3. R = range (g) 4. N = number of fish

Table 32. Mean total length (mm) by month of each age group of yellow perch collected in 1975 in Lower and Upper B-G and Schoharie Creek.

Age		0+			1+			2+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C
Apr	ML[1]	-	-	-	-	-	-	-	-	-
	SD[2]	-	-	-	-	-	-	-	-	-
	R[3]	-	-	-	-	-	-	-	-	-
	N[4]	-	-	-	-	-	-	-	-	-
May	ML	-	-	-	-	-	-	-	100	-
	SD	-	-	-	-	-	-	-	-	-
	R	-	-	-	-	-	-	-	-	-
	N	-	-	-	-	-	-	-	1	-
Jun	ML	-	-	-	-	86	-	147*	190*	170
	SD	-	-	-	-	-	-	31.4	17.5	-
	R	-	-	-	-	-	-	124-198	159-203	-
	N	-	-	-	-	1	-	5	5	1
Jul	ML	-	-	-	110	123	-	142*	180*	180
	SD	-	-	-	2.8	9.8	-	20.4	26.8	9.6
	R	-	-	-	108-112	95-138	-	118-186	120-215	171-190
	N	-	-	-	2	22	-	14	29	3
Aug	ML	-	80	-	126	128	113	146	156	174
	SD	-	5.7	-	-	8.1	-	-	23.8	4.6
	R	-	76-84	-	-	118-139	-	-	140-191	169-178
	N	-	2	-	1	7	1	1	4	3
Sep	ML	81	89	-	-	-	-	179*	197*	175
	SD	5.1	0.7	-	-	-	-	19.8	5.4	-
	R	76-90	88-89	-	-	-	-	165-193	190-205	-
	N	6	2	-	-	-	-	2	7	1

Age		3+			4+			5+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C
Apr	ML	174*	189*	-	-	-	-	-	-	-
	SD	11.3	8.9	-	-	-	-	-	-	-
	R	166-182	165-210	-	-	-	-	-	-	-
	N	2	44	-	-	-	-	-	-	-
May	ML	198	204	-	-	213	-	-	224	-
	SD	6.3	7.0	-	-	7.1	-	-	-	-
	R	190-202	192-220	-	-	200-230	-	-	-	-
	N	6	18	-	-	30	-	-	1	-
Jun	ML	199*	212*	-	207	-	-	-	-	-
	SD	7.1	10.6	-	-	-	-	-	-	-
	R	185-209	195-240	-	-	-	-	-	-	-
	N	9	14	-	1	-	-	-	-	-
Jul	ML	192*	207*	-	-	207	-	-	-	-
	SD	14.0	10.5	-	-	2.1	-	-	-	-
	R	178-215	180-229	-	-	205-209	-	-	-	-
	N	5	28	-	-	3	-	-	-	-
Aug	ML	197	202	186	-	245	-	-	-	-
	SD	-	14.3	9.6	-	-	-	-	-	-
	R	-	189-222	175-193	-	-	-	-	-	-
	N	1	4	3	-	1	-	-	-	-
Sep	ML	-	216	-	-	-	-	-	-	-
	SD	-	9.5	-	-	-	-	-	-	-
	R	-	200-231	-	-	-	-	-	-	-
	N	-	20	-	-	-	-	-	-	-

1. ML = mean length (mm) 2. SD = standard deviation 3. R = range (mm) 4. N = number of fish
* Significant difference in mean total length between Lower and Upper B-G at the 0.05 or less alpha level from t-test.

Table 33. Mean weight (g) by month of each age group of yellow perch collected in 1975 in Lower and Upper B-G and Schoharie Creek.

Age		0+			1+			2+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C
Apr	MW[1]	-	-	-	-	-	-	-	-	-
	SD[2]	-	-	-	-	-	-	-	-	-
	R[3]	-	-	-	-	-	-	-	-	-
	N[4]	-	-	-	-	-	-	-	-	-
May	MW	-	-	-	-	-	-	-	10	-
	SD	-	-	-	-	-	-	-	-	-
	R	-	-	-	-	-	-	-	-	-
	N	-	-	-	-	-	-	-	1	-
Jun	MW	-	-	-	-	4	-	39*	82*	56
	SD	-	-	-	-	-	-	30.5	22.5	-
	R	-	-	-	-	-	-	20-92	43-100	-
	N	-	-	-	-	1	-	5	5	1
Jul	MW	-	-	-	16	21	-	36*	67*	58
	SD	-	-	-	0.7	5.2	-	16.7	24.9	11.9
	R	-	-	-	15-16	8-28	-	18-80	20-105	51-72
	N	-	-	-	2	22	-	14	29	3
Aug	MW	-	3	-	18	24	18	62	45	49
	SD	-	0.7	-	-	4.7	-	-	23.3	4.0
	R	-	2-3	-	-	18-29	-	-	30-79	45-53
	N	-	2	-	1	7	1	1	4	3
Sep	MW	5	7	-	-	-	-	65	82	50
	SD	1.9	1.4	-	-	-	-	16.3	9.9	-
	R	2-7	6-8	-	-	-	-	53-76	70-95	-
	N	6	2	-	-	-	-	2	7	1

Age		3+			4+			5+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C
Apr	MW	70	89	-	-	-	-	-	-	-
	SD	16.8	16.2	-	-	-	-	-	-	-
	R	58-82	68-129	-	-	-	-	-	-	-
	N	2	44	-	-	-	-	-	-	-
May	MW	87	98	-	-	111	-	-	154	-
	SD	18.0	10.3	-	-	15.8	-	-	-	-
	R	51-97	80-120	-	-	87-142	-	-	-	-
	N	6	18	-	-	30	-	-	1	-
Jun	MW	89*	108*	-	100	-	-	-	-	-
	SD	7.9	17.1	-	-	-	-	-	-	-
	R	72-100	90-154	-	-	-	-	-	-	-
	N	9	14	-	1	-	-	-	-	-
Jul	MW	90	98	-	93	-	-	-	-	-
	SD	23.1	18.6	-	6.2	-	-	-	-	-
	R	75-130	62-132	-	86-98	-	-	-	-	-
	N	5	28	-	3	-	-	-	-	-
Aug	MW	86	104	62	-	160	-	-	-	-
	SD	-	25.2	11.7	-	-	-	-	-	-
	R	-	90-142	52-75	-	-	-	-	-	-
	N	1	4	3	-	1	-	-	-	-
Sep	MW	-	114	-	-	-	-	-	-	-
	SD	-	18.4	-	-	-	-	-	-	-
	R	-	88-144	-	-	-	-	-	-	-
	N	-	20	-	-	-	-	-	-	-

1. MW = mean weight (g) 2. SD = standard deviation 3. R = range (g) 4. N = number of fish
* Significant difference in mean weight between Lower and Upper B-G at the 0.05 or less alpha level from t-test.

Table 34. Mean total length (mm) by month of each age group of rock bass collected in 1975 in Lower and Upper B-G and Schoharie Creek.

Age		2+			3+			4+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C
Apr	ML[1]	-	-	-	168	-	-	-	-	-
	SD[2]	-	-	-	4.2	-	-	-	-	-
	R[3]	-	-	-	165-178	-	-	-	-	-
	N[4]	-	-	-	2	-	-	-	-	-
May	ML	-	100	-	124	137	-	183	154	-
	SD	-	0.0	-	15.6	6.2	-	-	12.0	-
	R	-	-	-	115-142	131-150	-	-	145-162	-
	N	-	2	-	3	7	-	1	2	-
Jun	ML	122	106	-	130	137	138	166	-	181
	SD	9.2	-	-	23.5	18.8	32.5	16.8	-	18.8
	R	115-128	-	-	87-163	110-154	105-170	140-197	-	160-205
	N	2	1	-	11	4	3	11	-	4
Jul	ML	-	132	-	145	146	181	169	-	160
	SD	-	9.2	-	28.5	4.0	24.8	12.3	-	-
	R	-	125-138	-	105-176	141-150	156-212	146-188	-	-
	N	-	2	-	7	4	4	11	-	1
Aug	ML	108	-	118	144	-	153	-	-	185
	SD	-	-	14.1	23.2	-	14.4	-	-	18.4
	R	-	-	108-128	121-170	-	126-181	-	-	158-213
	N	1	-	2	5	-	19	-	-	11
Sep	ML	-	-	-	142	-	-	-	-	-
	SD	-	-	-	10.5	-	-	-	-	-
	R	-	-	-	128-152	-	-	-	-	-
	N	-	-	-	4	-	-	-	-	-

Age		5+			6+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C
Apr	ML	-	-	-	-	-	-
	SD	-	-	-	-	-	-
	R	-	-	-	-	-	-
	N	-	-	-	-	-	-
May	ML	233	-	-	-	-	-
	SD	-	-	-	-	-	-
	R	-	-	-	-	-	-
	N	1	-	-	-	-	-
Jun	ML	185	-	190	-	-	-
	SD	25.5	-	-	-	-	-
	R	167-203	-	-	-	-	-
	N	2	-	1	-	-	-
Jul	ML	197	-	-	-	-	-
	SD	5.0	-	-	-	-	-
	R	193-200	-	-	-	-	-
	N	2	-	-	-	-	-
Aug	ML	-	-	212	-	-	232
	SD	-	-	14.3	-	-	-
	R	-	-	200-226	-	-	-
	N	-	-	3	-	-	1
Sep	ML	180	-	-	-	-	-
	SD	-	-	-	-	-	-
	R	-	-	-	-	-	-
	N	1	-	-	-	-	-

1. ML = mean length (mm) 2. SD = standard deviation 3. R = range (mm) 4. N = number of fish

Table 35. Mean weight (g) by month of each age group of rock bass collected in 1975 in Lower and Upper B-G and Schoharie Creek.

Age		2+			3+			4+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C
Apr	MW[1]	-	-	-	87	-	-	-	-	-
	SD[2]	-	-	-	4.4	-	-	-	-	-
	R[3]	-	-	-	84-90	-	-	-	-	-
	N[4]	-	-	-	2	-	-	-	-	-
May	MW	-	24	-	36	50	-	120	66	-
	SD	-	2.1	-	20.9	6.1	-	-	5.7	-
	R	-	22-25	-	22-60	40-64	-	-	62-70	-
	N	-	2	-	3	7	-	1	2	-
Jun	MW	34	26	-	46	51	62	90	-	127
	SD	11.3	-	-	26.1	17.5	36.9	24.5	-	46.4
	R	26-42	-	-	10-92	25-60	29-102	64-136	-	94-193
	N	2	1	-	11	4	3	11	-	4
Jul	MW	-	43	-	64	57	137	96	-	82
	SD	-	9.9	-	31.2	12.2	58.9	24.5	-	-
	R	-	36-50	-	20-102	46-69	86-219	63-136	-	-
	N	-	2	-	7	4	4	11	-	1
Aug	MW	23	-	31	59	-	70	-	-	131
	SD	-	-	12.0	28.0	-	20.8	-	-	49.1
	R	-	-	22-39	38-101	-	40-111	-	-	72-209
	N	1	-	2	5	-	19	-	-	11
Sep	MW	-	-	-	54	-	-	-	-	-
	SD	-	-	-	11.6	-	-	-	-	-
	R	-	-	-	43-70	-	-	-	-	-
	N	-	-	-	4	-	-	-	-	-

Age		5+			6+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C
Apr	MW	-	-	-	-	-	-
	SD	-	-	-	-	-	-
	R	-	-	-	-	-	-
	N	-	-	-	-	-	-
May	MW	310	-	-	-	-	-
	SD	-	-	-	-	-	-
	R	-	-	-	-	-	-
	N	1	-	-	-	-	-
Jun	MW	128	-	138	-	-	-
	SD	42.4	-	-	-	-	-
	R	98-158	-	-	-	-	-
	N	2	-	1	-	-	-
Jul	MW	155	-	-	-	-	-
	SD	12.0	-	-	-	-	-
	R	146-163	-	-	-	-	-
	N	2	-	-	-	-	-
Aug	MW	-	-	200	-	-	264
	SD	-	-	53.2	-	-	-
	R	-	-	158-160	-	-	-
	N	-	-	3	-	-	1
Sep	MW	116	-	-	-	-	-
	SD	-	-	-	-	-	-
	R	-	-	-	-	-	-
	N	1	-	-	-	-	-

1. MW = mean weight (g) 2. SD = standard deviation 3. R = range (g) 4. N = number of fish

Table 36. Mean total length (mm) by month of each age group of largemouth bass collected in 1975 in Lower B-G and Schoharie Creek.

Age		0+		1+		2+		3+		4+		5+	
Location		L B-G	S C	L B-G	S C	L B-G	S C	L B-G	S C	L B-G	S C	L B-G	S C
Apr	ML[1]	-	-	-	-	-	-	-	-	330	-	-	-
	SD[2]	-	-	-	-	-	-	-	-	-	-	-	-
	R[3]	-	-	-	-	-	-	-	-	-	-	-	-
	N[4]	-	-	-	-	-	-	-	-	1	-	-	-
Jun	ML	-	-	-	-	191	-	268	295	367	305	-	-
	SD	-	-	-	-	62.9	-	3.5	-	32.5	-	-	-
	R	-	-	-	-	146-235	-	265-270	-	344-390	-	-	-
	N	-	-	-	-	2	-	2	1	2	1	-	-
Jul	ML	-	-	-	-	-	-	280	-	334	-	-	-
	SD	-	-	-	-	-	-	14.1	-	-	-	-	-
	R	-	-	-	-	-	-	270-290	-	-	-	-	-
	N	-	-	-	-	-	-	2	-	1	-	-	-
Aug	ML	86	-	-	-	-	-	235	217	-	-	-	-
	SD	-	-	-	-	-	-	-	-	-	-	-	-
	R	-	-	-	-	-	-	-	-	-	-	-	-
	N	1	-	-	-	-	-	1	1	-	-	-	-
Sep	ML	-	-	110	-	167	-	208	-	-	-	323	-
	SD	-	-	-	-	-	-	-	-	-	-	-	-
	R	-	-	-	-	-	-	-	-	-	-	-	-
	N	-	-	1	-	1	-	1	-	-	-	1	-

1. ML = mean length (mm) 2. SD = standard deviation 3. R = range (mm) N = number of fish

Table 37. Mean weight (g) by month of each age group of largemouth bass collected in 1975 in Lower B-G and Schoharie Creek.

Age		0+		1+		2+		3+		4+		5+	
Location		L B-G	S C	L B-G	S C	L B-G	S C	L B-G	S C	L B-G	S C	L B-G	S C
Apr	MW[1]	-	-	-	-	-	-	-	-	566	-	-	-
	SD[2]	-	-	-	-	-	-	-	-	-	-	-	-
	R[3]	-	-	-	-	-	-	-	-	-	-	-	-
	N[4]	-	-	-	-	-	-	-	-	1	-	-	-
Jun	MW	-	-	-	-	119	-	250	303	459	428	-	-
	SD	-	-	-	-	57.3	-	20.9	-	116.0	-	-	-
	R	-	-	-	-	78-159	-	228-236	-	376-540	-	-	-
	N	-	-	-	-	2	-	2	1	2	1	-	-
Jul	MW	-	-	-	-	-	-	269	-	321	-	-	-
	SD	-	-	-	-	-	-	54.5	-	-	-	-	-
	R	-	-	-	-	-	-	250-307	-	-	-	-	-
	N	-	-	-	-	-	-	2	-	1	-	-	-
Aug	MW	2	-	-	-	-	-	184	116	-	-	-	-
	SD	-	-	-	-	-	-	-	-	-	-	-	-
	R	-	-	-	-	-	-	-	-	-	-	-	-
	N	1	-	-	-	-	-	1	1	-	-	-	-
Sep	MW	-	-	14	-	60	-	112	-	-	-	458	-
	SD	-	-	-	-	-	-	-	-	-	-	-	-
	R	-	-	-	-	-	-	-	-	-	-	-	-
	N	-	-	1	-	1	-	1	-	-	-	1	-

1. MW = mean weight (g) 2. SD = standard deviation 3. R = range (g) 4. N = number of fish

Table 38. Mean total length (mm) by month of each age group of smallmouth bass collected in 1975 in Lower B-G and Schoharie Creek.

Age		0+		1+		2+		3+			4+		5+	
Location		L B-G	S C	L B-G	S C	L B-G	S C	L B-G	S C		L B-G	S C	L B-G	S C
Apr	ML[1]	-	-	-	-	107	-	-	-	L	350	-	-	-
	SD[2]	-	-	-	-	-	-	-	-	D	-	-	-	-
	R[3]	-	-	-	-	-	-	-	-		-	-	-	-
	N[4]	-	-	-	-	1	-	-	-		1	-	-	-
Jun	ML	-	-	-	-	188	-	233	-	L	303	-	409	-
	SD	-	-	-	-	11.9	-	37.4	-	D	48.8	-	-	-
	R	-	-	-	-	177-208	-	178-285	-		247-381	-	-	-
	N	-	-	-	-	6	-	16	-		8	-	1	-
Jul	ML	-	-	144	-	197	230	227	258	L	305	330	381	-
	SD	-	-	7.2	-	10.2	-	31.3	20.8	D	41.1	-	-	-
	R	-	-	136-155	-	180-212	-	186-294	230-285		238-372	-	-	-
	N	-	-	5	-	12	1	17	5		7	1	1	-
Aug	ML	-	-	163	-	209	-	250	257	L	-	289	365	324
	SD	-	-	17.7	-	13.7	-	23.9	21.9	D	-	-	14.1	12.7
	R	-	-	150-175	-	176-223	-	211-297	241-272		-	-	355-375	315-333
	N	-	-	2	-	20	-	17	2		-	1	2	2
Sep	ML	55	-	113	-	199	-	223	-	L	-	-	-	-
	SD	4.7	-	4.9	-	-	-	0.7	-	D	-	-	-	-
	R	49-60	-	109-116	-	-	-	222-223	-		-	-	-	-
	N	16	-	2	-	1	-	2	-		-	-	-	-

1. ML = mean length (mm) 2. SD = standard deviation 3. R = range (mm) N = number of fish

Table 39. Mean weight (g) by month of each age group of smallmouth bass collected in 1975 in Lower B-G and Schoharie Creek.

Age		0+		1+		2+		3+		4+		5+	
Location		L B-G	S C	L B-G	S C	L B-G	S C	L B-G	S C	L B-G	S C	L B-G	S C
Apr	MW[1]	-	-	-	-	28	-	-	-	510	-	-	-
	SD[2]	-	-	-	-	-	-	-	-	-	-	-	-
	R[3]	-	-	-	-	-	-	-	-	-	-	-	-
	N[4]	-	-	-	-	1	-	-	-	1	-	-	-
Jun	MW	-	-	-	-	81	-	168	-	372	-	835	-
	SD	-	-	-	-	17.8	-	80.9	-	189.9	-	-	-
	R	-	-	-	-	67-114	-	70-310	-	190-690	-	-	-
	N	-	-	-	-	6	-	16	-	8	-	1	-
Jul	MW	-	-	40	-	93	137	150	220	366	402	880	-
	SD	-	-	4.8	-	14.6	-	65.6	57.3	154.3	-	-	-
	R	-	-	36-48	-	72-122	-	82-298	149-304	164-652	-	-	-
	N	-	-	5	-	12	1	17	5	7	1	1	-
Aug	MW	-	-	58	-	114	-	190	215	-	309	669	416
	SD	-	-	18.4	-	23.4	-	48.0	44.5	-	-	32.5	57.3
	R	-	-	45-71	-	69-151	-	117-272	183-246	-	-	646-692	375-456
	N	-	-	2	-	20	-	17	2	-	1	2	2
Sep	MW	3	-	17	-	92	-	148	-	-	-	-	-
	SD	1.1	-	0.7	-	-	-	11.3	-	-	-	-	-
	R	1-4	-	16-17	-	-	-	140-156	-	-	-	-	-
	N	16	-	2	-	1	-	2	-	-	-	-	-

1. MW = mean weight (g) 2. SD = standard deviation 3. R = range (g) 4. N = number of fish

Table 40. Mean total length (mm) by month of each age group of walleye collected in 1975 in Lower and Upper B-G and Schoharie Creek.

Age		1+			2+			3+			4+			5+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C
Apr	ML[1]	-	-	-	275	-	-	-	-	-	-	-	-	-	-	-
	SD[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	R[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N[4]	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
May	ML	-	-	-	-	220	-	310	312	-	-	-	-	-	-	-
	SD	-	-	-	-	-	-	-	12.4	-	-	-	-	-	-	-
	R	-	-	-	-	-	-	-	304-326	-	-	-	-	-	-	-
	N	-	-	-	-	1	-	1	3	-	-	-	-	-	-	-
Jun	ML	-	-	-	269	233	-	291	327	-	-	-	372	-	-	535
	SD	-	-	-	29.2	-	-	35.7	1.2	-	-	-	5.0	-	-	-
	R	-	-	-	242-300	-	-	248-371	326-328	-	-	-	368-375	-	-	-
	N	-	-	-	3	1	-	18	3	-	-	-	2	-	-	1
Jul	ML	-	-	-	262	250	-	342	-	-	-	388	-	-	-	483
	SD	-	-	-	-	6.9	-	43.3	-	-	-	-	-	-	-	88.4
	R	-	-	-	-	240-261	-	276-409	-	-	-	-	-	-	-	420-545
	N	-	-	-	1	9	-	8	-	-	-	1	-	-	-	2
Aug	ML	-	-	306	291	-	317	-	-	402	-	-	-	-	-	-
	SD	-	-	-	58.0	-	27.2	-	-	25.8	-	-	-	-	-	-
	R	-	-	-	250-332	-	288-396	-	-	346-432	-	-	-	-	-	-
	N	-	-	1	2	-	12	-	-	8	-	-	-	-	-	-
Sep	ML	157	-	-	-	330	396	-	439	-	-	-	-	-	-	-
	SD	-	-	-	-	11.4	-	-	9.9	-	-	-	-	-	-	-
	R	-	-	-	-	320-346	-	-	432-446	-	-	-	-	-	-	-
	N	1	-	-	-	5	1	-	2	-	-	-	-	-	-	-

1. ML = mean length (mm) 2. SD = standard deviation 3. R = range (mm) 4. N = number of fish

Table 41. Mean weight (g) by month of each age group of walleye collected in 1975 in Lower and Upper B-G and Schoharie Creek.

Age		1+			2+			3+			4+			5+		
Location		L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C	L B-G	U B-G	S C
Apr	MW[1]	-	-	-	252	-	-	-	-	-	-	-	-	-	-	-
	SD[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	R[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	N[4]	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
May	MW	-	-	-	-	102	-	260	277	-	-	-	-	-	-	-
	SD	-	-	-	-	-	-	-	28.3	-	-	-	-	-	-	-
	R	-	-	-	-	-	-	-	260-310	-	-	-	-	-	-	-
	N	-	-	-	-	1	-	1	3	-	-	-	-	-	-	-
Jun	MW	-	-	-	168	120	-	294	331	-	-	-	398	-	-	750
	SD	-	-	-	51.0	-	-	43.9	18.6	-	-	-	46.0	-	-	-
	R	-	-	-	130-226	-	-	120-424	310-341	-	-	-	365-430	-	-	-
	N	-	-	-	3	1	-	18	3	-	-	-	2	-	-	1
Jul	MW	-	-	-	126	134	-	328	-	-	-	600	-	-	-	545
	SD	-	-	-	-	10.7	-	133.0	-	-	-	-	-	-	-	93.3
	R	-	-	-	-	115-147	-	73-578	-	-	-	-	-	-	-	479-611
	N	-	-	-	1	9	-	8	-	-	-	1	-	-	-	2
Aug	MW	-	-	28	207	-	247	-	-	485	-	-	-	-	-	-
	SD	-	-	-	43.8	-	78.0	-	-	63.1	-	-	-	-	-	-
	R	-	-	-	176-238	-	164-478	-	-	344-539	-	-	-	-	-	-
	N	-	-	1	2	-	12	-	-	8	-	-	-	-	-	-
Sep	MW	32	-	-	-	321	478	-	830	-	-	-	-	-	-	-
	SD	-	-	-	-	24.1	-	-	0.0	-	-	-	-	-	-	-
	R	-	-	-	-	280-355	-	-	-	-	-	-	-	-	-	-
	N	1	-	-	-	5	1	-	2	-	-	-	-	-	-	-

1. MW = mean weight (g) 2. SD = standard deviation 3. R = range (g) 4. N = number of fish

Table 42. Age class abundance of fishes captured in 1975 in Lower and Upper B-G.

Age	0+		1+		2+		3+		4+		5+		Total
	#	%	#	%	#	%	#	%	#	%	#	%	
Pumpkinseed													
L B-G	11	4.3	-	-	83	32.4	149	58.2	12	4.7	1	0.4	256
U B-G	-	-	72	32.3	66	29.6	71	34.5	7	3.1	1	0.4	223
Rock bass													
L B-G	-	-	-	-	3	4.7	32	50.0	23	35.9	6	9.4	64
U B-G	-	-	-	-	5	22.7	15	68.2	2	9.1	-	-	22
Yellow perch													
L B-G	6	10.9	3	5.5	22	40.0	23	41.8	1	1.8	-	-	55
U B-G	4	1.7	30	12.4	46	19.0	128	52.9	33	13.6	1	0.4	242
Walleye													
L B-G	-	-	1	2.9	7	20.0	27	77.1	-	-	-	-	35
U B-G	-	-	-	-	16	64.0	8	32.0	1	4.0	-	-	25
Redbreast sunfish													
L B-G	-	-	-	-	-	-	2	66.7	1	33.3	-	-	3
U B-G	-	-	-	-	14	43.8	15	46.9	3	9.4	-	-	32
Largemouth bass													
L B-G	1	6.3	1	6.3	3	18.8	6	37.5	4	25.0	1	6.3	16
Smallmouth bass													
L B-G	16	11.7	9	6.6	40	29.2	52	38.0	16	11.7	4	2.9	137

Table 43. Mean total length (mm) by month of each age group of pumpkinseed collected in 1974 and 1975 in Lower B-G.

Age		0+		1+		2+		3+		4+		5+	
Date		1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975
Apr	ML[1]	-	-	63	-	90	116	138	-	166	-	-	-
	SD[2]	-	-	-	-	23.8	-	18.0	-	-	-	-	-
	R[3]	-	-	-	-	57-134	-	124-158	-	-	-	-	-
	N[4]	-	-	1	-	10	1	3	-	1	-	-	-
May	ML	-	-	-	-	95*	127*	120*	130*	143	-	-	-
	SD	-	-	-	-	14.5	8.5	8.6	9.1	14.3	-	-	-
	R	-	-	-	-	60-132	112-134	110-154	110-142	117-160	-	-	-
	N	-	-	-	-	237	5	105	18	24	-	-	-
Jun	ML	-	-	-	-	103*	117*	143	128	157	-	-	-
	SD	-	-	-	-	20.0	12.1	18.9	19.6	-	-	-	-
	R	-	-	-	-	63-135	95-136	126-161	99-167	-	-	-	-
	N	-	-	-	-	95	14	8	18	1	-	-	-
Jul	ML	-	-	-	-	99*	126*	133	132	-	153	-	-
	SD	-	-	-	-	17.5	13.4	21.2	16.0	-	9.9	-	-
	R	-	-	-	-	77-131	90-142	97-175	100-165	-	141-165	-	-
	N	-	-	-	-	183	38	24	37	-	4	-	-
Aug	ML	-	-	102	-	110*	123*	144	146	-	163	-	-
	SD	-	-	9.6	-	15.2	14.2	12.1	10.2	-	13.4	-	-
	R	-	-	78-115	-	68-151	96-139	125-160	124-168	-	153-172	-	-
	N	-	-	12	-	218	11	7	39	-	2	-	-
Sep	ML	-	46	102	-	119	121	140	145	-	162	-	166
	SD	-	5.3	8.3	-	9.7	10.9	11.7	8.3	-	7.7	-	-
	R	-	41-57	93-109	-	86-135	99-135	130-158	127-163	-	153-176	-	-
	N	-	11	4	-	79	14	7	37	-	6	-	1

1. ML = mean length (mm) 2. SD = standard deviation 3. R = range (mm) 4. N = number of fish
* Significant difference in mean total length between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 44. Mean weight (g) by month of each age group of pumpkinseed collected in 1974 and 1975 in Lower B-G.

Age		0+		1+		2+		3+		4+		5+	
Date		1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975
Apr	MW[1]	-	-	3	-	15	28	49	-	86	-	-	-
	SD[2]	-	-	-	-	15.0	-	17.4	-	-	-	-	-
	R[3]	-	-	-	-	3-48	-	34-68	-	-	-	-	-
	N[4]	-	-	1	-	10	1	3	-	1	-	-	-
May	MW	-	-	-	-	17*	35*	34*	39*	62	-	-	-
	SD	-	-	-	-	10.9	8.6	9.1	8.4	10.0	-	-	-
	R	-	-	-	-	3-44	20-40	16-76	20-52	30-92	-	-	-
	N	-	-	-	-	237	5	105	18	24	-	-	-
Jun	MW	-	-	-	-	22*	32*	61	45	85	-	-	-
	SD	-	-	-	-	13.1	12.8	24.0	21.9	-	-	-	-
	R	-	-	-	-	4-46	17-60	28-88	20-90	-	-	-	-
	N	-	-	-	-	95	14	8	18	1	-	-	-
Jul	MW	-	-	-	-	21*	39*	51	46	-	74	-	-
	SD	-	-	-	-	13.9	11.6	25.2	17.5	-	17.7	-	-
	R	-	-	-	-	7-56	18-55	19-126	19-88	-	57-96	-	-
	N	-	-	-	-	183	38	24	37	-	4	-	-
Aug	MW	-	-	20	-	26*	39*	57	65	-	96	-	-
	SD	-	-	5.9	-	10.7	12.5	15.1	16.2	-	27.6	-	-
	R	-	-	7-30	-	5-56	16-55	40-73	34-101	-	76-115	-	-
	N	-	-	12	-	218	11	7	39	-	2	-	-
Sep	MW	-	1	20	-	34	31	63	57	-	85	-	90
	SD	-	0.0	6.6	-	9.1	10.1	19.8	12.0	-	21.6	-	-
	R	-	-	13-27	-	15-52	14-47	45-109	31-85	-	58-124	-	-
	N	-	11	4	-	79	14	7	37	-	6	-	1

1. MW = mean weight (g) 2. SD = standard deviation 3. R = range (g) 4. N = number of fish
* Significant difference in mean weight between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 45. Mean total length (mm) by month of each age group of yellow perch collected in 1974 and 1975 in Lower B-G.

Age		0+		1+		2+		3+		4+	
Date		1974	1975	1974	1975	1974	1975	1974	1975	1974	1975
Apr	ML[1]	-	-	-	-	193	-	215	174	-	-
	SD[2]	-	-	-	-	5.0	-	-	11.3	-	-
	R[3]	-	-	-	-	186-202	-	-	166-182	-	-
	N[4]	-	-	-	-	9	-	1	2	-	-
May	ML	-	-	76	-	134	-	195	198	-	-
	SD	-	-	7.4	-	10.5	-	8.3	6.3	-	-
	R	-	-	60-91	-	112-144	-	178-204	190-202	-	-
	N	-	-	27	-	8	-	11	6	-	-
Jun	ML	-	-	88	-	206*	147*	234*	199*	-	207
	SD	-	-	1.5	-	12.0	31.4	37.5	7.1	-	-
	R	-	-	86-89	-	193-214	124-198	207-260	185-209	-	-
	N	-	-	2	-	8	4	2	9	-	1
Jul	ML	-	-	135	110	164*	142*	210	192	-	-
	SD	-	-	-	2.8	18.0	20.4	23.2	14.0	-	-
	R	-	-	-	108-112	151-201	118-186	197-245	178-215	-	-
	N	-	-	1	2	12	14	4	5	-	-
Aug	ML	-	-	185	126	-	146	-	197	-	-
	SD	-	-	13.4	-	-	-	-	-	-	-
	R	-	-	175-194	-	-	-	-	-	-	-
	N	-	-	2	1	-	1	-	1	-	-
Sep	ML	-	81	-	-	183	179	-	-	-	-
	SD	-	5.1	-	-	-	19.8	-	-	-	-
	R	-	76-90	-	-	-	165-193	-	-	-	-
	N	-	6	-	-	1	2	-	-	-	-

1. ML = mean length (mm) 2. SD = standard deviation 3. R = range (mm) 4. N = number of fish
* Significant difference in mean total length between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 46. Mean weight (g) by month of each age group of yellow perch collected in 1974 and 1975 in Lower B-G.

Age		0+		1+		2+		3+		4+	
Date		1974	1975	1974	1975	1974	1975	1974	1975	1974	1975
Apr	MW[1]	-	-	-	-	84	-	116	70	-	-
	SD[2]	-	-	-	-	8.7	-	-	16.8	-	-
	R[3]	-	-	-	-	74-102	-	-	58-82	-	-
	N[4]	-	-	-	-	9	-	1	2	-	-
May	MW	-	-	5	-	25	-	91	87	-	-
	SD	-	-	1.3	-	6.2	-	12.5	18.0	-	-
	R	-	-	3-7	-	16-32	-	69-108	51-97	-	-
	N	-	-	27	-	8	-	11	6	-	-
Jun	MW	-	-	8	-	114*	40*	94	89	-	100
	SD	-	-	0.7	-	22.6	30.5	6.5	7.9	-	-
	R	-	-	7-8	-	90-141	20-92	90-99	72-100	-	-
	N	-	-	2	-	8	4	2	9	-	1
Jul	MW	-	-	31	16	55*	36*	104	90	-	-
	SD	-	-	-	0.7	14.8	16.7	27.7	33.1	-	-
	R	-	-	-	15-16	39-80	18-80	84-145	75-130	-	-
	N	-	-	1	2	12	14	4	5	-	-
Aug	MW	-	-	69	18	-	62	-	86	-	-
	SD	-	-	20.2	-	-	-	-	-	-	-
	R	-	-	55-83	-	-	-	-	-	-	-
	N	-	-	2	1	-	1	-	1	-	-
Sep	MW	-	5	-	-	94	65	-	-	-	-
	SD	-	1.9	-	-	-	16.3	-	-	-	-
	R	-	2-7	-	-	-	53-76	-	-	-	-
	N	-	6	-	-	1	2	-	-	-	-

1. MW = mean weight (g) 2. SD = standard deviation 3. R = range (g) 4. N = number of fish
* Significant difference in mean weight between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 47. Mean total length (mm) by month of each age group of rock bass collected in 1974 and 1975 in Lower B-G.

Age		1+		2+		3+		4+		5+	
Date		1974	1975	1974	1975	1974	1975	1974	1975	1974	1975
Apr	ML[1]	-	-	82	-	153	168	187	-	-	-
	SD[2]	-	-	-	-	7.0	4.2	7.0	-	-	-
	R[3]	-	-	-	-	143-158	165-178	179-193	-	-	-
	N[4]	-	-	1	-	2	2	3	-	-	-
May	ML	-	-	74	-	143*	124*	175	183	216	233
	SD	-	-	8.0	-	10.7	15.6	9.1	-	-	-
	R	-	-	64-91	-	127-175	115-142	169-191	-	-	-
	N	-	-	16	-	43	3	6	1	1	1
Jun	ML	-	-	66*	122*	147	130	-	166	-	185
	SD	-	-	0.7	9.2	2.9	23.5	-	16.8	-	25.5
	R	-	-	65-66	115-128	144-149	87-163	-	140-197	-	167-203
	N	-	-	2	2	3	11	-	11	-	2
Jul	ML	-	-	99	-	161	145	186*	169*	230	197
	SD	-	-	12.7	-	23.1	28.5	11.8	14.3	-	5.0
	R	-	-	90-108	-	125-198	105-176	175-215	146-188	-	193-200
	N	-	-	2	-	12	7	9	11	1	2
Aug	ML	74	-	120	108	170*	144*	223	-	238	-
	SD	-	-	21.8	-	12.9	23.2	13.1	-	8.5	-
	R	-	-	74-155	-	140-194	121-170	208-232	-	232-244	-
	N	1	-	15	1	16	5	3	-	2	-
Sep	ML	-	-	80	-	-	142	-	-	-	180
	SD	-	-	-	-	-	10.5	-	-	-	-
	R	-	-	-	-	-	128-152	-	-	-	-
	N	-	-	1	-	-	4	-	-	-	1

1. ML = mean length (mm) 2. SD = standard deviation 3. R = range (mm) 4. N = number of fish
* Significant difference in mean total length between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 48. Mean weight (g) by month of each age group of rock bass collected in 1974 and 1975 in Lower B-G.

Age		1+		2+		3+		4+		5+	
Date		1974	1975	1974	1975	1974	1975	1974	1975	1974	1975
Apr	MW[1]	-	-	9	-	65	87	129	-	-	-
	SD[2]	-	-	-	-	13.0	4.4	16.3	-	-	-
	R[3]	-	-	-	-	46-74	84-90	112-144	-	-	-
	N[4]	-	-	1	-	4	2	3	-	-	-
May	MW	-	-	7	-	59	36	99	120	230	310
	SD	-	-	2.5	-	23.1	20.9	18.7	-	-	-
	R	-	-	4-13	-	17-120	23-60	66-121	-	-	-
	N	-	-	16	-	43	3	6	1	1	1
Jun	MW	-	-	5	34	60	46	-	90	-	128
	SD	-	-	0.7	11.3	1.7	26.1	-	24.5	-	42.4
	R	-	-	5-6	26-42	59-61	10-92	-	64-136	-	98-158
	N	-	-	2	2	3	11	-	11	-	2
Jul	MW	-	-	19	-	82	64	135*	96*	288	155
	SD	-	-	6.8	-	39.2	31.2	24.9	24.5	-	12.0
	R	-	-	15-24	-	38-144	20-102	106-183	63-130	-	146-163
	N	-	-	2	-	12	7	9	11	1	2
Aug	MW	6	-	37	23	90*	59*	213	-	273	-
	SD	-	-	19.7	-	25.8	28.0	22.0	-	30.5	-
	R	-	-	10-66	-	51-151	38-101	187-228	-	252-295	-
	N	1	-	15	1	16	5	3	-	2	-
Sep	MW	-	-	8	-	-	54	-	-	-	116
	SD	-	-	-	-	-	11.6	-	-	-	-
	R	-	-	-	-	-	43-70	-	-	-	-
	N	-	-	1	-	-	4	-	-	-	1

1. MW = mean weight (g) 2. SD = standard deviation 3. R = range (g) 4. N = number of fish
* Significant difference in mean weight between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 49. Mean total length (mm) by month of each age group of pumpkinseed collected in 1974 and 1975 in Upper B-G.

Age		1+		2+		3+		4+		5+	
Date		1974	1975	1974	1975	1974	1975	1974	1975	1974	1975
Apr	ML[1]	117	-	112	-	-	148	-	-	-	-
	SD[2]	-	-	14.0	-	-	-	-	-	-	-
	R[3]	-	-	97-125	-	-	-	-	-	-	-
	N[4]	1	-	3	-	-	1	-	-	-	-
May	ML	-	105	123	123	-	136	-	156	-	155
	SD	-	-	13.9	9.3	-	8.0	-	10.8	-	-
	R	-	-	82-136	105-134	-	122-160	-	144-170	-	-
	N	-	1	12	8	-	27	-	4	-	1
Jun	ML	65	61	112	95	127	136	-	-	-	-
	SD	14.8	-	17.1	-	15.1	11.9	-	-	-	-
	R	50-87	-	55-131	-	106-152	114-157	-	-	-	-
	N	5	1	51	1	10	16	-	-	-	-
Jul	ML	-	75	115	119	116*	136*	-	150	-	-
	SD	-	6.4	11.6	9.7	4.1	7.2	-	-	-	-
	R	-	70-79	85-139	99-138	109-123	126-152	-	-	-	-
	N	-	2	55	27	9	11	-	1	-	-
Aug	ML	104*	76*	119*	128*	144	139	-	180	-	-
	SD	8.5	7.3	9.6	7.9	12.1	7.2	-	-	-	-
	R	75-118	63-95	94-143	108-142	125-160	123-152	-	-	-	-
	N	46	52	112	25	7	15	-	1	-	-
Sep	ML	113*	81*	129	129	144	139	-	154	-	-
	SD	10.0	6.4	11.1	3.3	11.8	5.9	-	-	-	-
	R	85-136	70-92	105-165	126-134	105-165	130-145	-	-	-	-
	N	71	16	237	5	41	7	-	1	-	-

1. ML = mean length (mm) 2. SD = standard deviation 3. R = range (mm) 4. N = number of fish
* Significant difference in mean total length between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 50. Mean weight (g) by month of each age group of pumpkinseed collected in 1974 and 1975 in Upper B-G.

Age		1+		2+		3+		4+		5+	
Date		1974	1975	1974	1975	1974	1975	1974	1975	1974	1975
Apr	MW[1]	36	-	33	-	-	66	-	-	-	-
	SD[2]	-	-	12.6	-	-	-	-	-	-	-
	R[3]	-	-	20-45	-	-	-	-	-	-	-
	N[4]	1	-	3	-	-	1	-	-	-	-
May	MW	-	15	43*	30*	-	48	-	71	-	76
	SD	-	-	11.7	7.1	-	9.6	-	22.1	-	-
	R	-	-	10-58	18-40	-	30-80	-	52-105	-	-
	N	-	1	12	8	-	27	-	4	-	1
Jun	MW	7	12	35	12	51	46	-	-	-	-
	SD	4.6	-	13.1	-	20.6	13.6	-	-	-	-
	R	3-14	-	3-50	-	29-91	28-72	-	-	-	-
	N	5	1	51	1	10	16	-	-	-	-
Jul	MW	-	4	35	31	38*	47*	-	58	-	-
	SD	-	0.0	11.8	8.5	5.9	7.0	-	-	-	-
	R	-	-	12-60	17-46	27-43	40-65	-	-	-	-
	N	-	2	55	27	9	11	-	1	-	-
Aug	MW	23*	6*	35	38	50	51	-	118	-	-
	SD	5.9	3.5	9.2	8.8	14.9	10.2	-	-	-	-
	R	8-35	1-15	15-59	21-58	28-80	36-66	-	-	-	-
	N	46	52	112	25	7	15	-	1	-	-
Sep	MW	30*	6	45	38	60	51	-	74	-	-
	SD	9.3	3.7	12.6	6.1	15.9	7.4	-	-	-	-
	R	14-51	3-15	23-94	30-46	29-92	38-56	-	-	-	-
	N	71	16	237	5	41	7	-	1	-	-

1. MW = mean weight (g) 2. SD = standard deviation 3. R = range (g) 4. N = number of fish
* Significant difference in mean weight between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 51. Mean total length (mm) by month of each age group of yellow perch collected in 1974 and 1975 in Upper B-G.

Age		0+		1+		2+		3+		4+		5+	
Date		1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975
Apr	ML[1]	-	-	145	-	167	-	-	189	-	-	-	-
	SD[2]	-	-	11.0	-	9.0	-	-	8.9	-	-	-	-
	R[3]	-	-	130-156	-	147-179	-	-	165-210	-	-	-	-
	N[4]	-	-	7	-	10	-	-	44	-	-	-	-
May	ML	-	-	-	-	-	100	179*	204*	-	213	-	224
	SD	-	-	-	-	-	-	2.8	7.0	-	7.1	-	-
	R	-	-	-	-	-	-	177-181	192-220	-	200-230	-	-
	N	-	-	-	-	-	1	2	18	-	30	-	1
Jun	ML	-	-	-	86	173	190	-	212	-	-	-	-
	SD	-	-	-	-	3.3	17.5	-	10.6	-	-	-	-
	R	-	-	-	-	170-177	159-203	-	195-240	-	-	-	-
	N	-	-	-	1	4	5	-	14	-	-	-	-
Jul	ML	-	-	137	123	177	180	-	207	-	207	-	-
	SD	-	-	4.2	9.8	11.9	26.8	-	10.5	-	2.1	-	-
	R	-	-	134-140	95-138	148-201	120-215	-	180-229	-	205-209	-	-
	N	-	-	2	22	31	29	-	28	-	3	-	-
Aug	ML	-	80	177*	128*	193	156	-	202	-	245	-	-
	SD	-	5.7	18.4	8.1	13.3	23.8	-	14.3	-	-	-	-
	R	-	76-84	92-210	118-139	185-208	140-191	-	189-222	-	-	-	-
	N	-	2	80	7	3	4	-	4	-	1	-	-
Sep	ML	82	89	162	-	195	197	204	216	-	-	-	-
	SD	5.3	0.7	10.5	-	9.9	5.4	12.0	9.5	-	-	-	-
	R	76-88	88-89	146-167	-	176-215	190-205	195-212	200-231	-	-	-	-
	N	4	2	4	-	53	7	2	20	-	-	-	-

1. ML = mean length (mm) 2. SD = standard deviation 3. R = range (mm) 4. N = number of fish
* Significant difference in mean total length between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 52. Mean weight (g) by month of each age group of yellow perch collected in 1974 and 1975 in Upper B-G.

Age		0+		1+		2+		3+		4+		5+	
Date		1974	1975	1974	1975	1974	1975	1974	1975	1974	1975	1974	1975
Apr	MW[1]	-	-	42	-	66	-	-	89	-	-	-	-
	SD[2]	-	-	8.9	-	9.5	-	-	16.2	-	-	-	-
	R[3]	-	-	29-53	-	49-76	-	-	68-129	-	-	-	-
	N[4]	-	-	7	-	10	-	-	44	-	-	-	-
May	MW	-	-	-	-	-	10	83	98	-	111	-	154
	SD	-	-	-	-	-	-	2.8	10.3	-	15.8	-	-
	R	-	-	-	-	-	-	81-85	80-120	-	87-142	-	-
	N	-	-	-	-	-	1	2	18	-	30	-	1
Jun	MW	-	-	-	4	75	82	-	108	-	-	-	-
	SD	-	-	-	-	0.9	22.5	-	17.1	-	-	-	-
	R	-	-	-	-	74-76	43-100	-	90-154	-	-	-	-
	N	-	-	-	1	4	5	-	14	-	-	-	-
Jul	MW	-	-	42*	21*	78*	67*	-	98	-	93	-	-
	SD	-	-	4.9	5.2	16.3	24.9	-	18.6	-	6.2	-	-
	R	-	-	38-45	8-28	50-108	20-105	-	62-132	-	86-98	-	-
	N	-	-	2	22	31	29	-	28	-	3	-	-
Aug	MW	-	3	74*	24*	107*	45*	-	104	-	160	-	-
	SD	-	0.7	19.7	4.7	21.1	23.3	-	25.2	-	-	-	-
	R	-	2-3	17-105	18-29	90-131	30-79	-	90-142	-	-	-	-
	N	-	2	80	7	3	4	-	4	-	1	-	-
Sep	MW	7	7	64	-	95*	82*	102	114	-	-	-	-
	SD	1.3	1.4	15.4	-	14.8	9.9	4.5	18.4	-	-	-	-
	R	5-8	6-8	48-80	-	75-132	70-95	99-106	88-144	-	-	-	-
	N	4	2	4	-	53	7	2	20	-	-	-	-

1. MW = mean weight (g) 2. SD = standard deviation 3. R = range (g) 4. N = number of fish
* Significant difference in mean weight between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 53. Mean total length (mm) by month of each age group of redbreast sunfish collected in 1974 and 1975 in Upper B-G.

Age		1+		2+		3+		4+	
Date		1974	1975	1974	1975	1974	1975	1974	1975
May	ML[1]	-	-	110*	139*	125	146	-	161
	SD[2]	-	-	17.0	4.6	3.6	-	-	-
	R[3]	-	-	85-126	134-145	120-128	-	-	-
	N[4]	-	-	6	4	4	1	-	1
Jun	ML	-	-	110	-	123	140	-	-
	SD	-	-	22.0	-	-	5.0	-	-
	R	-	-	39-134	-	-	135-146	-	-
	N	-	-	19	-	1	5	-	-
Jul	ML	-	-	124	131	-	144	-	-
	SD	-	-	10.2	6.0	-	6.7	-	-
	R	-	-	105-145	125-141	-	135-152	-	-
	N	-	-	35	7	-	6	-	-
Aug	ML	95	-	121*	135*	150	152	-	180
	SD	0.7	-	10.7	3.8	-	4.4	-	-
	R	94-95	-	100-154	131-138	-	149-157	-	-
	N	2	-	80	3	1	3	-	1
Sep	ML	132	-	136	-	154	-	-	140
	SD	17.0	-	12.4	-	2.9	-	-	-
	R	120-144	-	115-166	-	151-156	-	-	-
	N	2	-	62	-	3	-	-	1

1. ML = mean length (mm) 2. SD = standard deviation 3. R = range (mm) 4. N = number of fish

* Significant difference in mean total length between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 54. Mean weight (g) by month of each age group of redbreast sunfish collected in 1974 and 1975 in Upper B-G.

Age		1+		2+		3+		4+	
Date		1974	1975	1974	1975	1974	1975	1974	1975
May	MW[1]	-	-	32	51	47	55	-	82
	SD[2]	-	-	15.4	9.4	3.7	-	-	-
	R[3]	-	-	12-49	40-63	43-52	-	-	-
	N[4]	-	-	6	4	4	1	-	1
Jun	MW	-	-	36	-	44	54	-	-
	SD	-	-	15.5	-	-	7.1	-	-
	R	-	-	3-56	-	-	46-60	-	-
	N	-	-	19	-	1	5	-	-
Jul	MW	-	-	50*	39*	-	55	-	-
	SD	-	-	11.5	5.0	-	7.7	-	-
	R	-	-	27-65	31-47	-	46-66	-	-
	N	-	-	35	7	-	6	-	-
Aug	MW	18	-	41	45	71	68	-	81
	SD	1.8	-	12.0	11.2	-	10.6	-	-
	R	17-20	-	12-74	33-55	-	60-80	-	-
	N	2	-	80	3	1	3	-	1
Sep	MW	59	-	59	-	94	-	-	52
	SD	26.0	-	17.2	-	15.1	-	-	-
	R	41-78	-	33-109	-	76-103	-	-	-
	N	2	-	62	-	3	-	-	1

1. MW = mean weight (g) 2. SD = standard deviation 3. R = range (g) 4. N = number of fish

* Significant difference in mean weight between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 55. Mean total length (mm) and mean weight (g) by month of each age group of rock bass collected in 1974 and 1975 in Schoharie Creek.

Age		2+		3+		4+		5+	
Date		1974	1975	1974	1975	1974	1975	1974	1975
Jun	N[1]	-	-	-	3	-	4	-	1
	ML[2]	-	-	-	138	-	181	-	190
	SD-L[3]	-	-	-	32.5	-	18.8	-	-
	R-L[4]	-	-	-	105-170	-	160-205	-	-
	MW[5]	-	-	-	62	-	127	-	138
	SD-W[6]	-	-	-	36.9	-	46.4	-	-
	R-W[7]	-	-	-	29-102	-	94-193	-	-
Jul	N	4	-	7	4	4	1	5	-
	ML	104	-	157	181	177	160	201	-
	SD-L	24.8	-	12.7	24.4	12.3	-	17.2	-
	R-L	78-137	-	136-164	156-212	163-189	-	184-270	-
	MW	25	-	73*	137*	106	82	144	-
	SD-W	18.6	-	21.2	58.9	26.1	-	31.9	-
	R-W	9-52	-	42-103	86-219	82-101	-	109-182	-
Aug	N	9	2	6	19	5	11	2	3
	ML	122	118	150	153	190	185	222	212
	SD-L	9.0	14.1	11.7	14.4	19.1	18.4	2.8	14.3
	R-L	106-137	108-128	131-163	126-181	173-222	158-213	220-224	200-228
	MW	36	31	65	70	137	131	240	200
	SD-W	9.4	12.0	15.7	20.8	47.4	49.1	2.3	53.2
	R-W	26-54	22-39	44-83	40-111	97-217	72-209	238-241	158-260

1. N = number of fish
2. ML = mean length (mm)
3. SD-L = standard deviation of mean length
4. R-L = length range
5. MW = mean weight (g)
6. SD-W = standard deviation of mean weight
7. R-W = weight range

* Significant difference in mean weight between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 56. Fishes collected from April through September 1975 in Lower and Upper B-G and Schoharie Creek for which condition factor was determined.*

Species	Lower B-G		Upper B-G		Schoharie Creek		Total
	Number	Percent	Number	Percent	Number	Percent	
Pumpkinseed	444	49.3	430	47.7	27	3.0	901
Yellow perch	55	14.3	316	82.3	13	3.4	384
Smallmouth bass	153	92.7	-	-	12	7.3	165
Rock bass	75	49.7	22	14.6	54	35.8	151
Walleye	32	37.2	26	30.2	28	32.6	86
Redbreast sunfish	3	5.3	49	86.0	5	8.7	57
Largemouth bass	12	80.0	-	-	3	20.0	15
Chain pickerel	5	55.6	-	-	4	44.4	9
Rainbow trout	-	-	-	-	3	100.0	3
Brown trout	1	50.0	-	-	1	50.0	2
Total	780		843		150		1773

* Condition factor was also determined for 17 brook trout from Cole Hollow Creek.

Table 57. Condition factor for pumpkinseed collected in 1974 and 1975 in Lower and Upper B-G and Schoharie Creek.

Month	Location	Size Range (mm)	1974 Number	1974 Mean "K"	1974 SD	1975 Number	1975 Mean "K"	1975 SD
Apr	L B-G	41-60	1	1.4039	-	-	-	-
		61-80	3	1.3720	0.09	-	-	-
		81-100	5	1.5300	0.10	-	-	-
		101-120	-	-	-	1	1.7938	-
		121-140	4	1.9356	0.10	-	-	-
		141-160	1	1.7291	-	-	-	-
		161-180	1	1.8735	-	-	-	-
	U B-G	81-100	1	2.1804	-	-	-	-
		101-120	2	2.1860	0.08	-	-	-
		121-140	1	2.3091	-	-	-	-
		141-160	-	-	-	1	2.0267	-
May	L B-G	41-60	2	1.6935	0.03	-	-	-
		61-80	55	1.5235	0.15	-	-	-
		81-100	101	1.6179	0.16	-	-	-
		101-120	145	1.8280*	0.16	4	1.5312*	0.09
		121-140	67	1.9954*	0.16	30	1.8110+*	0.20
		141-160	18	2.0517	0.27	1	1.4668	-
		161-180	1	1.8104	-	-	-	-
	U B-G	81-100	1	1.8681	-	1	1.5942	-
		101-120	5	2.2519*	0.15	7	1.6584*	0.27
		121-140	17	2.1846*	0.13	81	1.9084+*	0.21
		141-160	-	-	-	17	1.8754	0.16
		161-180	-	-	-	2	1.9656	0.19
Jun	L B-G	61-80	17	1.7836	0.13	-	-	-
		81-100	30	1.7065	0.24	9	1.7718	0.32
		101-120	29	1.7892	0.20	25	1.8796	0.31
		121-140	25	1.9423*	0.17	53	2.0558+*	0.18
		141-160	4	2.0386	0.14	15	2.1249+	0.12
		161-180	1	2.1100	-	1	1.9324	-
	U B-G	41-60	4	2.1689	0.20	-	-	-
		61-80	4	2.0303	0.13	-	-	-
		81-100	8	2.1366	0.17	1	1.3996	-
		101-120	24	2.4442*	0.16	4	1.8758*	0.12
		121-140	24	2.3601*	0.14	47	1.8317+*	0.17
		141-160	2	2.5362*	0.07	14	1.9204+*	0.14
	S C	101-120	6	2.1751	0.33	-	-	-
		121-140	1	1.4043	-	-	-	-
		161-180	-	-	-	3	2.1664	0.16
Jul	L B-G	61-80	21	1.7834	0.30	-	-	-
		81-100	87	1.8392	0.25	4	2.0400	0.40
		101-120	102	1.8791	0.24	48	1.8751	0.19
		121-140	39	2.0132	0.24	85	1.9467+	0.16
		141-160	6	1.9553	0.27	17	2.0140+	0.09
		161-180	1	1.5312	-	3	1.9700	0.16
	U B-G	61-80	-	-	-	1	1.1662	-
		81-100	5	2.1563	0.28	2	1.7260	0.04
		101-120	34	2.2302*	0.29	13	1.7835*	0.25
		121-140	22	2.2654*	0.37	24	1.8663+*	0.15
		141-160	-	-	-	4	1.8091+	0.06
	S C	81-100	8	2.0924	0.43	-	-	-
		101-120	8	1.9941	0.38	-	-	-
		121-140	2	1.9431	0.01	-	-	-
		141-160	1	2.2805	-	-	-	-
		161-180	1	2.0058	-	-	-	-

\+ Signigicant difference in mean "K" between Lower and Upper B-G in 1975 at the 0.05 or less alpha level from t-test.

* Significant difference in mean "K" between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 57 - (Continued).

Month	Location	Size Range (mm)	1974 Number	1974 Mean "K"	1974 SD	1975 Number	1975 Mean "K"	1975 SD
Aug	L B-G	21-40	-	-	-	2	2.1533	0.25
		41-60	-	-	-	1	1.6000	-
		61-80	14	1.6896	0.23	-	-	-
		81-100	37	1.7418	0.24	1	1.8084	-
		101-120	61	1.7718*	0.20	3	2.1049*	0.46
		121-140	27	1.8314*	0.18	31	1.9885+*	0.14
		141-160	5	1.8674*	0.19	37	2.1038*	0.18
		161-180	-	-	-	2	2.1951	0.09
	U B-G	41-60	-	-	-	1	0.9251	-
		61-80	1	1.8489	-	105	1.6682	0.51
		81-100	14	1.9584*	0.18	40	1.7062*	0.35
		101-120	81	1.9781	0.21	4	1.8026	0.15
		121-140	56	2.0362*	0.16	26	1.8010+*	0.26
		141-160	11	1.9839	0.11	4	1.9453	0.09
		161-180	1	2.3919	-	1	2.0233	-
	S C	81-100	1	1.5186	-	-	-	-
		101-120	-	-	-	3	1.9833	0.03
		121-140	1	2.1558	-	15	1.8906	0.18
		141-160	-	-	-	6	1.8950	0.10
Sep	L B-G	41-60	-	-	-	11	1.1308	0.34
		61-80	1	1.6406	-	-	-	-
		81-100	8	1.7337	0.19	1	1.4429	-
		101-120	26	1.8959*	0.28	8	1.6106*	0.11
		121-140	35	1.9510*	0.15	14	1.7831*	0.18
		141-160	-	-	-	32	1.8224	0.24
		161-180	-	-	-	5	1.9956	0.16
	U B-G	61-80	-	-	-	10	1.0066	0.37
		81-100	8	1.8835	0.18	6	1.3679	0.66
		101-120	129	2.0164	0.25	-	-	-
		121-140	242	2.0479*	0.19	10	1.8700*	0.30
		141-160	52	1.9660	0.25	4	1.8873	0.17
		161-180	8	1.9838	0.21	-	-	-

Table 58. Annual mean condition factor for pumpkinseed collected from April through September 1973, 1974, and 1975 in Lower and Upper B-G and Schoharie Creek.

Location	Size Range (mm)	1973 Mean "K"	1973 Number	1974 Mean "K"	1974 Number	1975 Mean "K"	1975 Number
L B-G	21-40	-	-	-	-	2.1533	2
	41-60	-	-	1.5970	3	1.1699	12
	61-80	-	-	1.6304	111	-	-
	81-100	1.9365	20	1.7186	268	1.8238	15
	101-120	2.0468	97	1.8347	363	1.9887	89
	121-140	2.0843	120	1.9606	197	1.9501	213
	141-160	2.1737	55	1.9966	34	1.9974	102
	161-180	2.2965	2	1.8313	4	2.0191	11
U B-G	41-60	-	-	2.1689	4	0.9251	1
	61-80	2.1002	4	1.9940	5	1.6068	116
	81-100	2.2785	4	2.0110	37	1.6765	47
	101-120	2.2991	5	2.0744	275	1.7681	28
	121-140	2.4441	7	2.0871	362	1.8670	188
	141-160	2.4571	2	1.9866	65	1.8946	44
	161-180	-	-	2.0291	9	1.9848	3
S C	61-80	-	-	-	-	1.0066	10
	81-100	2.4057	26	2.0286	9	1.3679	6
	101-120	1.8137	16	2.0717	14	1.9833	3
	121-140	-	-	1.8616	4	1.8906	15
	141-160	-	-	2.2805	1	1.8950	6
	161-180	-	-	2.0058	1	2.1664	3

Table 59. Condition factor for yellow perch collected in 1974 and 1975 in Lower and Upper B-G and Schoharie Creek.

Month	Location	Size Range (mm)	1974 Number	1974 Mean "K"	1974 SD	1975 Number	1975 Mean "K"	1975 SD
Apr	L B-G	161-180	-	-	-	1	1.8039	-
		181-200	8	1.1802	0.08	1	1.3601	-
		201-220	2	1.1346	0.05	-	-	-
	U B-G	121-140	2	1.3686	0.07	-	-	-
		141-160	7	1.3799	0.08	-	-	-
		161-180	8	1.3824	0.07	10	1.3209	0.06
		181-200	-	-	-	46	1.2443	0.12
		201-220	-	-	-	3	1.2599	0.15
May	L B-G	41-60	1	1.0185	-	-	-	-
		61-80	18	1.0369	0.11	-	-	-
		81-100	7	0.9822	0.04	-	-	-
		101-120	1	1.1317	-	-	-	-
		121-140	4	1.1052	0.07	-	-	-
		141-160	2	0.8009	0.37	-	-	-
		161-180	1	1.2199	-	-	-	-
		181-200	6	1.0539	0.35	2	1.0424	0.42
		201-220	3	1.2440	0.05	3	1.1242	0.05
	U B-G	81-100	-	-	-	1	1.0000	-
		161-180	1	1.4589	-	-	-	-
		181-200	1	1.4318	-	13	1.2379	0.11
		201-220	-	-	-	56	1.1437	0.12
		221-240	-	-	-	10	1.1721	0.11
Jun	L B-G	81-100	1	1.4589	-	-	-	-
		121-140	-	-	-	3	1.0723	0.17
		141-160	-	-	-	1	1.0741	-
		181-200	3	1.2253	0.09	6	1.1653	0.05
		201-220	3	1.2175	0.10	5	1.0938	0.05
	U B-G	81-100	-	-	-	1	0.6289	-
		161-180	4	1.4491	0.08	-	-	-
		181-200	-	-	-	5	1.2283	0.06
		201-220	-	-	-	22	1.1063	0.12
		221-240	-	-	-	3	1.1384	0.25
	S C	121-140	1	1.2446	-	-	-	-
		141-160	3	1.1116	-	-	-	-
		161-180	1	0.8951	-	1	1.1398	-
		181-200	2	1.0936	0.06	-	-	-
		241-260	1	0.8644	-	-	-	-
Jul	L B-G	41-60	1	1.3058	-	-	-	-
		101-120	-	-	-	4	1.1542	0.09
		121-140	1	1.2618	-	7	1.1275	0.10
		141-160	7	1.2643*	0.14	3	0.9931*	0.08
		161-180	2	1.3261	0.23	1	1.3476	-
		181-200	4	1.1204	0.04	5	1.1492	0.10
		201-220	1	0.9915	-	2	1.1405	0.22
		241-260	1	0.9826	-	-	-	-
	U B-G	81-100	-	-	-	1	0.9331	-
		101-120	-	-	-	14	1.0933	0.10
		121-140	2	1.6136*	0.04	23	1.0942*	0.14
		141-160	4	1.5042	0.05	3	1.3857	0.40
		161-180	10	1.5045*	0.17	8	0.9948*	0.12
		181-200	8	1.4598*	0.06	19	1.0633*	0.10
		201-220	1	1.3127	-	25	1.0905	0.09
		221-240	-	-	-	1	1.0409	-
	S C	161-180	-	-	-	2	0.9722	0.10
		181-200	-	-	-	1	1.0497	-

* Significant difference in mean "K" between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 59 - (Continued).

Month	Location	Size Range (mm)	1974 Number	1974 Mean "K"	1974 SD	1975 Number	1975 Mean "K"	1975 SD
Aug	L B-G	81-100	2	1.3100	0.24	-	-	-
		121-140	-	-	-	1	0.8998	-
		141-160	-	-	-	1	1.9922	-
		181-200	2	1.2063	0.09	1	1.1249	-
	U B-G	61-80	-	-	-	2	0.7019	0.35
		81-100	-	-	-	1	0.5062	-
		101-120	-	-	-	1	1.4607	-
		121-140	1	1.0461	-	7	1.0916	0.21
		141-160	3	1.2002	0.06	2	1.0932	0.01
		161-180	16	1.3215	0.12	-	-	-
		181-200	31	1.3208	0.11	4	1.2225	0.12
		221-240	-	-	-	1	1.2979	-
		241-260	-	-	-	1	1.0880	-
	S C	101-120	-	-	-	2	1.1121	0.19
		121-140	-	-	-	1	0.8129	-
		161-180	-	-	-	3	0.9475	0.02
		181-200	1	1.0732	-	2	0.9713	0.19
Sep	L B-G	61-80	-	-	-	3	0.7210	0.37
		81-100	-	-	-	3	0.9816	0.18
		161-180	-	-	-	1	1.1795	-
		181-200	1	1.5388	-	1	1.0572	-
	U B-G	61-80	2	1.3833	0.29	-	-	-
		81-100	3	1.1734	0.08	2	1.0559	0.11
		141-160	1	1.5407	-	-	-	-
		161-180	3	1.2176	0.14	-	-	-
		181-200	20	1.2261	0.10	7	1.0914	0.11
		201-220	6	1.2388	0.08	14	1.1466	0.16
		221-240	-	-	-	10	1.1337	0.09
		261-280	1	0.6453	-	-	-	-
	S C	161-180	-	-	-	1	0.9329	-

Table 60. Annual mean condition factor for yellow perch collected from April through September 1973, 1974, and 1975 in Lower and Upper B-G and Schoharie Creek.

Location	Size Range (mm)	1973 Mean "K"	1973 Number	1974 Mean "K"	1974 Number	1975 Mean "K"	1975 Number
L B-G	41-60	-	-	1.1622	2	-	-
	61-80	-	-	1.0369	2	0.7210	3
	81-100	-	-	1.0954	10	0.9816	3
	101-120	0.9613	1	1.1317	1	1.1540	4
	121-140	1.2986	3	1.1345	5	1.0937	11
	141-160	1.3044	12	1.1613	9	1.2091	5
	161-180	1.3083	27	1.2907	3	1.4437	3
	181-200	1.2568	34	1.1614	24	1.1478	16
	201-220	1.2704	2	1.1817	9	1.1123	10
	221-240	1.4762	1	-	-	-	-
	241-260	-	-	0.9826	1	-	-
U B-G	61-80	-	-	1.3833	2	0.7019	2
	81-100	-	-	1.1734	3	0.8633	6
	101-120	1.4470	23	-	-	1.1178	15
	121-140	1.4572	37	1.4021	5	1.0936	30
	141-160	1.5050	18	1.3878	15	1.2687	5
	161-180	-	-	1.3847	42	1.1760	18
	181-200	1.4061	1	1.3096	60	1.1830	94
	201-220	-	-	1.2494	7	1.1123	120
	221-240	-	-	-	-	1.1525	25
	241-260	-	-	-	-	1.0880	1
	261-280	-	-	0.6453	1	-	-
S C	101-120	1.5592	2	-	-	1.1121	2
	121-140	-	-	1.2446	1	0.8129	2
	141-160	-	-	1.1116	1	-	-
	161-180	-	-	0.8951	1	0.9799	7
	181-200	-	-	1.0868	3	0.9974	3
	241-260	-	-	0.8644	1	-	-

Table 61. Condition factor for rock bass collected in 1974 and 1975 in Lower and Upper B-G and Schoharie Creek.

Month	Location	Size Range (mm)	1974 Number	1974 Mean "K"	1974 SD	1975 Number	1975 Mean "K"	1975 SD
Apr	L B-G	81-100	1	1.5779	-	-	-	-
		141-160	4	1.7870	0.21	-	-	-
		161-180	1	1.9441	-	2	1.8370	0.05
		181-200	2	1.9676	0.04	-	-	-
	U B-G	121-140	1	1.9845	-	-	-	-
		201-220	1	2.5252	-	-	-	-
May	L B-G	61-80	15	1.5922	0.30	-	-	-
		81-100	3	1.7618	0.29	1	1.8817	-
		101-120	-	-	-	2	1.5780	0.19
		121-140	11	1.8494	0.42	-	-	-
		141-160	-	-	-	1	2.0955	-
		161-180	4	1.9770	0.22	-	-	-
		181-200	1	1.7294	-	1	1.9581	-
		201-220	1	2.0153	-	-	-	-
		221-240	-	-	-	1	2.4507	-
	U B-G	81-100	-	-	-	2	2.3500	0.21
		121-140	2	2.2670*	0.04	6	1.9182*	0.14
		141-160	-	-	-	2	1.9650	1.10
		161-180	-	-	-	1	1.6465	-
Jun	L B-G	61-80	2	1.8644	0.21	-	-	-
		81-100	-	-	-	1	1.8817	-
		101-120	-	-	-	6	1.7556	0.19
		121-140	1	1.6725	-	4	2.0051	0.25
		141-160	2	1.9072	0.19	9	1.9731	0.11
		161-180	-	-	-	13	1.8848	0.20
		181-200	-	-	-	3	1.8462	0.07
		201-220	-	-	-	1	1.8887	-
	U B-G	61-80	1	1.9534	-	-	-	-
		81-100	1	2.3623	-	-	-	-
		101-120	2	2.2188	0.08	2	2.0307	0.22
		121-140	1	2.1054	-	1	2.1866	-
		141-160	-	-	-	2	1.8473	0.29
	S C	101-120	-	-	-	1	2.5051	-
		121-140	2	2.2937	0.59	1	2.0852	-
		141-160	3	2.0835	0.20	1	2.2852	-
		161-180	-	-	-	2	1.9337	0.58
		181-200	1	2.6884	-	3	1.9260	0.62
		201-220	-	-	-	1	2.2402	-
Jul	L B-G	81-100	1	2.0027	-	-	-	-
		101-120	1	1.9211	-	2	2.0474	0.45
		121-140	3	1.8091	0.22	1	1.9565	-
		141-160	5	1.8276	0.24	4	1.9473	0.19
		161-180	5	2.0565	0.19	6	1.9623	0.13
		181-200	7	1.9933	0.17	3	1.9217	0.09
		201-220	1	1.8886	-	-	-	-
	U B-G	81-100	1	2.3300	-	-	-	-
		121-140*	3	2.3018*	0.07	2	1.8729*	0.04
		141-160	-	-	-	4	1.8090	0.27
	S C	61-80	1	1.9597	-	-	-	-
		81-100	1	2.0061	-	-	-	-
		101-120	1	1.8054	-	-	-	-
		121-140	2	1.7351	0.10	-	-	-
		141-160	5	1.8021	0.21	3	2.1060	0.14
		161-180	5	1.8899	0.13	1	2.2330	-
		181-200	8	1.9289	0.20	1	2.0589	-
		201-220	2	1.6806	0.04	1	2.2985	-
		221-240	1	2.4678	-	1	2.0054	-

* Significant difference in mean "K" between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 61 - (Continued).

Month	Location	Size Range (mm)	1974 Number	1974 Mean "K"	1974 SD	1975 Number	1975 Mean "K"	1975 SD
Aug	L B-G	61-80	1	2.4678	-	1	0.7813	-
		101-120	-	-	-	1	1.8258	-
		121-140	1	1.8916	-	4	1.9823	0.31
		141-160	-	-	-	2	1.8738	0.26
		161-180	8	1.6352	0.27	-	-	-
		181-200	1	2.1957	-	-	-	-
	U B-G	101-120	2	1.8805	0.01	-	-	-
		121-140	1	2.2783	-	-	-	-
	S C	101-120	6	1.9843	0.34	1	1.7464	-
		121-140	6	1.9993	0.13	4	1.9438	0.12
		141-160	6	1.8814	0.10	13	1.8478	0.16
		161-180	5	1.9204	0.29	7	1.9400	0.12
		181-200*	4	1.5389*	0.36	8	1.9423*	0.13
		201-220	2	2.1539	0.15	3	2.1754	0.12
		221-240	3	1.9893	0.15	2	2.1540	0.06
Sep	L B-G	121-140	-	-	-	2	1.9375	0.16
		141-160	-	-	-	3	1.9027	0.15
		161-180	-	-	-	1	1.9890	-
	U B-G	81-100	1	2.0507	-	-	-	-
		101-120	7	1.6756	0.78	-	-	-
		121-140	7	1.9785	0.13	-	-	-
		141-160	2	1.9977	0.11	-	-	-

Table 62. Annual mean condition factor for rock bass collected from April through September 1973, 1974, and 1975 in Lower and Upper B-G and Schoharie Creek.

Location	Size Range (mm)	1973 Mean "K"	1973 Number	1974 Mean "K"	1974 Number	1975 Mean "K"	1975 Number
L B-G	61-80	-	-	1.6711	18	0.7813	1
	81-100	-	-	1.7732	5	1.8817	2
	101-120	2.1244	1	1.9211	1	1.7827	11
	121-140	1.9467	15	1.8334	16	1.9801	11
	141-160	1.9946	19	1.8273	11	1.9525	19
	161-180	2.1660	5	1.8453	18	1.9063	22
	181-200	2.0741	2	1.9830	11	1.8945	7
	201-220	2.1751	3	1.9520	2	1.8887	1
	221-240	1.8271	4	-	-	2.4507	1
	241-260	2.2748	3	-	-	-	-
U B-G	61-80	2.2107	1	1.9534	1	-	-
	81-100	-	-	2.2477	3	2.3500	2
	101-120	-	-	1.8116	11	2.0307	2
	121-140	-	-	2.1105	15	1.9380	9
	141-160	-	-	1.9977	2	1.8576	8
	161-180	-	-	-	-	1.6465	1
	201-220	-	-	2.5252	1	-	-
S C	61-80	2.0513	18	1.9597	1	-	-
	81-100	1.9457	2	2.0061	1	-	-
	101-120	2.0484	18	1.9587	7	2.1258	2
	121-140	1.8949	27	2.0053	10	1.9721	5
	141-160	1.8260	8	1.8964	14	1.9191	17
	161-180	2.0281	4	1.9052	10	1.9680	10
	181-200	2.1672	5	1.8673	13	1.9479	12
	201-220	2.1591	5	1.9173	4	2.2130	5
	221-240	1.9066	3	2.1089	4	2.1045	3

Table 63. Condition factor for redbreast sunfish collected in 1974 and 1975 in Lower and Upper B-G and Schoharie Creek.

Month	Location	Size Range (mm)	1974 Number	1974 Mean "K"	1974 SD	1975 Number	1975 Mean "K"	1975 SD
May	U B-G	81-100	2	1.8683	0.08	-	-	-
		101-120	3	2.2812	0.24	-	-	-
		121-140	5	2.4197*	0.14	3	1.7957*	0.12
		141-160	-	-	-	2	1.9169	0.21
		161-180	-	-	-	1	1.9649	-
Jun	L B-G	121-140	-	-	-	1	1.6689	-
		161-180	-	-	-	1	2.1087	-
	U B-G	21-40	1	2.5287	-	-	-	-
		81-100	4	2.2046	0.21	-	-	-
		101-120	4	2.4952	0.23	-	-	-
		121-140	11	2.4981*	0.12	14	1.9171*	0.16
		141-160	-	-	-	5	1.9633	0.11
	S C	161-180	-	-	-	1	1.7912	-
Jul	L B-G	121-140	2	2.5118	0.09	-	-	-
	U B-G	101-120	11	2.6788	0.22	-	-	-
		121-140	21	2.5698*	0.20	8	1.8169*	0.17
		141-160	3	2.2038	0.64	7	1.8834	0.12
	S C	101-120	1	2.6475	-	-	-	-
		141-160	-	-	-	1	1.8637	-
Aug	U B-G	81-100	1	1.7400	-	-	-	-
		101-120	25	2.0466	0.32	-	-	-
		121-140	26	2.1682*	0.22	3	1.7780*	0.47
		141-160	5	2.1390	0.14	5	1.9728	0.11
	S C	121-140	-	-	-	1	1.8808	-
		141-160	-	-	-	1	2.2037	-
		161-180	-	-	-	1	2.0987	-
		181-200	2	1.9582	0.04	-	-	-
Sep	L B-G	101-120	-	-	-	1	2.0255	-
	U B-G	81-100	15	2.2022	0.12	-	-	-
		101-120	19	2.4107	0.19	-	-	-
		121-140	34	2.2903	0.23	1	1.8950	-
		141-160	18	2.1599	0.43	-	-	-
		161-180	1	2.3741	-	-	-	-

* Significant difference in mean "K" between 1974 and 1975 at the 0.05 or less alpha level from t-test.

Table 64. Condition factor for walleye collected in 1974 and 1975 in Lower and Upper B-G and Schoharie Creek.

Month	Location	Size Range (mm)	1974 Number	1974 Mean "K"	1974 SD	1975 Number	1975 Mean "K"	1975 SD
Apr	L B-G	221-240	1	0.7610	-	-	-	-
		261-280	-	-	-	1	1.2117	-
May	L B-G	141-160	1	0.8269	-	-	-	-
		161-180	1	0.8247	-	-	-	-
		181-200	2	0.7472	0.18	-	-	-
		201-220	1	1.0012	-	-	-	-
		221-240	1	0.7759	-	-	-	-
		301-320	-	-	-	1	0.8727	-
	U B-G	301-320	-	-	-	3	0.9356	0.02
		321-340	-	-	-	1	0.8948	-
		341-360	1	0.9140	-	-	-	-
Jun	L B-G	241-260	1	0.8680	-	4	0.8397	0.07
		261-280	-	-	-	8	0.8207	-
		281-300	-	-	-	4	0.8234	0.07
		321-340	-	-	-	5	0.8057	0.02
		361-380	-	-	-	1	0.8303	-
	U B-G	221-240	-	-	-	1	0.9487	-
		321-340	-	-	-	3	0.9444	0.04
	S C	341-360	2	0.7215	0.04	-	-	-
		361-380	3	0.7864	0.04	2	0.7739	0.05
		401-420	1	0.9129	-	-	-	-
		521-540	-	-	-	1	0.4898	-
Jul	L B-G	221-240	1	0.8161	-	-	-	-
		241-260	2	0.7972	0.01	-	-	-
		261-280	-	-	-	2	0.7617	0.09
		301-320	1	0.8923	-	1	0.8423	-
		321-240	-	-	-	1	0.8535	-
		401-420	-	-	-	1	0.8448	-
	U B-G	221-240	-	-	-	1	0.8319	-
		241-260	-	-	-	7	0.8649	0.06
		261-280	-	-	-	2	0.8072	0.01
		381-400	-	-	-	1	1.0272	-
	S C	61-80	1	0.5479	-	-	-	-
		301-320	2	0.7260	0.04	-	-	-
		401-420	-	-	-	1	0.6465	-
		541-560	-	-	-	1	0.3774	-
		581-600	1	1.0509	-	-	-	-
Aug	L B-G	241-260	2	0.6745	0.03	1	1.1264	-
		321-340	-	-	-	1	0.6504	-
	U B-G	221-240	2	0.7806	0.13	-	-	-
		261-280	3	0.8720	0.03	-	-	-
	S C	281-300	-	-	-	2	0.7290	0.07
		301-320	-	-	-	9	0.7589	0.04
		321-340	-	-	-	2	0.7524	0.02
		341-360	-	-	-	1	0.8305	-
		381-400	-	-	-	2	0.8094	0.10
		401-420	-	-	-	4	0.7345	0.04
		421-440	-	-	-	1	0.6078	-
Sep	L B-G	141-160	-	-	-	1	0.8269	-
	U B-G	301-320	-	-	-	1	0.8545	-
		321-340	-	-	-	3	0.9045	0.07
		341-360	-	-	-	1	0.8570	-
		421-440	-	-	-	1	1.0295	-
		441-460	-	-	-	1	0.9356	-
	S C	381-400	-	-	-	1	0.7697	-
		421-440	-	-	-	1	0.7987	-

Table 65. Annual mean condition factor for walleye collected from April through September 1973, 1974, and 1975 in Lower and Upper B-G and Schoharie Creek.

Location	Size Range (mm)	1973 Mean "K"	1973 Number	1974 Mean "K"	1974 Number	1975 Mean "K"	1975 Number
L B-G	141-160	-	-	0.8269	1	0.8269	1
	161-180	-	-	0.8247	1	-	-
	181-200	-	-	0.7472	2	-	-
	201-220	0.8431	1	1.0012	1	-	-
	221-240	0.8184	3	0.7843	3	-	-
	241-260	0.9469	7	0.7623	5	0.8890	5
	261-280	0.8943	2	-	-	0.8455	11
	281-300	1.0142	2	-	-	0.8234	4
	301-320	0.9437	2	0.8923	1	0.8575	2
	321-340	-	-	-	-	0.7903	7
	361-380	-	-	-	-	0.8303	1
	401-420	1.0639	1	-	-	0.8448	1
U B-G	221-240	-	-	0.7806	2	0.8903	2
	241-260	-	-	-	-	0.8649	7
	261-280	-	-	0.8720	3	0.8072	2
	301-320	-	-	-	-	0.9153	4
	321-340	-	-	-	-	0.9202	7
	341-360	-	-	0.9140	1	0.8570	1
	381-400	-	-	-	-	1.0272	1
	421-440	-	-	-	-	1.0295	1
	441-460	-	-	-	-	0.9356	1
S C	61-80	-	-	0.5479	1	-	-
	121-140	0.8502	2	-	-	-	-
	161-180	0.7686	1	-	-	-	-
	241-260	0.7257	1	-	-	-	-
	261-280	0.8353	1	-	-	-	-
	281-300	0.8274	5	-	-	0.7290	2
	301-320	0.7765	4	0.7459	2	0.7589	9
	321-340	0.8329	4	-	-	0.7524	2
	341-360	0.8087	1	0.7215	2	0.8305	1
	361-380	-	-	0.7864	3	0.7739	2
	381-400	0.8031	2	-	-	1.1943	3
	401-420	0.8811	1	0.9129	1	0.7169	5
	421-440	0.5134	1	-	-	0.7030	2
	441-460	0.8171	1	-	-	-	-
	501-520	0.7604	1	-	-	-	-
	521-540	-	-	-	-	0.4898	1
	541-560	-	-	-	-	0.3774	1
	581-600	-	-	1.0509	1	-	-
	601-620	0.8786	1	-	-	-	-

Table 66. Condition factor for smallmouth bass collected in 1974 and 1975 in Lower B-G and Schoharie Creek.

Month	Location	Size Range (mm)	1974 Number	1974 Mean "K"	1974 SD	1975 Number	1975 Mean "K"	1975 SD
Apr	L B-G	101-120	-	-	-	1	2.2856	-
		341-360	-	-	-	1	1.1895	-
May	L B-G	121-140	1	1.0787	-	-	-	-
		141-160	1	1.1732	-	-	-	-
		161-180	1	0.8698	-	-	-	-
		221-240	1	0.9427	-	-	-	-
		241-260	2	1.1216	0.09	-	-	-
		261-280	3	1.2703	0.03	-	-	-
		281-300	2	1.2995	0.12	-	-	-
Jun	L B-G	161-180	-	-	-	9	1.2035	0.35
		181-200	-	-	-	8	1.1739	0.38
		201-220	-	-	-	4	1.2253	0.38
		221-240	-	-	-	1	1.3694	-
		241-260	-	-	-	9	1.1448	0.12
		261-280	-	-	-	5	1.2490	0.87
		281-300	-	-	-	6	1.1633	0.10
		301-320	-	-	-	1	1.3817	-
		321-340	-	-	-	1	1.0991	-
		341-360	-	-	-	1	1.3230	-
		381-400	-	-	-	1	1.2476	-
		401-420	-	-	-	1	1.2204	-
Jul	L B-G	121-140	1	1.3006	-	3	1.3686	0.07
		141-160	-	-	-	4	1.2442	0.05
		161-180	1	1.1384	-	1	1.4060	-
		181-200	-	-	-	14	1.2019	0.09
		201-220	-	-	-	8	1.2116	0.06
		221-240	1	1.4002	-	4	1.2197	0.12
		241-260	-	-	-	4	1.2303	0.08
		261-280	-	-	-	2	1.2386	0.02
		281-300	-	-	-	2	1.2264	0.08
		301-320	-	-	-	3	1.0633	0.13
		321-340	-	-	-	1	1.2724	-
		361-380	-	-	-	1	1.2665	-
		381-400	-	-	-	1	1.1661	-
	S C	221-240	-	-	-	2	1.1753	0.07
		261-280	2	1.2916	0.18	3	1.1193	0.19
		281-300	-	-	-	1	1.3132	-
		321-340	-	-	-	1	1.1186	-
Aug	L B-G	41-60	-	-	-	1	0.8000	-
		141-160	1	1.0829	-	1	1.3333	-
		161-180	-	-	-	2	1.2952	0.04
		181-200	1	1.0759	-	4	1.2253	0.03
		201-220	-	-	-	15	1.2196	0.07
		221-240	-	-	-	6	1.2929	0.08
		241-260	2	1.1700	0.01	5	1.2089	0.09
		261-280	2	1.0607	0.05	6	1.2441	0.09
		281-300	1	0.9010	-	1	0.6794	-
		301-320	-	-	-	1	0.9888	-
		341-360	-	-	-	1	1.4439	-
		361-380	-	-	-	1	1.3112	-
	S C	221-240	1	1.1800	-	-	-	-
		241-260	1	1.1617	-	1	1.3074	-
		261-280	1	1.1680	-	-	-	-
		281-300	2	1.2644	0.03	1	1.2802	-
		301-320	-	-	-	1	1.1948	-
		321-340	-	-	-	1	1.2349	-
Sep	L B-G	41-60	-	-	-	10	1.7583	0.36
		61-80	-	-	-	1	1.4565	-
		181-200	-	-	-	1	1.1674	-
		221-240	-	-	-	2	1.3432	0.09
	S C	361-380	-	-	-	1	1.2541	-

Table 67. Annual mean condition factor for smallmouth bass collected from April through September 1973, 1974, and 1975 in Lower B-G and Schoharie Creek.

Location	Size Range (mm)	1973 Mean "K"	1973 Number	1974 Mean "K"	1974 Number	1975 Mean "K"	1975 Number
L B-G	41-60	1.3870	2	-	-	1.6712	11
	61-80	1.2340	1	-	-	1.4565	1
	81-100	1.2400	7	-	-	-	-
	101-120	1.3586	11	-	-	2.2856	1
	121-140	1.2348	27	1.1897	2	1.3686	3
	141-160	1.2184	9	1.1281	2	1.2620	5
	161-180	1.3449	12	1.0041	2	1.2357	12
	181-200	1.2381	9	1.0759	1	1.1958	27
	201-220	1.2617	11	-	-	1.2181	27
	221-240	-	-	1.1715	2	1.2840	13
	241-260	1.3247	4	1.1458	4	1.1816	18
	261-280	1.6087	2	1.1865	5	1.2451	13
	281-300	1.6732	4	1.1667	3	1.1236	9
	301-320	1.5240	1	-	-	1.0921	5
	321-340	1.4556	4	-	-	1.1858	2
	341-360	0.9984	1	-	-	1.3188	3
	361-380	-	-	-	-	1.2894	2
	381-400	-	-	-	-	1.2069	2
	401-420	-	-	-	-	1.2240	1
S C	61-80	1.4192	2	-	-	-	-
	81-100	1.3003	1	-	-	-	-
	121-140	1.1722	2	-	-	-	-
	141-160	1.4084	1	-	-	-	-
	181-200	1.3136	2	-	-	-	-
	201-220	1.3247	3	-	-	-	-
	221-240	-	-	1.1800	1	1.1753	2
	241-260	-	-	1.1617	1	1.3074	1
	261-280	1.2660	3	1.2504	3	1.1193	3
	281-300	1.2014	2	1.2644	2	1.2967	2
	301-320	-	-	-	-	1.1998	1
	321-340	-	-	-	-	1.1768	2
	361-380	-	-	-	-	1.2541	1

Table 68. Condition factor for largemouth bass collected in 1974 and 1975 in Lower B-G and Schoharie Creek.

Month	Location	Size Range (mm)	1974 Number	1974 Mean "K"	1974 SD	1975 Number	1975 Mean "K"	1975 SD
Apr	L B-G	121-140	1	1.4029	-	-	-	-
		181-200	2	1.2321	0.06	-	-	-
		321-340	-	-	-	1	1.5750	-
May	L B-G	161-180	1	0.8392	-	-	-	-
		181-200	14	1.2694	0.31	-	-	-
		201-220	12	1.2510	0.26	-	-	-
		221-240	5	1.2805	0.16	-	-	-
		241-260	4	1.1984	0.15	-	-	-
		261-280	5	1.6436	0.09	-	-	-
		281-300	1	1.4072	-	-	-	-
		341-360	1	1.7866	-	-	-	-
Jun	L B-G	141-160	-	-	-	1	2.5063	-
		161-180	1	1.2447	-	-	-	-
		221-240	1	1.2493	-	1	1.2252	-
		261-280	1	1.6528	-	1	1.2133	-
		341-360	-	-	-	1	1.3265	-
		381-400	-	-	-	1	0.9946	-
	S C	281-300	-	-	-	1	1.1803	-
		301-320	-	-	-	1	1.5083	-
Jul	L B-G	221-240	2	1.0571	0.33	-	-	-
		241-260	1	1.0406	-	-	-	-
		261-280	3	1.4816	0.13	-	-	-
	S C	241-260	1	1.2143	-	-	-	-
		261-280	2	1.1684	0.24	-	-	-
		281-300	2	1.0160	0.18	-	-	-
Aug	L B-G	81-100	-	-	-	1	0.3144	-
		101-120	4	1.1382	0.13	-	-	-
		121-140	2	1.4661	0.23	-	-	-
		221-240	1	1.1891	-	1	1.4178	-
		241-260	1	1.4650	-	-	-	-
	S C	201-220	-	-	-	1	1.1352	-
Sep	L B-G	101-120	-	-	-	1	1.0518	-
		161-180	-	-	-	1	1.2883	-
		201-220	-	-	-	1	1.2446	-
		321-240	-	-	-	1	1.3591	-

Table 69. Annual mean condition factor for largemouth bass collected from April through September 1973, 1974, and 1975 in Lower B-G and Schoharie Creek.

Location	Size Range (mm)	1973 Mean "K"	1973 Number	1974 Mean "K"	1974 Number	1975 Mean "K"	1975 Number
L B-G	41-60	1.2037	1	-	-	-	-
	81-100	1.0687	5	-	-	0.3144	1
	101-120	1.3361	2	1.1382	4	1.0518	1
	121-140	1.2200	10	1.4450	3	-	-
	141-160	1.4398	20	-	-	2.5063	1
	161-180	1.5014	22	1.0420	2	1.2883	1
	181-200	1.4553	26	1.2647	16	-	-
	201-220	1.5959	8	1.2510	12	1.2446	1
	221-240	1.7889	4	1.2172	9	1.3215	2
	241-260	1.7458	3	1.2165	6	-	-
	261-280	1.9560	1	1.5906	9	1.2133	1
	281-300	1.8114	3	1.4072	1	-	-
	301-320	1.7507	3	-	-	-	-
	321-340	1.6770	2	-	-	1.4671	2
	341-360	1.4853	1	1.7866	1	1.3265	1
	381-400	-	-	-	-	0.9946	1
S C	41-60	1.3824	1	-	-	-	-
	61-80	1.3110	1	-	-	-	-
	81-100	1.2927	2	-	-	-	-
	201-220	-	-	-	-	1.1352	1
	241-260	-	-	1.2143	1	-	-
	261-280	-	-	1.1684	2	-	-
	281-300	-	-	1.0160	2	1.1803	1
	301-320	-	-	-	-	1.5083	1

Table 70. Condition factor for chain pickerel collected in 1974 and 1975 in Lower B-G and Schoharie Creek.

Month	Location	Size Range (mm)	1974 Number	1974 Mean "K"	1974 SD	1975 Number	1975 Mean "K"	1975 SD
Apr	L B-G	281-300	2	0.6062	0.02	-	-	-
		321-340	1	0.5952	-	-	-	-
		381-400	-	-	-	1	0.7531	-
		461-480	-	-	-	1	1.0040	-
May	L B-G	241-260	1	0.5959	-	-	-	-
		301-320	2	0.6397	0.40	-	-	-
Jun	L B-G	281-300	1	0.6947	-	-	-	-
		341-360	-	-	-	1	0.6459	-
Jul	L B-G	281-300	1	0.6337	-	-	-	-
		341-360	1	0.7035	-	-	-	-
		401-420	-	-	-	1	0.6072	-
	S C	461-480	-	-	-	1	0.5355	-
Aug	S C	281-300	-	-	-	1	0.3065	-
		301-320	-	-	-	1	0.5371	-
		341-360	-	-	-	1	0.6195	-
		401-420	1	0.6162	-	-	-	-
Sep	L B-G	421-440	-	-	-	1	0.9315	-

Table 71. Annual mean condition factor for chain pickerel collected from April through September 1973, 1974, and 1975 in Lower B-G and Schoharie Creek.

Location	Size Range (mm)	1973		1974		1975	
		Mean "K"	Number	Mean "K"	Number	Mean "K"	Number
L B-G	201-220	0.6371	1	-	-	-	-
	241-260	-	-	0.5959	1	-	-
	281-300	0.7465	1	0.6352	4	-	-
	301-320	0.6493	1	0.6397	2	-	-
	321-340	0.6542	10	0.5952	1	-	-
	341-360	0.7816	7	0.7035	1	0.6459	1
	361-380	0.6522	2	-	-	-	-
	381-400	-	-	-	-	0.7531	1
	401-420	0.8663	1	-	-	0.6072	1
	421-440	-	-	-	-	0.9315	1
	461-480	-	-	-	-	1.0040	1
S C	261-280	0.6695	1	-	-	-	-
	281-300	0.6131	1	-	-	0.3065	1
	301-320	0.5772	1	-	-	0.5371	1
	341-360	-	-	-	-	0.6195	1
	401-420	-	-	0.6162	1	-	-
	461-480	-	-	-	-	0.5355	1

Table 72. Condition factor for brook trout collected from June through September 1975 in Cole Hollow Creek.

Month	Size Range (mm)	Number	Mean "K"	SD
Jun	161-180	4	0.8842	0.06
	181-200	1	0.9933	-
Jul	101-120	5	1.0173	0.07
	121-140	3	0.9690	0.18
	141-160	2	0.8069	0.04
Sep	141-160	1	0.8789	-
	161-180	1	0.8866	-

Table 73. Number of stomachs analyzed by month from June through September 1975 in Lower B-G.

Month	Species	Size Range (mm)	Number of Stomachs Examined	Number Empty	Percent Empty
June	Yellow perch	199-204	2	1	50.0
	Walleye	242	1	1	100.0
	Largemouth bass	270	1	1	100.0
July	Pumpkinseed	105-145	25	13	52.0
	Smallmouth bass	265	1	1	100.0
	Smallmouth bass	146-196	4	3	75.0
	Yellow perch	158-215	2	2	100.0
	Yellow perch	129-148	2	2	100.0
	Rock bass	162-200	3	0	0.0
	Walleye	330-409	3	3	100.0
	Largemouth bass	270-336	3	3	100.0
August	Smallmouth bass	209-221	2	0	0.0
	Rock bass	80	1	0	0.0
September	Pumpkinseed	140-164	4	1	25.0
	Largemouth bass	323	1	0	0.0
	Largemouth bass	110	1	1	100.0
	Smallmouth bass	199	1	0	0.0

Table 74. Number of stomachs analyzed by month from June through August 1975 in Upper B-G.

Month	Species	Size Range (mm)	Number of Stomachs Examined	Number Empty	Percent Empty
June	Pumpkinseed	126-138	4	1	25.0
	Redbreast sunfish	144	1	0	0.0
	Yellow perch	216-218	2	1	50.0
	Walleye	233-328	4	3	75.0
July	Yellow perch	199-215	6	4	66.7
	Yellow perch	115-126	3	3	100.0
	Walleye	243-247	2	1	50.0
August	Pumpkinseed	66-80	7	1	14.3
	Pumpkinseed	129	1	0	0.0
	Yellow perch	121-138	3	3	100.0

Table 75. Number of stomachs analyzed by month from June through August 1975 in Schoharie Creek and tributary (Cole Hollow Creek) between Lower B-G and the Walhalla Rocks.

Month	Species	Size Range (mm)	Number of Stomachs Examined	Number Empty	Percent Empty
June	Brook trout	162-188	5	0	0.0
	Walleye	368-535	3	2	66.7
	Largemouth bass	295-305	2	1	50.0
July	Smallmouth bass	285-330	2	0	0.0
	Walleye	545	1	1	100.0
	Chain pickerel	464	1	0	0.0
August	Walleye	335	1	1	100.0
	Pumpkinseed	126-136	2	2	100.0

Table 76. Number of stomachs analyzed by month in June and July 1975 in Schoharie Creek between Schoharie Reservoir and Lower B-G.

Month	Species	Size Range (mm)	Number of Stomachs Examined	Number Empty	Percent Empty
June	Brown trout	223-224	2	1	50.0
	Rainbow trout	203-235	2	1	50.0
	Rock bass	183-190	2	1	50.0
July	Smallmouth bass	230-247	2	1	50.0
	Brown trout	128	1	1	100.0

Table 77. Major food types in the diet of brook trout collected in June 1975 in upper Cole Hollow Creek.

Size Range (mm)	Stomachs With Food	Food Type	% Numerical	% Occurrence	% Weight**
162-188	5	Leafhoppers	40.7	40.0	2.3
		Caddis flies	22.2	60.0	15.8
		Beetles	22.2	60.0	11.5
		Mayflies	11.1	40.0	1.3
		Dipterans	3.7	20.0	0.3
		Insect remains	*	80.0	63.8
		Unidentifiable	*	20.0	4.9

* Percent numerical incalculable.

** Total weight 3.04 g.

Table 78. Major food types in the diet of pumpkinseed collected in July and August 1975 in Lower and Upper B-G.

Location	Month	Size Range (mm)	Number of Stomachs With Food	Food Type	% Numerical	% Occurrence	% Weight
L B-G	Jul	105-145	12	Adult beetles	80.0	25.0	20.2[1]
				Midges	20.0	8.3	0.1
				Water fleas, copepods	*	16.7	29.8
				Insect remains	*	25.0	22.1
				Unidentifiable	*	41.7	27.9
U B-G	Aug	66-80	6	Midge larvae (Chironomidae)	65.2	33.3	5.3[2]
				Crane fly larvae (Tipulidae)	8.7	16.7	2.6
				Beetle larvae (Dytiscidae)	8.7	16.7	2.6
				Mayfly larvae (Baetidae)	4.3	16.7	2.6
				Earthworm	4.3	16.7	2.6
				Water mite	4.3	16.7	2.6
				Clam	4.3	16.7	2.6
				Insect remains	*	66.7	36.8
				Unidentifiable	*	50.0	42.1

* % Numerical incalculable
1 Total weight: 1.04 g
2 Total weight: 0.38 g

Table 79. Summary of fishes tagged and size ranges from June through September 1975 in Lower and Upper B-G.

Species	Lower B-G		Upper B-G	
	Number	Size Range (mm)	Number	Size Range (mm)
Pumpkinseed	124	125-176	45	125-180
Smallmouth bass	38	176-375	-	-
Yellow perch	13	127-197	85	126-229
Rock bass	13	126-193	3	141-148
Walleye	5	157-372	5	252-446
Largemouth bass	3	167-235	-	-
Brown trout	1	262	-	-
Chain pickerel	1	422	-	-
Redbreast sunfish	-	-	19	127-158
Number of Fish	198		157	
Number of Fishes	8		5	

Table 80. Summary of marked fish recaptured from June through August 1975 in Lower and Upper B-G.

Species	Tag No.	Date		Location		Length (mm)		Weight (g)	
		Capture	Recapture	Capture	Recapture	Capture	Recapture	Capture	Recapture
Rock bass	223	18 Aug 74	1 Jun 75	Mine Kill Cove	FSP 10B	175	-*	74	-*
Yellow perch	481	12 Sep 74	11 Jul 75	TN 1 U B-G	GN 8 L B-G	200	201	94	80
Smallmouth bass	709	17 Aug 75	30 Aug 75	Mine Kill Cove	Mine Kill Cove	257	257	212	212

* Data unavailable since fish was dressed by fisherman before tag was noticed.

Table 81. Taxa totals for 5-minute ichthyoplankton tows from 12 May through 25 August 1975 in Lower and Upper B-G.

Location	Taxa	Total Number Captured	Pro-Larvae	Post-Larvae	Juvenile	Size Range (mm)	Mean Total Length (mm)	SD For Length
L B-G	Yellow perch	18	2	16	-	5.5-21.3	13.3	5.0
	Sunfish spp.	88	18	70	-	4.2-14.7	7.7	2.1
	Golden shiner	2	1	1	-	5.2-7.2	6.2	1.4
	Minnow family	1	-	1	-	5.5	5.5	-
	Walleye	1	1	-	-	8.7	8.7	-
	Unidentified*	11	6	5	-	4.7-11.0	8.5	2.3
Total		121	28	93				
U B-G	Yellow perch	433	242	181	10	4.0-32.6	8.6	4.2
	Sunfish spp.	126	31	95	-	5.1-12.0	7.4	1.8
	Minnow family	7	2	5	-	5.1-6.4	5.7	0.5
	Golden shiner	5	2	3	-	5.3-10.9	6.7	2.4
	Tessellated darter	3	-	-	3	15.8-18.8	17.1	1.5
	Rock bass	1	1	-	-	4.6	4.6	-
	Unidentified	66	24	42	-	4.5-20.5	8.4	3.7
Total		641	302	326	13			
Grand total		762						

* Unidentifiable remains

Table 82. Summary of specimens taken per m^3 of water filtered during day and night ichthyoplankton sampling from 12 May through 25 August 1975 in Lower and Upper B-G.

Location and Taxa	Total Volume (m^3)			Total Larvae Captured			Larvae/m^3		
	Day	Night	Total	Day	Night	Total	Day	Night	Total
L B-G									
Yellow perch	8343	8722	17065	1	17	18	0.0001	0.0019	0.0011
Sunfish spp.				14	74	88	0.0017	0.0085	0.0052
Golden shiner				1	1	2	0.0001	0.0001	0.0001
Minnow family				-	1	1	-	0.0001	0.0001
Walleye				1	-	1	0.0001	-	0.0001
Unidentified				1	10	11	0.0001	0.0011	0.0006
Total				18	103	121	0.0020	0.0119	0.0071
U B-G									
Yellow perch	10254	11371	21625	24	409	433	0.0023	0.0360	0.0200
Sunfish spp.				9	117	126	0.0009	0.0103	0.0058
Minnow family				-	7	7	-	0.0006	0.0003
Golden shiner				1	4	5	0.0001	0.0004	0.0002
Tessellated darter				1	2	3	0.0001	0.0002	0.0001
Rock bass				-	1	1	-	0.0001	0.0001
Unidentified				-	66	66	-	0.0058	0.0031
Total				35	606	641	0.0034	0.0533	0.0296
Grand total			38690			762			

Table 83. Summary of specimens taken by depth per m^3 of water filtered during day and night ichthyoplankton sampling from 12 May through 25 August 1975 in Lower and Upper B-G.

Location	Depth of Tow (m)	Day Volume (m^3)	Night Volume (m^3)	Total Volume (m^3)	Larvae/m^3 Yellow Perch Day	Night	Total
L B-G	1.5	4354	4640	8994	0.0002 (1)*	0.0024 (11)	0.0013 (12)
	4.6	2693	2781	5474	-	0.0014 (4)	0.0007 (4)
	10.7	1296	1301	2597	-	0.0015 (2)	0.0008 (2)
U B-G	1.5	5340	5885	11225	0.0037 (20)	0.0466 (274)	0.0262 (294)
	4.6	2465	2842	5307	0.0004 (1)	0.0158 (45)	0.0087 (46)
	10.7	2449	2644	5093	0.0012 (3)	0.0340 (90)	0.0183 (93)

Location	Depth of Tow (m)	Larvae/m^3 Sunfish Spp. Day	Night	Total	Golden Shiner Day	Night	Total
L B-G	1.5	0.0030 (13)	0.0151 (70)	0.0092 (83)	0.0002 (1)	0.0002 (1)	0.0002 (2)
	4.6	-	0.0014 (4)	0.0007 (4)	-	-	-
	10.7	0.0008 (1)	-	0.0004 (1)	-	-	-
U B-G	1.5	0.0017 (9)	0.0163 (96)	0.0094 (105)	0.0002 (1)	0.0003 (2)	0.0003 (3)
	4.6	-	0.0035 (10)	0.0019 (10)	-	-	-
	10.7	-	0.0042 (11)	0.0022 (11)	-	0.0008 (2)	0.0004 (2)

Location	Depth of Tow (m)	Larvae/m^3 Minnow Family Day	Night	Total	Walleye Day	Night	Total
L B-G	1.5	-	0.0002 (1)	0.0001 (1)	0.0002 (1)	-	0.0001 (1)
	4.6	-	-	-	-	-	-
	10.7	-	-	-	-	-	-
U B-G	1.5	-	0.0012 (7)	0.0006 (7)	-	-	-
	4.6	-	-	-	-	-	-
	10.7	-	-	-	-	-	-

* Sample size in parentheses.

Table 83 - (Continued).

Location	Depth of Tow (m)	Larvae/m^3					
		Rock Bass			Tesseliated Darter		
		Day	Night	Total	Day	Night	Total
L B-G	1.5	-	-	-	-	-	-
	4.6	-	-	-	-	-	-
	10.7	-	-	-	-	-	-
U B-G	1.5	-	0.0002 (1)	0.0001 (1)	0.0002 (1)	-	0.0001 (1)
	4.6	-	-	-	-	0.0004 (1)	0.0002 (1)
	10.7	-	-	-	-	0.0004 (1)	0.0002 (1)

Location	Depth of Tow (m)	Larvae/m^3					
		Unidentified			Total Taxa		
		Day	Night	Total	Day	Night	Total
L B-G	1.5	0.0002 (1)	0.0011 (5)	0.0007 (6)	0.0039 (17)	0.0190 (88)	0.0117 (105)
	4.6	-	-	-	-	0.0029 (8)	0.0015 (8)
	10.7	-	0.0038 (5)	0.0019 (5)	0.0008 (1)	0.0054 (7)	0.0031 (8)
U B-G	1.5	-	0.0075 (44)	0.0039 (44)	0.0058 (31)	0.0720 (424)	0.0405 (455)
	4.6	-	0.0021 (6)	0.0011 (6)	0.0004 (1)	0.0218 (62)	0.0119 (63)
	10.7	-	0.0061 (16)	0.0031 (16)	0.0012 (3)	0.0450 (120)	0.0242 (123)

Table 84. Summary of specimens taken by station per m^3 of water filtered during ichthyoplankton sampling from 12 May through 25 August 1975 in Lower and Upper B-G.

Stations	Total Volume (m^3)	Yellow Perch		Sunfish Spp.		Golden Shiner	
		Captured	Per m^3	Captured	Per m^3	Captured	Per m^3
L B-G							
1	8289	9	0.0011	57	0.0069	1	0.0001
2	5798	6	0.0010	16	0.0028	-	-
3	2978	3	0.0010	15	0.0050	1	0.0003
U B-G							
5	7993	68	0.0085	33	0.0041	3	0.0004
6	8133	135	0.0166	11	0.0014	1	0.0001
7	2661	187	0.0703	56	0.0210	1	0.0004
8	2838	43	0.0152	26	0.0092	-	-

Stations	Total Volume (m^3)	Minnow Family		Walleye		Tessellated Darter	
		Captured	Per m^3	Captured	Per m^3	Captured	Per m^3
L B-G							
1	8289	1	0.0001	-	-	-	-
2	5798	-	-	-	-	-	-
3	2978	-	-	1	0.0003	-	-
U B-G							
5	7993	-	-	-	-	-	-
6	8133	-	-	-	-	2	0.0002
7	2661	4	0.0015	-	-	-	-
8	2838	3	0.0011	-	-	1	0.0004

Stations	Total Volume (m^3)	Rock Bass		Unidentified		Total Taxa	
		Captured	Per m^3	Captured	Per m^3	Captured	Per m^3
L B-G							
1	8289	-	-	11	0.0013	79	0.0095
2	5798	-	-	-	-	22	0.0038
3	2978	-	-	-	-	20	0.0067
U B-G							
5	7993	-	-	22	0.0028	126	0.0158
6	8133	-	-	20	0.0025	169	0.0208
7	2661	1	0.0004	23	0.0086	272	0.1022
8	2838	-	-	1	0.0004	74	0.0261

Table 85. Summary of specimens taken per m^3 of water filtered during ichthyoplankton sampling from 1974 and 1975 in Lower and Upper B-G.

Taxa	1974		1975	
	Lower B-G	Upper B-G	Lower B-G	Upper B-G
Yellow perch	0.0020	0.0030	0.0011	0.0200
Sunfish spp.	0.0014	0.0433	0.0052	0.0058
White sucker	0.0001	0.0002	-	-
Stonecat	0.0001	-	-	-
Rock bass	-	0.0001	-	0.0001
Golden shiner	-	-	0.0001	0.0002
Minnow family	-	-	0.0001	0.0003
Walleye	-	-	0.0001	-
Tessellated darter	-	-	-	0.0001
Unidentified	0.0007	0.0043	0.0006	0.0031

Table 86. Summary of total wet weight (g) of zooplankton taken from 23 June through 28 October 1975 during night surface tows in Lower B-G.

Date	Total Wet Weight (g)	Total Volume (m^3)	Zooplankton (g/m^3)
23 Jun	6.0	224	0.0268
30 Jun	22.9	224	0.1022
8 Jul	68.3	287	0.2380
15 Jul	146.9	250	0.5876
22 Jul	28.8	219	0.1315
29 Jul	101.3	236	0.4292
5 Aug	81.7	268	0.3049
12 Aug	29.5	216	0.1366
19 Aug	35.9	288	0.1247
26 Aug	15.7	233	0.0674
3 Sep	24.5	197	0.1244
9 Sep	18.6	292	0.0637
16 Sep	20.8	240	0.0867
24 Sep	14.0	266	0.0526
1 Oct	33.3	242	0.1376
7 Oct	12.6	243	0.0519
14 Oct	16.5	295	0.0559
21 Oct	17.2	202	0.0851
28 Oct	20.4	254	0.0803

Table 87. Summary of total wet weight (g) of zooplankton taken from 23 June through 28 October 1975 during night surface tows in Upper B-G.

Date	Total Wet Weight (g)	Total Volume (m^3)	Zooplankton (g/m^3)
23 Jun	25.1	344	0.0730
30 Jun	59.8	197	0.3036
7 Jul	127.5	209	0.6100
14 Jul	133.0	283	0.4700
21 Jul	64.3	327	0.1966
28 Jul	56.8	317	0.1792
4 Aug	52.1	344	0.1515
11 Aug	26.3	310	0.0848
18 Aug	11.5	400	0.0288
25 Aug	31.8	305	0.1043
3 Sep	45.3	352	0.1287
9 Sep	34.6	332	0.1042
16 Sep	38.5	343	0.1122
24 Sep	20.9	444	0.0471
1 Oct	59.7	373	0.1601
7 Oct	20.7	399	0.0519
14 Oct	49.8	360	0.1383
21 Oct	22.4	214	0.1047
28 Oct	53.6	279	0.1921

Table 88. Dates a creel census was conducted from 1 May through 1 September 1975 on Lower B-G.

Weekdays			Weekend Days		
		May			
1 May	Thursday	5.0 hours	10 May	Saturday	4.0 hours
2 May	Friday	3.5 hours	25 May	Sunday	6.0 hours
5 May	Monday	3.5 hours			
8 May	Thursday	5.0 hours			
22 May	Thursday	5.0 hours			
28 May	Wednesday	5.0 hours			
30 May	Friday	12.0 hours			
Total		39.0 hours			10.0 hours
		June			
6 Jun	Friday	10.0 hours	1 Jun	Sunday	12.0 hours
26 Jun	Thursday	12.5 hours	7 Jun	Saturday	10.0 hours
30 Jun	Monday	12.5 hours	14 Jun	Saturday	11.0 hours
			21 Jun	Saturday	11.5 hours
			22 Jun	Sunday	10.5 hours
			28 Jun	Saturday	12.5 hours
			29 Jun	Sunday	12.5 hours
Total		35.0 hours			80.0 hours
		July			
4 Jul	Friday	13.0 hours	5 Jul	Saturday	11.0 hours
10 Jul	Thursday	11.5 hours	6 Jul	Sunday	12.0 hours
18 Jul	Friday	10.5 hours	12 Jul	Saturday	12.0 hours
24 Jul	Thursday	11.0 hours	13 Jul	Sunday	12.0 hours
28 Jul	Monday	12.0 hours	19 Jul	Saturday	12.0 hours
31 Jul	Thursday	12.0 hours	20 Jul	Sunday	12.0 hours
			26 Jul	Saturday	12.0 hours
			27 Jul	Sunday	12.0 hours
Total		70.0 hours			95.0 hours
		August			
4 Aug	Monday	12.5 hours	2 Aug	Saturday	12.5 hours
8 Aug	Friday	12.5 hours	3 Aug	Sunday	12.5 hours
14 Aug	Thursday	12.5 hours	9 Aug	Saturday	12.5 hours
18 Aug	Monday	12.5 hours	10 Aug	Sunday	12.5 hours
28 Aug	Thursday	12.5 hours	16 Aug	Saturday	12.5 hours
			17 Aug	Sunday	12.5 hours
			23 Aug	Saturday	12.5 hours
			24 Aug	Sunday	12.5 hours
			30 Aug	Saturday	12.5 hours
			31 Aug	Sunday	12.5 hours
Total		62.5 hours			125.0 hours
		September			
1 Sep	Monday	12.0 hours			
Total		12.0 hours			

Table 89. Dates a creel census was conducted from 1 May through 27 September 1975 on Schoharie Creek between Schoharie Reservoir and the Breakabeen iron bridge and on Cole Hollow Creek.

Weekdays			Weekend Days		
		May			
1 May	Thursday	5.0 hours	10 May	Saturday	4.0 hours
2 May	Friday	3.5 hours	25 May	Sunday	6.0 hours
5 May	Monday	3.5 hours			
8 May	Thursday	5.0 hours			
22 May	Thursday	5.0 hours			
28 May	Wednesday	5.0 hours			
30 May	Friday	12.0 hours			
Total		39.0 hours			10.0 hours
		June			
6 Jun	Friday	10.0 hours	1 Jun	Sunday	12.0 hours
11 Jun	Wednesday	10.5 hours	7 Jun	Saturday	10.0 hours
17 Jun	Tuesday	11.0 hours	14 Jun	Saturday	11.0 hours
25 Jun	Wednesday	12.0 hours	21 Jun	Saturday	11.5 hours
26 Jun	Thursday	13.5 hours	22 Jun	Sunday	10.5 hours
30 Jun	Monday	13.5 hours	28 Jun	Saturday	13.5 hours
			29 Jun	Sunday	13.5 hours
Total		70.5 hours			82.0 hours
		July			
4 Jul	Friday	12.0 hours	5 Jul	Saturday	11.0 hours
8 Jul	Tuesday	12.0 hours	6 Jul	Sunday	12.0 hours
10 Jul	Thursday	11.0 hours	12 Jul	Saturday	12.5 hours
16 Jul	Wednesday	12.0 hours	13 Jul	Sunday	12.5 hours
18 Jul	Friday	13.0 hours	19 Jul	Saturday	13.0 hours
22 Jul	Tuesday	13.0 hours	20 Jul	Sunday	13.0 hours
24 Jul	Thursday	12.0 hours	26 Jul	Saturday	13.0 hours
28 Jul	Monday	13.0 hours	27 Jul	Sunday	13.0 hours
31 Jul	Thursday	14.0 hours			
Total		112.0 hours			100.0 hours
		August			
4 Aug	Monday	13.0 hours	2 Aug	Saturday	13.0 hours
8 Aug	Friday	13.0 hours	3 Aug	Sunday	13.0 hours
12 Aug	Tuesday	13.0 hours	9 Aug	Saturday	13.0 hours
14 Aug	Thursday	13.0 hours	10 Aug	Sunday	13.0 hours
18 Aug	Monday	13.0 hours	16 Aug	Saturday	13.0 hours
20 Aug	Wednesday	13.0 hours	17 Aug	Sunday	13.0 hours
26 Aug	Tuesday	13.0 hours	23 Aug	Saturday	13.0 hours
28 Aug	Thursday	13.0 hours	24 Aug	Sunday	13.0 hours
			30 Aug	Saturday	13.0 hours
			31 Aug	Sunday	13.0 hours
Total		104.0 hours			130.0 hours
		September			
1 Sep	Monday	12.0 hours	7 Sep	Sunday	12.0 hours
10 Sep	Wednesday	12.0 hours	14 Sep	Sunday	12.0 hours
18 Sep	Thursday	12.0 hours	20 Sep	Saturday	12.0 hours
23 Sep	Tuesday	12.0 hours	27 Sep	Saturday	12.0 hours
Total		48.0 hours			48.0 hours

Table 90. Summary of creel census data collected from 1 May through 1 September 1975 in 528.5 hours on Lower B-G.

	Boat Fishermen			Shore Fishermen			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Counted:									
Resident	0	0.0		21	23.6		21	18.8	
Non-resident	23	100.0		68	76.4		91	81.3	
Total	23			89			112		
Per Hour	0.04			0.17			0.21		
Fish Caught:									
Brown bullhead	10	58.8	0.16	31	66.0	0.25	41	64.1	0.22
Carp	0	-	-	8	17.0	0.06	8	12.5	0.04
Largemouth bass	2	11.8	0.03	2	4.3	0.02	4	6.3	0.02
Pumpkinseed	0	-	-	3	6.4	0.02	3	4.7	0.02
Smallmouth bass	1	5.9	0.02	1	2.1	0.01	2	3.1	0.01
Yellow perch	2	11.8	0.03	0	-	-	2	3.1	0.01
Walleye	1	5.9	0.02	1	2.1	0.01	2	3.1	0.01
Bluegill	0	-	-	1	2.1	0.01	1	1.7	0.01
Rock bass	1	5.9	0.02	0	-	-	1	1.7	0.01
Total	17			47			64		
Per Hour			0.27			0.38			0.34
Hours Fished:									
Total	62.50			123.25			185.75		
Per Fisherman	2.7			1.4			1.7		

Table 91. Angler opinions regarding fishing quality for pan and game fish on Lower B-G. Responses obtained from creel census questionnaires completed from 1 May through 1 September 1975.*

	Good		Fair		Poor		No Opinion	
	#	%	#	%	#	%	#	%
Pan Fish:								
Resident (n=5)	3	60.0	2	40.0	0	0.0	0	0.0
Non-resident (n=52)	16	30.8	16	30.8	14	26.9	6	11.5
Total (n=57)	19	33.3	18	31.6	14	24.6	6	10.5
Game Fish:								
Resident (n=5)	1	20.0	4	80.0	0	0.0	0	0.0
Non-resident (n=52)	11	21.2	18	34.6	17	32.7	6	11.5
Total (n=57)	12	21.1	22	38.6	17	29.8	6	10.5

* Response by party.

Table 92. Angler opinions regarding catch preferences on Lower B-G. Responses obtained from creel census questionnaires completed from 1 May through 1 September 1975.*

Species	Resident		Non-resident		Total	
	#	%	#	%	#	%
Anything	5	100.0	42	80.8	47	82.5
Bass (smallmouth and/or largemouth)	-	-	5	9.6	5	8.8
Brown bullhead	-	-	2	3.8	2	3.5
Walleye	-	-	2	3.8	2	3.5
Walleye and bass	-	-	1	1.9	1	1.8

* Response by party.

Table 93. Creel census data collected from 15 June through 15 September 1974 (264.0 hours) and from 1 May through 1 September 1975 (528.5 hours) on Lower B-G.

	1974			1975		
	#	%	Catch/hr	#	%	Catch/hr
Fishermen Counted:						
Resident	3	5.6		21	18.8	
Non-resident	51	94.4		91	81.3	
Total	54			112		
Per Hour	0.20			0.21		
Fish Caught:						
Brown bullhead	24	40.7	0.20	41	64.1	0.22
Carp	11	18.6	0.09	8	12.5	0.04
Largemouth bass	9	15.3	0.07	4	6.3	0.02
Pumpkinseed	6	10.2	0.05	3	4.7	0.02
Rock bass	3	5.1	0.02	1	1.7	0.01
Smallmouth bass	3	5.1	0.02	2	3.1	0.01
Yellow perch	2	3.4	0.02	2	3.1	0.01
Chain pickerel	1	1.7	0.01	0	-	-
Walleye	0	-	-	2	3.1	0.01
Bluegill	0	-	-	1	1.7	0.01
Total	59			64		
Per Hour			0.49			0.34
Hours Fished:						
Total	121.50			185.75		
Per Fisherman	2.3			1.7		

Table 94. Creel census data for August 1973 (96.0 hours), 1974 (96.0 hours), and 1975 (187.5 hours) on Lower B-G.

	1973			1974			1975		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Counted:									
Resident	*			0	0.0		9	21.4	
Non-resident	*			25	100.0		33	78.6	
Total	66			25			42		
Per Hour	0.69			0.26			0.22		
Fish Caught:									
Smallmouth bass	25	34.7	0.20	2	10.5	0.04	1	33.3	0.01
Pumpkinseed	21	29.2	0.16	0	-	-	0	-	-
Brown bullhead	20	27.8	0.16	12	63.2	0.26	0	-	-
Fallfish	2	2.8	0.02	0	-	-	0	-	-
Carp	2	2.8	0.02	2	10.5	0.04	2	66.7	0.03
Rock bass	1	1.4	0.01	2	10.5	0.04	0	-	-
Redbreast sunfish	1	1.4	0.01	0	-	-	0	-	-
Yellow perch	0	-	-	1	5.3	0.02	0	-	-
Total	72			19			3		
Per Hour			0.56			0.42			0.04
Hours Fished:									
Total	127.5			45.5			69.0		
Per Fisherman	1.9			1.8			1.6		

* Not determined in 1973.

Table 95. Comparison of counts of Lower B-G fishermen made from airplane and shore creel census personnel.

Method of count	Date	Time	Number of fishermen				Total fishermen
			Shore	Number per boat 1	2	3+	
Plane	5 May	1605	0	0	0	0	0
Shore	5 May	-	0	0	0	0	0
Plane	10 May	1140	0	1	0	0	1
Shore	10 May	-	0	1	0	0	1
Plane	14 Jun	1313	0	0	4	0	4
Shore	14 Jun	-	3	0	0	0	3
Plane	22 Jun	1140	7	1	0	0	8
Shore	22 Jun	-	8	1	0	0	9
Plane	19 Jul	1220	0	0	0	0	0
Shore	19 Jul	-	0	0	0	0	0
Plane	27 Jul	1134	0	0	0	0	0
Shore	27 Jul	-	0	0	0	0	0
Plane	2 Aug	1137	0	0	0	0	0
Shore	2 Aug	-	0	0	0	0	0
Plane	8 Aug	1513	0	0	0	0	0
Shore	8 Aug	-	0	0	0	0	0
Plane	10 Aug	1151	0	0	0	0	0
Shore	10 Aug	-	4	0	0	0	4

Table 96. Creel census data collected in 743.5 hours in 1975 (1 May-27 September) in three zones of Schoharie Creek between Schoharie Reservoir and the Breakabeen iron bridge.

	Zone 1			Zone 2			Zone 3			Combined		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Counted:												
Resident	23	9.3		22	20.8		15	6.1		60	10.0	
Non-resident	224	90.7		84	79.2		231	93.9		539	90.0	
Total	247			106			246			599		
Per Hour	0.33			0.14			0.33			0.81		
Fish Caught:												
Rock bass	22	33.8	0.08	5	27.8	0.05	4	4.9	0.02	31	18.9	0.05
Walleye	0	-	-	1	5.6	0.01	24	29.6	0.09	25	15.2	0.04
Carp	5	7.7	0.02	3	16.7	0.03	15	18.5	0.06	23	14.0	0.04
Pumpkinseed	15	23.1	0.06	0	-	-	4	4.9	0.02	19	11.6	0.03
Smallmouth bass	4	6.2	0.01	6	33.3	0.06	4	4.9	0.02	14	8.5	0.02
Brown bullhead	6	9.2	0.02	0	-	-	6	7.4	0.02	12	7.3	0.02
Yellow perch	0	-	-	1	5.6	0.03	10	12.3	0.04	11	6.7	0.02
Redbreast sunfish	4	6.2	0.01	0	-	-	3	3.7	0.01	7	4.3	0.01
Fallfish	2	3.1	0.01	2	11.1	0.02	2	2.5	0.01	6	3.7	0.01
Rainbow trout	4	6.2	0.01	0	-	-	1	1.2	0.01	5	3.0	0.01
Brown trout	3	4.6	0.01	0	-	-	0	-	-	3	1.8	0.01
Largemouth bass	0	-	-	0	-	-	2	2.5	0.01	2	1.2	0.01
Chain pickerel	0	-	-	0	-	-	2	2.5	0.01	2	1.2	0.01
White sucker	0	-	-	0	-	-	2	2.5	0.01	2	1.2	0.01
Shorthead redhorse	0	-	-	0	-	-	2	2.5	0.01	2	1.2	0.01
Total	65			18			81			164		
Per Hour			0.24			0.17			0.31			0.26
Hours Fished:												
Total	270.25			104.00			265.50			639.75		
Per Fisherman	1.1			1.0			1.1			1.1		

Table 97. Creel census data collected in 1973 (1 July-30 September), 1974 (15 June-15 September), and 1975 (1 May-27 September) on Schoharie Creek between Lower B-G and the Breakabeen iron bridge.

Date	Jul-Sep 1973			Jun-Sep 1974			May-Sep 1975		
Survey Hours	276.0			312.0			743.5		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Counted:									
Resident	31	12.4		22	23.2		60	10.0	
Non-resident	219	87.6		73	76.8		539	90.0	
Total	250			95			599		
Per Hour	0.80			0.34			0.81		
Fish Caught:									
Rock bass	65	28.6	0.23	11	9.7	0.08	31	18.9	0.05
Smallmouth bass	62	27.3	0.22	8	7.1	0.06	14	8.5	0.02
Pumpkinseed	42	18.5	0.15	14	12.4	0.10	19	11.6	0.03
Fallfish	10	4.4	0.03	1	0.9	0.01	6	3.7	0.01
Carp	9	4.0	0.03	7	6.2	0.05	23	14.0	0.04
Largemouth bass	7	3.1	0.02	7	6.2	0.05	2	1.2	0.01
Yellow perch	7	3.1	0.02	7	6.2	0.05	11	6.7	0.02
Chain pickerel	5	2.2	0.02	1	0.9	0.01	2	1.2	0.01
Redbreast sunfish	5	2.2	0.02	0	-	-	7	4.3	0.01
Bass spp.*	4	1.8	0.01	0	-	-	0	-	-
Walleye	3	1.3	0.01	6	5.3	0.04	25	15.2	0.04
Brown bullhead	3	1.3	0.01	50	44.2	0.36	12	7.3	0.02
Shorthead redhorse	2	0.9	0.01	0	-	-	2	1.2	0.01
White sucker	2	0.9	0.01	0	-	-	2	1.2	0.01
Bluegill	1	0.4	0.01	0	-	-	0	-	-
Logperch	1	0.4	0.01	0	-	-	0	-	-
Rainbow trout	0	-	-	1	0.9	0.01	5	3.0	0.01
Brown trout	0	-	-	0	-	-	3	1.8	0.01
Total	228			113			164		
Per Hour	0.79		0.79	0.81		0.81	0.26		0.26
Hours Fished:									
Total	287.20			139.00			639.75		
Per Fisherman	1.2			1.5			1.1		

* Smallmouth bass or largemouth bass.

Table 98. Comparison of counts of fishermen on Schoharie Creek between B-G and Breakabeen from airplane and shore creel census personnel.

Method of count	Date	Time	Total fishermen
Plane	14 Jun	1321	0
Shore	14 Jun	-	2
Plane	22 Jun	1144	1
Shore	22 Jun	-	2
Plane	8 Jul	1544	0
Shore	8 Jul	-	0
Plane	19 Jul	1223	0
Shore	19 Jul	-	2
Plane	27 Jul	1136	1
Shore	27 Jul	-	1
Plane	2 Aug	1139	1
Shore	2 Aug	-	2
Plane	8 Aug	1517	6
Shore	8 Aug	-	4
Plane	10 Aug	1153	2
Shore	10 Aug	-	0
Plane	7 Sep	1339	7
Shore	7 Sep	-	5
Plane	10 Sep	0909	0
Shore	10 Sep	-	0

Table 99. Creel census data collected in 1975 (1 May-27 September), 1974 (15 June-15 September), and 1973 (1 July-30 September) on Schoharie Creek between Schoharie Reservoir and Lower B-G (zone 1).

Date	May-Sep 75			Jun-Sep 74			Jul-Sep 73		
Survey Hours	743.5			276.0			312.0		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Counted:									
Resident	23	9.3		14	29.2		10	8.2	
Non-resident	224	90.7		34	70.8		112	91.8	
Total	247			48			122		
Per Hour	0.33			0.17			0.39		
Fish Caught:									
Rock bass	22	33.8	0.08	5	6.4	0.06	34	28.6	0.26
Pumpkinseed	15	23.1	0.06	7	9.0	0.09	37	31.1	0.29
Brown bullhead	6	9.2	0.02	50	64.1	0.62	2	1.7	0.02
Carp	5	7.7	0.02	3	3.9	0.04	0	-	-
Redbreast sunfish	4	6.2	0.01	0	-	-	4	3.4	0.03
Smallmouth bass	4	6.2	0.01	7	9.0	0.09	26	21.9	0.20
Rainbow trout	4	6.2	0.01	1	1.3	0.01	0	-	-
Brown trout	3	4.6	0.01	0	-	-	0	-	-
Fallfish	2	3.1	0.01	1	1.3	0.01	0	-	-
Largemouth bass	0	-	-	3	3.9	0.04	6	5.0	0.05
Yellow perch	0	-	-	1	1.3	0.01	6	5.0	0.05
Bass spp.*	0	-	-	0	0	0	4	3.4	0.03
Logperch	0	-	-	0	-	-	1	0.8	0.02
Total	65			78			119		
Per Hour			0.24			0.96			0.93
Hours Fished:									
Total	270.25			81.00			128.60		
Per Fisherman	1.1			1.7			1.1		

* Smallmouth bass or largemouth bass.

Table 100. Angler opinions regarding fishing quality for pan and game fish by zone on Schoharie Creek. Responses obtained from creel census questionnaires completed from 1 May through 27 September 1975.*

	Good		Fair		Poor		No Opinion	
	#	%	#	%	#	%	#	%
Zone 1								
Pan Fish:								
Resident (n=12)	7	58.3	4	33.3	1	8.3	0	0.0
Non-resident (n=107)	35	32.7	25	23.4	28	26.2	19	17.8
Total (n=119)	42	35.3	29	24.4	29	24.4	19	16.0
Game Fish:								
Resident (n=12)	5	41.7	5	41.7	2	16.7	0	0.0
Non-resident (n=107)	28	26.2	24	22.4	35	32.7	20	18.7
Total (n=119)	33	27.7	29	24.4	37	31.1	20	16.8
Zone 2								
Pan Fish:								
Resident (n=6)	2	33.3	2	33.3	2	33.3	0	0.0
Non-resident (n=39)	13	33.3	6	15.4	12	30.8	8	20.5
Total (n=45)	15	33.3	8	17.8	14	31.1	8	17.8
Game Fish:								
Resident (n=6)	2	33.3	3	50.0	1	16.7	0	0.0
Non-resident (n=39)	11	28.2	5	12.8	15	38.5	8	20.5
Total (n=45)	13	28.9	8	17.8	16	35.6	8	17.8
Zone 3								
Pan Fish:								
Resident (n=8)	5	62.5	1	12.5	2	25.0	0	0.0
Non-resident (n=99)	28	28.3	31	31.3	24	24.2	16	16.2
Total (n=107)	33	30.8	32	29.9	26	24.3	16	15.0
Game Fish:								
Resident (n=8)	4	50.0	2	25.0	2	25.0	0	0.0
Non-resident (n=99)	28	28.3	31	31.3	24	24.2	16	16.2
Total (n=107)	32	29.9	33	30.8	26	24.3	16	15.0

* Response by party.

Table 101. Angler opinions regarding catch preferences by zone on Schoharie Creek. Responses obtained from creel census questionnaires completed from 1 May through 27 September 1975.*

Species	Resident #	Resident %	Non-resident #	Non-resident %	Total #	Total %
Zone 1						
Anything	11	91.7	73	68.2	84	70.6
Bass (smallmouth and/or largemouth)	-	-	11	10.3	11	9.2
Walleye	1	8.3	6	5.6	7	5.9
Trout	-	-	7	6.5	7	5.9
Walleye and bass	-	-	3	2.8	3	2.5
Bass and trout	-	-	3	2.8	3	2.5
Carp	-	-	2	1.9	2	1.7
Walleye and trout	-	-	1	0.9	1	0.8
Rock bass	-	-	1	0.9	1	0.8
Total	12		107		119	
Zone 2						
Anything	3	50.0	30	76.9	33	73.3
Bass (smallmouth and/or largemouth)	1	16.7	4	10.3	5	11.1
Walleye	1	16.7	2	5.1	3	6.7
Walleye and bass	1	16.7	1	2.6	2	4.4
Brown bullhead	-	-	1	2.6	1	2.2
Trout	-	-	1	2.6	1	2.2
Total	6		39		45	
Zone 3						
Anything	3	37.5	62	62.6	65	60.7
Walleye	2	25.0	15	15.2	17	15.9
Bass (smallmouth and/or largemouth)	2	25.0	11	11.1	13	12.1
Trout	-	-	5	5.1	5	4.7
Walleye and bass	-	-	3	3.0	3	2.8
Bass and trout	-	-	1	1.0	1	0.9
Walleye and trout	-	-	1	1.0	1	0.9
Chain pickerel	-	-	1	1.0	1	0.9
Suckers	1	12.5	-	-	1	0.9
Total	8		99		107	

* Response by party.

Table 102. Creel census data collected in 1975 (1 May-27 September), 1974 (15 June-15 September), and 1973 (1 July-30 September) on Schoharie Creek between Lower B-G and the Breakabeen iron bridge (zone 2, the area that would have been inundated by the Breakabeen project as proposed).

Date	May-Sep 75			Jun-Sep 74			Jul-Sep 73		
Survey Hours	743.5			276.0			312.0		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Counted:									
Resident	22	20.8		1	16.7		16	16.8	
Non-resident	84	79.2		5	83.3		79	83.2	
Total	106			6			95		
Per Hour	0.14			0.02			0.30		
Fish Caught:									
Smallmouth bass	6	33.3	0.06	0	-	-	27	29.3	0.25
Rock bass	5	27.8	0.05	0	-	-	30	32.6	0.28
Carp	3	16.7	0.03	3	100.0	0.43	9	9.8	0.08
Fallfish	2	11.1	0.02	0	-	-	7	7.6	0.06
Walleye	1	5.6	0.01	0	-	-	2	2.2	0.02
Yellow perch	1	5.6	0.01	0	-	-	1	1.1	0.01
Pumpkinseed	0	-	-	0	-	-	5	5.4	0.05
Chain pickerel	0	-	-	0	-	-	2	2.2	0.02
Shorthead redhorse	0	-	-	0	-	-	2	2.2	0.02
White sucker	0	-	-	0	-	-	2	2.2	0.02
Bass spp.*	0	-	-	0	-	-	1	1.1	0.01
Brown bullhead	0	-	-	0	-	-	1	1.1	0.01
Largemouth bass	0	-	-	0	-	-	1	1.1	0.01
Redbreast sunfish	0	-	-	0	-	-	1	1.1	0.01
Bluegill	0	-	-	0	-	-	1	1.1	0.01
Total	18			3			92		
Per Hour			0.17			0.43			0.85
Hours Fished:									
Total	104.0			7.0			108.8		
Per Fisherman	1.0			1.2			1.1		

* Smallmouth bass or largemouth bass.

Table 103. Creel census data collected in 1975 (1 May-27 September), 1974 (15 June-15 September), and 1973 (1 July-30 September) on Schoharie Creek between Lower B-G and the Breakabeen iron bridge (zone 3, the area that would not have been inundated by the Breakabeen project as proposed).

Date	May-Sep 75			Jun-Sep 74			Jul-Sep 73		
Survey hours	743.5			276.0			312.0		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Counted:									
Resident	15	6.1		7	17.4		5	15.2	
Non-resident	231	93.9		34	82.9		28	84.8	
Total	246			41			33		
Per Hour	0.33			0.15			0.11		
Fish Caught:									
Walleye	24	29.6	0.09	6	18.8	0.12	1	5.9	0.02
Carp	15	18.5	0.06	0	-	-	0	-	-
Yellow perch	10	12.3	0.04	6	18.8	0.12	0	-	-
Brown bullhead	6	7.4	0.02	0	-	-	0	-	-
Rock bass	4	4.9	0.02	6	18.8	0.12	1	5.9	0.02
Pumpkinseed	4	4.9	0.02	7	21.9	0.14	0	-	-
Smallmouth bass	4	4.9	0.02	1	3.1	0.02	9	52.9	0.18
Redbreast sunfish	3	3.7	0.01	0	-	-	0	-	-
White sucker	2	2.5	0.01	0	-	-	0	-	-
Fallfish	2	2.5	0.01	1	3.1	0.02	3	17.6	0.06
Largemouth bass	2	2.5	0.01	4	12.5	0.08	0	-	-
Chain pickerel	2	2.5	0.01	1	3.1	0.02	3	17.6	0.06
Shorthead redhorse	2	2.5	0.01	0	-	-	0	-	-
Rainbow trout	1	1.2	0.01	0	-	-	0	-	-
Total	81			32			17		
Per Hour			0.31			0.63			0.34
Hours Fished:									
Total	265.50			51.00			49.80		
Per Fisherman	1.1			1.2			1.5		

Table 104. Creel census data collected from 1 May through 27 September 1975 in 743.5 hours on Cole Hollow Creek.

Date	May		Jun		Jul		Aug		Sep		May-Sep	
Survey Hours	49.0		152.5		212.0		234.0		96.0		743.5	
	#	%	#	%	#	%	#	%	#	%	#	%
Fishermen Counted:												
Resident	0	-	2	16.7	0	0.0	0	0.0	0	0.0	2	9.5
Non-resident	0	-	10	83.3	4	100.0	3	100.0	2	100.0	19	90.5
Total	0		12		4		3		2		21	
Per Hour	0.00		0.08		0.02		0.01		0.02		0.03	
Fish Caught:												
Brook trout	-		29		10		0		2		41	
Per Hour	-		1.32		2.22		0.00		4.00		1.49	
Hours Fished:												
Total	-		22.0		4.5		0.5		0.5		27.5	
Per Fisherman	-		1.8		1.1		0.2		0.3		1.3	

Table 105. Description of stream benthos stations sampled in 1975 in Schoharie Creek and Cole Hollow Creek.

Stream	Station	Stream Habitat	Substrate*	% Stream Shaded	Elevation (ft)	Location
Schoharie Creek	1	riffle	rubble	0	970	Pool at Gilboa iron bridge
	2	riffle	rubble	0	940	½ mi below Gilboa iron bridge
	3	riffle	rubble	0	940	800 ft downstream from station 2
	4	riffle	rubble	0	920	End of Lower B-G spillway pool
	5	riffle	rubble	0	880	Iron bridge north of North Blenheim
	6	riffle	rubble	0	760	Mouth of Tributary 102
	7	riffle	rubble	0	740	1 mi north of Tributary 102
	8	riffle	sand and rubble	0	720	1500 ft south of Tributary 98
	9	riffle	rubble	0	700	First iron bridge north of Breakabeen
	10	riffle	rubble	0	700	2300 ft upstream from first iron bridge
	11	riffle	sand and rubble	0	700	At Walhalla Rocks
	12	riffle	rubble	0	680	Second iron bridge north of Breakabeen
Cole Hollow Creek	CH-1	riffle	rubble	100	780	Cole Hollow Creek at crossing of Bear Ladder Road
	CH-2	riffle	rubble	100	1000	5000 ft above Bear Ladder Road
	CH-3	riffle	rubble	100	1490	500 ft above second bridge on Cole Hollow Road, 4 mi above Bear Ladder Road
	CH-4	riffle	rubble	100	1540	2300 ft upstream from CH-3, 4½ mi above Bear Ladder Road

* Roelofs 1944.

Table 106. Stream benthos collected in June, July, August, and September 1975 in two zones (12 stations) of Schoharie Creek.

Station	Zone 1*				Zone 2*										Grand
	1	2	3	Total	4	5	6	7	8	9	10	11	12	Total	Total
Mayflies	203	530	656	1389	191	658	575	312	385	980	472	357	696	4626	6015
Heptageniidae	164	474	467	1105	172	496	368	181	201	619	227	186	430	2880	3985
Baetidae	37	51	182	270	5	99	183	71	89	253	70	52	179	1001	1271
Ephemeridae	2	5	7	14	14	63	24	60	95	108	175	119	87	745	759
Dipterans	1201	610	394	2205	34	113	69	80	67	112	49	37	136	697	2902
Chironomidae	1194	598	373	2165	34	98	33	22	52	91	44	29	100	503	2668
Tipulidae	0	11	8	19	0	1	2	54	13	7	5	5	15	102	121
Rhagionidae	2	1	12	15	0	13	34	4	2	14	0	2	17	86	101
Ceratopogonidae	1	0	0	1	0	1	0	0	0	0	0	1	1	3	4
Culicidae	4	0	0	4	0	0	0	0	0	0	0	0	0	0	4
Tabanidae	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3
Simuliidae	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
Caddis flies	76	132	973	1181	22	123	272	77	43	304	21	47	66	975	2156
Hydropsychidae	16	46	805	867	11	82	197	59	17	225	7	29	35	662	1529
Philopotamidae	13	2	91	106	5	5	48	17	6	58	3	1	16	159	265
Psychomyiidae	35	76	45	156	6	29	2	0	10	3	5	1	10	66	222
Leptoceridae	2	1	22	25	0	6	17	0	10	4	5	12	4	58	83
Hydroptilidae	7	4	6	17	0	0	4	1	0	14	0	0	0	19	36
Rhyacophilidae	0	3	4	7	0	1	4	0	0	0	0	0	0	5	12
Limnephilidae	3	0	0	3	0	0	0	0	0	0	1	4	1	6	9
Beetles	6	4	23	33	4	14	68	147	26	154	44	99	39	595	628
Psephenidae	3	2	16	21	2	8	45	106	20	116	32	61	16	406	427
Elmidae	2	2	7	11	0	3	23	41	5	37	12	37	18	176	187
Haliplidae	0	0	0	0	2	3	0	0	1	0	0	1	1	8	8
Gyrinidae	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3
Dytiscidae	1	0	0	1	0	0	0	0	0	1	0	0	1	2	3
Stoneflies	0	17	43	60	0	16	70	79	12	34	18	35	41	305	365
Perlidae	0	5	21	26	0	10	70	78	12	34	18	35	39	296	322
Chloroperlidae	0	12	21	33	0	5	0	0	0	0	0	0	2	7	40
Nemouridae	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
Pteronarcidae	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
Perlodidae	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
Leeches	166	21	34	221	5	24	10	1	2	16	3	6	8	75	296
Worms	34	34	59	127	17	4	3	4	3	1	0	2	10	44	171
Scuds	113	5	10	128	4	0	0	0	0	0	0	0	0	4	132
Sow bugs	96	8	9	113	2	0	0	0	0	0	0	0	0	2	115
Hellgrammites	2	1	13	16	0	0	12	4	2	7	3	0	3	31	47
Corydalidae	2	1	13	16	0	0	12	4	2	7	3	0	3	31	47
Damselflies	2	0	1	3	0	11	4	0	1	5	0	0	4	25	28
Coenagrionidae	2	0	1	3	0	11	3	0	1	5	0	0	4	24	27
Agrionidae	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
Crayfish	4	2	0	6	0	1	2	3	7	5	1	2	0	21	27
Fish	1	1	2	4	1	0	2	4	1	4	0	1	3	16	20
Dragonflies	0	1	0	1	0	1	0	3	3	2	0	0	1	10	11
Gomphidae	0	0	0	0	0	0	0	3	3	0	0	0	0	6	6
Libellulidae	0	1	0	1	0	1	0	0	0	2	0	0	0	3	4
Aeschnidae	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Snails, clams	4	3	0	7	0	1	0	0	0	0	0	0	2	3	10

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.

Table 106 - (Continued).

Station	Zone 1*				Zone 2*										Grand Total
	1	2	3	Total	4	5	6	7	8	9	10	11	12	Total	
Bugs	4	0	2	6	0	0	0	0	0	0	0	1	0	1	7
Veliidae	3	0	2	5	0	0	0	0	0	0	0	0	0	0	5
Corixidae	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Gerridae	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Water mites	0	0	1	1	0	0	0	0	0	0	0	2	0	2	3
Spongilla flies	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
Sisyridae	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
Miscellaneous	1	4	12	17	2	1	7	4	0	5	3	1	1	24	41
Number of Organisms	1913	1373	2233	5519	282	967	1094	718	552	1629	614	590	1010	7456	12975
Number of Families	20	18	22	28	9	20	18	15	17	18	14	17	23	31	37
Number of Taxa	14	14	15	18	9	11	11	11	12	12	8	11	12	17	18
Biomass (g)	4.19	7.82	10.89	22.90	1.29	3.43	13.65	12.32	9.56	13.33	3.62	9.99	7.37	74.56	97.46

Table 107. Numerical and occurrence percentages of stream benthos collected in June, July, August, and September 1975 in two zones (12 stations) of Schoharie Creek.

Organism	% Numerical			% Occurrence		
	Zone 1*	Zone 2*	Total	Zone 1*	Zone 2*	Total
Mayflies	25.2	62.0	46.4	100.0	100.0	100.0
Dipterans	40.0	9.3	22.4	100.0	100.0	100.0
Caddis flies	21.4	13.1	16.6	100.0	100.0	100.0
Beetles	0.6	8.0	4.8	100.0	100.0	100.0
Stoneflies	1.1	4.1	2.8	66.7	88.9	83.3
Leeches	4.0	1.0	2.3	100.0	100.0	100.0
Worms	2.3	0.6	1.3	100.0	88.9	91.7
Scuds	2.3	0.1	1.0	100.0	11.1	33.3
Sow bugs	2.0	0.0	0.9	100.0	11.1	33.3
Hellgrammites	0.3	0.4	0.4	100.0	50.0	75.0
Damselflies	0.1	0.3	0.2	66.7	55.6	58.3
Crayfish	0.1	0.3	0.2	66.7	77.8	75.0
Fish	0.1	0.2	0.2	100.0	77.8	83.3
Dragonflies	0.0	0.1	0.1	33.3	55.6	50.0
Snails, clams	0.1	0.0	0.1	66.7	22.2	33.3
Bugs	0.1	0.0	0.1	66.7	11.1	25.0
Hydracarina	0.0	0.0	0.0	33.3	11.1	16.7
Spongilla flies	0.0	0.0	0.0	33.3	0.0	8.3
Miscellaneous	0.3	0.3	0.3	100.0	88.9	91.7

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.

Table 108. Mean and standard error of number of organisms, number of families, number of taxa, and biomass per sample of stream benthos collected in June, July, August, and September 1975 in two zones (12 stations) of Schoharie Creek.

	Zone 1*				Zone 2*										Grand
Station	1	2	3	Total	4	5	6	7	8	9	10	11	12	Total	Total
Mean Number of Organisms Per Sample	50	35	54	47	8	24	27	18	14	41	15	15	25	21	27
Standard Error	8.5	5.0	6.8	4.0	1.0	2.2	2.2	2.2	1.7	5.4	1.9	1.5	2.3	1.0	1.4
Mean Number of Families Per Sample	3	4	7	5	2	5	7	6	5	6	5	5	7	5	5
Standard Error	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.4	0.3	0.4	0.2	0.3	0.3	0.1	0.1
Mean Number of Taxa Per Sample	5	4	5	5	2	4	5	4	3	4	3	3	4	4	4
Standard Error	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1
Mean Biomass (g) Per Sample	0.11	0.20	0.27	0.19	0.04	0.11	0.35	0.31	0.24	0.33	0.09	0.25	0.19	0.21	0.21
Standard Error	0.03	0.04	0.04	0.02	0.01	0.02	0.15	0.07	0.08	0.09	0.02	0.09	0.06	0.03	0.02

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.

Table 109. Minimum and maximum discharges (cfs) and maximum instantaneous increase in discharge per hour in October, November, and December 1974 and in 1975 from Lower B-G.

Year	Month	Minimum Discharge	Maximum Discharge	Maximum Increase in Discharge Per Hour
1974	Oct	10	201	53
	Nov	9	508	160
	Dec	49	22,410	9,999
1975	Jan	140	6,093	756
	Feb	230	9,500	1,550
	Mar	280	9,290	2,370
	Apr	450	18,030	5,440
	May	11	3,100	550
	Jun	10	1,490	340
	Jul	5	94	33
	Aug	9	118	54
	Sep	5	400	105
	Oct	14	2,540	1,420
	Nov	9	227	100
	Dec	9	230	86

Table 110. Mean and standard error of number of organisms and number of taxa collected per sample in August and September 1973, June through August 1974, and June through September 1975 in two zones (12 stations) of Schoharie Creek.

	Zone 1*				Zone 2*										Grand
Station	1	2	3	Total	4	5	6	7	8	9	10	11	12	Total	Total
Mean Number of Organisms Per Sample - 1973	63	11	47	40	3	79	55	304	59	51	**	**	**	92	75
Standard Error	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
Mean Number of Organisms Per Sample - 1974	11	27	25	21	6	33	19	21	6	11	41	7	22	19	19
Standard Error	1.6	8.7	5.9	3.4	1.5	6.7	3.1	4.7	1.0	2.2	10.4	1.2	3.7	2.0	1.7
Mean Number of Organisms Per Sample - 1975	50	35	54	47	8	24	27	18	14	41	15	15	25	21	27
Standard Error	8.5	5.0	6.8	4.0	1.0	2.2	2.2	2.2	1.7	5.4	1.9	1.5	2.3	1.0	1.4
Mean Number of Taxa Per Sample - 1973	2	5	4	4	2	5	5	6	6	4	**	**	**	4	4
Standard Error	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
Mean Number of Taxa Per Sample - 1974	2	3	3	3	2	4	4	4	3	3	5	2	3	3	3
Standard Error	0.3	0.2	0.4	0.2	0.3	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.2	0.1	0.1
Mean Number of Taxa Per Sample - 1975	5	4	5	5	2	4	5	4	3	4	3	3	4	4	4
Standard Error	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.1	0.1

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.
** No samples taken at stations 10-12 in 1973.
*** Standard error not calculated for 1973.

Table 111. Stream benthos collected in June, July, August, and September 1975 in two zones (four stations) of Cole Hollow Creek.

	Zone 1*			Zone 2*			Grand
Station	1	2	Total	3	4	Total	Total
Mayflies	263	202	465	290	298	588	1053
Baetidae	189	146	337	164	267	431	768
Heptagenlidae	74	52	126	126	31	157	283
Ephemeridae	0	2	2	0	0	0	2
Caddis flies	129	90	219	165	636	801	1020
Leptoceridae	2	2	4	19	577	594	598
Hydropsychidae	64	52	116	81	1	82	198
Philopotamidae	23	16	39	10	12	22	61
Rhyacophilidae	23	12	35	9	17	26	61
Psychomyiidae	11	7	18	18	18	36	54
Limnephilidae	1	1	2	27	9	36	38
Hydroptilidae	0	0	0	3	2	5	5
Brachycentridae	5	0	5	0	0	0	5
Dipterans	91	36	127	150	645	795	922
Chironomidae	47	15	62	110	595	705	767
Tipulidae	28	16	44	15	21	36	80
Rhagionidae	11	4	15	22	16	38	53
Ceratopogonidae	2	0	2	3	3	6	8
Anthomyiidae	0	0	0	0	4	4	4
Dixidae	0	1	1	0	3	3	4
Tabanidae	1	0	1	0	2	2	3
Simulidae	2	0	2	0	1	1	3
Stoneflies	103	99	202	175	109	284	486
Chloroperlidae	17	33	50	60	36	96	146
Perlidae	73	58	131	7	0	7	138
Perlodidae	4	3	7	38	62	100	107
Peltoperlidae	0	2	2	54	0	54	56
Nemouridae	8	3	11	16	11	27	38
Pteronarcidae	1	0	1	0	0	0	1
Beetles	78	18	96	33	6	39	135
Psephenidae	68	5	73	0	0	0	73
Elmidae	10	13	23	32	0	32	55
Dytiscidae	0	0	0	1	5	6	6
Gyrinidae	0	0	0	0	1	1	1
Worms	7	1	8	15	1	16	24
Crayfish	9	5	14	10	0	10	24
Water mites	0	0	0	0	19	19	19
Snails, clams	0	0	0	8	1	9	9
Dragonflies	2	1	3	5	0	5	8
Gomphidae	2	0	2	2	0	2	4
Libellulidae	0	1	1	3	0	3	4
Leeches	0	3	3	2	3	5	8
Hellgrammites	1	2	3	4	0	4	7
Corydalidae	1	2	3	4	0	4	7
Bugs	0	1	1	1	0	1	2
Veliidae	0	1	1	1	0	1	2
Springtails	0	0	0	2	0	2	2
Miscellaneous	0	1	1	1	8	9	10
Number of Organisms	683	459	1142	861	1726	2587	3729
Number of Families	24	23	29	24	22	29	33
Number of Taxa	9	11	11	13	9	14	14
Biomass (g)	28.78	9.34	38.12	23.88	8.42	32.30	70.42

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.

Table 112. Numerical and occurrence percentages of stream benthos collected in June, July, August, and September 1975 in two zones (four stations) of Cole Hollow Creek.

Organism	% Numerical			% Occurrence		
	Zone 1*	Zone 2*	Total	Zone 1*	Zone 2*	Total
Mayflies	40.7	22.7	28.2	100.0	100.0	100.0
Caddis flies	19.2	31.0	27.4	100.0	100.0	100.0
Dipterans	11.1	30.7	24.7	100.0	100.0	100.0
Stoneflies	17.7	11.0	13.0	100.0	100.0	100.0
Beetles	8.4	1.5	3.6	100.0	100.0	100.0
Worms	0.7	0.6	0.6	100.0	100.0	100.0
Crayfish	1.2	0.4	0.6	100.0	50.0	75.0
Water mites	0.0	0.7	0.5	0.0	50.0	25.0
Snails, clams	0.0	0.3	0.2	0.0	100.0	50.0
Dragonflies	0.3	0.2	0.2	100.0	50.0	75.0
Leeches	0.3	0.2	0.2	50.0	100.0	75.0
Hellgrammites	0.3	0.2	0.2	100.0	50.0	75.0
Bugs	0.1	0.0	0.1	50.0	50.0	50.0
Springtails	0.0	0.1	0.1	0.0	50.0	25.0
Miscellaneous	0.1	0.3	0.3	50.0	100.0	75.0

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.

Table 113. Mean and standard error of number of organisms, number of families, number of taxa, and biomass per sample of stream benthos collected in June, July, August, and September 1975 in two zones (four stations) of Cole Hollow Creek.

Station	Zone 1*			Zone 2*			Grand Total
	1	2	Total	3	4	Total	
Mean Number of Organisms Per Sample	17	11	14	22	58	37	25
Standard Error	1.3	1.0	0.9	1.1	9.5	4.7	2.4
Mean Number of Families Per Sample	6	5	6	8	7	7	6
Standard Error	0.3	0.3	0.2	0.4	0.4	0.3	0.2
Mean Number of Taxa Per Sample	4	4	4	5	5	5	4
Standard Error	0.2	0.2	0.1	0.2	0.2	0.1	0.1
Mean Biomass (g) Per Sample	0.72	0.23	0.48	0.60	0.28	0.46	0.47
Standard Error	0.20	0.07	0.11	0.11	0.05	0.07	0.07

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.

Table 114. Mean and standard error of number of organisms, number of taxa, and biomass per sample of stream benthos collected in July and August 1974 and June through September 1975 in two zones (four stations) of Cole Hollow Creek.**

	Zone 1*			Zone 2*			Grand
Station	1	2	Total	3	4	Total	Total
Mean Number of Organisms Per Sample - 1974	21	23	22	21	32	26	24
Standard Error	2.7	6.1	3.3	7.2	6.0	4.7	2.8
Mean Number of Organisms Per Sample - 1975	17	11	14	22	58	37	25
Standard Error	1.3	1.0	0.9	1.1	9.5	4.7	2.4
Mean Number of Taxa Per Sample - 1974	5	4	4	4	4	4	4
Standard Error	0.2	0.4	0.2	0.4	0.3	0.2	0.2
Mean Number of Taxa Per Sample - 1975	4	4	4	5	5	5	4
Standard Error	0.2	0.2	0.1	0.2	0.2	0.1	0.1
Mean Biomass (g) Per Sample - 1974	0.33	0.61	0.47	0.34	0.34	0.34	0.41
Standard Error	0.06	0.19	0.06	0.09	0.09	0.06	0.05
Mean Biomass (g) Per Sample - 1975	0.72	0.23	0.48	0.60	0.28	0.46	0.47
Standard Error	0.20	0.07	0.11	0.11	0.05	0.07	0.07

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.

** Means and standard error not calculated from 1973 because of small number of samples taken.

Table 115. Descriptions of water quality stations sampled in 1975 in Lower and Upper B-G, Schoharie Creek, and three tributaries.

Station		Description
1 (run)	Schoharie Creek	Located 70 ft upstream from the Prattsville iron bridge a few feet upstream from the USGS gaging station. The banks are steep and contain large pines and hardwoods, saplings, brush, and grasses. The bottom is boulder. The elevation is 1240.00 ft.
2 (pool)	Schoharie Creek	Located 50 ft upstream from the Gilboa iron bridge on the south shore. The banks on the north side are steep and heavily forested with mixed hardwoods. The south shore is a gradual incline heavily forested with mixed hardwoods, with some open areas of grass. The bottom is boulders. The elevation is 970.00 ft.
3 (pool)	Schoharie Creek	Located 150 yd from the Lower B-G spillway and 60 ft from the end of the cement walls at the base of the spillway. The station is along the east shore, which is rocky with a 40-ft rise up to a grassy plateau. The pool is deep, with a maximum depth of 30 ft and an average depth of 18 ft. The bottom is boulder. The elevation is 820.00 ft.
4 (run)	Schoharie Creek	Located near the USGS gaging station on the west shore about 3/4 mi downstream from the Lower B-G spillway. The east bank contains mixed hardwoods with a few conifers, brush, and grasses on a flat plain. The west bank is lined with hardwoods only near the shore. Behind the trees are grasses leading up to a blacktop road. The bottom is gravel. The elevation is 800.00 ft.
5 (run)	Schoharie Creek	Located 50 ft above the covered wooden bridge north of North blenheim on the east side of the creek. The east bank is steep, consisting of large rocks and hardwoods. The bottom is boulder. The elevation is 780.00 ft.
6 (pool)	Schoharie Creek	Located 1 mi north of station 10 on a dirt road off Route 30 along the east bank of the creek. The east shore is lined with hardwoods and brush and is nearly level with the creek. The bottom is gravel. The elevation is 760.00 ft.
7 (pool)	Schoharie Creek	Located 1/4 mi north of station 6 at a point where a pool (FSP 8) is formed by Route 30 and a cement retaining wall, on the south side of the wall. The west side of the pool is lined with mixed hardwoods. The south shore is vegetated by few hardwoods and mostly grasses. The bottom is equal proportions of rubble and gravel. The elevation is 740.00 ft.
8 (run)	Schoharie Creek	Located on the north shore 70 ft upstream from the Breakabeen iron bridge on Route 30. The north shore is steep and consists of solid rock 12 ft up, with grasses and conifers on the remainder. The bottom is gravel. The elevation is 700.00 ft.
9 (run)	Schoharie Creek	Located 100 ft east of the Breakabeen bridge and Toe Path Mountain State Park on Route 30, on the north shore. The shore is grass covered for 30 ft, then runs into a large stand of mixed hardwoods. The bottom is gravel. The elevation is 680.00 ft.
10 (pool)	Tributaries of Schoharie Creek	Located 1 mi north of North Blenheim on Route 30 at Tributary 101 where it enters Schoharie Creek on the east bank. The stream width is six ft, the bottom is mud, and many small alder saplings line the banks. The elevation is about 750.00 ft.
11 (run)	Tributaries of Schoharie Creek	Located 60 ft east of the Route 30 bridge on the north shore of Tributary 97 (Keyser Kill), which enters Schoharie Creek at Breakabeen. Grasses and brush line the banks. The stream width is 10 ft, the bottom is gravel, and the elevation is 710.00 ft.
12 (run)	Tributaries of Schoharie Creek	Located about 10 ft west of a small cement bridge west of Bear Ladder Road on the north bank of Tributary 99 (Cole Hollow Creek). The banks are forested with mixed hardwoods and conifers. The stream width is 10 ft, the bottom is rubble, and the elevation is 780.00 ft.

Table 115 - (Continued).

Station		Description
13	Lower B-G	Located on the the north end of the reservoir 200 ft from the spillway and 80 ft from the west shore. The west shore has a rock cliff of about 10 ft with a steep, grass-covered slope above. Depth varied because of pumped storage operation and is 55 ft at reservoir elevation 875.00 ft.
14	Lower B-G	Located 100 yd in front of the powerhouse on the east shore of the reservoir. The east shore is predominantly rocks and boulders, with sparse vegetation. Depth is 30 ft at reservoir elevation 875.00 ft.
15	Lower B-G	Located ½ mi south of the powerhouse about 30 ft from shore in the middle of the narrows where the electrical lines cross the reservoir. The east shore is steep and lacking in vegetation, the barren shore consisting of large boulders and gravel. The west shore is less steep, with a cliff of about six ft. Above the cliff is a sparsely vegetated area for 20 ft, then mixed hardwoods and conifers. Depth is 25 ft at reservoir elevation 875.00 ft.
16	Upper B-G	Located 100 yd from the west shore bay of the reservoir near the manifold. The west shore consists of large boulders forming a dike, beyond which grasses occur. Depth is 70 ft at reservoir elevation 2000.00 ft.
17	Upper B-G	Located 100 yd from the south shore bay of the reservoir. The south shore consists of large boulders and gravel forming a dike, beyond which grasses occur. Depth is 70 ft at reservoir elevation 2000.00 ft.
18	Upper B-G	Located 90 ft west of the boat launching ramp. The south shore consists of boulders forming a dike. The east shore consists of gravel and boulders, with hardwoods and conifers beyond maximum elevation. The depth is 20 ft at reservoir elevation 2003.00 ft.

Table 116. Procedures used by Stamford IA office for water quality determinations on Schoharie Creek, three tributaries, and Lower and Upper B-G.

Parameters	Procedure	Where Measured	Units
Alkalinity	Hach DR-EL Kit	Lab	mg/l $CaCO_3$
Total hardness	Hach DR-EL Kit	Lab	mg/l $CaCO_3$
Calcium hardness	Hach DR-EL Kit	Lab	mg/l $CaCO_3$
Carbon dioxide	Hach DR-EL Kit	Field	mg/l CO_2
pH	IBC Model 180T TROpHY Meter	Lab	-
Turbidity	Hach DR-EL Kit (31 Oct 74-28 May 75)	Field	formazin turbidity units
	Hach Model 2100A Turbidimeter (5 Jun - 23 Dec 75)	Lab	nephelometer turbidity units
Secchi disc transparency*	8-inch Secchi disc	Field	inches
Dissolved oxygen	Hach DR-EL (13 Nov 74-12 Jun 75)	Field	ppm
	Azide modification of Winkler titration (Hach Powder reagents) (19 Jun-23 Dec 75)	Field	ppm
Dissolved oxygen (profiles)	Yellow Springs Instruments 51A DO meter	Field	ppm
Air temperature	Hand-held thermometer	Field	C
Water temperature	Hand-held thermometer	Field	C
Water temperature (profiles)	Thermistor thermometer	Field	C

* Measured on Lower and Upper B-G only.

Table 117. Summary of turbidity data (formazin turbidity units) taken from 31 October 1974 through 28 May 1975 and (nephelometer turbidity units) taken from 5 June through 23 December 1975 from Schoharie Creek, three tributaries, and Lower and Upper B-G.

Date	Stations																	
	Schoharie Creek									Tributaries			L B-G			U B-G		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
31 Oct	15	13	5	7	22	4	11	4	1	10	4	0	5	25	25	4	0	-
$\bar{x}$	15	13	5	7	22	4	11	4	1	10	4	0	5	25	25	4	0	-
11 Nov	-	-	-	-	-	-	-	-	-	-	-	-	0	6	3	25	3	-
13 Nov	131	85	42	19	30	43	104	78	70	11	22	18	-	-	-	-	-	-
25 Nov	10	5	13	11	7	11	13	13	12	8	7	8	-	-	-	-	-	-
26 Nov	-	-	-	-	-	-	-	-	-	-	-	-	2	5	10	5	5	-
$\bar{x}$	71	45	28	15	19	27	59	46	41	10	15	13	1	6	7	15	4	-
9 Dec	120	133	105	80	75	80	75	69	70	25	21	17	-	-	-	-	-	-
12 Dec	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	50	-
$\bar{x}$	120	133	105	80	75	80	75	69	70	25	21	17	-	-	-	35	50	-
9 Jan	30	10	22	38	20	40	30	40	20	15	11	11	-	-	-	-	-	-
10 Jan	-	-	-	-	-	-	-	-	-	-	-	-	ice*	21	18	20	ice	-
20 Jan	10	15	30	10	20	19	21	10	25	5	5	0	-	-	-	-	-	-
$\bar{x}$	20	13	26	24	20	30	26	25	23	10	8	6	-	21	18	20	-	-
5 Feb	ice	13	10	10	12	9	18	9	5	0	0	0	ice	ice	ice	ice	ice	-
27 Feb	8	50	35	35	30	20	10	13	15	0	0	0	ice	ice	ice	ice	ice	-
$\bar{x}$	8	32	23	23	21	15	14	11	10	0	0	0	-	-	-	-	-	-
4 Mar	16	45	30	27	8	5	5	10	8	0	0	3	ice	ice	ice	ice	ice	-
10 Mar	1	20	20	35	30	35	30	20	10	0	0	0	ice	ice	ice	ice	ice	-
$\bar{x}$	10	33	25	31	19	20	18	15	9	0	0	2	-	-	-	-	-	-
10 Apr	28	32	32	30	35	50	45	32	12	0	2	1	ice	ice	ice	ice	ice	-
16 Apr	-	-	-	-	-	-	-	-	-	-	-	-	20	10	25	30	22	-
24 Apr	10	2	21	20	12	12	12	4	3	0	0	0	28	28	16	20	25	27
$\bar{x}$	19	17	27	25	24	31	29	18	8	0	1	1	24	19	21	25	24	27
1 May	3	15	9	12	17	10	18	12	16	5	8	3	18	20	5	19	15	19
8 May	3	12	17	28	15	32	13	21	12	5	5	6	17	19	13	10	11	13
15 May	7	8	7	13	8	12	3	13	6	5	6	12	10	10	5	0	13	7
22 May	3	5	7	4	2	2	0	3	6	1	1	3	2	7	0	8	4	10
28 May	8	2	13	3	5	5	11	0	4	4	3	0	4	2	3	0	2	4
$\bar{x}$	5	8	11	12	9	12	9	10	9	4	5	5	10	12	5	7	9	11
Grand $\tilde{x}$	25	27	25	22	20	23	25	21	17	5	6	5	36	19	14	15	14	13
Grand $\bar{x}$**	6	7	12	13	12	12	10	9	8	3	4	4	13	14	7	10	12	13
5 Jun	4.2	3.7	4.7	2.8	3.7	5.1	4.8	2.7	2.2	2.1	0.78	1.1	1.8	2.4	3.2	1.5	1.3	1.8
12 Jun	2.7	1.0	7.8	13	9.3	9.5	6.4	4.7	5.3	120	12	15	2.0	2.5	1.3	1.6	1.5	1.7
19 Jun	2.9	0.81	2.9	2.5	2.9	2.8	3.3	2.6	2.5	2.2	0.80	1.0	2.9	2.4	2.0	2.0	2.0	2.8
25 Jun	4.0	1.2	9.3	9.5	8.9	8.9	8.6	8.9	9.1	8.9	9.0	0.82	2.7	3.0	4.0	2.0	2.1	2.5
$\bar{x}$	3.5	1.7	6.2	7.0	6.2	6.6	5.8	4.7	4.8	33.3	5.7	4.5	2.4	2.6	2.6	1.8	1.7	2.2
3 Jul	3.5	2.0	6.8	8.1	2.7	3.6	3.7	2.3	3.8	1.7	0.33	1.3	2.6	2.9	3.5	2.0	2.6	2.8
10 Jul	11	1.5	6.4	2.7	4.2	2.3	3.3	1.8	2.2	1.2	0.50	1.0	1.6	2.5	1.6	1.5	1.4	1.4
17 Jul	4.1	1.5	4.9	1.6	2.7	2.2	2.8	1.6	1.8	1.5	0.45	0.72	1.3	2.3	2.0	2.0	1.2	1.4
24 Jul	5.4	1.9	4.3	1.2	3.3	3.2	3.7	2.0	2.9	3.5	0.44	3.1	2.0	2.9	2.7	2.3	1.8	1.7
29 Jul	2.9	2.6	5.1	2.7	1.6	2.4	2.7	1.8	2.1	1.4	0.59	1.2	1.4	1.7	2.3	1.2	1.4	1.2
$\bar{x}$	5.0	1.9	6.5	2.9	2.9	2.7	3.2	1.9	2.6	1.9	0.46	1.5	1.8	2.5	2.4	1.8	1.7	1.7
7 Aug	2.3	3.6	5.9	9.2	8.0	5.6	2.4	3.4	12	1.5	9.7	2.7	2.2	3.4	4.8	2.7	3.6	2.1
14 Aug	3.2	2.4	1.6	6.3	5.7	3.6	4.2	2.5	2.3	2.4	0.70	0.80	1.8	2.8	3.5	2.8	1.7	1.5
21 Aug	3.1	1.7	1.2	3.0	1.1	2.2	2.4	3.1	2.0	3.0	0.53	0.75	4.4	3.9	4.4	2.9	2.8	2.9
26 Aug	4.3	1.4	8.4	3.9	1.7	2.9	3.1	2.0	2.0	6.0	0.54	1.0	2.3	3.1	3.4	2.6	2.8	2.4
$\bar{x}$	3.2	2.3	4.3	5.6	4.1	3.6	3.0	2.5	4.6	3.2	2.9	1.3	2.7	3.3	4.0	2.8	2.7	2.3

* ice = no samples taken because of ice cover.

** Grand mean calculated only when data were available at all 18 sites.

Table 117 - (Continued).

Date	Stations																	
	Schoharie Creek									Tributaries			L B-G			U B-G		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
4 Sep	3.5	1.8	4.4	2.8	1.3	4.0	3.0	2.0	2.1	6.0	0.45	0.81	2.6	2.1	2.2	1.8	1.9	1.5
11 Sep	2.8	1.7	5.8	2.7	1.3	2.3	3.1	1.9	5.9	0.50	0.50	0.60	4.6	3.0	3.8	2.5	2.1	1.5
17 Sep	3.1	2.4	3.3	2.7	2.2	2.5	4.6	2.5	2.9	2.2	0.60	0.70	2.2	2.7	2.2	2.5	2.7	1.7
25 Sep	63	8.3	13	23	52	67	60	75	58	22	22	50	3.9	4.7	7.1	4.7	4.6	4.1
29 Sep	5.5	6.5	13	7.9	4.4	5.2	5.2	4.0	3.9	3.2	1.5	3.5	4.4	4.6	9.4	4.1	4.0	3.7
$\bar{x}$	15.6	4.1	7.9	7.8	12.2	16.2	15.2	17.1	14.6	6.8	5.0	11.1	3.5	3.4	4.9	3.1	3.1	2.5
8 Oct	2.1	2.0	9.8	4.1	4.0	4.1	3.2	2.8	2.4	2.3	1.0	1.7	3.5	3.9	3.8	3.5	3.6	2.9
15 Oct	4.1	2.8	6.6	4.4	2.8	4.6	4.6	3.5	2.8	1.8	1.5	2.0	3.3	3.9	4.3	2.8	3.1	3.0
21 & 22 Oct	12	17	43	34	37	42	40	28	17	2.3	2.6	13	9.7	9.8	12	7.1	5.7	6.3
25 & 29 Oct	4.5	3.9	15	11	12	12	14	8.0	7.8	4.0	1.7	34	4.5	5.5	5.3	5.0	4.5	4.6
$\bar{x}$	5.7	6.4	18.6	13.4	14.0	15.7	15.5	10.6	7.5	2.6	1.7	12.7	5.3	5.8	6.4	4.6	4.2	4.2
11 Nov	9.0	3.2	6.4	5.9	6.0	15	9.6	6.4	4.3	3.5	2.1	7.0	3.8	4.0	5.0	3.1	2.5	2.5
25 Nov	3.3	2.6	6.7	4.6	4.6	7.3	6.0	5.3	4.4	2.3	0.80	14	4.9	4.5	5.3	4.5	4.3	3.0
$\bar{x}$	6.2	2.9	6.6	5.3	5.3	11.2	7.8	5.9	4.4	2.9	1.5	10.5	4.4	4.3	5.2	3.8	3.4	2.8
9 Dec	2.1	ice	4.5	3.1	5.1	4.7	4.5	4.1	2.8	2.3	1.0	2.5	4.0	4.2	4.7	5.0	3.7	4.0
23 Dec	ice	ice	3.1	2.5	3.7	ice	ice	2.8	ice	2.1	ice	ice	4.5	4.7	ice	4.3	4.9	4.6
$\bar{x}$	2.1	-	3.8	2.8	4.4	4.7	4.5	3.5	2.8	2.2	1.0	2.5	4.3	4.5	4.7	4.7	4.3	4.3
Grand $\bar{x}$	6.7	3.3	8.0	6.7	7.4	9.0	8.4	7.1	6.6	8.1	2.9	6.4	3.3	3.6	4.2	3.0	2.8	2.7
Grand $\bar{x}$**	6.9	3.2	8.4	7.0	7.6	9.2	8.5	7.4	6.7	8.6	3.0	6.6	3.2	3.5	4.1	2.9	2.7	2.5

Table 118. Summary of alkalinity data (mg/l) taken from 31 October 1974 through 23 December 1975 from Schoharie Creek and three tributaries.

Date	Stations											
	Schoharie Creek									Tributaries		
	1	2	3	4	5	6	7	8	9	10	11	12
31 Oct	15	145	40	50	70	35	55	40	35	35	30	20
13 Nov	10	100	20	20	15	15	15	10	20	10	15	15
25 Nov	10	80	30	25	20	20	20	15	20	5	15	5
9 Dec	10	10	5	10	10	10	10	10	10	5	10	10
24 Dec	15	20	25	15	15	20	25	20	25	15	20	20
9 Jan	10	15	20	25	15	20	10	20	15	20	10	10
20 Jan	20	10	15	30	15	15	15	15	20	20	20	15
5 Feb	ice*	15	15	30	15	15	15	15	15	10	15	15
27 Feb	10	10	10	10	10	10	5	10	15	15	15	5
4 Mar	10	25	10	15	10	15	10	10	15	15	15	10
10 Mar	5	10	15	15	10	10	10	15	15	15	15	15
10 Apr	20	15	15	15	15	15	15	15	15	10	15	15
1 May	20	20	20	20	15	15	20	30	20	30	15	15
19 Jun	20	15	15	20	25	20	25	25	25	35	35	25
10 Jul	20	75	30	45	40	40	40	40	35	40	40	35
14 Aug	20	115	30	35	30	35	35	35	35	40	35	40
11 Sep	25	125	45	50	55	50	50	55	30	45	55	50
15 Oct	15	100	20	20	25	25	25	25	25	30	25	15
25 Nov	10	95	25	35	20	20	20	20	25	20	15	10
23 Dec	ice	ice	25	30	20	ice	ice	20	ice	20	ice	ice

* ice = no samples taken because of ice cover.

Table 119. Summary of total hardness data (mg/l) taken from 31 October 1974 through 23 December 1975 from Schoharie Creek and three tributaries.

Date	Stations											
	Schoharie Creek									Tributaries		
	1	2	3	4	5	6	7	8	9	10	11	12
31 Oct	30	130	35	55	75	30	45	65	40	45	40	30
13 Nov	10	75	30	25	35	25	20	25	35	25	20	15
25 Nov	20	80	30	40	30	25	30	25	20	30	25	20
9 Dec	15	15	15	15	15	15	15	20	15	15	15	10
24 Dec	20	20	25	15	15	20	15	20	20	15	20	15
9 Jan	15	20	25	35	35	35	25	35	25	30	30	20
20 Jan	20	15	20	40	20	20	20	20	20	25	25	15
5 Feb	ice*	15	15	30	15	20	15	15	20	25	20	15
27 Feb	20	15	15	15	15	15	15	15	20	20	10	10
4 Mar	15	15	15	35	15	15	15	10	10	20	15	10
10 Mar	15	15	15	15	15	15	15	15	20	10	15	15
10 Apr	20	25	20	20	20	20	20	15	20	15	15	15
1 May	20	20	25	30	35	25	25	35	25	35	20	15
19 Jun	15	20	20	30	25	20	25	25	25	35	35	25
10 Jul	30	95	35	60	50	50	50	45	50	50	45	40
14 Aug	20	115	30	40	35	30	35	35	35	45	40	40
11 Sep	25	115	60	55	50	55	55	60	40	55	50	40
15 Oct	15	90	25	30	30	25	25	25	25	30	25	15
25 Nov	15	110	35	40	35	25	35	30	25	35	30	20
23 Dec	ice	ice	30	30	25	ice	ice	25	ice	25	ice	ice

* ice = no samples taken because of ice cover.

Table 120. Summary of calcium hardness data (mg/l) taken from 31 October 1974 through 23 December 1975 from Schoharie Creek and three tributaries.

Date	Stations											
	Schoharie Creek									Tributaries		
	1	2	3	4	5	6	7	8	9	10	11	12
31 Oct	15	100	30	40	65	30	40	40	35	30	35	15
13 Nov	10	55	20	20	15	20	15	20	20	20	15	10
25 Nov	10	70	20	25	20	15	20	20	15	15	15	10
9 Dec	10	10	10	15	15	15	10	15	10	10	10	10
24 Dec	20	20	15	15	15	15	15	20	15	15	15	15
9 Jan	15	15	25	30	25	25	20	25	20	25	20	15
20 Jan	15	15	20	30	15	20	15	20	20	25	25	10
5 Feb	ice*	15	10	25	15	15	15	15	15	20	15	15
27 Feb	15	10	10	15	10	10	10	10	15	15	10	10
4 Mar	10	10	10	25	10	10	10	10	10	15	10	10
10 Mar	10	10	15	15	10	10	10	10	15	10	15	10
10 Apr	15	20	15	15	15	10	15	10	15	10	10	15
1 May	15	15	15	20	20	15	20	30	15	25	15	10
19 Jun	15	15	15	25	20	20	20	25	25	30	30	15
10 Jul	20	70	30	50	40	40	40	35	45	40	35	25
14 Aug	15	90	25	35	30	25	30	30	30	30	35	30
11 Sep	25	75	30	35	30	30	30	30	25	30	30	25
15 Oct	15	85	25	25	30	25	25	25	25	30	25	15
25 Nov	15	100	30	35	30	25	25	25	20	25	20	15
23 Dec	ice	ice	20	30	20	ice	ice	20	ice	20	ice	ice

* ice = no samples taken because of ice cover.

Table 121. Summary of carbon dioxide data (mg/l) taken from 31 October 1974 through 23 December 1975 from Schoharie Creek and three tributaries.

Date	Stations											
	Schoharie Creek									Tributaries		
	1	2	3	4	5	6	7	8	9	10	11	12
31 Oct	2	8	2	2	2	2	2	2	2	2	2	2
13 Nov	2	2	2	2	2	2	2	2	2	2	2	2
25 Nov	2	2	2	2	2	2	2	2	2	2	2	2
9 Dec	2	2	2	2	2	2	2	2	2	2	2	2
24 Dec	2	2	2	2	2	2	2	2	2	2	2	2
9 Jan	2	2	2	2	2	2	2	2	2	2	2	2
20 Jan	2	2	2	2	2	2	2	2	2	2	2	2
5 Feb	ice*	2	2	2	2	2	2	2	2	2	2	2
27 Feb	2	2	2	2	2	2	2	2	2	2	2	2
4 Mar	2	2	2	2	2	2	2	2	2	2	2	2
10 Mar	2	2	2	2	2	2	2	2	2	2	2	2
10 Apr	2	2	2	2	2	2	2	2	2	2	2	2
1 May	2	2	2	2	2	2	2	2	2	2	2	2
19 Jun	2	2	2	2	2	2	2	2	2	2	2	2
10 Jul	2	2	2	2	2	2	2	2	2	2	2	2
14 Aug	2	2	2	2	2	2	2	2	2	2	2	2
11 Sep	2	2	2	2	2	2	2	4	2	2	2	2
15 Oct	2	2	2	2	2	2	2	2	2	2	2	2
25 Nov	2	2	2	2	2	2	2	2	2	2	2	2
23 Dec	ice	ice	2	2	2	ice	ice	2	ice	2	ice	ice

* ice = no samples taken because of ice cover.

Table 122. Summary of hydrogen ion data (pH) taken from 31 October 1974 through 23 December 1975 from Schoharie Creek and three tributaries.

Date	Stations											
	Schoharie Creek									Tributaries		
	1	2	3	4	5	6	7	8	9	10	11	12
31 Oct	7.7	8.0	8.1	7.9	7.8	7.9	7.8	7.9	7.9	7.7	8.2	8.0
13 Nov	8.1	7.6	7.8	7.8	7.4	7.6	7.6	7.6	7.5	7.7	7.8	7.5
25 Nov	7.9	7.5	7.8	7.7	7.3	7.6	7.4	7.4	7.5	7.8	7.6	7.6
9 Dec	7.5	7.4	7.3	7.4	7.3	7.4	7.4	7.4	7.2	7.2	7.2	7.3
24 Dec	7.4	7.8	7.8	7.3	7.4	7.6	7.6	7.5	7.5	7.7	7.5	7.6
9 Jan	7.3	7.2	7.0	7.4	8.8	7.4	7.4	7.8	7.0	7.8	7.4	7.7
20 Jan	7.3	7.4	7.8	7.6	8.0	7.6	8.0	8.0	7.7	8.2	8.0	8.0
5 Feb	ice*	7.9	7.8	7.8	7.9	8.0	7.6	7.5	8.2	7.4	7.6	8.0
27 Feb	7.2	7.3	7.3	7.2	7.4	7.4	7.4	7.5	7.4	7.5	7.4	7.5
4 Mar	7.4	7.5	7.4	7.6	7.7	7.5	7.4	7.4	7.8	7.5	7.5	7.8
10 Mar	7.3	7.7	7.4	7.6	7.2	7.7	7.8	7.8	7.4	7.7	7.8	7.9
10 Apr	7.9	7.7	7.7	7.6	7.5	8.0	7.9	7.9	7.8	7.3	7.7	7.3
1 May	7.4	7.4	7.3	7.6	7.1	7.6	7.3	7.1	7.4	7.4	7.2	8.2
19 Jun	7.6	7.6	7.5	7.4	7.5	7.6	7.6	7.5	7.5	7.3	7.5	7.5
10 Jul	7.4	7.8	7.3	7.2	7.7	7.1	7.5	7.8	7.3	7.1	8.1	7.3
14 Aug	7.8	7.9	7.4	7.3	7.3	7.4	7.5	7.9	7.5	7.2	8.5	7.3
11 Sep	7.4	7.8	8.0	7.9	7.3	7.7	7.7	7.9	7.3	7.5	8.6	7.7
15 Oct	7.3	7.3	8.0	7.4	7.4	7.0	7.0	7.1	7.0	7.1	7.2	7.0
25 Nov	7.4	7.3	7.7	7.1	7.4	7.4	7.2	7.5	7.3	7.4	7.4	7.0
23 Dec	ice	ice	7.5	7.5	7.7	ice	ice	7.4	ice	7.5	ice	ice

* ice = no samples taken because of ice cover.

Table 123. Summary of air temperature data (C) taken from 31 October 1974 through 23 December 1975 from Schoharie Creek, three tributaries, and Lower and Upper B-G.

Date	Stations																	
	Schoharie Creek									Tributaries			L B-G			U B-G		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
31 Oct	14	20	17	15	16	16	16	16	16	12	16	10	19	19	19	16	19	-
11 Nov	-	-	-	-	-	-	-	-	-	-	-	-	11	13	12	15	16	-
13 Nov	18	11	7	8	8	8	7	11	8	8	7	8	-	-	-	-	-	-
25 Nov	2	2	2	2	2	2	2	2	2	2	2	2	-	-	-	-	-	-
26 Nov	-	-	-	-	-	-	-	-	-	-	-	-	-4	-4	-4	-3	-3	-
9 Dec	3	2	1	2	4	4	3	4	4	4	4	7	-	-	-	-	-	-
12 Dec	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	-
23 Dec	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	-1	-1	-
24 Dec	4	3	3	3	3	3	3	3	3	3	3	4	-	-	-	-	-	-
9 Jan	7	7	5	5	4	4	3	2	3	5	3	6	-	-	-	-	-	-
10 Jan	-	-	-	-	-	-	-	-	-	-	-	-	ice*	2	3	2	ice	-
20 Jan	-12	-13	-12	-12	-12	-13	-13	-12	-13	-12	-12	-13	-	-	-	-	-	-
5 Feb	ice	-1	-2	-1	-2	-2	-2	-2	-2	-2	-2	-2	ice	ice	ice	ice	ice	-
27 Feb	2	1	2	1	1	1	0	1	1	0	1	1	ice	ice	ice	ice	ice	-
4 Mar	1	0	-2	-2	-1	-1	-1	-1	-1	0	-1	0	ice	ice	ice	ice	ice	-
10 Mar	0	0	-1	-3	-2	0	0	-2	-1	-1	-1	-1	ice	ice	ice	ice	ice	-
10 Apr	2	2	2	2	2	3	3	3	3	3	3	3	-	-	-	-	-	-
16 Apr	-	-	-	-	-	-	-	-	-	-	-	-	9	9	11	12	12	-
24 Apr	16	16	16	16	15	14	15	14	16	14	16	14	15	15	14	10	10	10
1 May	11	13	16	16	13	12	13	12	12	12	12	13	15	15	15	14	14	14
8 May	17	17	19	19	21	20	20	20	20	19	20	21	18	18	18	13	13	13
15 May	16	16	26	26	28	28	27	28	28	26	27	28	23	23	23	20	20	20
22 May	19	23	21	21	24	26	27	24	24	26	27	26	21	21	21	23	23	23
28 May	17	20	18	28	26	23	23	24	24	21	24	24	21	21	21	20	20	20
5 Jun	15	15	14	18	18	16	16	16	16	18	16	16	16	16	16	15	15	15
12 Jun	15	17	17	17	18	18	18	18	18	18	18	18	18	18	18	17	17	17
19 Jun	26	23	29	29	25	22	23	26	30	22	30	25	29	29	30	27	27	27
26 Jun	22	23	27	25	29	27	27	29	30	27	30	27	27	27	27	25	25	25
3 Jul	27	28	26	28	28	27	27	27	27	28	27	28	26	26	26	25	25	25
10 Jul	21	27	23	23	26	24	24	27	27	23	27	26	29	28	28	23	23	23
17 Jul	28	29	30	30	30	29	29	29	29	30	29	30	28	28	28	23	23	23
24 Jul	27	29	28	28	27	26	26	26	26	26	26	27	31	31	31	29	29	29
29 Jul	22	24	26	26	27	26	26	27	27	26	27	27	25	25	25	23	23	23
7 Aug	15	14	14	14	15	15	15	15	15	15	15	15	15	15	15	13	13	13
14 Aug	24	27	26	26	28	27	27	27	27	27	28	27	27	27	27	23	23	23
21 Aug	21	20	24	25	21	22	22	23	26	22	23	27	28	28	28	26	26	26
26 Aug	29	33	32	33	31	32	30	32	31	30	32	31	33	33	33	28	28	28
4 Sep	21	22	26	26	20	22	22	21	22	21	24	20	24	24	24	20	20	20
11 Sep	16	24	22	25	23	26	24	27	27	24	25	25	24	24	24	21	21	21
17 Sep	13	14	18	18	19	19	19	19	19	19	19	19	19	19	19	13	13	13
25 Sep	11	12	14	14	14	14	14	14	14	14	14	14	16	16	16	21	21	21
29 Sep	10	23	21	21	20	23	21	21	22	16	22	18	16	16	16	18	18	18
8 Oct	4	12	13	13	17	16	16	18	18	13	16	17	20	18	18	18	18	19
15 Oct	16	20	22	22	25	19	19	25	25	22	19	25	25	25	25	22	22	22
21 & 22 Oct	10	13	14	14	20	17	17	19	19	17	17	20	13	13	13	17	17	17
28 & 29 Oct	11	19	19	19	20	20	20	21	21	19	20	20	13	13	13	12	12	12
11 Nov	7	7	10	10	12	10	10	12	12	10	10	12	12	12	12	10	10	10
25 Nov	1	4	1	1	2	2	1	1	1	2	1	1	2	2	2	0	0	0
9 Dec	-1	ice	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1
23 Dec	ice	ice	-1	-3	3	ice	ice	-3	ice	-3	ice	ice	-4	-4	ice	-7	-7	-7

* ice = no samples taken because of ice cover.

Table 124. Summary of water temperature data (C) taken from 31 October 1974 through 23 December 1975 from Schoharie Creek and three tributaries.

Date	Stations											
	Schoharie Creek									Tributaries		
	1	2	3	4	5	6	7	8	9	10	11	12
31 Oct	10	13	12	14	13	12	13	12	12	12	10	10
13 Nov	7	7	9	9	7	9	7	7	6	6	6	5
25 Nov	5	5	7	7	5	5	5	6	6	5	6	4
9 Dec	3	2	2	2	4	3	4	3	4	2	2	2
24 Dec	1	2	2	2	2	2	2	2	2	1	2	2
9 Jan	1	1	2	2	1	2	2	2	2	1	1	1
20 Jan	-1	-1	0	0	-1	0	0	-1	-1	0	-1	-1
5 Feb	ice*	0	0	0	0	1	1	0	0	1	0	0
27 Feb	1	1	1	1	1	1	1	1	1	0	0	1
4 Mar	0	1	1	1	1	0	0	1	0	0	0	0
10 Mar	0	1	1	1	0	0	0	0	0	0	0	0
10 Apr	1	1	1	1	1	1	1	1	2	1	1	0
24 Apr	8	6	7	8	8	7	8	8	8	7	8	7
1 May	10	8	8	8	8	8	8	9	8	8	9	7
5 May	8	9	9	10	13	10	10	11	11	12	12	10
15 May	11	13	13	13	15	14	14	14	15	13	15	12
22 May	17	16	16	15	18	18	18	19	19	15	19	16
28 May	16	18	17	18	20	18	18	20	19	16	18	15
5 Jun	15	18	12	14	14	15	15	16	15	12	14	12
12 Jun	15	18	17	17	17	17	17	17	16	14	14	13
19 Jun	20	21	20	22	21	20	20	21	21	15	18	16
25 Jun	22	20	20	24	25	23	26	26	27	17	23	18
3 Jul	23	19	19	23	24	23	23	25	26	17	23	17
10 Jul	22	25	20	24	25	23	24	27	26	16	23	18
17 Jul	23	23	25	26	26	26	27	27	27	17	25	19
24 Jul	23	26	22	24	25	24	26	26	26	19	24	20
29 Jul	20	25	20	24	23	23	24	24	26	17	22	17
7 Aug	17	21	19	18	18	18	19	18	18	16	16	15
14 Aug	21	24	23	24	26	22	24	25	26	18	23	18
21 Aug	18	21	23	22	22	20	21	21	22	15	19	15
26 Aug	24	24	25	23	27	25	26	27	26	20	25	19
4 Sep	16	20	22	22	19	18	20	20	19	16	17	13
11 Sep	13	17	21	23	21	17	18	19	19	16	18	13
17 Sep	14	15	19	19	17	15	17	17	18	14	15	13
25 Sep	13	15	17	16	14	13	13	13	13	13	13	12
29 Sep	11	16	17	19	16	13	16	14	15	14	13	11
8 Oct	9	12	16	14	12	11	11	12	12	12	10	9
15 Oct	12	13	16	16	16	14	15	15	15	14	13	13
21 Oct	10	11	13	13	12	11	11	12	11	11	11	10
28 Oct	10	12	14	14	13	10	13	12	12	13	11	10
11 Nov	9	10	13	12	12	10	11	11	11	10	9	9
25 Nov	3	5	9	8	6	5	4	4	4	5	3	3
9 Dec	1	ice	5	4	3	2	1	1	1	3	1	1
23 Dec	ice	ice	3	2	1	ice	ice	1	ice	3	ice	ice

* ice = no samples taken because of ice cover.

Table 125. Summary of dissolved oxygen data (ppm) taken from 31 October 1974 through 23 December 1975 from Schoharie Creek and three tributaries.

Date	Stations											
	Schoharie Creek									Tributaries		
	1	2	3	4	5	6	7	8	9	10	11	12
31 Oct*	10.2	7.2	9.2	9.8	7.6	9.8	9.6	8.7	8.6	6.8	7.9	9.5
13 Nov**	11	11	13	12	10	13	13	13	12	13	14	11
25 Nov	11	11	12	12	11	12	11	12	12	12	6	12
9 Dec	12	12	12	13	13	13	13	8	11	12	11	13
24 Dec	12	11	12	12	12	11	12	13	12	12	13	11
9 Jan	15	11	13	13	14	11	10	14	10	13	13	13
20 Jan	13	13	13	12	14	14	15	13	13	12	12	14
5 Feb	ice#	14	14	14	13	15	15	13	14	13	13	13
27 Feb	13	14	15	15	14	15	14	15	14	14	14	14
4 Mar	12	12	15	13	12	12	12	10	13	14	12	15
10 Mar	12	12	12	13	12	12	12	13	12	12	13	13
10 Apr	13	14	15	14	15	14	13	13	14	15	14	15
24 Apr	15	15	15	15	15	15	15	15	15	14	14	15
1 May	14	15	15	14	9	11	9	15	13	15	15	15
8 May	15	15	15	15	15	15	15	15	15	9	15	14
15 May	14	14	15	15	15	15	15	15	15	13	14	14
22 May	14	13	15	15	14	14	15	14	15	13	13	13
28 May	12	12	14	14	12	12	12	14	13	13	13	13
5 Jun	10	9	9	10	10	10	10	10	10	11	10	10
12 Jun	10	10	10	10	10	10	10	10	10	10	10	11
19 Jun@	9.6	9.1	9.0	9.7	9.2	9.0	9.5	8.7	9.3	8.5	9.5	9.7
25 Jun	9.3	8.0	9.3	9.5	8.9	8.9	8.6	8.9	9.1	8.9	9.0	9.5
3 Jul	9.0	10.3	9.5	9.2	9.8	9.0	9.0	9.1	10.0	8.9	9.0	9.1
10 Jul	9.0	9.8	9.7	9.7	10.6	9.0	9.3	9.7	9.5	9.5	9.3	9.3
17 Jul	8.9	8.7	9.0	8.5	9.7	9.2	8.3	8.8	9.7	9.5	9.8	8.9
24 Jul	9.5	9.8	9.8	10.3	10.0	9.8	10.2	10.5	11.5	10.3	9.9	9.8
29 Jul	9.5	9.7	10.0	9.3	10.2	8.9	8.7	9.0	9.2	9.4	9.2	9.0
7 Aug	9.6	6.9	8.0	9.2	9.4	9.1	8.5	9.1	9.1	9.0	9.7	9.4
14 Aug	9.2	8.9	8.6	8.9	8.9	8.8	8.8	9.2	9.7	8.9	9.6	8.9
21 Aug	9.6	7.5	8.6	9.6	8.6	8.5	9.0	10.6	9.1	9.8	10.2	9.6
26 Aug	8.7	10.0	8.9	9.3	7.6	8.4	8.5	8.7	9.9	8.9	9.0	8.6
4 Sep	10.2	10.1	9.5	9.5	9.1	9.8	10.4	10.1	10.4	9.8	10.5	10.1
11 Sep	10.3	8.4	9.6	9.5	9.4	9.6	9.4	10.2	9.3	9.9	10.2	10.1
17 Sep	10.2	8.7	9.8	11.1	10.5	10.3	10.8	11.0	10.4	10.0	11.2	10.7
25 Sep	10.2	7.5	9.8	10.1	10.4	10.5	10.5	10.4	10.5	10.1	11.0	10.7
29 Sep	11.1	8.3	9.9	10.4	10.4	11.2	11.5	10.8	9.6	9.0	10.5	10.3
8 Oct	11.6	9.3	10.4	11.5	12.5	11.3	11.0	12.3	11.8	10.1	12.1	11.7
15 Oct	10.3	9.5	10.8	10.4	10.1	11.3	10.0	11.1	10.4	9.5	10.8	10.7
22 Oct	11.0	8.0	10.4	10.7	10.0	10.9	9.8	11.0	10.7	10.4	11.0	11.2
28 Oct	11.6	10.0	11.0	12.6	10.9	12.4	12.0	12.5	11.3	10.6	11.8	11.4
11 Nov	11.2	11.3	11.6	12.7	12.1	12.2	11.5	13.1	11.2	11.5	12.1	11.7
25 Nov	12.8	12.3	11.2	12.8	11.9	13.8	13.2	13.8	12.3	11.7	13.3	13.0
9 Dec	13.9	ice	12.2	13.1	13.8	14.1	13.0	14.5	13.5	12.5	14.2	13.2
23 Dec	ice	ice	13.4	13.7	14.3	ice	ice	14.3	ice	13.0	ice	ice

* Y.S.I. 51A Dissolved Oxygen Meter
** Hach DR-EL Kit 13 Nov 1974-12 Jun 1975
\# ice = no samples taken because of ice cover.
@ Azide modification of Winkler titration - Hach Reagents 19 Jun-23 Dec 1975

Table 126. Summary of Secchi disc transparency (inches) taken from 31 October 1974 through 23 December 1975 in Lower and Upper B-G.

Date	Stations					
	L B-G			U B-G		
	13	14	15	16	17	18
31 Oct	72	46	47	60	72	-
$\bar{x}$	72	46	47	60	72	
11 Nov	78	72	72	76	68	-
26 Nov	50	36	36	48	49	-
$\bar{x}$	64	54	54	62	59	-
12 Dec	8	8	8	12	12	-
23 Dec	24	20	20	12	18	-
$\bar{x}$	16	14	14	12	15	-
10 Jan	ice*	20	28	21	ice	-
$\bar{x}$	-	20	28	21	-	-
16 Apr	17	17	20	15	17	-
24 Apr	15	12	18	20	15	15
$\bar{x}$	16	15	19	18	16	15
1 May	19	17	32	20	19	19
8 May	22	20	37	26	26	23
15 May	25	37	59	39	35	37
22 May	65	46	63	57	41	39
28 May	76	52	108	51	55	65
$\bar{x}$	41	34	60	39	35	37
12 Jun	73	60	92	82	83	86
19 Jun	97	74	91	60	60	60
25 Jun	79	59	42	85	88	66
$\bar{x}$	83	64	75	76	77	77
3 Jul	87	67	55	96	88	111
10 Jul	90	70	73	72	64	81
17 Jul	144	96	98	114	126	130
24 Jul	105	68	72	84	97	105
29 Jul	140	110	82	122	126	132
$\bar{x}$	113	82	76	98	100	112
7 Aug	108	58	48	78	61	73
14 Aug	96	72	52	84	88	84
21 Aug	54	50	52	70	79	76
26 Aug	84	62	64	71	65	66
$\bar{x}$	86	61	54	76	73	75
4 Sep	62	69	73	96	96	104
11 Sep	46	58	54	76	83	97
17 Sep	78	68	73	71	72	92
26 Sep	50	46	34	48	52	58
29 Sep	36	37	25	44	47	52
$\bar{x}$	54	56	52	67	70	81
8 Oct	59	59	64	63	65	75
15 Oct	58	53	49	60	61	88
22 Oct	23	22	20	38	43	43
29 Oct	47	44	46	48	57	58
$\bar{x}$	47	45	45	52	57	66
11 Nov	56	56	50	65	63	67
25 Nov	50	54	48	56	56	69
$\bar{x}$	53	55	49	61	60	68
9 Dec	51	52	68	45	42	52
23 Dec	54	54	ice	45	43	45
$\bar{x}$	53	53	68	45	43	49
Grand $\bar{x}$	62	51	53	60	60	70
Grand $\bar{x}$**	67	55	58	65	66	71

* ice = no samples taken because of ice cover.

** Grand mean calculated only when data were available at all six stations.

Table 127. Summary of alkalinity data (mg/l) taken from 31 October 1974 through 23 December 1975 from Lower and Upper B-G.

Stations*		Dates													
		31 Oct	11 Nov	26 Nov	12 Dec	23 Dec	10 Jan	16 Apr	1 May	19 Jun	10 Jul	14 Aug	11 Sep	15 Oct	25 Nov	23 Dec
13	Surface	35	35	35	25	15	ice**	10	15	20	30	15	20	30	25	25
	Mid-depth	40	35	30	25	20	ice	15	15	15	30	20	20	30	25	35
	Bottom	45	35	30	25	20	ice	15	25	20	40	20	20	35	25	30
14	Surface	40	35	30	20	20	15	15	15	15	20	20	25	35	30	25
	Mid-depth	40	35	30	25	20	15	15	20	15	25	20	20	30	25	25
	Bottom	40	35	30	25	20	15	20	20	15	20	20	25	30	25	20
15	Surface	40	40	35	20	15	15	20	20	20	20	25	25	30	30	ice
	Mid-depth	40	50	30	20	15	15	20	20	20	20	25	25	35	30	ice
	Bottom	45	50	30	20	15	15	20	20	15	20	25	20	40	30	ice
16	Surface	40	35	35	20	20	15	15	20	15	20	25	20	30	25	30
	Mid-depth	40	35	35	25	20	15	15	20	15	20	20	20	25	25	30
	Bottom	40	35	35	25	20	15	15	20	15	20	20	20	30	25	30
17	Surface	40	35	35	25	20	ice	15	15	15	30	20	25	30	25	30
	Mid-depth	40	35	35	25	20	ice	15	20	15	30	20	20	30	25	30
	Bottom	40	35	35	20	20	ice	15	15	15	35	20	20	25	20	30
18	Surface	-	-	-	-	-	-	-	15	15	20	20	20	30	25	35
	Mid-depth	-	-	-	-	-	-	-	20	15	20	20	20	30	30	35
	Bottom	-	-	-	-	-	-	-	15	15	20	25	20	20	25	30

* Stations: 13-15 Lower B-G
16-18 Upper B-G

** ice = no samples taken because of ice cover.

Table 128. Summary of total hardness data (mg/l) taken from 31 October 1974 through 23 December 1975 in Lower and Upper B-G.

Stations*		Dates													
		31 Oct	11 Nov	26 Nov	12 Dec	23 Dec	10 Jan	16 Apr	1 May	19 Jun	10 Jul	14 Aug	11 Sep	15 Oct	25 Nov	23 Dec
13	Surface	40	35	30	25	20	ice**	15	15	20	30	30	30	30	30	35
	Mid-depth	40	35	30	25	20	ice	15	20	20	30	30	30	30	30	35
	Bottom	35	35	30	25	20	ice	15	30	20	40	30	30	35	35	35
14	Surface	40	35	30	20	20	20	15	25	20	25	25	30	35	25	30
	Mid-depth	40	35	30	25	20	20	15	25	20	30	25	30	30	25	30
	Bottom	40	35	30	25	20	20	15	25	20	25	25	35	35	30	30
15	Surface	40	40	30	15	20	15	15	30	20	30	35	30	25	30	ice
	Mid-depth	40	50	30	15	15	15	15	25	20	25	30	30	30	30	ice
	Bottom	40	55	30	15	15	15	15	25	20	30	30	25	35	30	ice
16	Surface	40	40	30	20	20	20	15	15	25	25	30	30	25	25	30
	Mid-depth	40	35	30	25	20	20	15	20	20	25	30	30	25	30	35
	Bottom	40	35	30	25	20	20	15	15	20	30	25	25	30	30	30
17	Surface	35	40	30	25	20	ice	15	15	20	30	25	30	25	30	30
	Mid-depth	35	35	30	25	20	ice	15	15	20	30	25	30	30	30	30
	Bottom	35	35	30	20	20	ice	15	15	20	30	25	30	30	25	30
18	Surface	-	-	-	-	-	-	-	20	25	15	30	30	30	30	35
	Mid-depth	-	-	-	-	-	-	-	15	25	25	25	30	30	35	35
	Bottom	-	-	-	-	-	-	-	20	25	25	25	30	30	30	35

* Stations: 13-15 Lower B-G
16-18 Upper B-G

** ice = no samples taken because of ice cover.

Table 129. Summary of calcium hardness data (mg/l) taken from 31 October 1974 through 23 December 1975 in Lower and Upper B-G.

Stations*		Dates													
		31 Oct	11 Nov	26 Nov	12 Dec	23 Dec	10 Jan	16 Apr	1 May	19 Jun	10 Jul	14 Aug	11 Sep	15 Oct	25 Nov	23 Dec
13	Surface	30	30	25	20	15	ice**	10	15	15	20	20	25	25	25	30
	Mid-depth	30	30	25	20	15	ice	10	15	15	30	25	25	25	30	30
	Bottom	35	30	25	20	20	ice	10	20	15	30	25	25	20	30	30
14	Surface	30	30	25	20	15	15	10	20	15	20	15	25	25	25	30
	Mid-depth	30	30	25	20	15	20	10	20	15	20	25	20	20	25	30
	Bottom	30	30	25	20	15	20	10	20	15	20	20	25	25	30	30
15	Surface	35	35	25	15	15	15	10	20	15	20	25	30	25	30	ice
	Mid-depth	35	40	25	15	15	15	10	15	15	20	25	25	25	30	ice
	Bottom	35	40	25	15	15	15	10	15	15	20	25	25	25	30	ice
16	Surface	35	30	25	20	15	20	10	15	20	15	25	25	25	20	30
	Mid-depth	35	25	25	20	15	20	10	15	15	20	20	25	25	25	30
	Bottom	35	25	25	20	15	20	10	15	15	20	25	25	25	25	30
17	Surface	30	35	25	15	15	ice	10	10	15	20	25	25	25	30	30
	Mid-depth	30	30	25	15	15	ice	10	15	15	25	25	30	25	30	30
	Bottom	30	25	25	15	15	ice	10	15	15	25	25	25	25	25	30
18	Surface	-	-	-	-	-	-	-	15	20	15	25	25	30	30	30
	Mid-depth	-	-	-	-	-	-	-	15	20	20	25	25	30	30	30
	Bottom	-	-	-	-	-	-	-	15	20	20	20	30	25	30	30

* Stations: 13-15 Lower B-G
16-18 Upper B-G

** ice = no samples taken because of ice cover.

Table 130. Summary of carbon dioxide data (mg/1) taken from 31 October 1974 through 23 December 1975 from Lower and Upper B-G.

Stations*		Dates													
		31 Oct	11 Nov	26 Nov	12 Dec	23 Dec	10 Jan	16 Apr	1 May	19 Jun	10 Jul	14 Aug	11 Sep	15 Oct	25 Nov	23 Dec
13	Surface	2	2	2	2	2	ice**	2	2	2	2	2	2	2	2	2
	Mid-depth	2	2	2	2	2	ice	2	2	4	2	2	2	2	2	2
	Bottom	2	2	2	2	2	ice	2	2	4	2	2	2	2	2	2
14	Surface	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Mid-depth	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Bottom	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
15	Surface	2	2	2	2	2	2	2	2	4	2	2	2	2	2	ice
	Mid-depth	2	2	2	2	2	2	2	2	4	2	2	2	2	2	ice
	Bottom	2	2	2	2	2	2	2	2	4	2	2	2	2	2	ice
16	Surface	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Mid-depth	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Bottom	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
17	Surface	2	2	2	2	2	ice	2	2	2	2	2	2	2	2	2
	Mid-depth	2	2	2	2	2	ice	2	2	4	2	2	2	2	2	2
	Bottom	2	2	2	2	2	ice	2	2	4	2	2	2	2	2	2
18	Surface	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2
	Mid-depth	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2
	Bottom	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2

* Stations: 13-15 Lower B-G
16-18 Upper B-G

** ice = no samples taken because of ice cover.

Table 131. Summary of hydrogen ion data (pH) taken from 31 October 1974 through 23 December 1975 from Lower and Upper B-G.

Stations*		Dates													
		31 Oct	11 Nov	26 Nov	12 Dec	23 Dec	10 Jan	16 Apr	1 May	19 Jun	10 Jul	14 Aug	11 Sep	15 Oct	25 Nov	23 Dec
13	Surface	7.8	7.8	8.1	8.1	7.4	ice**	7.2	7.4	7.6	7.6	7.1	6.8	7.5	7.2	7.6
	Mid-depth	7.8	7.8	7.5	7.4	7.8	ice	7.7	7.3	7.5	7.5	7.0	6.9	7.5	7.3	7.5
	Bottom	7.9	7.8	7.6	7.2	7.3	ice	7.8	7.6	7.4	7.2	6.9	6.8	7.3	7.1	7.5
14	Surface	8.1	7.8	8.0	8.4	7.3	7.3	7.5	7.5	7.6	7.3	7.1	7.0	7.2	7.3	7.6
	Mid-depth	7.9	7.8	8.1	7.8	7.4	8.6	7.6	7.6	7.5	7.5	7.1	6.9	7.1	7.1	7.5
	Bottom	7.8	7.8	8.0	7.6	7.3	8.8	7.8	7.5	7.4	7.4	7.1	6.9	7.1	7.0	7.5
15	Surface	7.8	7.8	8.1	8.0	7.4	8.4	7.9	7.2	7.5	7.6	7.6	7.0	7.5	7.3	ice
	Mid-depth	7.7	7.8	8.1	7.8	7.2	8.5	7.8	7.4	7.5	7.4	7.4	6.9	7.5	7.1	ice
	Bottom	7.7	7.8	8.2	7.8	7.4	8.2	7.6	7.2	7.4	7.4	7.1	6.9	7.5	7.0	ice
16	Surface	7.7	7.9	9.3	8.4	7.3	8.2	7.5	7.5	7.3	7.5	7.0	7.7	7.0	7.2	7.5
	Mid-depth	7.7	7.9	9.3	7.8	7.4	8.3	7.6	7.5	7.5	7.4	7.1	7.4	7.6	7.0	7.5
	Bottom	7.8	7.9	9.3	7.6	7.4	8.1	7.8	7.5	7.4	7.1	7.0	7.1	7.2	7.4	7.4
17	Surface	7.8	7.9	9.3	7.9	7.3	ice	7.6	7.7	7.6	7.6	7.1	7.2	7.3	7.5	7.6
	Mid-depth	7.8	7.9	9.3	8.1	7.4	ice	7.6	7.7	7.5	7.3	7.1	7.2	7.1	6.9	7.5
	Bottom	7.8	7.9	9.0	7.4	7.2	ice	7.4	7.7	7.6	7.2	7.1	7.0	7.2	7.4	7.4
18	Surface	-	-	-	-	-	-	-	7.2	7.6	7.7	7.1	6.9	7.6	7.5	7.4
	Mid-depth	-	-	-	-	-	-	-	7.1	7.5	7.5	7.1	7.1	7.3	6.9	7.4
	Bottom	-	-	-	-	-	-	-	7.4	7.5	7.5	7.1	7.1	7.2	7.3	7.4

* Stations: 13-15 Lower B-G
16-18 Upper B-G

** ice = no samples taken because of ice cover.

Table 132. Summary of water temperature data (C) taken from 31 October 1974 through 23 December 1975 in Lower and Upper B-G.

Date & Station	Surface	Depth (m) 2	4	6	8	10	12	14	16	18	20	22
13												
31 Oct	11.1	11.0	10.4	10.2	10.1	10.1	10.1	10.1	10.1	-	-	-
11 Nov	11	10	10	10	10	10	10	10	10	-	-	-
26 Nov	7	-	-	-	7	-	-	-	7	-	-	-
12 Dec	2	-	-	-	2	-	-	-	2	-	-	-
23 Dec	1	-	-	-	1	-	-	-	1	-	-	-
10 Jan	ice*	-	-	-	-	-	-	-	-	-	-	-
16 Apr	4.0	3.9	3.5	3.0	3.0	3.0	3.0	3.0	3.0	-	-	-
24 Apr	5.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	-	-	-
1 May	7.8	7.7	7.2	6.8	6.5	6.2	6.2	6.2	-	-	-	-
8 May	10.0	9.0	8.7	8.6	8.5	8.2	8.0	7.7	-	-	-	-
15 May	13.0	12.9	12.7	12.5	12.4	12.2	12.0	-	-	-	-	-
22 May	17.8	17.5	17.2	15.0	15.0	14.5	14.0	-	-	-	-	-
28 May	18.1	17.4	17.0	16.7	15.8	12.6	10.9	9.9	-	-	-	-
5 Jun	18.5	18.5	18.5	18.5	18.5	18.3	18.0	17.5	-	-	-	-
12 Jun	18.5	18.9	18.5	18.2	18.5	18.2	18.0	17.8	-	-	-	-
19 Jun	22.2	20.5	20.1	19.8	19.5	19.2	19.1	18.8	-	-	-	-
25 Jun	22.0	21.0	21.0	20.5	20.5	20.0	-	-	-	-	-	-
3 Jul	22.5	22.2	22.1	22.0	22.0	22.0	21.9	21.5	-	-	-	-
10 Jul	24.9	23.8	23.2	23.0	22.7	22.5	22.2	21.9	20.0	18.8	17.2	-
17 Jul	25.2	24.4	24.0	23.5	23.5	23.2	23.0	22.0	20.2	18.3	17.5	17.4
23 Jul	24.6	24.6	24.5	24.2	24.2	24.2	24.0	24.0	23.0(15)**		-	-
29 Jul	24.6	24.1	24.0	23.9	23.8	23.5	23.2	21.7	20.0	19.0(17)	-	-
7 Aug	23.9	23.9	24.0	24.0	24.0	24.0	23.8	22.8	22.0	22.0(17)	-	-
14 Aug	24.2	24.0	24.0	24.0	23.9	23.8	23.5	23.0	22.8(15)	-	-	-
21 Aug	23.5	24.0	23.5	23.0	23.0	23.0	23.0	-	-	-	-	-
26 Aug	24.8	24.3	23.8	23.4	23.0	22.8	22.8	22.7	22.3	22.2	-	-
4 Sep	22.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	-
11 Sep	20.9	20.6	20.5	20.5	20.4	20.3	20.0	20.0	20.0	-	-	-
17 Sep	18.4	18.4	18.4	18.3	18.3	18.3	18.3	18.3	18.2	18.0	-	-
26 Sep	17.7	17.7	17.7	17.7	17.7	17.7	17.7(11)	-	-	-	-	-
29 Sep	16.9	16.9	16.9	17.0	17.0	17.0	16.5	16.3	-	-	-	-
8 Oct	17.5	16.5	16.5	16.5	16.0	16.0	16.5	16.5	-	-	-	-
15 Oct	15.5	15.5	15.5	15.5	16.0	16.0	16.0	16.5	-	-	-	-
22 Oct	13.5	13.5	13.5	13.0	13.0	13.0	12.5	12.5	12.5	-	-	-
29 Oct	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5(15)	-	-	-
11 Nov	12.0	-	-	-	12.0	-	-	-	12.0	-	-	-
25 Nov	8.0	-	-	-	-	8.0(9)	-	-	-	8.0	-	-
9 Dec	5.0	-	-	-	5.0	-	-	-	5.0(15)	-	-	-
23 Dec	2.3	-	-	-	-	5.0(9)	-	-	-	5.0	-	-
14												
31 Oct	10.6	10.6	10.5	10.5	-	-	-	-	-	-	-	-
11 Nov	11	11	11	-	-	-	-	-	-	-	-	-
26 Nov	6	-	6	6	-	-	-	-	-	-	-	-
12 Dec	2	-	-	2	-	-	2	-	-	-	-	-
23 Dec	1	1	1	-	-	-	-	-	-	-	-	-
10 Jan	1	-	1	-	1	-	-	-	-	-	-	-
16 Apr	4.0	3.7	3.4	-	-	-	-	-	-	-	-	-
24 Apr	5.3	5.2	5.2	5.2	5.2	-	-	-	-	-	-	-
1 May	6.8	6.8	6.8	6.8	-	-	-	-	-	-	-	-
8 May	8.5	8.5	8.5	8.5	-	-	-	-	-	-	-	-
15 May	12.0	12.0	12.0	12.0	12.0	12.0	-	-	-	-	-	-
22 May	15.1	15.1	15.0	15.0	15.0	15.0	-	-	-	-	-	-
28 May	17.5	17.5	17.5	-	-	-	-	-	-	-	-	-
5 Jun	18.3	18.3	18.3	18.3	18.3	18.2	18.2	-	-	-	-	-
12 Jun	18.0	18.0	18.0	18.0	18.0	18.0	-	-	-	-	-	-
19 Jun	19.8	19.7	19.5	19.6	19.5	19.5	-	-	-	-	-	-
25 Jun	21.5	21.0	21.0	21.0	-	-	-	-	-	-	-	-
3 Jul	22.0	22.0	22.0	22.0	22.0	22.0	-	-	-	-	-	-
10 Jul	23.4	23.2	23.0	23.0	23.0	23.0	23.0	23.0	-	-	-	-
17 Jul	23.3	23.2	23.2	23.2	23.2	23.2(9)	-	-	-	-	-	-
23 Jul	24.0	24.0	24.0	24.0	24.0	-	-	-	-	-	-	-
29 Jul	23.6	23.5	23.5	23.5	-	-	-	-	-	-	-	-
7 Aug	23.9	23.9	23.9	23.9	-	-	-	-	-	-	-	-
14 Aug	24.0	24.0	23.9	23.9	23.9	23.9(9)	-	-	-	-	-	-
21 Aug	23.0	23.0	23.0	23.0	23.0	23.0	23.0(11)	-	-	-	-	-
26 Aug	23.0	23.0	23.0	22.8	22.8	22.8	-	-	-	-	-	-

* ice = no samples taken because of ice cover.

** depth

Table 132 - (Continued).

Date & Station	Surface	Depth (m) 2	4	6	8	10	12	14	16	18	20	22
4 Sep	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0(13)	-	-	-	-
11 Sep	20.1	20.1	20.1	20.0	20.0(7)	-	-	-	-	-	-	-
17 Sep	18.2	18.2	18.1	18.1	-	-	-	-	-	-	-	-
26 Sep	17.4	17.4	17.4	17.4	-	-	-	-	-	-	-	-
29 Sep	16.8	16.8	-	-	-	-	-	-	-	-	-	-
8 Oct	16.0	16.0	16.0	16.0	-	-	-	-	-	-	-	-
15 Oct	16.0	15.5	15.0	15.5	-	-	-	-	-	-	-	-
22 Oct	13.5	13.5	13.5	-	-	-	-	-	-	-	-	-
29 Oct	13.5	13.5	13.5	-	-	-	-	-	-	-	-	-
11 Nov	12.0	12.0	12.0	-	-	-	-	-	-	-	-	-
25 Nov	7.0	-	7.0	-	8.0(7)	-	-	-	-	-	-	-
9 Dec	4.5	4.5	4.5	-	-	-	-	-	-	-	-	-
23 Dec	2.2	2.2	-	-	2.2(7)	-	-	-	-	-	-	-
15												
31 Oct	11.6	11.1	10.1	10.0	-	-	-	-	-	-	-	-
11 Nov	9	8	8	-	-	-	-	-	-	-	-	-
26 Nov	2	3	4	-	-	-	-	-	-	-	-	-
12 Dec	2	-	2	2	-	-	-	-	-	-	-	-
23 Dec	1	1	1	-	-	-	-	-	-	-	-	-
10 Jan	2	-	2	2	-	-	-	-	-	-	-	-
16 Apr	5.0	4.5	4.0	4.0	-	-	-	-	-	-	-	-
24 Apr	8.0	7.0	6.8	6.5	-	-	-	-	-	-	-	-
1 May	7.2	7.2	7.1	7.1	-	-	-	-	-	-	-	-
8 May	9.0	9.0	9.0	-	-	-	-	-	-	-	-	-
15 May	14.8	13.4	13.1	12.7	-	-	-	-	-	-	-	-
22 May	19.0	17.3	15.0	15.0	14.8	-	-	-	-	-	-	-
28 May	17.8	17.0	16.9	-	-	-	-	-	-	-	-	-
5 Jun	18.9	18.9	18.6	18.5	18.3	17.2	-	-	-	-	-	-
12 Jun	18.5	18.2	18.0	17.9	17.1	-	-	-	-	-	-	-
19 Jun	22.0	20.0	20.0	19.6	19.2	-	-	-	-	-	-	-
25 Jun	23.0	22.5	22.0	-	-	-	-	-	-	-	-	-
3 Jul	23.0	22.8	22.0	21.8	20.3	-	-	-	-	-	-	-
10 Jul	24.0	23.2	23.0	23.0	22.7	21.3(9)	-	-	-	-	-	-
17 Jul	24.2	23.8	23.5	23.3	22.9	21.8(9)	-	-	-	-	-	-
23 Jul	24.5	24.5	24.0	24.0	24.0	-	-	-	-	-	-	-
29 Jul	24.8	24.2	24.1	23.1	-	-	-	-	-	-	-	-
7 Aug	23.2	23.0	23.0	23.0	-	-	-	-	-	-	-	-
14 Aug	25.0	24.5	24.2	24.0(5)	-	-	-	-	-	-	-	-
21 Aug	23.0	23.0	22.8	22.5	22.5	-	-	-	-	-	-	-
26 Aug	24.7	23.8	23.3	23.0	23.0	-	-	-	-	-	-	-
4 Sep	21.5	21.0	21.0	20.2	20.0	20.0(9)	-	-	-	-	-	-
11 Sep	20.0	19.8	19.5	-	-	-	-	-	-	-	-	-
17 Sep	18.0	18.0	17.3	17.1(5)	-	-	-	-	-	-	-	-
26 Sep	17.0	16.9	15.0	14.9	-	-	-	-	-	-	-	-
29 Sep	14.3	13.5	-	-	-	-	-	-	-	-	-	-
8 Oct	17.0	17.0	-	-	-	-	-	-	-	-	-	-
15 Oct	15.5	16.0	15.0	14.5	-	-	-	-	-	-	-	-
22 Oct	12.0	11.5	11.5	-	-	-	-	-	-	-	-	-
29 Oct	13.0	12.5	-	-	-	-	-	-	-	-	-	-
11 Nov	12.0	12.0	-	-	-	-	-	-	-	-	-	-
25 Nov	7.0	-	7.0(3)	6.0(5)	-	-	-	-	-	-	-	-
9 Dec	2.0	2.0	-	-	-	-	-	-	-	-	-	-
23 Dec	ice	-	-	-	-	-	-	-	-	-	-	-
16												
31 Oct	11.0	10.7	10.0	10.1	10.1	10.1	10.0	10.0	10.0	-	-	-
11 Nov	10	10	10	10	10	10	10	10	10	-	-	-
26 Nov	6	-	-	-	6	-	-	-	6	-	-	-
12 Dec	2	-	-	-	-	2	-	-	-	-	2	-
23 Dec	1	-	-	-	-	1	-	-	-	-	1	-
10 Jan	1	-	-	-	-	1	-	-	-	-	1	-
16 Apr	3.8	3.5	3.2	3.0	3.1	3.1	3.0	3.1	3.1	-	-	-
24 Apr	5.8	5.6	5.5	5.2	5.1	5.1	5.1	5.0	5.0	-	-	-
1 May	7.4	7.3	7.2	7.2	6.9	6.7	6.1	6.1	-	-	-	-
8 May	9.3	8.9	8.6	8.3	8.3	8.2	8.1	8.0	-	-	-	-
15 May	13.1	13.0	13.0	12.0	11.4	11.0	10.7	9.9	-	-	-	-
22 May	20.1	18.5	15.2	15.0	14.8	14.2	13.6	10.2	-	-	-	-
28 May	18.6	18.3	18.0	18.0	17.9	17.6	17.0	16.6	-	-	-	-
5 Jun	18.2	18.2	18.2	18.3	18.3	18.3	18.2	18.0	-	-	-	-
12 Jun	18.0	18.0	18.1	18.0	18.0	18.0	17.9	18.0	-	-	-	-
19 Jun	20.2	19.8	19.6	19.4	19.4	18.8	18.5	17.6	-	-	-	-
25 Jun	22.5	22.0	22.0	21.5	21.0	21.0	20.5	20.5	-	-	-	-

Table 132 - (Continued).

Date & Station	Surface	Depth (m) 2	4	6	8	10	12	14	16	18	20	22
3 Jul	22.0	22.0	22.0	21.9	21.8	21.7	21.3	21.0	-	-	-	-
10 Jul	23.5	23.5	23.0	22.9	22.8	22.5	22.3	21.0	17.9(15)	-	-	-
17 Jul	23.6	23.0	23.0	23.0	22.9	22.8	22.7	19.8	18.0(15)	-	-	-
23 Jul	24.5	24.2	24.2	24.0	24.0	23.9	23.6	18.0	16.4	-	-	-
29 Jul	23.8	23.6	23.6	23.4	23.4	23.4	23.4	23.1	22.8	17.3	-	-
7 Aug	23.9	23.9	24.0	24.0	24.0	24.1	24.1	23.8	23.5	21.2(17)	-	-
14 Aug	24.0	23.9	23.8	23.6	23.6	23.6	23.5	23.3	23.2	23.0(17)	-	-
21 Aug	23.5	23.0	23.0	23.9	23.0	22.5	22.5	22.5	22.5	-	-	-
26 Aug	23.3	23.0	23.0	22.8	22.8	22.7	22.2	22.2	22.0	21.7(17)	-	-
4 Sep	21.0	20.9	20.8	20.8	20.5	20.5	20.5	20.2	-	-	-	-
11 Sep	20.1	20.1	20.0	19.9	19.8	19.8	19.8	19.8	19.7	19.7	-	-
17 Sep	18.1	18.1	18.1	18.0	18.0	18.0	18.0	18.0	18.0	18.0	-	-
26 Sep	17.8	17.8	17.8	17.8	17.5	17.3	17.3	17.3	17.2	-	-	-
29 Sep	17.2	17.1	17.0	17.0	17.0	17.0	17.0	17.0	16.9	16.8	16.8	-
8 Oct	16.0	16.0	16.0	16.0	16.0	16.0	16.0	15.5	-	-	-	-
15 Oct	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.5	15.5	-	-	-
22 Oct	14.0	14.0	14.5	14.5	14.5	14.5	14.5	14.5	14.5	-	-	-
29 Oct	13.0	13.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	-	-	-
11 Nov	12.0	-	-	-	-	12.0(9)	-	-	-	12.0	-	-
25 Nov	9.0	-	-	-	8.0	-	-	-	8.0	-	-	-
9 Dec	5.0	-	-	-	-	5.0(9)	-	-	-	5.0	-	-
23 Dec	2.1	-	-	-	2.1(7)	-	-	2.1	-	-	-	-
17												
31 Oct	10.9	10.8	10.4	10.2	10.1	10.1	10.1	10.1	10.0	-	-	-
11 Nov	11	10	10	10	10	10	10	10	10	-	-	-
26 Nov	5	-	-	-	6	-	-	-	6	-	-	-
12 Dec	2	-	-	-	2	-	-	-	2	-	-	-
23 Dec	1	-	-	-	1	-	-	-	1	-	-	-
10 Jan	ice	-	-	-	-	-	-	-	-	-	-	-
16 Apr	3.9	3.4	3.2	3.1	3.1	3.1	3.1	3.1	3.1	-	-	-
24 Apr	5.2	5.2	5.2	5.1	5.1	5.1	5.0	5.0	5.0	-	-	-
1 May	7.0	7.0	7.0	6.8	6.2	6.2	6.0	6.0	-	-	-	-
8 May	9.5	8.8	8.8	8.6	8.2	8.0	8.0	7.8	-	-	-	-
15 May	12.5	12.2	12.0	11.5	11.3	11.0	10.1	9.8	-	-	-	-
22 May	19.0	16.2	15.2	15.0	14.8	14.7	13.8	10.9	-	-	-	-
28 May	18.1	18.1	18.0	18.0	17.9	17.6	17.5	16.7	-	-	-	-
5 Jun	18.4	18.4	18.4	18.4	18.4	18.1	18.1	17.5	-	-	-	-
12 Jun	17.9	17.9	17.6	17.6	17.5	17.5	-	-	-	-	-	-
19 Jun	20.2	20.2	20.0	19.6	19.4	19.2	18.8	17.2	-	-	-	-
25 Jun	22.5	22.5	22.0	21.0	21.0	21.0	20.5	20.5	-	-	-	-
3 Jul	22.4	22.3	22.2	22.2	21.8	21.5	-	-	-	-	-	-
10 Jul	23.6	23.0	22.9	22.9	22.9	22.5	22.1	21.2	14.7	-	-	-
17 Jul	23.5	23.2	23.0	23.0	23.0	22.9	22.8	22.3	13.9	14.0	-	-
23 Jul	24.0	24.0	23.9	23.8	23.7	23.5	23.5	23.0	17.4	-	-	-
29 Jul	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.5	23.1	16.3	-	-
7 Aug	24.0	24.0	24.0	24.0	24.1	24.1	24.1	24.1	24.1	-	-	-
14 Aug	23.9	23.9	23.9	24.0	23.9	23.9	23.8	23.8	23.5	23.5	-	-
21 Aug	23.0	22.9	22.5	22.5	22.5	22.5	22.5	22.5	22.0	-	-	-
26 Aug	23.4	23.0	23.0	22.9	22.8	22.8	22.3	22.2	22.0	-	-	-
4 Sep	20.1	20.1	20.1	20.5	20.5	20.5	20.5	20.2	20.2	-	-	-
11 Sep	20.0	19.9	19.8	19.8	19.8	19.7	19.7	19.7	19.7(15)	-	-	-
17 Sep	18.1	18.1	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0(17)	-	-
26 Sep	17.8	17.8	17.5	17.5	17.5	17.5	17.5	17.4	17.4	-	-	-
29 Sep	17.9	17.7	17.5	17.5	17.4	17.4	17.3	17.3	17.3	17.2	-	-
8 Oct	16.0	16.0	16.0	15.5	15.5	15.5	15.5	15.5	15.5	-	-	-
15 Oct	15.0	15.0	15.0	15.5	15.0	15.5	15.0	15.0	15.5	-	-	-
22 Oct	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.5	14.5	14.0	-	-
29 Oct	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	-	-	-	-
11 Nov	12.0	-	-	-	-	12.0	-	-	-	-	12.0(19)	-
25 Nov	9.0	-	-	-	-	8.0(9)	-	-	-	8.0(17)	-	-
9 Dec	5.0	-	-	-	-	5.0(9)	-	-	-	5.0	-	-
23 Dec	2.2	-	-	-	2.2	-	-	-	2.2(15)	-	-	-
18												
24 Apr	5.6	5.5	5.5	5.4	5.4	5.4	5.3	-	-	-	-	-
1 May	7.0	7.0	7.0	7.0	7.0	6.9	6.9	6.9	-	-	-	-
8 May	10.0	8.6	8.5	8.4	8.2	-	-	-	-	-	-	-
15 May	13.0	12.3	12.0	11.7	11.2	-	-	-	-	-	-	-
22 May	21.6	16.2	15.5	15.2	-	-	-	-	-	-	-	-
28 May	18.3	18.3	18.2	18.2	-	-	-	-	-	-	-	-
5 Jun	18.4	18.4	18.4	-	-	-	-	-	-	-	-	-
12 Jun	18.0	18.0	-	-	-	-	-	-	-	-	-	-
19 Jun	21.2	21.2	20.2	-	-	-	-	-	-	-	-	-
25 Jun	23.0	21.5	21.0	-	-	-	-	-	-	-	-	-

Table 132 - (Continued).

Date & Station	Surface	Depth (m) 2	4	6	8	10	12	14	16	18	20	22
3 Jul	22.8	22.8	22.8	-	-	-	-	-	-	-	-	-
10 Jul	23.8	23.5	23.0	-	-	-	-	-	-	-	-	-
17 Jul	23.5	23.2	23.2(3)	-	-	-	-	-	-	-	-	-
23 Jul	24.0	24.0	24.0(3)	-	-	-	-	-	-	-	-	-
29 Jul	23.8	23.8	23.8	-	-	-	-	-	-	-	-	-
7 Aug	23.5	23.2	23.2	-	-	-	-	-	-	-	-	-
14 Aug	24.0	24.0	24.0	24.0(5)	-	-	-	-	-	-	-	-
21 Aug	23.0	23.0	23.0	23.0	-	-	-	-	-	-	-	-
26 Aug	23.4	23.2	23.0	22.8	-	-	-	-	-	-	-	-
4 Sep	21.0	21.0	21.5	-	-	-	-	-	-	-	-	-
11 Sep	20.2	20.1	20.0	-	-	-	-	-	-	-	-	-
17 Sep	18.0	18.0	18.0	-	-	-	-	-	-	-	-	-
26 Sep	17.8	17.7	17.5	-	-	-	-	-	-	-	-	-
29 Sep	17.8	17.5	17.4	-	-	-	-	-	-	-	-	-
8 Oct	16.0	16.0	16.0	16.0	-	-	-	-	-	-	-	-
15 Oct	15.5	15.5	15.5	-	-	-	-	-	-	-	-	-
22 Oct	14.5	14.5	14.5	-	-	-	-	-	-	-	-	-
29 Oct	13.0	13.5	13.5	-	-	-	-	-	-	-	-	-
11 Nov	12.0	12.0(3)	-	12.0	-	-	-	-	-	-	-	-
25 Nov	8.0	8.0	8.0	-	-	-	-	-	-	-	-	-
9 Dec	5.0	5.0	5.0	-	-	-	-	-	-	-	-	-
23 Dec	2.0	2.0(3)	-	2.0	-	-	-	-	-	-	-	-

Table 133. Summary of dissolved oxygen data (ppm) taken from 31 October 1974 through 23 December 1975 in Lower and Upper B-G.

Date & Station	Surface	Depth (m) 2	4	6	8	10	12	14	16	18	20	22
13												
31 Oct	14	-	-	-	13	-	-	-	13	-	-	-
11 Nov	12	-	-	-	10	-	-	-	11	-	-	-
26 Nov	11	-	-	-	11	-	-	-	11	-	-	-
12 Dec	10	-	-	-	10	-	-	-	10	-	-	-
23 Dec	12	-	-	-	12	-	-	-	12	-	-	-
10 Jan	ice*	-	-	-	-	-	-	-	-	-	-	-
16 Apr	15.0	-	-	-	15.0	-	-	-	15.0	-	-	-
24 Apr	12.1	12.0	12.1	12.1	12.1	12.0	11.8	11.6	11.7	-	-	-
1 May	11.6	11.6	11.8	11.8	11.8	11.8	11.8	11.5	-	-	-	-
8 May	10.9	11.0	11.1	11.2	11.2	11.3	11.2	11.0	-	-	-	-
15 May	10.4	10.4	10.5	10.5	10.5	10.5	10.4	-	-	-	-	-
22 May	9.6	9.3	9.2	9.0	9.0	8.6	8.2	-	-	-	-	-
28 May	9.1	9.4	9.3	9.2	9.0	8.3	8.0	7.8	-	-	-	-
5 Jun	9.1	8.8	8.9	8.8	8.7	8.3	8.1	7.8	-	-	-	-
12 Jun	9.1	9.0	8.6	8.8	8.7	8.7	8.6	8.5	-	-	-	-
19 Jun	9.0	8.9	8.9	8.5	8.3	8.2	8.1	7.9	-	-	-	-
25 Jun	11.8	10.8	10.8	10.6	10.6	9.9	-	-	-	-	-	-
3 Jul	9.7	9.5	9.5	9.3	9.3	9.2	9.2	8.8	-	-	-	-
10 Jul	8.8	8.5	8.3	7.9	7.3	7.6	7.2	6.8	5.2	4.6	3.2	-
17 Jul	7.7	7.6	7.3	7.2	7.0	6.8	6.3	4.9	3.9	2.5	1.0	0.1
23 Jul	8.2	8.2	8.1	8.1	8.0	7.9	7.9	7.6	2.5(15)**		-	-
29 Jul	8.0	7.9	7.8	7.6	7.3	7.0	6.1	3.5	1.6	0.4(17)	-	-
7 Aug	7.5	7.4	7.4	7.2	7.3	7.1	6.1	4.0	2.6	2.1(17)	-	-
14 Aug	8.2	8.1	7.9	7.7	7.4	7.0	6.1	5.3	4.9(15)	-	-	-
21 Aug	8.9	8.4	8.4	8.2	8.2	8.2	8.2	-	-	-	-	-
26 Aug	9.2	9.0	8.7	8.4	7.8	6.7	6.6	7.3	6.4	6.0	-	-
4 Sep	8.8	8.5	8.4	8.4	8.2	8.3	8.3	8.3	8.3	8.2	8.2	-
11 Sep	8.4	8.3	8.3	8.3	8.3	8.3	8.0	7.7	7.7	-	-	-
17 Sep	9.2	9.1	9.0	9.0	9.0	8.9	8.9	8.9	8.7	7.9	-	-
26 Sep	9.1	9.1	9.0	9.0	9.0	9.0	8.8(11)	-	-	-	-	-
29 Sep	8.3	8.3	8.2	8.3	8.2	8.1	8.1	8.0	-	-	-	-
8 Oct	9.8	9.6	9.5	9.8	9.5	9.9	9.5	9.3	-	-	-	-
15 Oct	9.4	9.4	9.4	9.4	9.3	9.2	9.2	9.0	-	-	-	-
22 Oct	8.8	9.3	9.3	9.4	9.3	9.3	9.2	9.1	9.0	-	-	-
29 Oct	9.7	10.2	9.9	10.3	9.2	9.2	9.2	9.2	8.8(15)	-	-	-
11 Nov	9.8	-	-	-	9.7	-	-	-	9.6	-	-	-
25 Nov	10.2	-	-	-	-	10.2(9)	-	-	-	10.5	-	-
9 Dec	11.3	-	-	-	11.8	-	-	-	11.9(15)	-	-	-
23 Dec	14.2	-	-	-	-	14.2(9)	-	-	-	14.2	-	-
14												
31 Oct	12	-	12	12	-	-	-	-	-	-	-	-
11 Nov	12	12	12	-	-	-	-	-	-	-	-	-
26 Nov	10	-	10	10	-	-	-	-	-	-	-	-
12 Dec	11	-	-	11	-	-	11	-	-	-	-	-
23 Dec	13	13	13	-	-	-	-	-	-	-	-	-
10 Jan	15	-	15	-	15	-	-	-	-	-	-	-
16 Apr	15.0	15.0	15.0	-	-	-	-	-	-	-	-	-
24 Apr	11.4	12.0	12.2	12.3	12.1	-	-	-	-	-	-	-
1 May	11.3	11.2	11.4	11.5	-	-	-	-	-	-	-	-
8 May	11.3	11.4	11.5	11.6	-	-	-	-	-	-	-	-
15 May	10.4	10.6	10.6	10.7	10.8	10.8	-	-	-	-	-	-
22 May	9.8	9.4	9.2	8.9	8.8	8.8	-	-	-	-	-	-
28 May	9.5	9.8	9.8	-	-	-	-	-	-	-	-	-
5 Jun	9.3	9.2	9.2	9.2	9.1	9.0	9.0	-	-	-	-	-
12 Jun	9.5	9.5	9.5	9.6	9.6	9.8	-	-	-	-	-	-
19 Jun	9.5	9.4	9.5	9.6	9.6	9.6	-	-	-	-	-	-
25 Jun	10.8	10.8	10.5	10.4	-	-	-	-	-	-	-	-
3 Jul	8.9	8.8	8.8	8.9	8.8	8.8	-	-	-	-	-	-
10 Jul	8.6	8.2	8.5	8.6	8.6	8.6	8.5	8.4	-	-	-	-
17 Jul	7.3	7.0	7.1	7.1	7.2	7.1(9)	-	-	-	-	-	-
23 Jul	7.8	7.8	7.7	7.6	7.6	-	-	-	-	-	-	-
29 Jul	7.8	7.7	7.7	7.7	-	-	-	-	-	-	-	-
7 Aug	7.5	7.4	7.4	7.4	-	-	-	-	-	-	-	-
14 Aug	7.7	7.6	7.5	7.5	7.6	7.5(9)	-	-	-	-	-	-
21 Aug	8.2	8.4	8.4	8.2	8.4	8.3	8.3(11)	-	-	-	-	-
26 Aug	8.4	8.4	8.4	8.2	8.1	8.1	-	-	-	-	-	-

* ice = no samples taken because of ice cover.

** depth

Table 133 - (Continued).

Date & Station	Surface	Depth (m) 2	4	6	8	10	12	14	16	18	20	22
4 Sep	8.7	8.6	8.6	8.6	8.6	8.5	8.4	8.4(13)	-	-	-	-
11 Sep	8.3	8.3	8.3	8.2	8.2(7)	-	-	-	-	-	-	-
17 Sep	9.2	9.1	9.0	9.0	-	-	-	-	-	-	-	-
26 Sep	9.1	9.1	9.1	9.0	-	-	-	-	-	-	-	-
29 Sep	8.7	8.6	-	-	-	-	-	-	-	-	-	-
8 Oct	9.5	9.4	9.2	9.2	-	-	-	-	-	-	-	-
15 Oct	9.1	9.2	9.2	9.1	-	-	-	-	-	-	-	-
22 Oct	9.5	9.4	9.6	-	-	-	-	-	-	-	-	-
29 Oct	9.6	9.7	9.0	-	-	-	-	-	-	-	-	-
11 Nov	9.7	9.7	9.7	-	-	-	-	-	-	-	-	-
25 Nov	10.6	-	10.5	-	10.8(7)	-	-	-	-	-	-	-
9 Dec	11.6	11.7	12.1	-	-	-	-	-	-	-	-	-
23 Dec	13.6	-	13.6	-	13.6(7)	-	-	-	-	-	-	-
15												
31 Oct	13	-	12	13	-	-	-	-	-	-	-	-
11 Nov	12	12	12	-	-	-	-	-	-	-	-	-
26 Nov	11	11	11	-	-	-	-	-	-	-	-	-
12 Dec	10	-	10	10	-	-	-	-	-	-	-	-
23 Dec	13	13	13	-	-	-	-	-	-	-	-	-
10 Jan	15	-	15	15	-	-	-	-	-	-	-	-
16 Apr	15.0	-	15.0	-	15.0	-	-	-	-	-	-	-
24 Apr	11.2	10.4	10.8	10.6	-	-	-	-	-	-	-	-
1 May	11.5	11.4	11.4	11.4	-	-	-	-	-	-	-	-
8 May	11.4	11.5	11.7	-	-	-	-	-	-	-	-	-
15 May	10.0	10.2	10.3	10.3	-	-	-	-	-	-	-	-
22 May	9.9	9.1	8.9	8.7	8.4	-	-	-	-	-	-	-
28 May	9.8	10.0	10.1	-	-	-	-	-	-	-	-	-
5 Jun	9.3	9.2	9.0	8.9	8.5	6.4	-	-	-	-	-	-
12 Jun	9.6	9.3	9.3	9.3	9.4	-	-	-	-	-	-	-
19 Jun	9.0	8.5	8.4	8.3	8.1	-	-	-	-	-	-	-
25 Jun	10.6	10.4	10.2	-	-	-	-	-	-	-	-	-
3 Jul	9.6	9.6	9.8	9.0	7.7	5.6	-	-	-	-	-	-
10 Jul	8.8	8.7	8.3	7.8	7.4	5.1(9)	-	-	-	-	-	-
17 Jul	7.6	7.6	7.4	7.0	5.7	2.7(9)	-	-	-	-	-	-
23 Jul	8.0	8.0	7.8	7.6	7.5	-	-	-	-	-	-	-
29 Jul	8.2	8.1	8.1	6.5	-	-	-	-	-	-	-	-
7 Aug	7.7	7.5	7.6	7.6	-	-	-	-	-	-	-	-
14 Aug	8.3	8.0	7.8	7.8(5)	-	-	-	-	-	-	-	-
21 Aug	8.9	8.8	8.7	8.8	8.6	-	-	-	-	-	-	-
26 Aug	8.7	8.4	8.0	7.6	7.6	-	-	-	-	-	-	-
4 Sep	9.0	9.0	8.9	9.1	9.0	8.6	-	-	-	-	-	-
11 Sep	8.8	8.6	8.5	-	-	-	-	-	-	-	-	-
17 Sep	9.4	9.3	9.2	9.2(5)	-	-	-	-	-	-	-	-
26 Sep	9.4	9.2	9.2	9.2	-	-	-	-	-	-	-	-
29 Sep	9.1	8.6	-	-	-	-	-	-	-	-	-	-
8 Oct	9.5	9.7	-	-	-	-	-	-	-	-	-	-
15 Oct	9.6	9.6	9.5	9.4	-	-	-	-	-	-	-	-
22 Oct	9.8	10.6	9.9	-	-	-	-	-	-	-	-	-
29 Oct	10.1	10.1	-	-	-	-	-	-	-	-	-	-
11 Nov	9.8	9.9	-	-	-	-	-	-	-	-	-	-
25 Nov	10.8	-	11.0(3)	11.0(5)	-	-	-	-	-	-	-	-
9 Dec	11.8	12.0	-	-	-	-	-	-	-	-	-	-
23 Dec	ice	-	-	-	-	-	-	-	-	-	-	-
16												
31 Oct	11	-	-	-	11	-	-	-	11	-	-	-
11 Nov	12	-	-	-	11	-	-	-	11	-	-	-
26 Nov	10	-	-	-	10	-	-	-	10	-	-	-
12 Dec	12	-	-	-	12	-	-	-	12	-	-	-
23 Dec	13	-	-	-	13	-	-	-	14	-	-	-
10 Jan	15	-	-	-	15	-	-	-	15	-	-	-
16 Apr	15.0	-	-	-	15.0	-	-	-	14.0	-	-	-
24 Apr	11.8	11.7	11.7	11.7	11.7	11.6	11.5	11.4	11.4	-	-	-
1 May	11.2	10.9	11.0	11.2	11.2	11.2	11.0	11.0	-	-	-	-
8 May	10.9	11.0	11.0	11.2	11.2	11.2	11.2	11.1	-	-	-	-
15 May	10.0	10.1	10.2	10.1	10.0	10.0	10.0	10.0	-	-	-	-
22 May	9.4	8.8	8.6	8.6	8.6	8.4	8.1	8.9	-	-	-	-
28 May	9.1	9.2	9.3	9.3	9.2	9.0	8.9	8.8	-	-	-	-
5 Jun	8.8	8.8	8.8	8.9	8.8	8.9	8.8	8.6	-	-	-	-
12 Jun	8.9	9.1	9.1	9.0	9.0	9.0	8.8	9.0	-	-	-	-
19 Jun	9.7	9.6	9.2	9.2	9.2	9.0	9.0	8.0	-	-	-	-
25 Jun	11.7	10.8	10.8	10.6	10.5	9.9	10.5	10.5	-	-	-	-

Table 133 - (Continued).

Date & Station	Surface	Depth (m) 2	4	6	8	10	12	14	16	18	20	22
3 Jul	8.9	8.8	8.7	8.6	8.6	8.4	8.0	7.6	-	-	-	-
10 Jul	10.3	10.0	9.5	8.5	7.3	8.5	9.0	7.3	2.2(15)	-	-	-
17 Jul	8.3	8.5	8.6	8.4	8.1	8.3	8.2	4.7	1.0(15)	-	-	-
23 Jul	8.0	8.1	8.1	8.1	8.0	7.9	1.4	0.5	-	-	-	-
29 Jul	7.7	7.6	7.7	7.7	7.7	7.6	7.5	7.1	6.6	1.0	-	-
7 Aug	7.8	7.6	7.6	7.6	7.6	7.6	7.6	7.3	7.0	2.8(17)	-	-
14 Aug	7.8	7.8	7.7	7.6	7.6	7.6	7.5	7.5	7.3	6.8(17)	-	-
21 Aug	8.5	8.4	8.0	8.0	8.1	8.1	8.2	8.3	7.9	-	-	-
26 Aug	8.2	8.1	7.8	7.7	7.6	7.5	7.5	7.5	7.1	5.7(17)	-	-
4 Sep	9.0	8.8	8.6	8.6	8.7	8.6	8.6	8.5	-	-	-	-
11 Sep	8.7	8.6	8.4	8.5	8.4	8.3	8.3	8.3	8.2	8.2	-	-
17 Sep	9.0	9.0	8.9	8.8	8.8	8.8	8.7	8.7	8.7	8.7	-	-
26 Sep	8.9	8.9	8.8	8.7	8.7	8.6	8.6	8.6	8.6	-	-	-
29 Sep	8.7	8.6	8.6	8.6	8.6	8.5	8.5	8.5	8.5	8.4	8.1	-
8 Oct	9.5	9.8	9.5	9.3	9.2	9.2	9.1	9.4	-	-	-	-
15 Oct	9.4	9.3	9.2	9.2	9.3	9.2	9.1	9.0	9.0	-	-	-
22 Oct	9.3	9.3	9.3	9.3	8.8	9.3	9.0	9.3	9.2	-	-	-
29 Oct	9.6	9.7	9.7	9.6	9.5	9.7	9.7	9.5	9.5	-	-	-
11 Nov	9.8	-	-	-	-	9.6(9)	-	-	-	9.6	-	-
25 Nov	10.2	-	-	-	10.5	-	-	-	10.2	-	-	-
9 Dec	11.5	-	-	-	-	11.3(9)	-	-	-	11.6	-	-
23 Dec	13.2	-	-	-	13.2(7)	-	-	13.2	-	-	-	-
17												
31 Oct	13	-	-	-	13	-	-	-	12	-	-	-
11 Nov	11	-	-	-	11	-	-	-	11	-	-	-
26 Nov	11	-	-	-	10	-	-	-	10	-	-	-
12 Dec	12	-	-	-	12	-	-	-	12	-	-	-
23 Dec	12	-	-	-	12	-	-	-	13	-	-	-
10 Jan	ice	-	-	-	-	-	-	-	-	-	-	-
16 Apr	15.0	-	-	-	15.0	-	-	-	14.0	-	-	-
24 Apr	10.6	10.6	10.8	10.7	10.7	10.7	10.7	10.7	10.4	-	-	-
1 May	12.5	12.5	12.5	12.7	12.6	12.6	12.6	12.5	-	-	-	-
8 May	10.8	10.8	10.9	11.0	11.0	11.0	11.0	11.0	-	-	-	-
15 May	9.5	9.9	9.8	9.8	9.6	9.7	9.7	9.7	-	-	-	-
22 May	8.8	8.4	8.2	8.3	8.0	7.9	7.7	7.3	-	-	-	-
28 May	9.2	9.1	9.2	9.2	9.0	8.5	8.4	8.3	-	-	-	-
5 Jun	8.8	8.8	8.8	8.7	8.6	8.3	8.2	8.0	-	-	-	-
12 Jun	9.0	9.0	8.7	8.6	8.6	8.6	-	-	-	-	-	-
19 Jun	9.5	9.4	9.3	9.2	9.1	9.1	8.7	8.0	-	-	-	-
25 Jun	11.6	10.8	10.9	10.6	10.6	10.6	10.2	10.2	-	-	-	-
3 Jul	8.7	8.7	8.9	8.9	8.6	7.9	-	-	-	-	-	-
10 Jul	10.1	9.5	9.3	8.8	8.8	8.4	8.0	7.6	4.8	-	-	-
17 Jul	8.5	8.6	8.4	8.3	8.1	8.1	7.9	7.1	2.7	2.0	-	-
23 Jul	8.3	8.3	8.1	8.0	7.8	7.8	7.7	5.0	0.9	-	-	-
29 Jul	7.8	7.8	7.8	7.8	7.8	7.8	7.7	7.6	7.0	1.9	-	-
7 Aug	7.7	7.6	7.6	7.6	7.6	7.6	6.7	5.9	5.8	-	-	-
14 Aug	7.8	7.9	7.8	7.8	7.8	7.8	7.7	7.6	7.4	6.7	-	-
21 Aug	8.6	8.3	8.3	8.2	8.2	8.2	8.2	7.8	7.4	-	-	-
26 Aug	8.1	8.0	8.0	7.7	7.7	7.6	7.5	7.3	6.5	-	-	-
4 Sep	8.9	8.8	8.3	8.7	8.7	8.6	8.6	8.6	8.2	-	-	-
11 Sep	8.5	8.5	8.5	8.5	8.4	8.3	8.3	8.3	8.2(15)	-	-	-
17 Sep	9.0	8.9	8.8	8.8	8.7	8.7	8.7	8.7	8.6	8.4(17)	-	-
26 Sep	8.9	8.8	8.7	8.6	8.7	8.7	8.6	8.6	8.6	-	-	-
29 Sep	8.7	8.5	8.5	8.5	8.4	8.4	8.5	8.5	8.4	8.3(17)	-	-
8 Oct	9.6	9.8	9.4	9.4	9.2	9.5	9.8	9.2	9.8	-	-	-
15 Oct	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.1	9.0	-	-	-
22 Oct	9.4	9.4	9.4	9.4	9.2	8.7	9.1	9.2	9.3	9.3	-	-
29 Oct	9.7	9.5	9.7	9.5	9.2	9.3	9.4	9.4	-	-	-	-
11 Nov	9.8	-	-	-	-	9.6	-	-	-	-	9.6(19)	-
25 Nov	10.7	-	-	-	-	10.0(9)	-	-	-	10.5(17)	-	-
9 Dec	10.2	-	-	-	-	10.2(9)	-	-	-	10.1	-	-
23 Dec	13.8	-	-	-	13.8	-	-	-	13.8(15)	-	-	-
18												
24 Apr	11.8	11.8	11.8	11.8	11.8	11.8	11.8	-	-	-	-	-
1 May	11.3	11.2	11.3	11.4	11.5	11.5	11.5	11.5	-	-	-	-
8 May	10.9	10.9	11.0	11.1	11.1	-	-	-	-	-	-	-
15 May	9.6	9.6	9.4	9.3	9.1	-	-	-	-	-	-	-
22 May	9.4	9.4	9.2	9.0	-	-	-	-	-	-	-	-
28 May	9.2	9.0	9.0	9.0	-	-	-	-	-	-	-	-
5 Jun	8.8	8.6	8.6	-	-	-	-	-	-	-	-	-
12 Jun	9.0	8.9	-	-	-	-	-	-	-	-	-	-
19 Jun	8.9	8.9	8.7	-	-	-	-	-	-	-	-	-
25 Jun	10.0	10.5	10.8	-	-	-	-	-	-	-	-	-

Table 133 - (Continued).

Date & Station	Surface	Depth (m) 2	4	6	8	10	12	14	16	18	20	22
3 Jul	8.7	8.7	8.7	-	-	-	-	-	-	-	-	-
10 Jul	10.1	10.0	9.5	-	-	-	-	-	-	-	-	-
17 Jul	8.6	8.5	8.1(3)	-	-	-	-	-	-	-	-	-
23 Jul	8.2	8.2	8.2(3)	-	-	-	-	-	-	-	-	-
29 Jul	8.0	8.0	8.0	-	-	-	-	-	-	-	-	-
7 Aug	7.7	7.7	7.6	-	-	-	-	-	-	-	-	-
14 Aug	8.2	8.0	8.0	8.0	-	-	-	-	-	-	-	-
21 Aug	8.9	8.7	8.7	8.5	-	-	-	-	-	-	-	-
26 Aug	8.3	8.2	8.0	7.7	-	-	-	-	-	-	-	-
4 Sep	8.2	9.0	8.9	-	-	-	-	-	-	-	-	-
11 Sep	8.8	8.8	8.8	-	-	-	-	-	-	-	-	-
17 Sep	9.0	8.8	8.7	-	-	-	-	-	-	-	-	-
26 Sep	9.1	8.8	8.8	-	-	-	-	-	-	-	-	-
29 Sep	8.7	8.6	8.6	-	-	-	-	-	-	-	-	-
8 Oct	9.7	9.6	9.6	9.2	-	-	-	-	-	-	-	-
15 Oct	9.3	9.3	9.3	-	-	-	-	-	-	-	-	-
22 Oct	8.9	9.4	9.5	-	-	-	-	-	-	-	-	-
29 Oct	9.5	9.5	10.0	-	-	-	-	-	-	-	-	-
11 Nov	9.8	-	9.8(3)	9.8	-	-	-	-	-	-	-	-
25 Nov	10.5	10.5	10.5	-	-	-	-	-	-	-	-	-
9 Dec	11.4	11.2	11.5	-	-	-	-	-	-	-	-	-
23 Dec	14.0	-	13.6(3)	13.4	-	-	-	-	-	-	-	-

Table 134. Summary of daily fluctuation in water level from October 1974 through December 1975 in Lower and Upper B-G (provided by J. M. Collyer, Resident Manager, B-G Pumped Storage Project).

Date	Lower B-G: Days Level Changed		Lower B-G: Amount of Fluctuation (feet)				Upper B-G: Days Level Changed		Upper B-G: Amount of Fluctuation (feet)			
	Did Occur	Did Not Occur	Min. Fluc*	Max. Fluc**	Ave. Daily Fluc.	Standard Deviation	Did Occur	Did Not Occur	Min. Fluc.	Max. Fluc.	Ave. Daily Fluc.	Standard Deviation
Oct 74	31	0	4.8	19.9	15.86	4.79	31	0	3.9	15.0	11.81	3.46
Nov 74	30	0	4.0	20.2	14.75	5.67	30	0	3.3	15.9	11.47	4.11
Dec 74	31	0	6.1	24.5	15.76	4.54	31	0	5.2	18.1	12.45	3.49
Jan 75	31	0	5.9	29.1	18.02	5.26	31	0	4.9	22.7	13.72	3.93
Feb 75	28	0	6.1	23.4	17.56	5.61	28	0	5.2	17.9	13.30	4.29
Mar 75	31	0	8.4	28.2	15.84	4.84	31	0	5.7	21.1	12.81	3.52
Apr 75	30	0	5.1	21.7	17.43	4.44	30	0	4.7	15.3	12.28	3.60
May 75	31	0	4.5	36.8	13.81	6.20	31	0	4.9	35.3	11.88	5.41
Jun 75	30	0	4.7	24.3	12.06	5.04	30	0	4.2	19.1	10.85	4.52
Jul 75	31	0	6.3	17.5	11.55	3.13	31	0	4.7	16.8	10.35	3.14
Aug 75	31	0	4.9	39.8	15.13	6.78	31	0	5.4	38.1	13.19	5.86
Sep 75	30	0	5.2	18.5	11.65	3.48	30	0	4.7	15.5	9.35	2.59
Oct 75	31	0	5.2	21.6	12.47	3.55	31	0	4.9	18.9	10.17	2.91
Nov 75	30	0	6.6	29.6	15.40	5.59	30	0	5.2	24.0	13.26	4.87
Dec 75	31	0	6.7	23.4	15.73	5.04	31	0	5.8	18.9	13.32	3.95

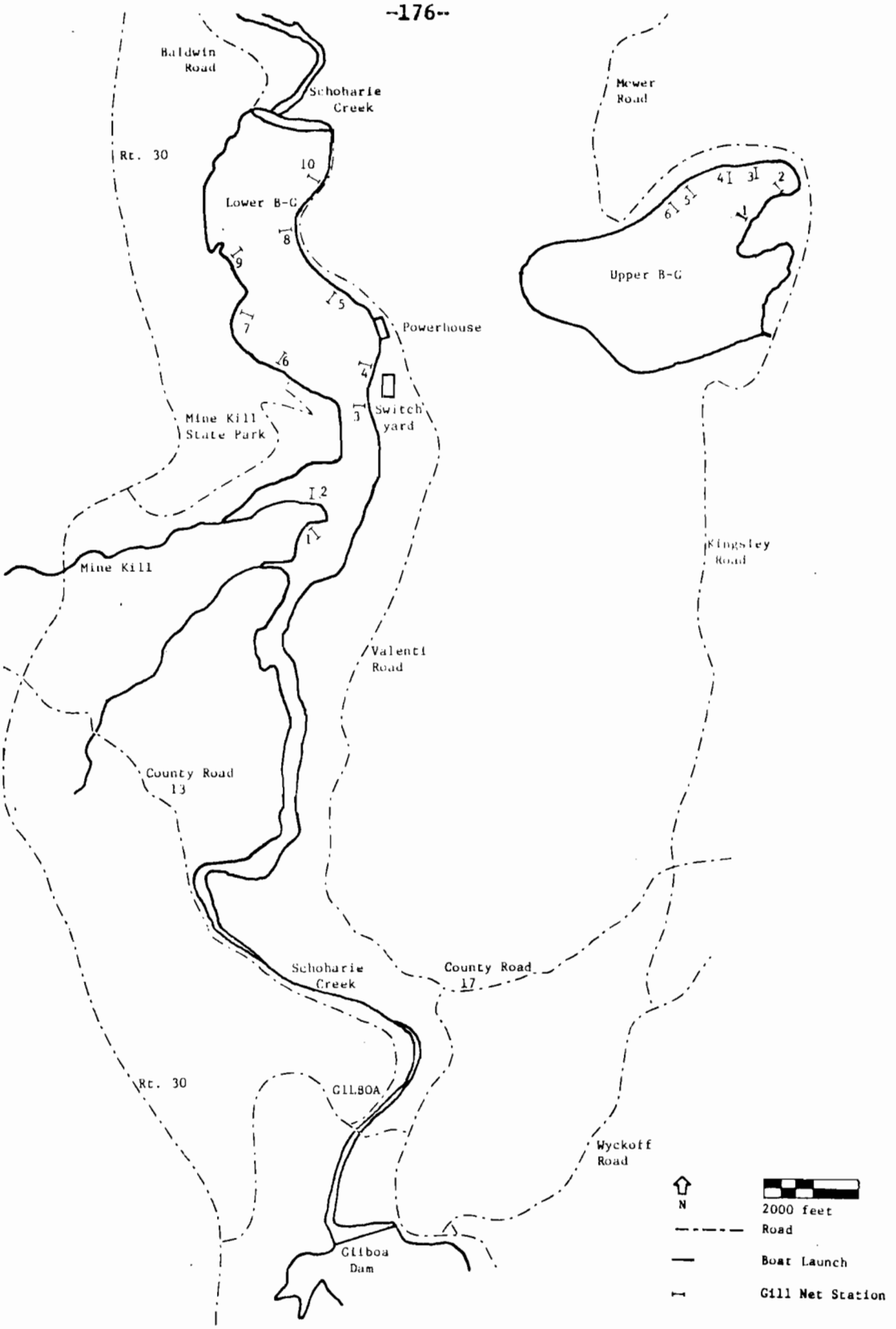
* The least change in water level on any day during the month.
** The greatest change in water level on any day during the month.

Table 135. Summary of weekly fluctuation taken from 1 October 1974 through 31 December 1975 in Lower and Upper B-G (provided by J. M. Collyer, Resident Manager, B-G Pumped Storage Project).

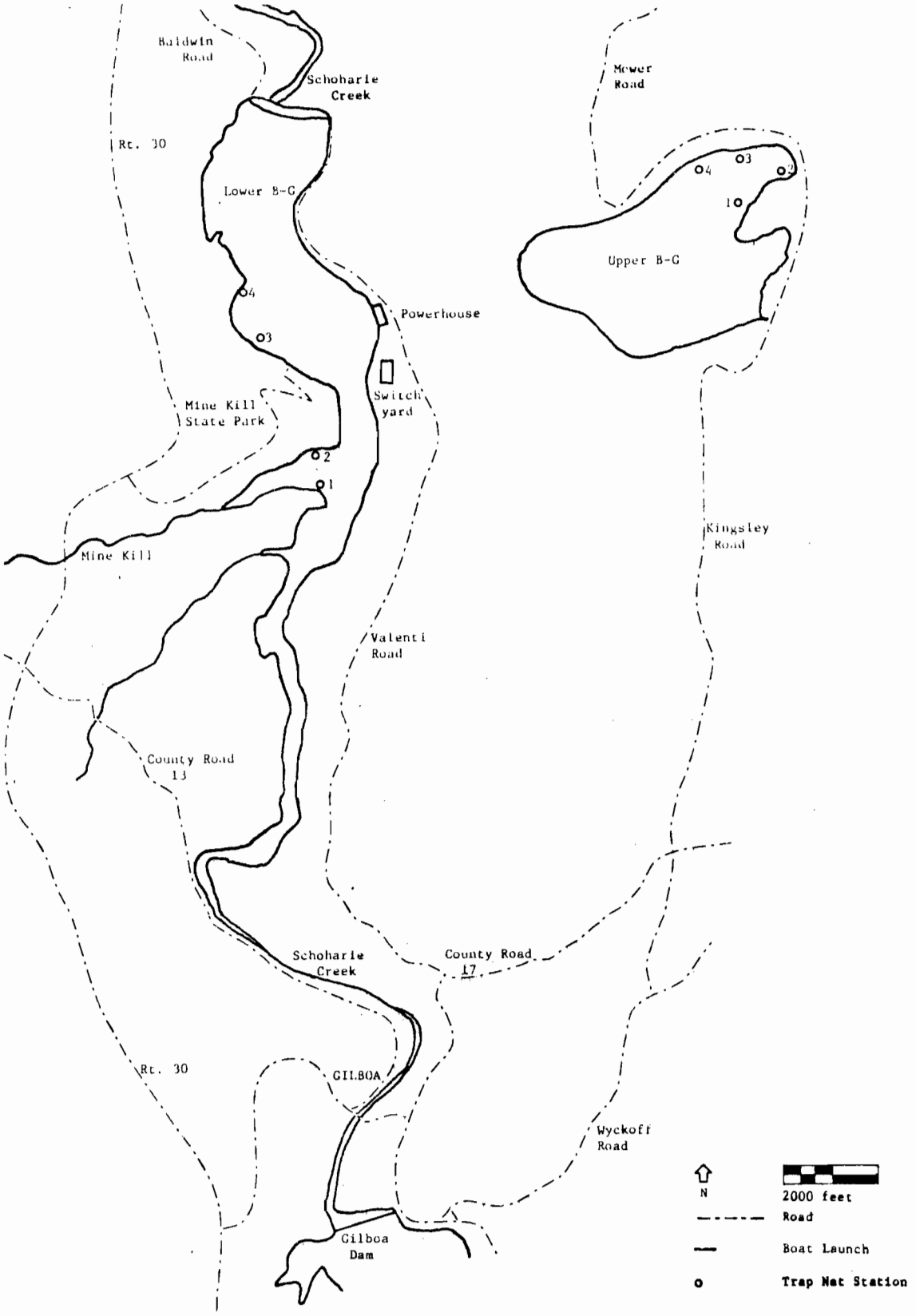
Date	Lower B-G			Upper B-G		
	Maximum Elevation	Minimum Elevation	Difference	Maximum Elevation	Minimum Elevation	Difference
1-5 Oct 74	883.0	861.0	22.0	2002.2	1986.2	16.0
6-12 Oct 74	882.0	860.4	21.6	2002.6	1987.3	15.3
13-19 Oct 74	882.3	860.8	21.5	2002.7	1987.3	15.4
20-26 Oct 74	882.1	860.3	21.8	2002.7	1987.5	15.2
27 Oct-2 Nov 74	885.4	860.7	24.7	2003.0	1984.0	19.0
3-9 Nov 74	884.0	860.5	23.5	2003.0	1986.1	16.9
10-16 Nov 74	882.0	860.9	21.1	2003.1	1987.0	16.1
17-23 Nov 74	882.8	859.7	23.1	2003.0	1985.8	17.2
24-30 Nov 74	886.5	864.9	21.6	2003.2	1982.1	21.1
1-7 Dec 74	883.7	860.5	23.2	2003.1	1985.1	18.0
8-14 Dec 74	883.9	863.3	20.6	2003.3	1985.3	18.0
15-21 Dec 74	883.0	859.0	24.0	2003.2	1986.0	17.2
22-28 Dec 74	885.3	860.6	24.7	2002.7	1983.8	18.9
29 Dec 74-4 Jan 75	885.1	860.3	24.8	2002.5	1984.4	18.1
5-11 Jan 75	883.2	860.9	22.3	2002.4	1986.7	15.7
12-18 Jan 75	889.7	860.6	29.1	2002.9	1979.5	23.4
19-25 Jan 75	882.6	860.0	22.6	2003.0	1986.2	16.8
26 Jan-1 Feb 75	883.4	859.4	24.0	2003.2	1985.4	17.8
2-8 Feb 75	887.3	859.3	28.0	2003.1	1981.5	21.6
9-15 Feb 75	882.8	859.2	23.6	2003.0	1986.0	17.0
16-22 Feb 75	882.3	858.9	23.4	2003.1	1986.4	16.7
23 Feb-1 Mar 75	885.7	860.0	25.7	2003.0	1983.5	19.5
2-8 Mar 75	886.1	860.3	25.8	2003.2	1982.9	20.3
9-15 Mar 75	886.7	860.1	26.6	2003.3	1982.7	20.6
16-22 Mar 75	886.5	859.7	26.8	2003.1	1982.3	20.8
23-29 Mar 75	888.2	870.1	18.1	2003.1	1981.9	21.2
30 Mar-5 Apr 75	883.0	860.0	23.0	2002.5	1986.5	16.0
6-12 Apr 75	883.3	859.2	24.1	2003.0	1985.7	17.3
13-19 Apr 75	883.2	859.1	24.1	2003.4	1985.7	17.7
20-26 Apr 75	882.3	859.6	22.7	2003.4	1987.2	16.2
27 Apr-3 May 75	882.4	859.7	22.7	2003.1	1986.3	16.8
4-10 May 75	899.2	859.8	39.4	2002.9	1966.7	36.2
11-17 May 75	892.1	860.0	32.1	2003.3	1976.3	27.0
18-24 May 75	894.4	859.7	34.1	2003.0	1973.6	29.4
25-31 May 75	894.6	867.1	27.5	2003.0	1972.7	30.3
1-7 Jun 75	895.6	860.1	35.5	2003.0	1972.1	30.9
8-14 Jun 75	897.2	860.8	36.4	2003.1	1971.6	31.5
15-21 Jun 75	896.3	861.1	35.2	2003.2	1972.4	30.8
22-28 Jun 75	895.5	860.8	34.7	2003.1	1972.1	31.0
29 Jun-5 Jul 75	895.2	868.2	27.0	2003.2	1972.7	30.5
6-12 Jul 75	892.4	860.5	31.9	2003.1	1975.9	27.2
13-19 Jul 75	895.0	860.3	34.7	2003.1	1972.4	30.7
20-26 Jul 75	891.5	861.6	29.9	2003.0	1977.8	25.2
27 Jul-2 Aug 75	892.5	861.5	31.0	2003.0	1976.4	26.6
3-9 Aug 75	891.1	861.0	30.1	2003.0	1977.8	25.2
10-16 Aug 75	899.7	859.9	39.8	2003.1	1965.0	38.1
17-23 Aug 75	890.5	860.0	30.5	2003.0	1977.3	25.7
24-30 Aug 75	890.1	859.3	30.8	2003.0	1977.6	25.4
31 Aug-6 Sep 75	890.9	859.7	31.2	2002.8	1976.8	26.0
7-13 Sep 75	885.4	860.0	25.4	2002.5	1982.7	19.8
14-20 Sep 75	886.2	860.0	26.2	2002.4	1981.5	20.9
21-27 Sep 75	886.8	859.9	26.9	2002.3	1982.3	20.0
28 Sep-4 Oct 75	890.7	860.0	30.7	2003.0	1978.1	24.9
5-11 Oct 75	888.8	860.7	28.1	2003.0	1981.8	21.2
12-18 Oct 75	891.7	860.0	31.7	2003.1	1976.7	26.4
19-25 Oct 75	885.6	860.3	25.3	2003.2	1983.3	19.8
26 Oct-1 Nov 75	883.7	860.6	23.1	2002.9	1985.3	17.6
2-8 Nov 75	889.0	859.8	29.2	2003.2	1979.9	23.3
9-15 Nov 75	893.7	860.1	33.6	2003.2	1974.5	28.7
16-22 Nov 75	889.6	860.0	29.6	2003.3	1978.0	25.3
23-29 Nov 75	893.5	860.0	33.5	2003.3	1975.0	28.3
30 Nov-6 Dec 75	891.6	860.3	31.3	2003.2	1977.1	26.1
7-13 Dec 75	890.4	860.6	29.8	2003.1	1978.6	24.5
14-20 Dec 75	889.1	860.7	28.4	2002.9	1979.6	23.3
21-27 Dec 75	895.7	860.3	35.4	2003.0	1971.6	31.4
28-31 Dec 75	895.9	860.7	35.2	2003.1	1971.5	31.6

Table 136. Dates in 1975 on which water samples were taken from 12 stations in Schoharie Creek and its tributaries and from two stations on Lower and Upper B-G, following 1.00 or more inches of rainfall in a 24-hour period as measured at Lansing Manor.

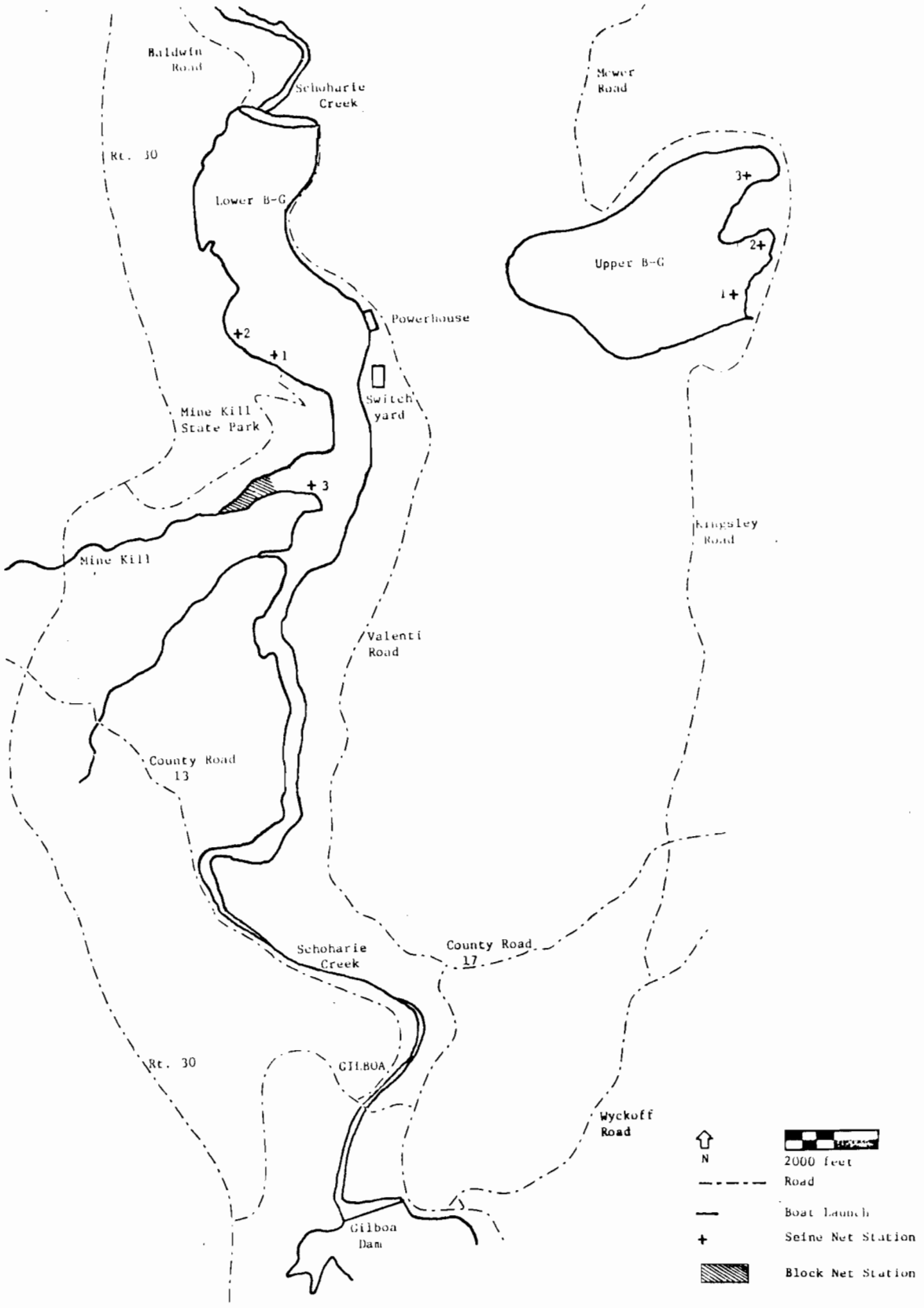
Date	Amount of Rainfall (inches)
13 Jun	1.01
21 Jul	1.33
25 Jul	0.81
7 Aug	1.01
25 Sep	1.68



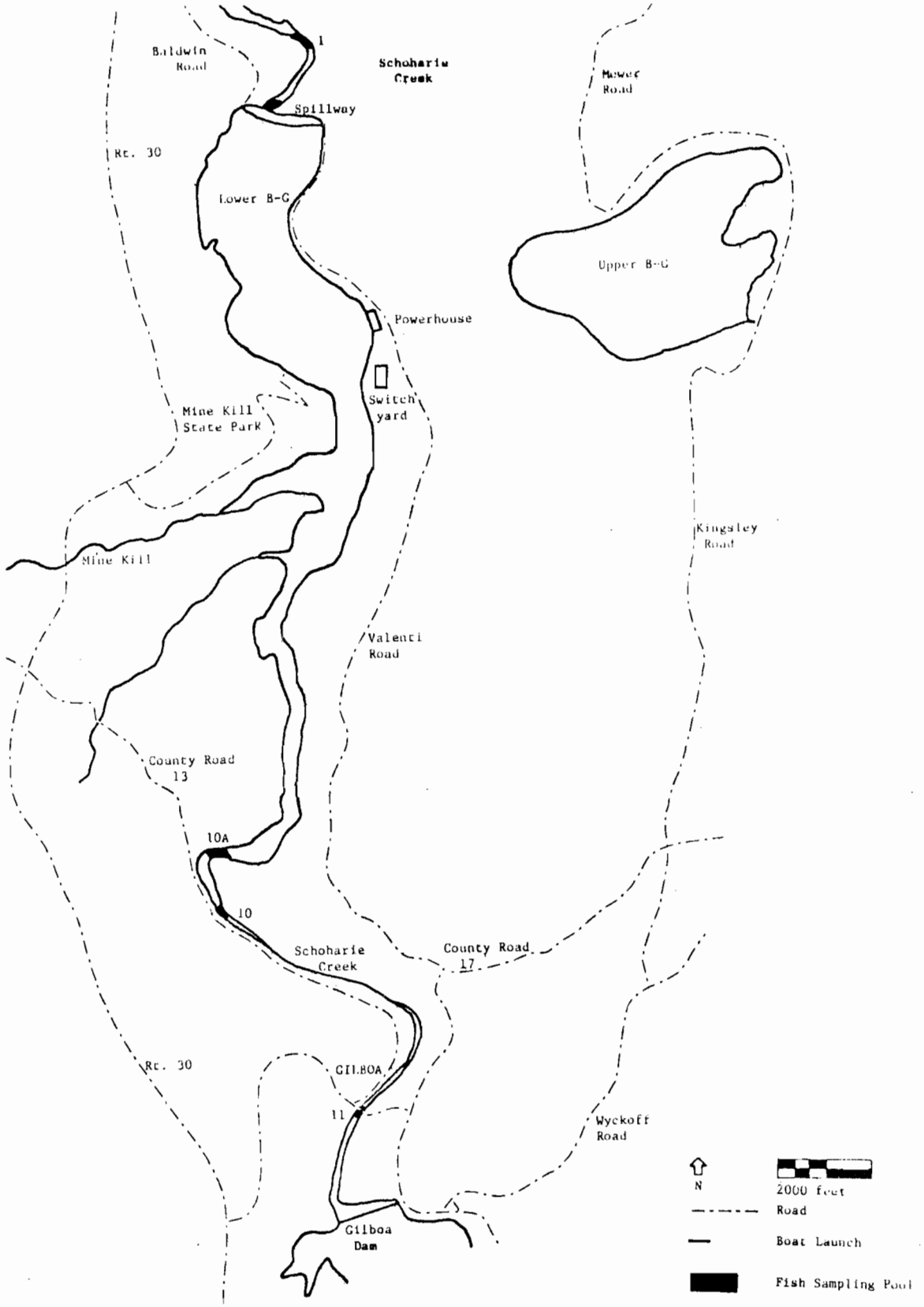
Map 1. Gill net stations 1-10 on Lower B-G and 1-6 on Upper B-G.



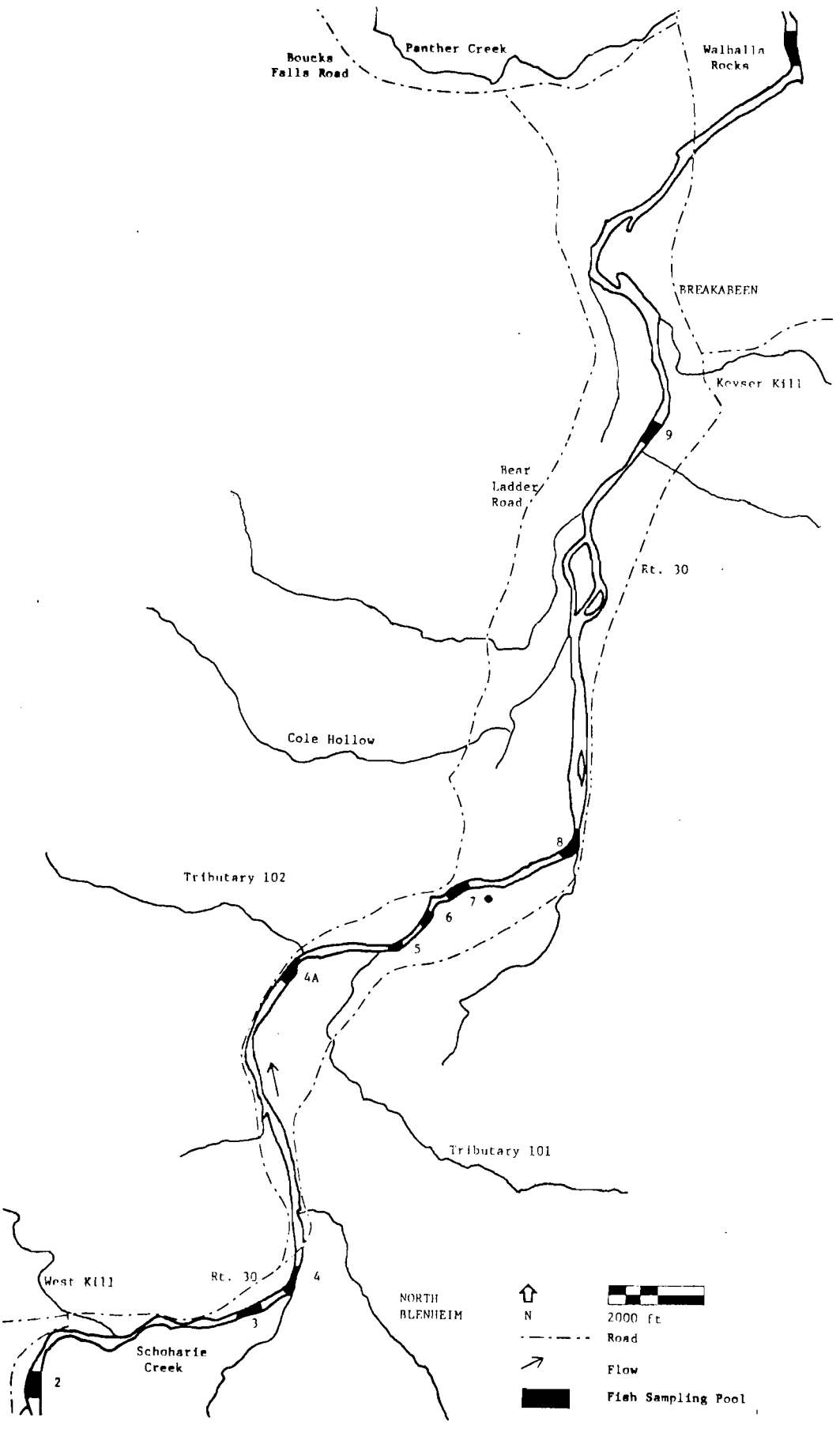
Map 2. Trap net stations 1-4 on Lower and Upper B-G.



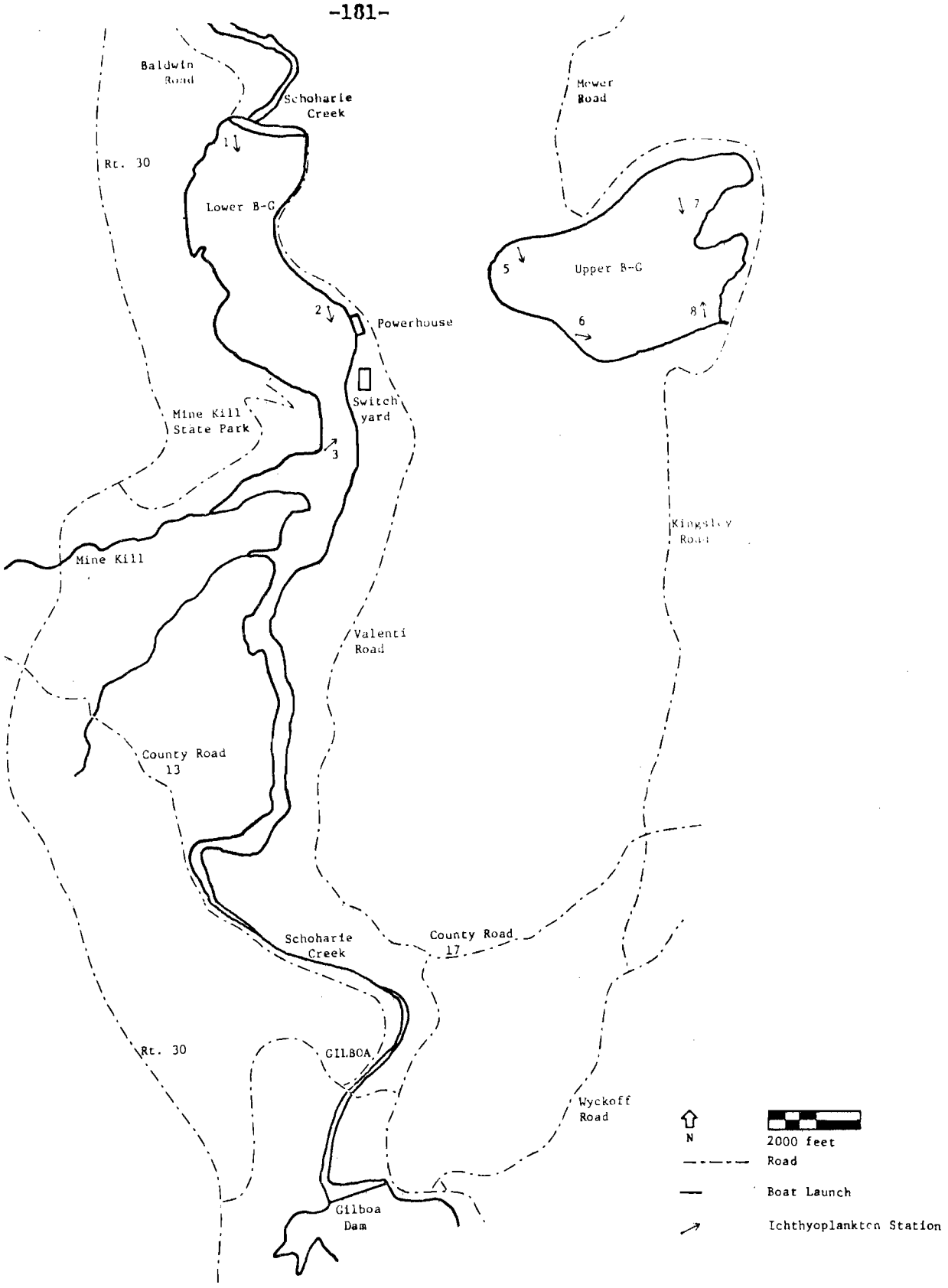
Map 3. Seine net stations 1-3 on Lower and Upper B-G and block net station on Lower B-G.



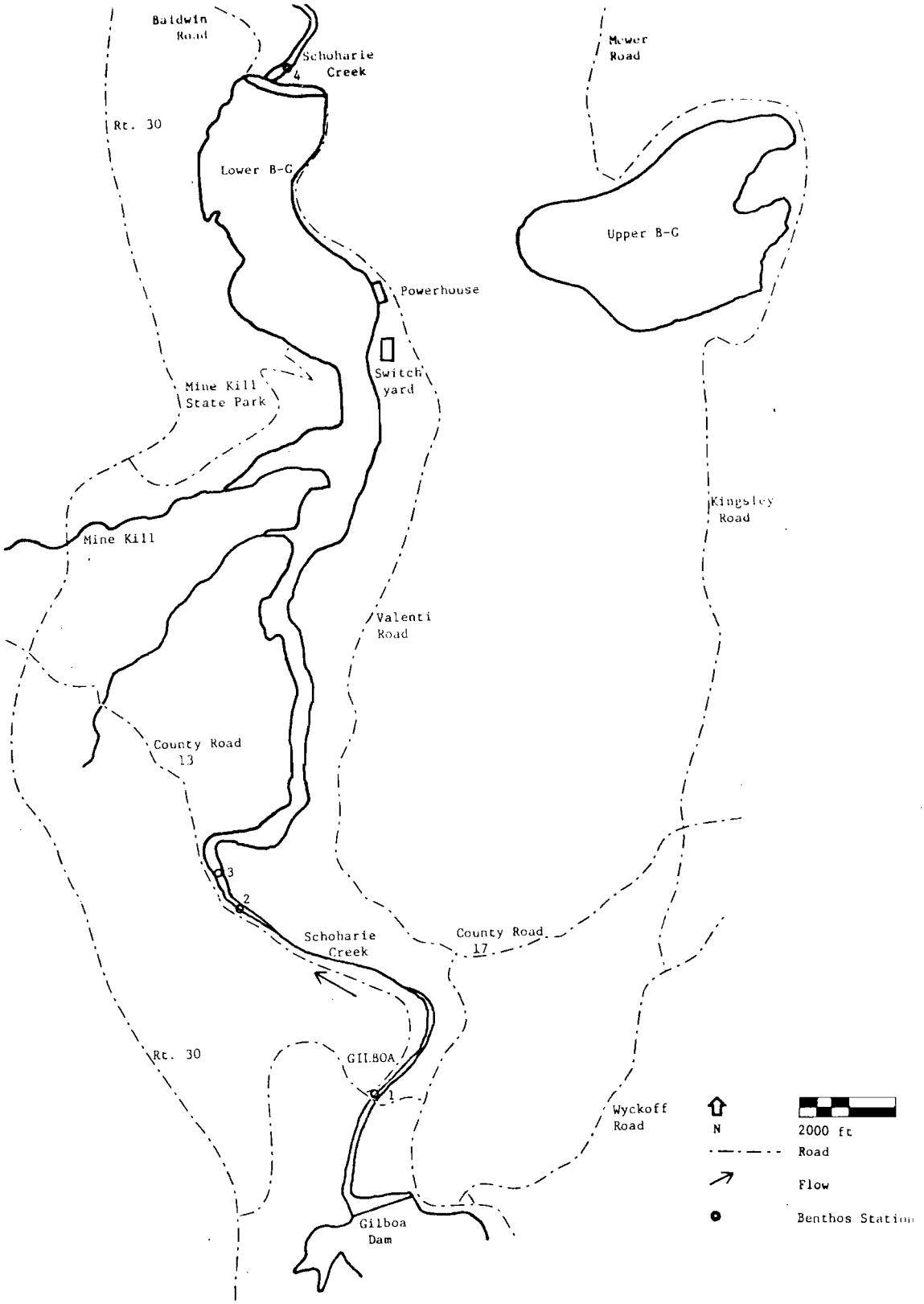
Map 4. Fish sampling pools 11, 10, 10A, spillway pool, and 1 on Schoharie Creek.



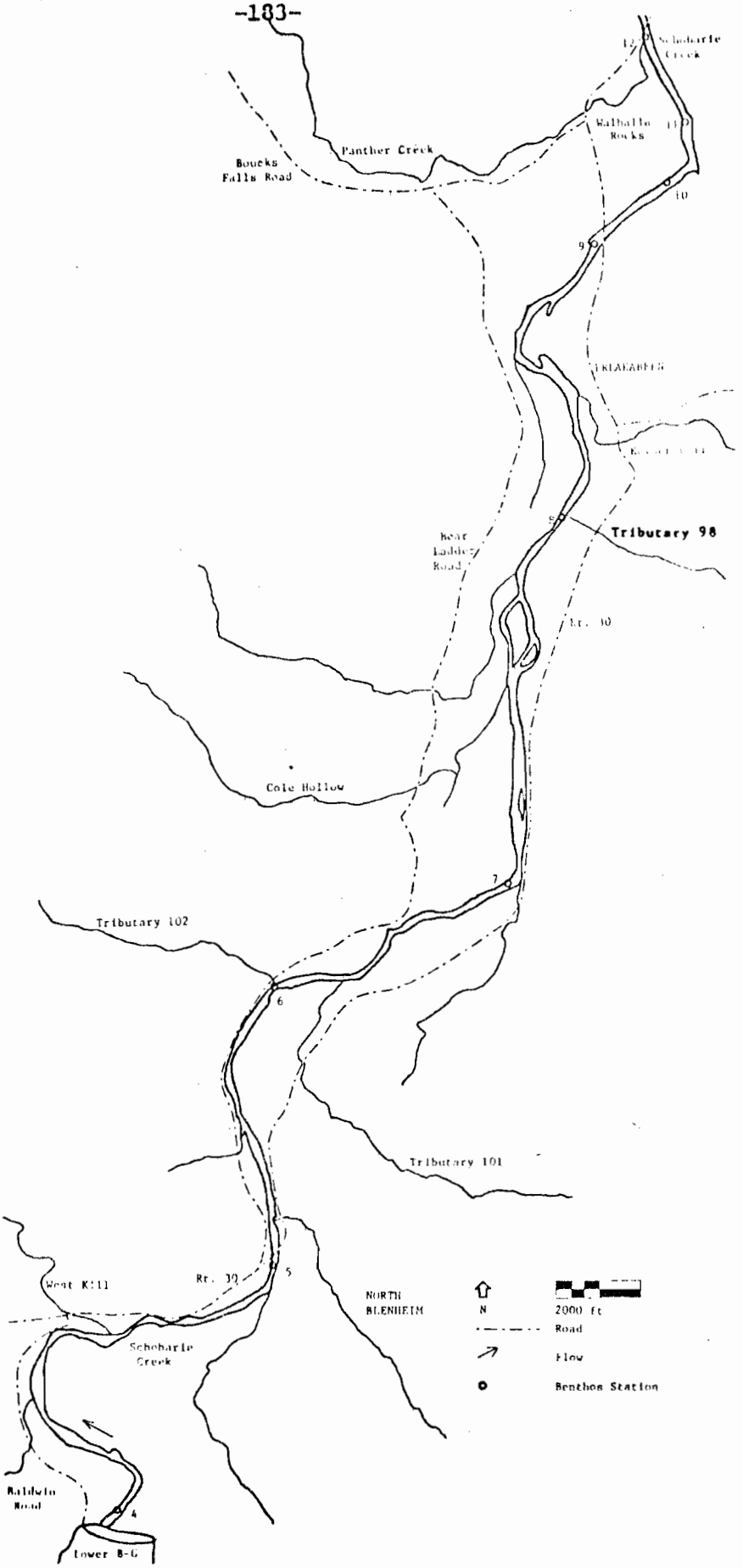
Map 5. Fish sampling pools 2-9 on Schoharie Creek.



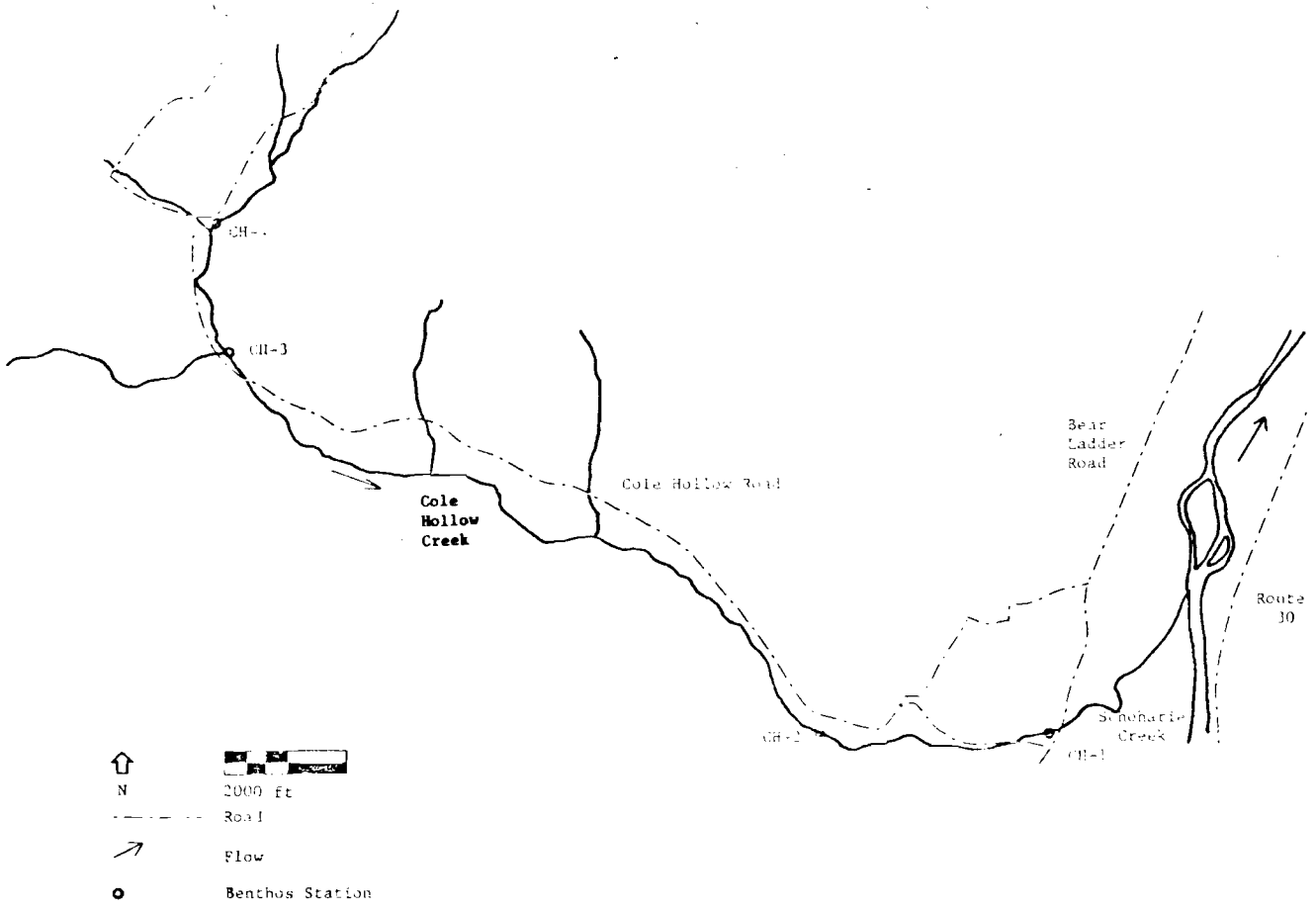
Map 6. Ichthyoplankton stations 1-3 on Lower B-G and 5-8 on Upper B-G.



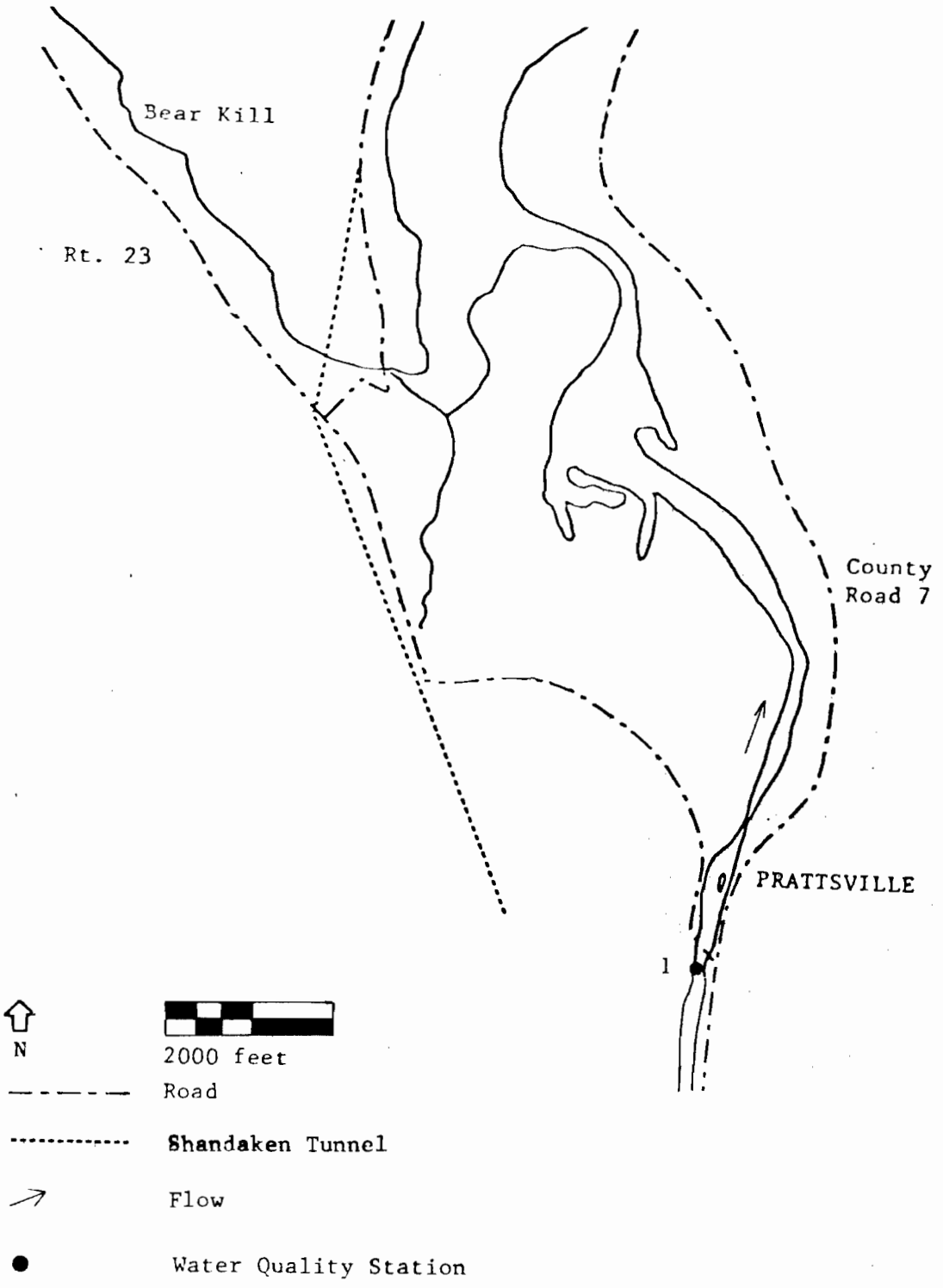
Map 7. Benthos stations 1-4 on Schoharie Creek.



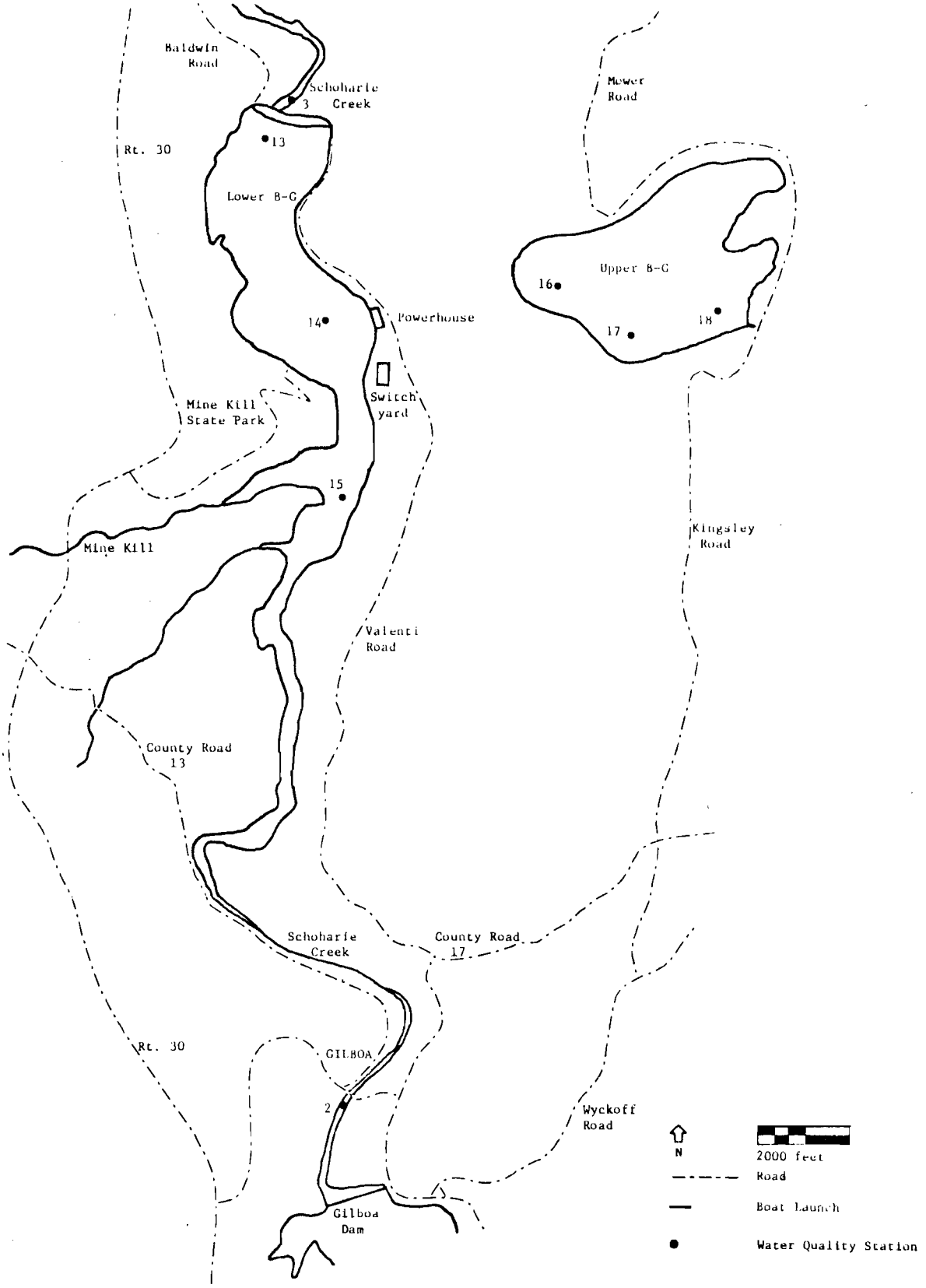
Map 8. Benthos stations 4-12 on Schoharie Creek.



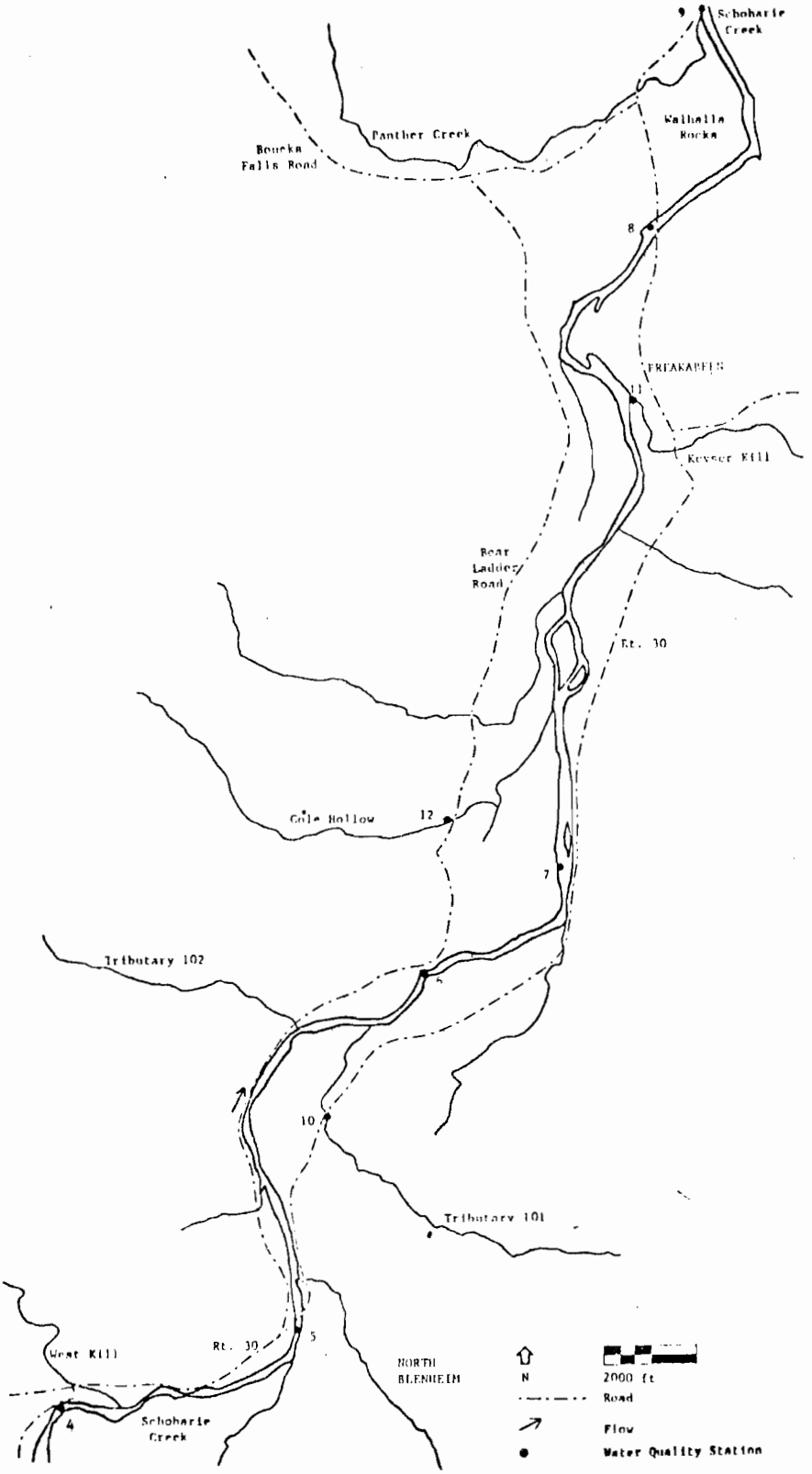
Map 9. Benthos stations CH-1 through CH-4 on Cole Hollow Creek.



Map 10. Water quality station 1 on Schoharie Creek.



Map 11. Water quality stations 2 and 3 on Schoharie Creek, 13-15 on Lower B-G and 16-18 on Upper B-G.



Map 12. Water quality stations 4-9 on Schoharie Creek, 10 on Tributary 101, 11 on Keyser Kill, and 12 on Cole Hollow Creek.

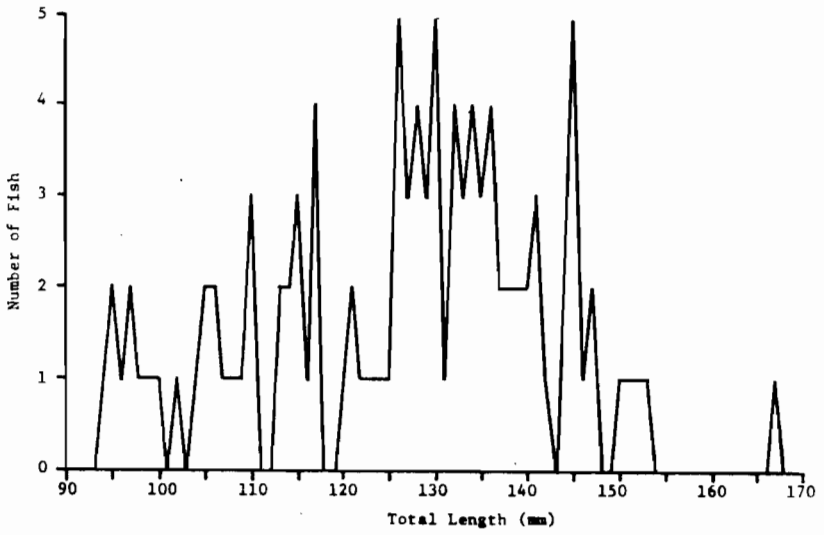


Fig. 1. Length-frequency distribution of pumpkinseed collected in June 1975 in Lower B-G.

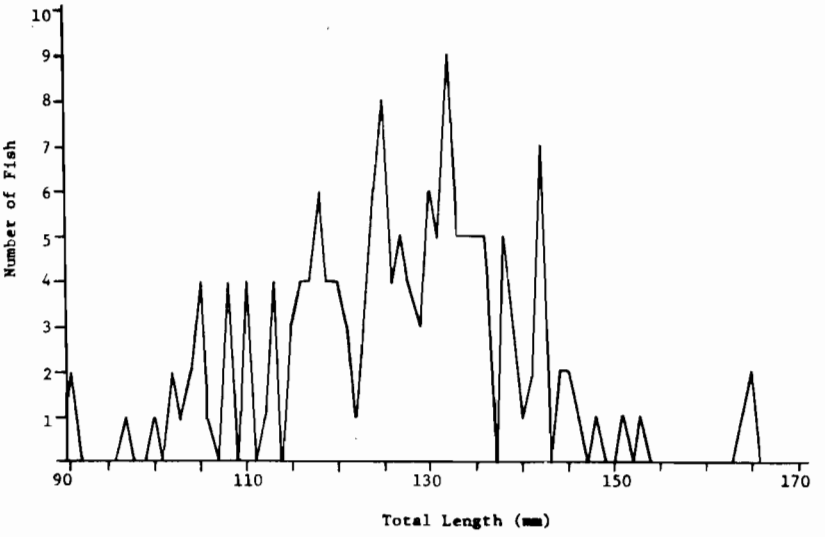


Fig. 2. Length-frequency distribution of pumpkinseed collected in July 1975 in Lower B-G.

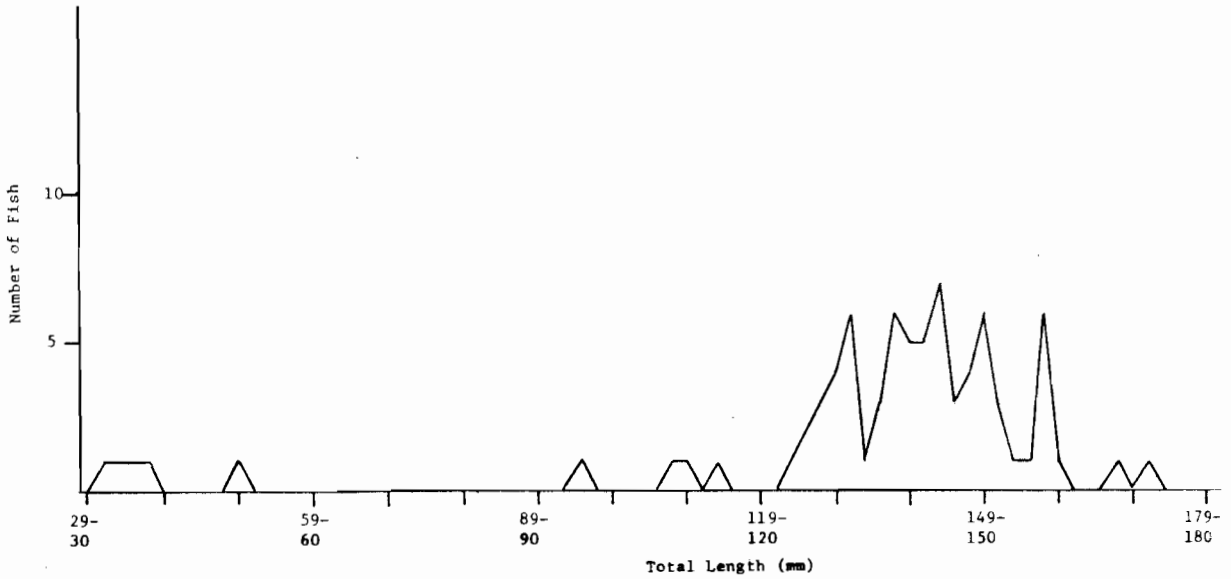


Fig. 3. Length-frequency distribution of pumpkinseed collected in August 1975 in Lower B-G.

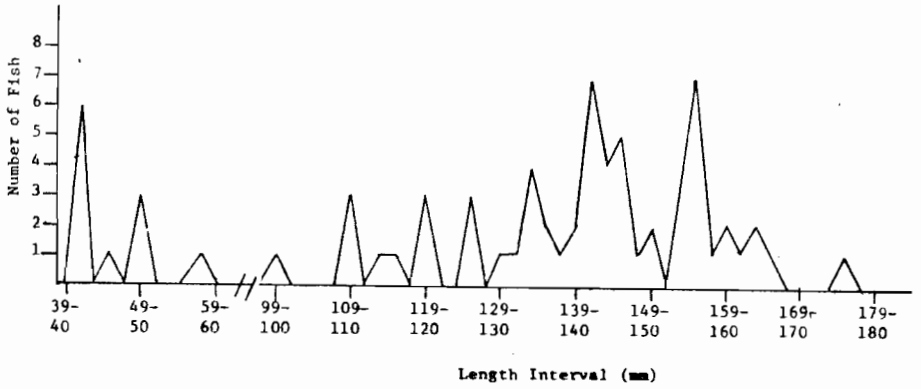


Fig. 4. Length-frequency distribution of pumpkinseed collected in September 1975 in Lower B-G.

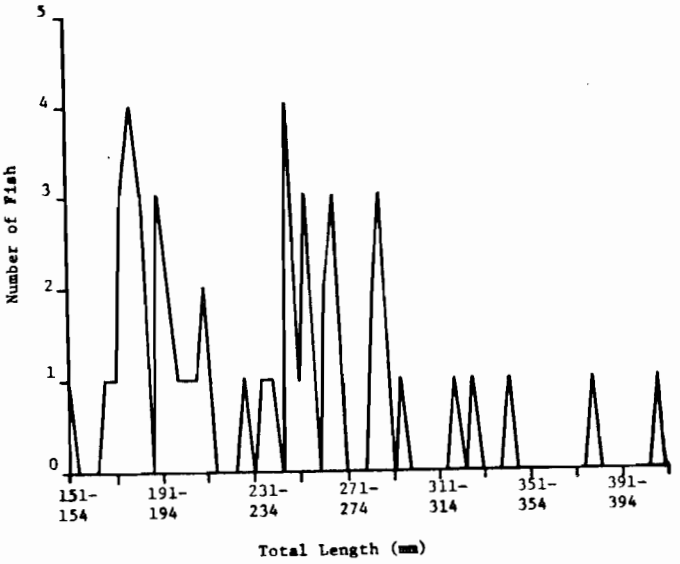


Fig. 5. Length-frequency distribution of smallmouth bass collected in June 1975 in Lower B-G.

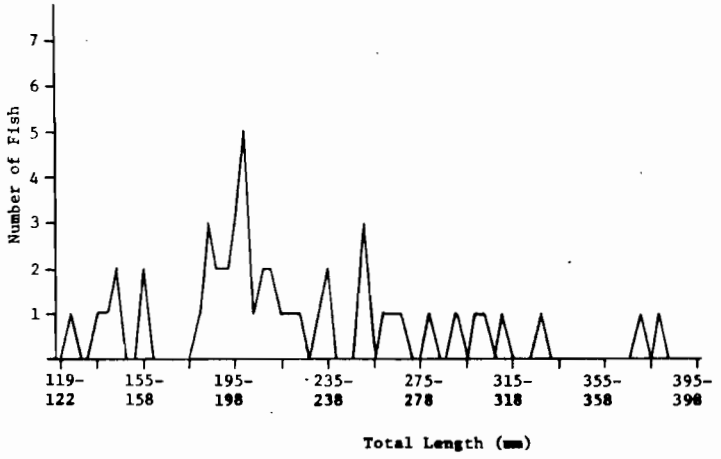


Fig. 6. Length-frequency distribution of smallmouth bass collected in July 1975 in Lower B-G.

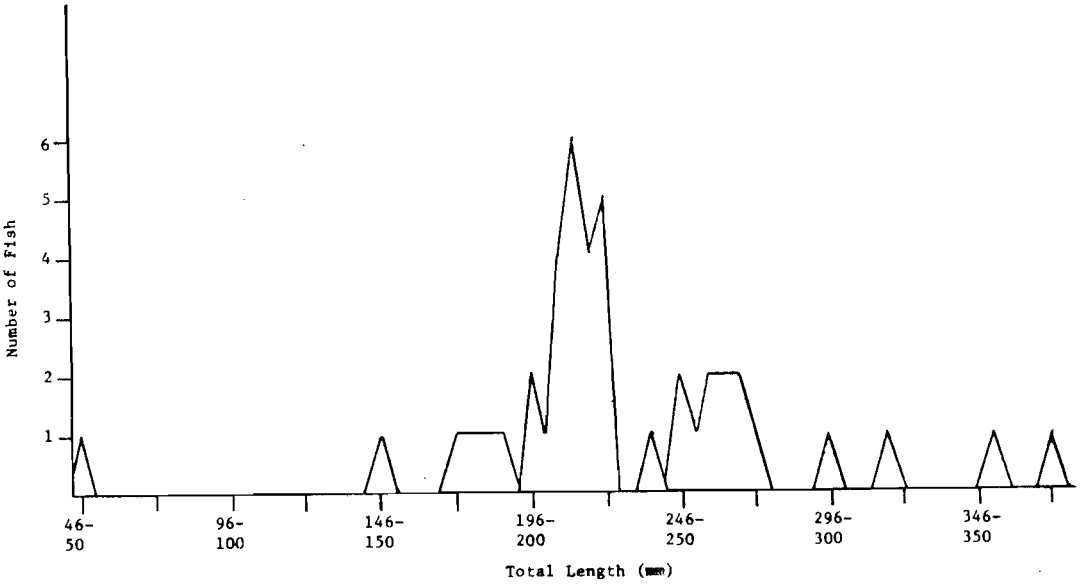


Fig. 7. Length-frequency distribution of smallmouth bass collected in August 1975 in Lower B-G.

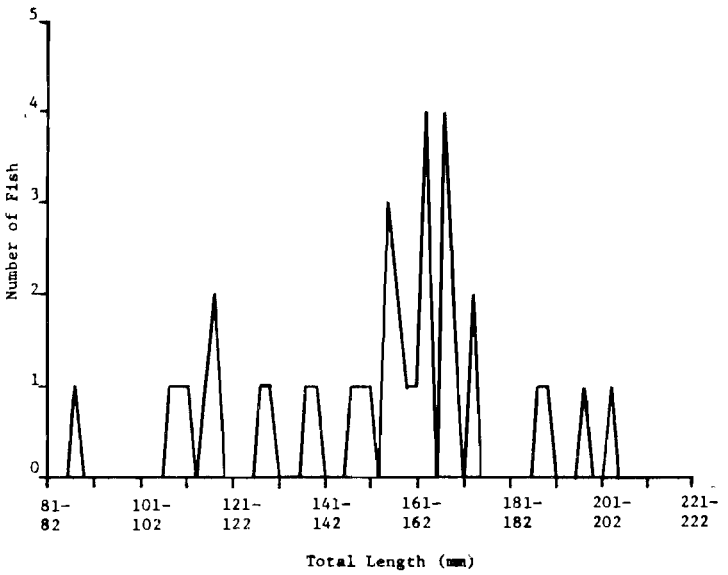


Fig. 8. Length-frequency distribution of rock bass collected in June 1975 in Lower B-G.

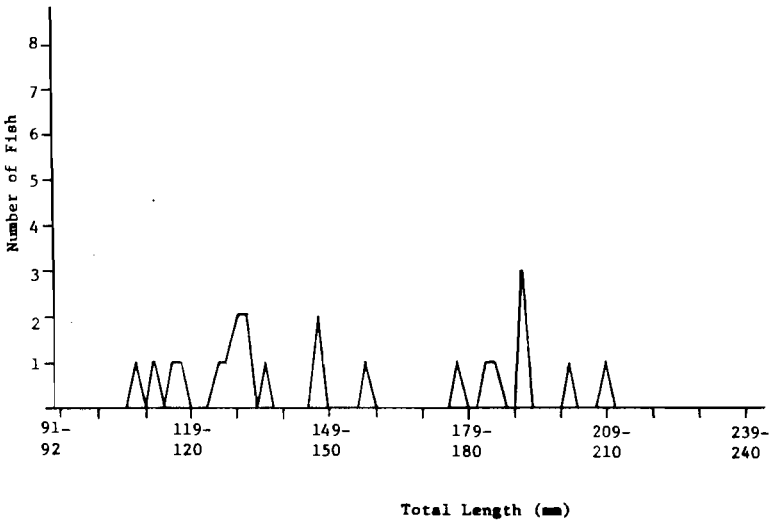


Fig. 9. Length-frequency distribution of yellow perch collected in July 1975 in Lower B-G.

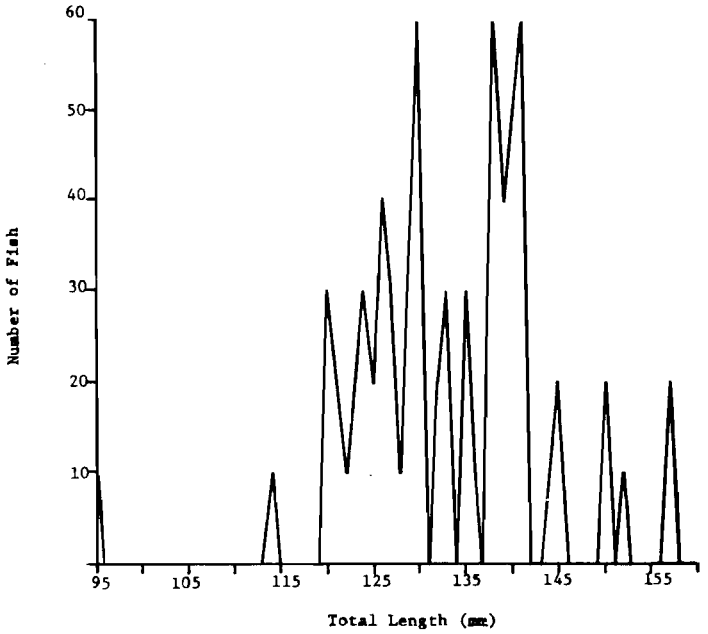


Fig. 10. Length-frequency distribution of pumpkinseed collected in June 1975 in Upper B-G.

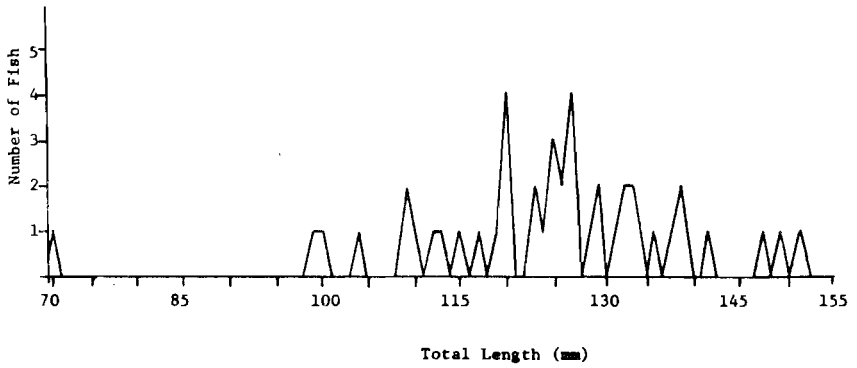


Fig. 11. Length-frequency distribution of pumpkinseed collected in July 1975 in Upper B-G.

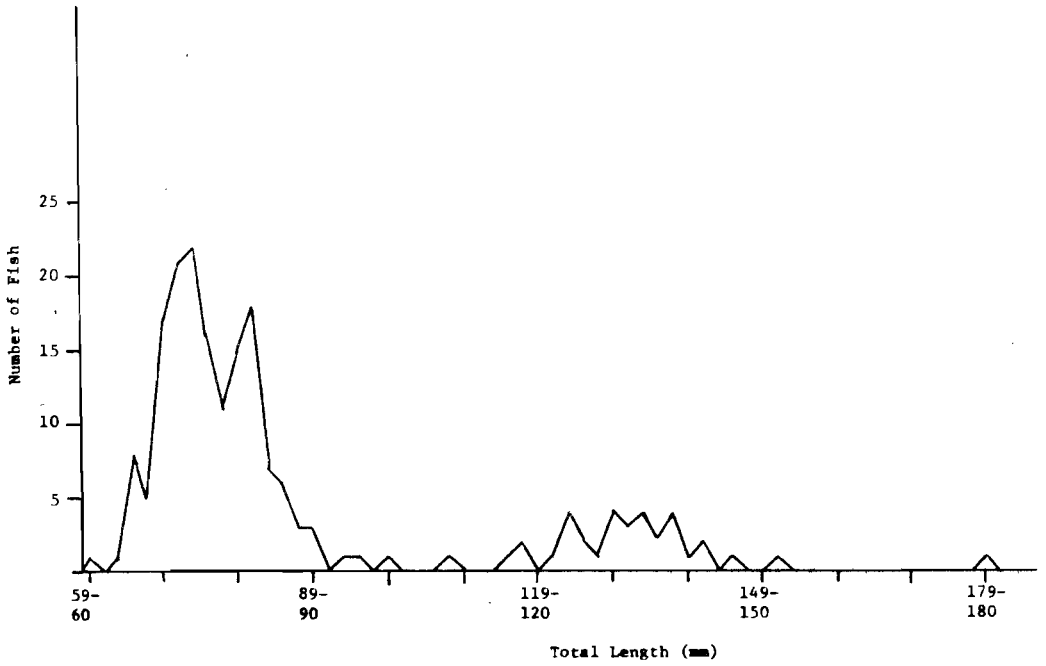


Fig. 12. Length-frequency distribution of pumpkinseed collected in August 1975 in Upper B-G.

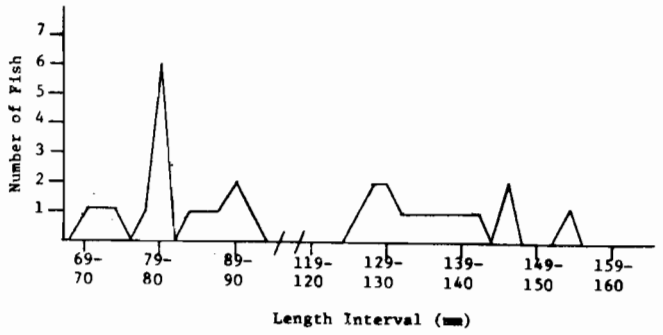


Fig. 13. Length-frequency distribution of pumpkinseed collected in September 1975 in Upper B-G.

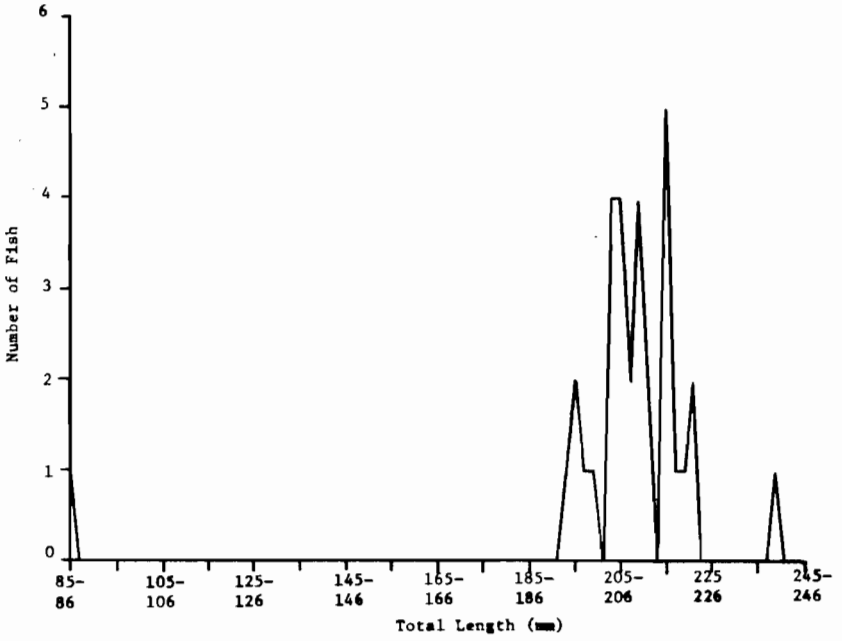


Fig. 14. Length-frequency distribution of yellow perch collected in June 1975 in Upper B-G.

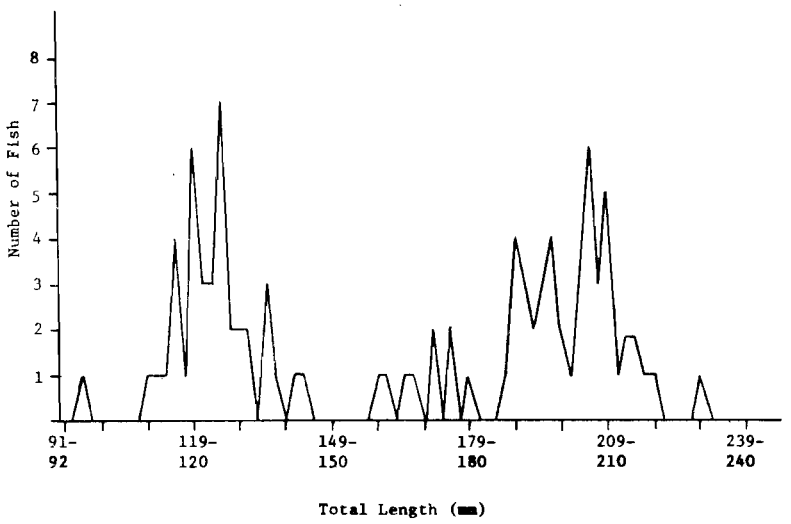


Fig. 15. Length-frequency distribution of yellow perch collected in July 1975 in Upper B-G.

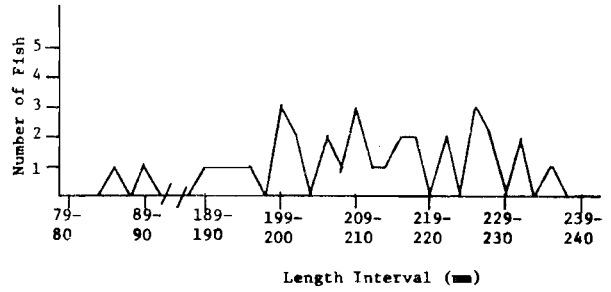


Fig. 16. Length-frequency distribution of yellow perch collected in September 1975 in Upper B-G.

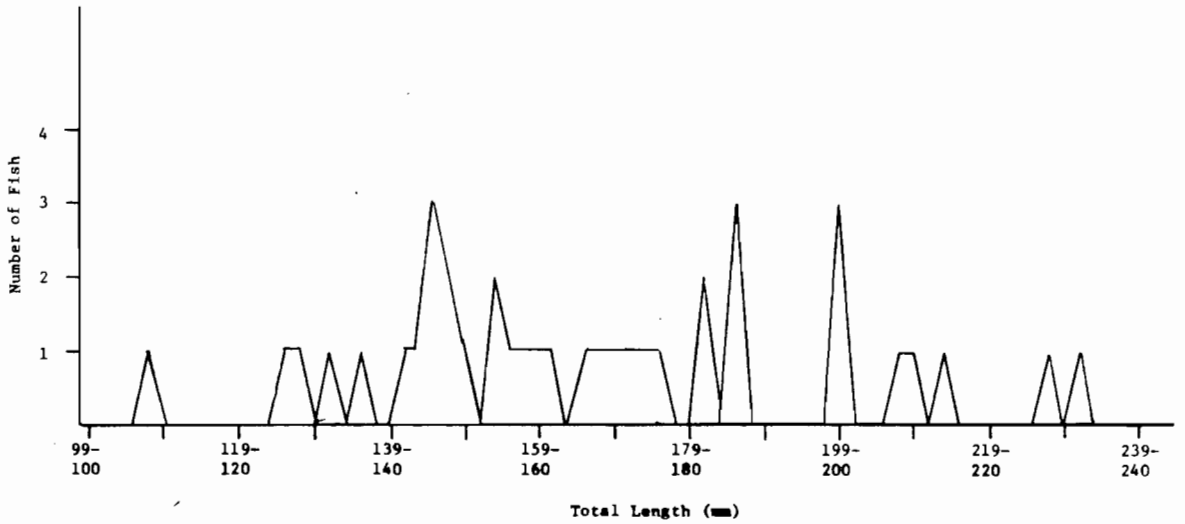


Fig. 17. Length-frequency distribution of rock bass collected in August 1975 in Schoharie Creek.

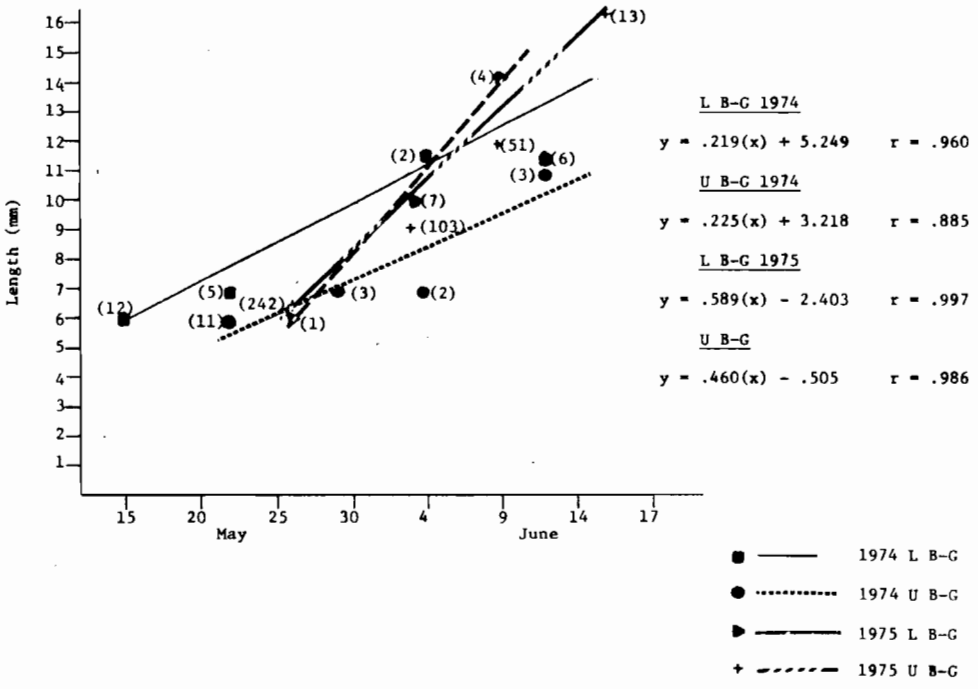


Fig. 18. Summary of mean weekly length of yellow perch taken during ichthyoplankton sampling in 1974 and 1975 in Lower and Upper R-G.

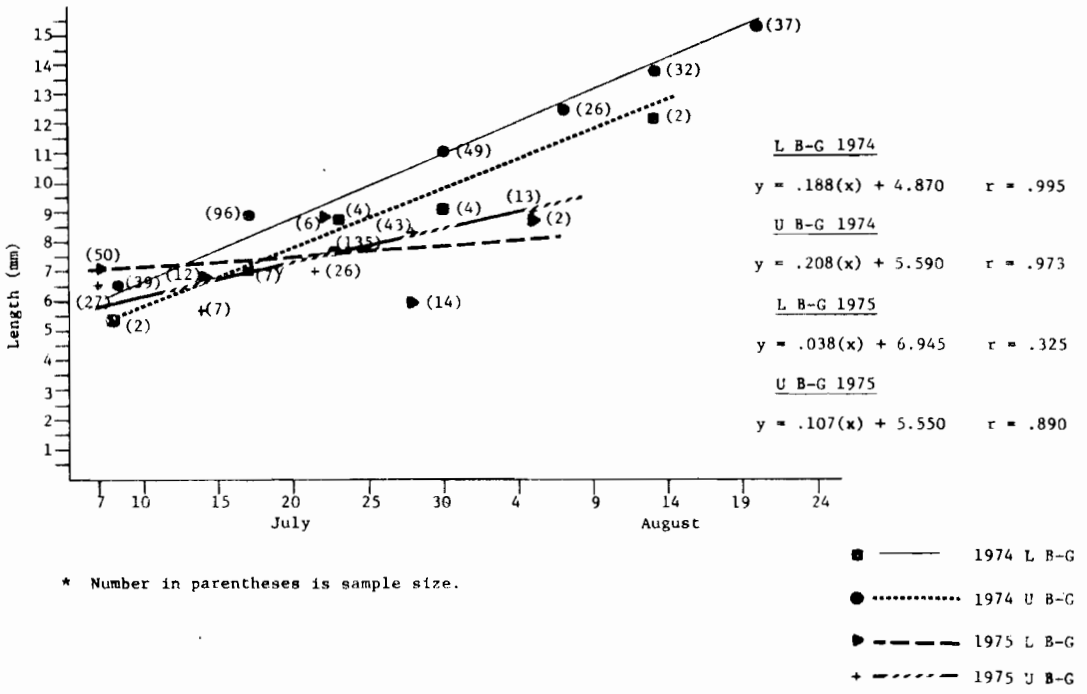


Fig. 19. Summary of mean weekly length of sunfish spp. taken during ichthyoplankton sampling in 1974 and 1975 in Lower and Upper B-G.

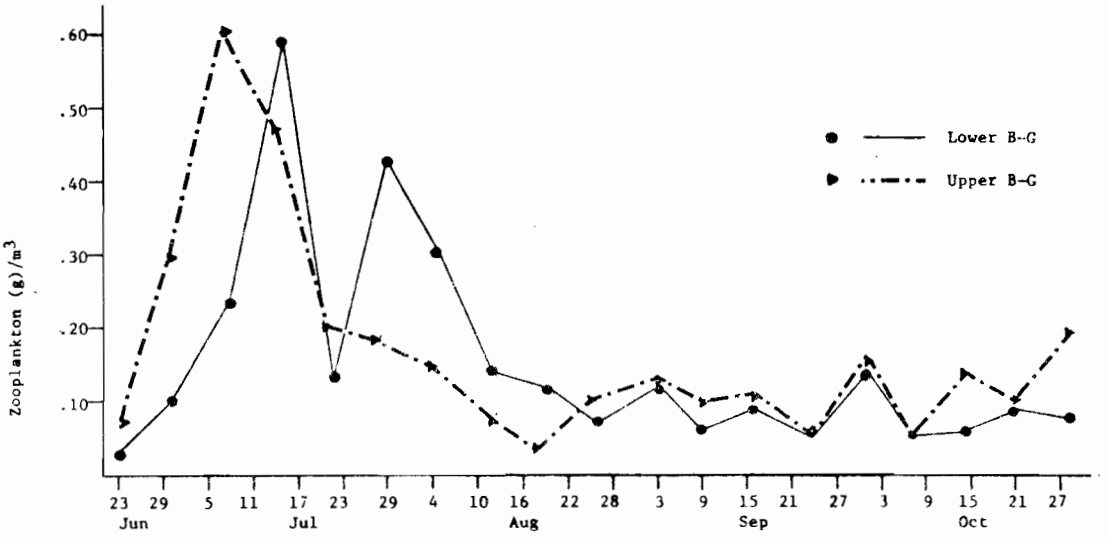


Fig. 20. Summary of total wet zooplankton weight (g) per m^3 of water filtered from 23 June through 28 October 1975 during night surface ichthyoplankton tows in Lower and Upper B-G.

SCHOHARIE VALLEY ECOLOGICAL STUDY
ICHTHYOLOGICAL ASSOCIATES, INC.

CREEL CENSUS DATA
LOWER B-G RESERVOIR

Census Taker_____ Date_____ Time_____
Location Fished in Reservoir_____ Boat____ Shore____
Reservoir Habitat Fished_____ Weather_____
Turbidity (S.D.)_____ Reservoir Temperature_____ Air Temperature_____

Number of Fishermen in Party: Male____(Ages_____) Female____(Ages_____)
Residence of Fishermen_____
Number of Hours Fished by Party (nearest ½ hour)____ Number of Hours Expected to Fish Beyond Time Already Fished (nearest ½ hour)____ Approximate Number of Miles Traveled by Party to Fish_____ Fishing Gear: Natural (worms, minnows, etc.)_____
_____ Artificial (lures, flies, etc.)_____

How party rates the fishing for pan fish: good____ fair____ poor____; for game fish: good____ fair____ poor____.

Fishes party is fishing for: anything____; game fish (walleye____, largemouth bass ____, smallmouth bass____, chain pickerel____, trout____); pan fish (rock bass____, yellow perch____, Lepomis sp.____, bullhead____); other (list)_____.

Fish Caught and Released (weight, length, and scales; parasites, ripeness, etc.):

Fig. 21. Form used to record creel census data from 1 May through 1 September 1975 on Lower B-G.

SCHOHARIE VALLEY ECOLOGICAL STUDY
ICHTHYOLOGICAL ASSOCIATES, INC.

CREEL CENSUS DATA
SCHOHARIE CREEK

Census Taker_____ Date_____ Time_____
Quadrangle_____ Location Fished in Creek_____
Type of Stream Habitat_____ Weather_____
Stream Flow_____ Turbidity (S.D.)_____ Stream Temp._____ Air Temp._____

Number of Fishermen in Party: Male____ (Ages_____) Female____ (Ages_____).
Residence of Fishermen_____
Number of Hours Fished by Party (nearest ½ hour)____ Number of Hours Expected to Fish Beyond Time Already Fished (nearest ½ hour)____ Approximate Number of Miles Traveled by Party to Fish_____ Fishing Gear: Natural (worms, minnows, etc.)_____
_____ Artificial (lures, flies, etc.)_____

How party rates the fishing for pan fish: good____ fair____ poor____; for game fish: good____ fair____ poor____.

Fishes party is fishing for: anything____; game fish (walleye____, largemouth bass ____, smallmouth bass____, chain pickerel____, trout____); pan fish (rock bass____, yellow perch____, Lepomis sp.____, bullhead____); other (list)_____.

Fish Caught and Released (weight, length, and scales; parasites, ripeness, etc.):

Fig. 22. Form used to record creel census data from 1 May through 27 September 1975 on Schoharie Creek between Schoharie Reservoir and the Breakabeen iron bridge and tributary Cole Hollow Creek.

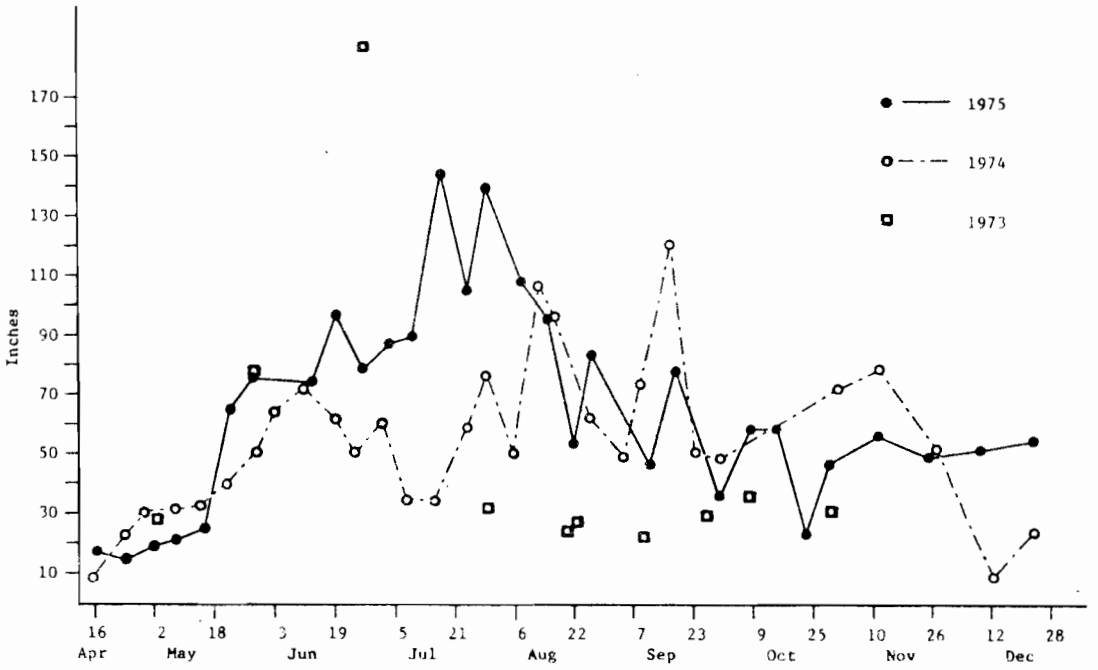


Fig. 23. Summary of Secchi disc transparency taken from April through October 1973 and from April through December 1974 and 1975 from station 13, Lower B-G.

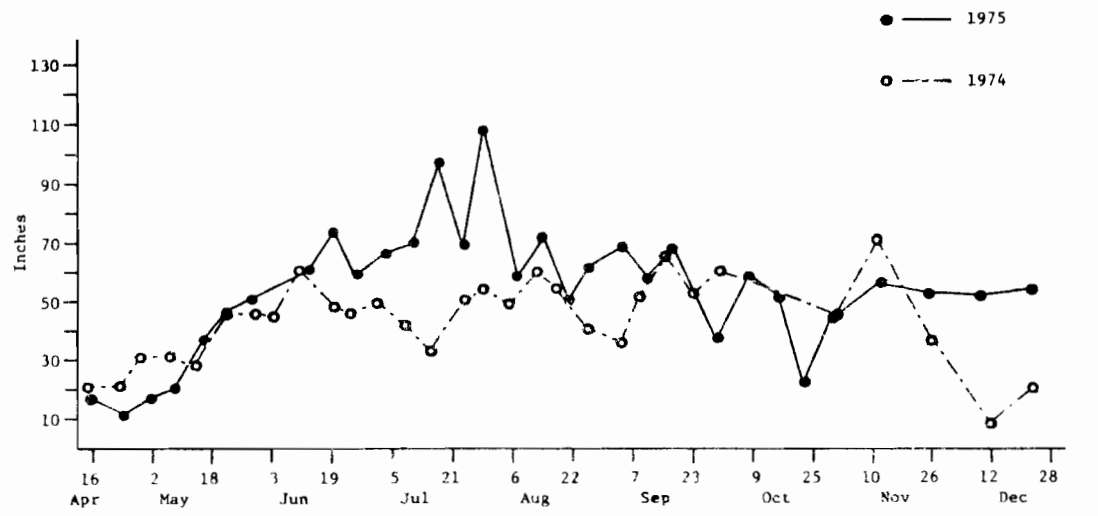


Fig. 24. Summary of Secchi disc transparency taken from April through December 1974 and 1975 from station 14, Lower B-G.

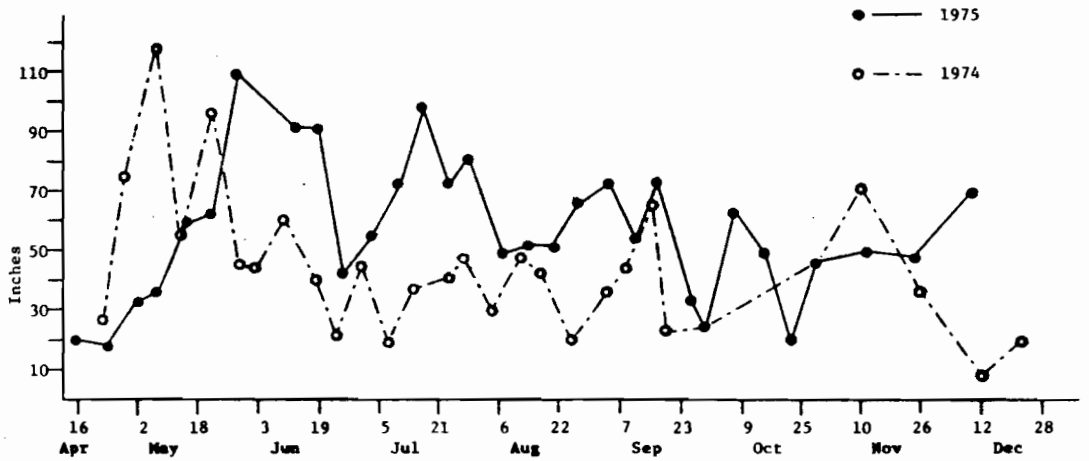


Fig. 25. Summary of Secchi disc transparency taken from April through December 1974 and 1975 from station 15, Lower B-G.

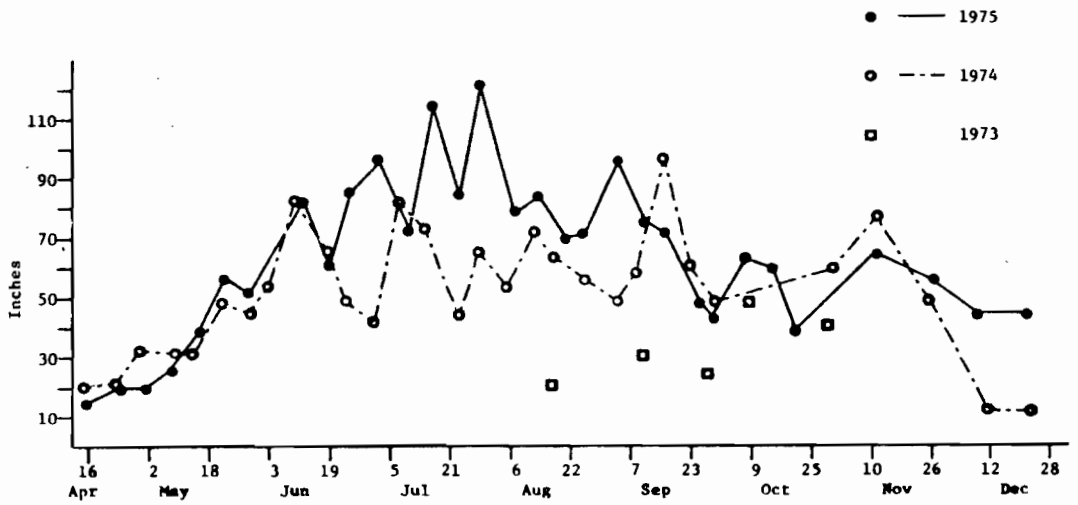


Fig. 26. Summary of Secchi disc transparency taken from April through October 1973 and from April through December 1974 and 1975 from station 16, Upper B-G.

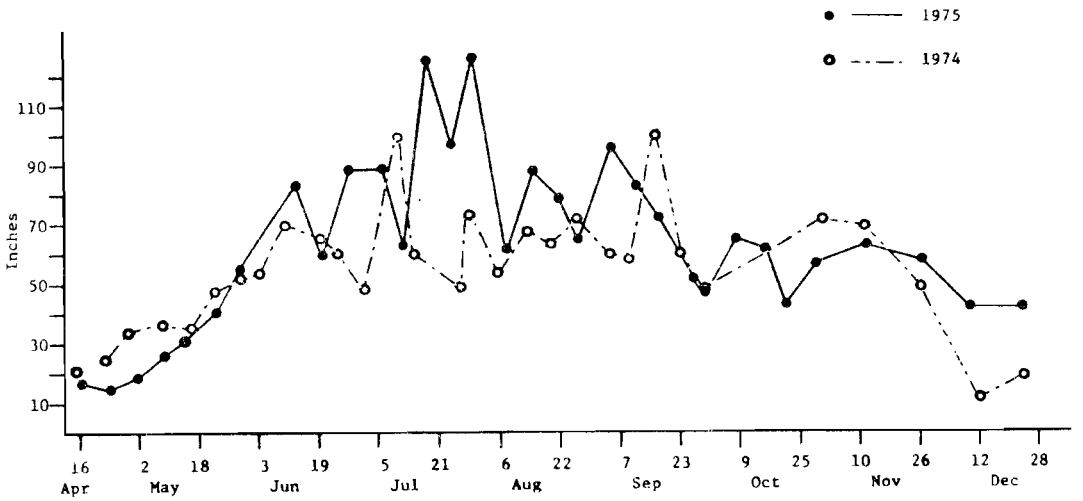


Fig. 27. Summary of Secchi disc transparency taken from April through December 1974 and 1975 from station 17, Upper B-G.

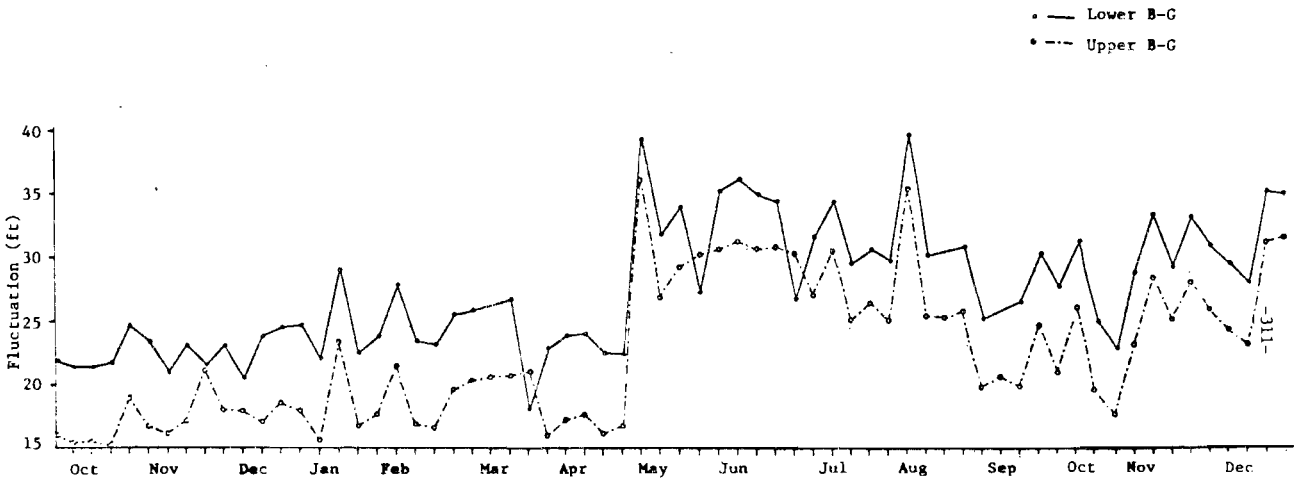


Fig. 28. Summary of weekly fluctuation taken from 1 October 1974 through 31 December 1975 from Lower and Upper B-G.

Appendix 1. Fishes tagged from May through September 1974 in Lower and Upper B-G and Schoharie Creek between the Gilboa iron bridge and the Walhalla Rocks and from June through September 1975 in Lower and Upper B-G.

Tag Number	Species	Date	Location	Length (mm)	Weight (g)
1	Pumpkinseed	10 May 74	TN3, L B-G	157	74.0
2	Pumpkinseed	10 May 74	TN3, L B-G	141	57.2
3	Pumpkinseed	10 May 74	TN3, L B-G	116	28.1
4	Pumpkinseed	10 May 74	TN3, L B-G	127	36.6
6	Largemouth bass	19 May 74	Mine Kill Cove	350	766.0
7	Largemouth bass	19 May 74	Mine Kill Cove	246	164.8
8	Largemouth bass	19 May 74	Mine Kill Cove	286	329.2
9	Largemouth bass	19 May 74	Mine Kill Cove	242	155.7
10	Largemouth bass	19 May 74	Mine Kill Cove	213	86.0
11	Largemouth bass	19 May 74	Mine Kill Cove	240	174.8
12	Largemouth bass	19 May 74	Mine Kill Cove	200	111.5
13	Largemouth bass	19 May 74	Mine Kill Cove	210	137.0
14	Largemouth bass	19 May 74	Mine Kill Cove	181	79.2
15	Smallmouth bass	19 May 74	Mine Kill Cove	288	331.3
16	Largemouth bass	9 May 74	Mine Kill Cove	275	333.3
17	Largemouth bass	9 May 74	Mine Kill Cove	240	203.0
18	Largemouth bass	9 May 74	Mine Kill Cove	191	75.5
19	Largemouth bass	9 May 74	Mine Kill Cove	267	290.2
20	Smallmouth bass	9 May 74	Mine Kill Cove	262	233.6
21	Largemouth bass	19 May 74	Mine Kill Cove	264	301.6
22	Largemouth bass	19 May 74	Mine Kill Cove	245	209.1
23	Largemouth bass	19 May 74	Mine Kill Cove	195	70.5
24	Largemouth bass	19 May 74	Mine Kill Cove	198	85.2
25	Smallmouth bass	19 May 74	Mine Kill Cove	294	308.0
26	Largemouth bass	19 May 74	Mine Kill Cove	270	336.0
27	Largemouth bass	19 May 74	Mine Kill Cove	280	383.0
28	Largemouth bass	19 May 74	Mine Kill Cove	219	148.4
29	Largemouth bass	19 May 74	Mine Kill Cove	190	97.3
30	Smallmouth bass	19 May 74	Mine Kill Cove	273	259.4
31	Largemouth bass	19 May 74	Mine Kill Cove	201	91.9
32	Largemouth bass	19 May 74	Mine Kill Cove	218	127.8
33	Largemouth bass	19 May 74	Mine Kill Cove	208	100.1
34	Smallmouth bass	19 May 74	Mine Kill Cove	234	120.8
35	Smallmouth bass	19 May 74	Mine Kill Cove	243	170.2
36	Largemouth bass	19 May 74	Mine Kill Cove	172	42.7
37	Smallmouth bass	19 May 74	Mine Kill Cove	161	36.3
38	Largemouth bass	19 May 74	Mine Kill Cove	211	93.8
39	Largemouth bass	19 May 74	Mine Kill Cove	207	90.7
40	Largemouth bass	19 May 74	Mine Kill Cove	198	88.8
41	Smallmouth bass	19 May 74	Mine Kill Cove	276	260.1
42	Largemouth bass	19 May 74	Mine Kill Cove	191	84.5
43	Largemouth bass	19 May 74	Mine Kill Cove	194	80.8
44	Largemouth bass	19 May 74	Mine Kill Cove	195	77.3
45	Largemouth bass	19 May 74	Mine Kill Cove	204	89.9
46	Largemouth bass	19 May 74	Mine Kill Cove	200	92.9
47	Largemouth bass	19 May 74	Mine Kill Cove	207	92.3
48	Largemouth bass	19 May 74	Mine Kill Cove	228	121.7
49	Largemouth bass	19 May 74	Mine Kill Cove	228	150.4
50	Smallmouth bass	19 May 74	Mine Kill Cove	252	169.1
51	Chain pickerel	19 May 74	Mine Kill Cove	248	55.6
52	Rock bass	19 May 74	Mine Kill Cove	191	120.5
53	Rock bass	19 May 74	Mine Kill Cove	180	99.1
54	Rock bass	19 May 74	Mine Kill Cove	175	119.8
55	Rock bass	19 May 74	Mine Kill Cove	152	72.3
56	Rock bass	19 May 74	Mine Kill Cove	142	68.5
57	Rock bass	19 May 74	Mine Kill Cove	150	68.1
58	Rock bass	19 May 74	Mine Kill Cove	141	61.0
59	Rock bass	19 May 74	Mine Kill Cove	129	39.4
60	Rock bass	19 May 74	Mine Kill Cove	130	40.5
61	Rock bass	19 May 74	Mine Kill Cove	128	33.6
62	Walleye	19 May 74	Mine Kill Cove	187	40.4
63	Rock bass	19 May 74	Mine Kill Cove	169	65.7
64	Rock bass	19 May 74	Mine Kill Cove	150	46.0
65	Rock bass	19 May 74	Mine Kill Cove	122	16.8
66	Rock bass	19 May 74	Mine Kill Cove	146	45.0
67	Rock bass	19 May 74	Mine Kill Cove	141	37.4
68	Rock bass	19 May 74	Mine Kill Cove	150	42.4
69	Rock bass	19 May 74	Mine Kill Cove	155	42.6
70	Rock bass	19 May 74	Mine Kill Cove	140	74.3
71	Rock bass	19 May 74	Mine Kill Cove	129	56.0
72	Rock bass	19 May 74	Mine Kill Cove	127	46.0
73	Pumpkinseed	19 May 74	Mine Kill Cove	160	88.5

Appendix 1 - (Continued).

Tag Number	Species	Date	Location	Length (mm)	Weight (g)
74	Pumpkinseed	19 May 74	Mine Kill Cove	128	40.9
75	Pumpkinseed	19 May 74	Mine Kill Cove	160	87.3
76	Walleye	19 May 74	Mine Kill Cove	235	100.7
77	Walleye	19 May 74	Mine Kill Cove	185	55.5
78	Largemouth bass	19 May 74	Mine Kill Cove	245	171.5
79	Rock bass	19 May 74	Mine Kill Cove	216	203.1
80	Yellow perch	19 May 74	Mine Kill Cove	190	78.5
81	Pumpkinseed	19 May 74	Mine Kill Cove	156	81.7
82	Yellow perch	19 May 74	Mine Kill Cove	143	15.6
83	Rock bass	19 May 74	Mine Kill Cove	169	79.1
84	Pumpkinseed	19 May 74	Mine Kill Cove	156	84.5
85	Rock bass	19 May 74	Mine Kill Cove	149	64.9
86	Pumpkinseed	19 May 74	Mine Kill Cove	148	70.0
87	Pumpkinseed	19 May 74	Mine Kill Cove	130	40.2
88	Rock bass	19 May 74	Mine Kill Cove	169	92.9
89	Pumpkinseed	19 May 74	Mine Kill Cove	150	59.9
90	Pumpkinseed	19 May 74	Mine Kill Cove	128	42.1
91	Pumpkinseed	19 May 74	Mine Kill Cove	130	41.9
92	Pumpkinseed	19 May 74	Mine Kill Cove	123	40.1
93	Pumpkinseed	19 May 74	Mine Kill Cove	115	30.4
94	Pumpkinseed	19 May 74	Mine Kill Cove	154	83.2
95	Rock bass	19 May 74	Mine Kill Cove	167	103.0
96	Rock bass	19 May 74	Mine Kill Cove	175	109.8
97	Rock bass	19 May 74	Mine Kill Cove	145	58.5
98	Rock bass	19 May 74	Mine Kill Cove	140	48.4
99	Pumpkinseed	19 May 74	Mine Kill Cove	124	36.3
100	Rock bass	19 May 74	Mine Kill Cove	140	48.8
101	Walleye	11 Jun 74	TN FAP-11	700	unknown
102	Pumpkinseed	13 Jun 74	TN3, L B-G	115	31.2
103	Largemouth bass	13 Jun 74	TN3, L B-G	232	156.0
104	Pumpkinseed	13 Jun 74	TN3, L B-G	159	76.1
105	Largemouth bass	13 Jun 74	TN3, L B-G	274	340.0
106	Pumpkinseed	13 Jun 74	TN3, L B-G	159	84.9
107	Pumpkinseed	13 Jun 74	TN3, L B-G	161	88.1
108	Pumpkinseed	13 Jun 74	TN3, L B-G	160	80.0
109	Pumpkinseed	13 Jun 74	TN3, L B-G	111	27.2
111	Pumpkinseed	13 Jun 74	TN3, L B-G	124	36.6
112	Pumpkinseed	13 Jun 74	TN3, L B-G	113	27.7
113	Pumpkinseed	13 Jun 74	TN3, L B-G	112	26.4
114	Pumpkinseed	13 Jun 74	TN3, L B-G	115	28.3
126	Walleye	26 Jun 74	TN FAP-10	412	622
130	Pumpkinseed	26 Jun 74	TN3, L B-G	110	20.8
131	Pumpkinseed	26 Jun 74	TN3, L B-G	115	28.5
138	Pumpkinseed	12 Jul 74	TN2, U B-G	125	28
139	Yellow perch	12 Jul 74	TN2, U B-G	170	56
140	Chain pickerel	11 Jul 74	GN1, L B-G	302	112
141	Redbreast sunfish	12 Jul 74	TN2, U B-G	142	28
142	Pumpkinseed	12 Jul 74	TN2, U B-G	132	28
146	Pumpkinseed	30 Jul 74	TN4, L B-G	125	32.7
147	Yellow perch	30 Jul 74	TN4, L B-G	159	43.2
148	Pumpkinseed	30 Jul 74	TN4, L B-G	155	67.3
149	Pumpkinseed	30 Jul 74	opp. GN3, L B-G	133	44.2
150	Pumpkinseed	30 Jul 74	opp. GN3, L B-G	126	31.3
151	Yellow perch	30 Jul 74	opp. GN3, L B-G	169	56.1
152	Rock bass	30 Jul 74	opp. GN3, L B-G	170	95.4
153	Pumpkinseed	30 Jul 74	opp. GN3, L B-G	126	37.3
154	Rock bass	30 Jul 74	opp. GN3, L B-G	141	53.7
155	Pumpkinseed	30 Jul 74	opp. GN3, L B-G	125	33.0
156	Largemouth bass	31 Jul 74	TN4, L B-G	225	133.7
157	Pumpkinseed	31 Jul 74	TN4, L B-G	125	38.5
158	Pumpkinseed	31 Jul 74	TN4, L B-G	160	74.4
159	Pumpkinseed	31 Jul 74	TN4, L B-G	127	57.7
160	Pumpkinseed	31 Jul 74	TN4, L B-G	162	65.1
161	Yellow perch	31 Jul 74	TN4, L B-G	146	42.1
162	Rock bass	31 Jul 74	Mine Kill Cove	230	288.1
163	Rock bass	31 Jul 74	Mine Kill Cove	143	52.7
164	Rock bass	31 Jul 74	Mine Kill Cove	215	187.7
165	Rock bass	31 Jul 74	Mine Kill Cove	175	106.0
166	Yellow perch	31 Jul 74	GN3, L B-G	186	70.0
167	Rock bass	31 Jul 74	Mine Kill Cove	133	46.7
168	Rock bass	31 Jul 74	Mine Kill Cove	146	55.8
170	Pumpkinseed	31 Jul 74	Mine Kill Cove	131	38.0
171	Yellow perch	2 Aug 74	TN3, U B-G	177	77.7
172	Pumpkinseed	2 Aug 74	TN3, U B-G	142	56.6
173	Walleye	2 Aug 74	Boat Ramp, L B-G	252	111.2

Appendix 1 - (Continued).

Tag Number	Species	Date	Location	Length (mm)	Weight (g)
174	Pumpkinseed	2 Aug 74	Boat Ramp, L B-G	152	73.8
180	Pumpkinseed	21 Jun 74	GN2, L B-G	125	33.4
181	Pumpkinseed	21 Jun 74	GN2, L B-G	122	36.6
182	Pumpkinseed	21 Jun 74	GN2, L B-G	124	36.4
183	Pumpkinseed	21 Jun 74	GN2, L B-G	122	34.1
184	Pumpkinseed	21 Jun 74	GN2, L B-G	123	36.2
185	Pumpkinseed	21 Jun 74	TN2, L B-G	157	84.9
186	Yellow perch	21 Jun 74	TN2, L B-G	207	98.8
187	Pumpkinseed	21 Jun 74	TN2, L B-G	135	45.7
188	Pumpkinseed	21 Jun 74	TN2, L B-G	122	31.0
189	Pumpkinseed	21 Jun 74	TN2, L B-G	120	27.9
190	Pumpkinseed	21 Jun 74	TN2, L B-G	122	29.7
191	Pumpkinseed	21 Jun 74	TN2, L B-G	117	26.4
192	Pumpkinseed	21 Jun 74	TN2, L B-G	116	25.3
193	Pumpkinseed	21 Jun 74	TN2, L B-G	115	24.2
194	Pumpkinseed	21 Jun 74	TN2, L B-G	115	23.2
195	Pumpkinseed	21 Jun 74	TN2, L B-G	107	19.4
196	Pumpkinseed	21 Jun 74	TN2, L B-G	110	21.4
197	Pumpkinseed	21 Jun 74	TN2, L B-G	110	21.3
198	Pumpkinseed	21 Jun 74	TN2, L B-G	108	19.2
209	Smallmouth bass	18 Aug 74	Mine Kill Cove	257	200
210	Largemouth bass	18 Aug 74	Mine Kill Cove	258	251.6
211	Rock bass	18 Aug 74	Mine Kill Cove	229	221.8
212	Rock bass	18 Aug 74	Mine Kill Cove	208	187.4
213	Rock bass	18 Aug 74	Mine Kill Cove	175	95.2
214	Rock bass	18 Aug 74	Mine Kill Cove	244	295.0
215	Rock bass	18 Aug 74	Mine Kill Cove	173	105.8
216	Rock bass	18 Aug 74	Mine Kill Cove	178	98.2
217	Smallmouth bass	18 Aug 74	Mine Kill Cove	287	213.0
218	Pumpkinseed	18 Aug 74	Mine Kill Cove	126	34.8
219	Pumpkinseed	18 Aug 74	Mine Kill Cove	127	43.8
220	Rock bass	18 Aug 74	Mine Kill Cove	169	72.4
221	Smallmouth bass	18 Aug 74	Mine Kill Cove	263	186.9
222	Largemouth bass	18 Aug 74	Mine Kill Cove	229	142.8
223	Rock bass	18 Aug 74	Mine Kill Cove	175	74.4
225	Pumpkinseed	18 Aug 74	Mine Kill Cove	135	52.0
226	Yellow perch	6 Aug 74	TN4, U B-G	178	78.9
227	Pumpkinseed	6 Aug 74	TN4, U B-G	130	41.4
228	Pumpkinseed	7 Aug 74	TN3, L B-G	148	63.9
229	Yellow perch	7 Aug 74	TN3, L B-G	190	76.6
230	Pumpkinseed	7 Aug 74	TN2, L B-G	129	34.4
231	Yellow perch	7 Aug 74	TN1, U B-G	170	64.2
232	Pumpkinseed	7 Aug 74	TN1, U B-G	142	52.7
233	Pumpkinseed	7 Aug 74	TN1, U B-G	130	47.8
234	Yellow perch	7 Aug 74	TN1, U B-G	194	86.9
235	Redbreast sunfish	7 Aug 74	TN1, U B-G	136	50.5
236	Pumpkinseed	7 Aug 74	TN1, U B-G	130	40.4
237	Pumpkinseed	7 Aug 74	TN1, U B-G	132	43.5
238	Pumpkinseed	7 Aug 74	TN1, U B-G	127	40.3
239	Redbreast sunfish	7 Aug 74	TN1, U B-G	145	70.7
240	Pumpkinseed	7 Aug 74	TN1, U B-G	152	75.2
241	Pumpkinseed	7 Aug 74	TN1, U B-G	157	79.6
242	Pumpkinseed	7 Aug 74	TN1, U B-G	130	39.5
243	Yellow perch	7 Aug 74	TN1, U B-G	158	49.1
244	Pumpkinseed	7 Aug 74	TN1, U B-G	155	79.8
245	Pumpkinseed	7 Aug 74	TN2, L B-G	138	50.0
246	Pumpkinseed	7 Aug 74	TN2, L B-G	143	56.9
247	Yellow perch	7 Aug 74	TN2, L B-G	180	82.1
248	Redbreast sunfish	7 Aug 74	TN2, L B-G	150	70.6
249	Pumpkinseed	7 Aug 74	TN2, L B-G	182	144.2
250	Yellow perch	7 Aug 74	TN2, L B-G	192	87.8
251	Yellow perch	8 Aug 74	TN4, U B-G	160	50.0
253	Yellow perch	8 Aug 74	TN4, U B-G	189	86.1
254	Yellow perch	8 Aug 74	TN4, U B-G	157	47.2
255	Yellow perch	8 Aug 74	TN4, U B-G	191	79.8
256	Yellow perch	8 Aug 74	TN4, U B-G	143	61.6
257	Yellow perch	8 Aug 74	TN4, U B-G	158	44.5
258	Yellow perch	8 Aug 74	TN4, U B-G	198	77.2
259	Redbreast sunfish	8 Aug 74	TN4, U B-G	129	40.3
260	Yellow perch	8 Aug 74	TN4, U B-G	178	67.5
261	Yellow perch	8 Aug 74	TN4, U B-G	176	81.7
262	Yellow perch	8 Aug 74	TN4, U B-G	137	26.9
263	Yellow perch	8 Aug 74	TN4, U B-G	143	35.9
264	Pumpkinseed	8 Aug 74	TN4, U B-G	126	39.6
265	Pumpkinseed	8 Aug 74	TN4, U B-G	130	44.4
266	Pumpkinseed	8 Aug 74	TN4, U B-G	133	44.8

Appendix 1 - (Continued).

Tag Number	Species	Date	Location	Length (mm)	Weight (g)
267	Yellow perch	8 Aug 74	TN4, U B-G	210	105.2
268	Yellow perch	8 Aug 74	TN4, U B-G	185	87.7
269	Yellow perch	8 Aug 74	TN4, U B-G	186	82.5
270	Pumpkinseed	8 Aug 74	TN4, U B-G	126	38.1
271	Pumpkinseed	8 Aug 74	TN4, U B-G	129	41.6
272	Yellow perch	8 Aug 74	TN4, U B-G	182	67.9
273	Yellow perch	8 Aug 74	TN4, U B-G	178	65.8
275	Yellow perch	8 Aug 74	TN6, U B-G	229	82.3
276	Yellow perch	8 Aug 74	TN4, U B-G	187	79.5
279	Yellow perch	8 Aug 74	TN4, U B-G	186	79.9
280	Yellow perch	8 Aug 74	TN4, U B-G	175	65.0
281	Yellow perch	8 Aug 74	TN6, U B-G	169	58.8
282	Yellow perch	8 Aug 74	TN6, U B-G	169	57.7
283	Pumpkinseed	8 Aug 74	TN6, U B-G	133	48.9
284	Redbreast sunfish	8 Aug 74	TN4, U B-G	131	42.2
285	Yellow perch	8 Aug 74	TN6, U B-G	166	62.0
286	Pumpkinseed	8 Aug 74	TN6, U B-G	134	49.9
287	Redbreast sunfish	8 Aug 74	TN4, U B-G	127	45.6
288	Yellow perch	8 Aug 74	TN6, U B-G	187	80.2
289	Redbreast sunfish	8 Aug 74	TN4, U B-G	154	74.0
290	Yellow perch	8 Aug 74	TN6, U B-G	195	85.7
291	Redbreast sunfish	8 Aug 74	TN4, U B-G	126	47.9
292	Yellow perch	8 Aug 74	TN6, U B-G	171	61.5
293	Yellow perch	8 Aug 74	TN6, U B-G	165	60.9
294	Yellow perch	8 Aug 74	TN6, U B-G	169	75.9
295	Yellow perch	8 Aug 74	TN6, U B-G	165	55.8
296	Pumpkinseed	8 Aug 74	TN6, U B-G	133	45.3
297	Yellow perch	8 Aug 74	TN6, U B-G	162	52.5
298	Yellow perch	8 Aug 74	TN6, U B-G	182	74.1
299	Yellow perch	8 Aug 74	TN6, U B-G	175	64.7
301	Pumpkinseed	18 Aug 74	Mine Kill Cove	151	70.0
302	Pumpkinseed	18 Aug 74	Mine Kill Cove	127	41.3
303	Pumpkinseed	18 Aug 74	Mine Kill Cove	128	35.3
304	Pumpkinseed	18 Aug 74	Mine Kill Cove	138	48.5
305	Rock bass	18 Aug 74	Mine Kill Cove	140	51.1
306	Yellow perch	18 Aug 74	Mine Kill Cove	175	54.7
307	Rock bass	18 Aug 74	Mine Kill Cove	180	100.6
308	Pumpkinseed	18 Aug 74	Mine Kill Cove	137	41.4
309	Pumpkinseed	18 Aug 74	Mine Kill Cove	146	56.0
310	Pumpkinseed	18 Aug 74	Mine Kill Cove	125	33.5
311	Pumpkinseed	18 Aug 74	Mine Kill Cove	126	36.9
312	Smallmouth bass	18 Aug 74	Mine Kill Cove	146	33.7
313	Pumpkinseed	18 Aug 74	Mine Kill Cove	125	33.4
314	Pumpkinseed	18 Aug 74	Mine Kill Cove	129	39.9
315	Pumpkinseed	18 Aug 74	Mine Kill Cove	126	36.1
316	Pumpkinseed	18 Aug 74	Mine Kill Cove	127	39.8
317	Rock bass	18 Aug 74	Mine Kill Cove	144	53.8
318	Rock bass	18 Aug 74	Mine Kill Cove	172	92.7
319	Smallmouth bass	18 Aug 74	Mine Kill Cove	181	63.8
320	Walleye	21 Aug 74	opp. GN3, L B-G	245	96.2
321	Pumpkinseed	21 Aug 74	opp. GN3, L B-G	143	48.9
322	Pumpkinseed	21 Aug 74	opp. GN3, L B-G	134	40.8
323	Rock bass	21 Aug 74	opp. GN3, L B-G	177	105.7
324	Pumpkinseed	21 Aug 74	opp. GN3, L B-G	125	36.2
325	Pumpkinseed	5 Sep 74	TN2, U B-G	136	51.9
326	Yellow perch	11 Sep 74	TN1, U B-G	197	100.0
327	Pumpkinseed	11 Sep 74	TN1, U B-G	135	49.7
328	Pumpkinseed	11 Sep 74	TN1, U B-G	130	45.0
329	Pumpkinseed	22 Aug 74	TN, Boat Ramp	153	73.1
330	Pumpkinseed	22 Aug 74	TN, Boat Ramp	160	69.9
331	Pumpkinseed	22 Aug 74	TN, Boat Ramp	140	50.4
332	Pumpkinseed	22 Aug 74	TN, Boat Ramp	133	44.4
333	Pumpkinseed	22 Aug 74	TN, Boat Ramp	141	50.9
334	Pumpkinseed	22 Aug 74	TN, Boat Ramp	130	45.0
335	Rock bass	22 Aug 74	TN, Boat Ramp	163	64.9
336	Pumpkinseed	22 Aug 74	TN, Boat Ramp	126	33.6
337	Pumpkinseed	22 Aug 74	TN, Boat Ramp	132	43.6
338	Pumpkinseed	22 Aug 74	TN, Boat Ramp	130	38.4
339	Pumpkinseed	28 Aug 74	N. of Boat Ramp	132	43.0
340	Pumpkinseed	28 Aug 74	N. of Boat Ramp	133	45.5
341	Pumpkinseed	28 Aug 74	N. of Boat Ramp	128	37.5
342	Walleye	28 Aug 74	FAP-10	463	909
343	Rock bass	28 Aug 74	FAP-10	185	116.6
351	Yellow perch	12 Sep 74	TN2, U B-G	194	83.2
352	Pumpkinseed	12 Sep 74	TN2, U B-G	143	63.2
353	Pumpkinseed	12 Sep 74	TN2, U B-G	128	43.2

Appendix 1 - (Continued).

Tag Number	Species	Date	Location	Length (mm)	Weight (g)
354	Pumpkinseed	12 Sep 74	TN2, U B-G	150	68.6
355	Pumpkinseed	12 Sep 74	TN2, U B-G	130	47.4
356	Pumpkinseed	12 Sep 74	TN2, U B-G	130	45.1
357	Pumpkinseed	12 Sep 74	TN2, U B-G	135	49.1
358	Pumpkinseed	12 Sep 74	TN2, U B-G	130	43.1
359	Pumpkinseed	12 Sep 74	TN2, U B-G	125	41.5
360	Pumpkinseed	12 Sep 74	TN2, U B-G	126	38.3
361	Pumpkinseed	12 Sep 74	TN2, U B-G	126	39.2
362	Pumpkinseed	12 Sep 74	TN2, U B-G	142	50.6
363	Pumpkinseed	5 Sep 74	TN3, L B-G	127	44.4
364	Pumpkinseed	5 Sep 74	TN3, L B-G	127	36.1
365	Pumpkinseed	5 Sep 74	TN3, L B-G	132	45.0
366	Pumpkinseed	5 Sep 74	TN3, L B-G	135	46.4
367	Walleye	5 Sep 74	TN3, L B-G	267	138.5
368	Redbreast sunfish	11 Sep 74	TN1, U B-G	149	74.0
369	Pumpkinseed	11 Sep 74	TN1, U B-G	165	94.0
370	Pumpkinseed	11 Sep 74	TN1, U B-G	160	85.0
371	Pumpkinseed	11 Sep 74	TN1, U B-G	146	71.3
373	Pumpkinseed	11 Sep 74	TN1, U B-G	138	51.3
374	Pumpkinseed	11 Sep 74	TN1, U B-G	147	66.6
375	Redbreast sunfish	11 Sep 74	TN1, U B-G	157	81.5
376	Pumpkinseed	11 Sep 74	TN1, U B-G	140	55.7
377	Pumpkinseed	11 Sep 74	TN1, U B-G	132	45.3
378	Pumpkinseed	11 Sep 74	TN1, U B-G	130	46.3
379	Redbreast sunfish	11 Sep 74	TN1, U B-G	129	49.9
381	Redbreast sunfish	11 Sep 74	TN1, U B-G	156	84.5
382	Pumpkinseed	11 Sep 74	TN1, U B-G	151	62.5
383	Pumpkinseed	11 Sep 74	TN1, U B-G	137	54.3
385	Yellow perch	11 Sep 74	TN1, U B-G	182	72.1
386	Pumpkinseed	11 Sep 74	TN1, U B-G	134	51.5
387	Pumpkinseed	11 Sep 74	TN1, U B-G	138	56.5
388	Pumpkinseed	11 Sep 74	TN1, U B-G	145	58.5
389	Pumpkinseed	11 Sep 74	TN1, U B-G	136	50.0
390	Pumpkinseed	11 Sep 74	TN1, U B-G	131	46.7
391	Pumpkinseed	11 Sep 74	TN1, U B-G	138	55.3
392	Pumpkinseed	11 Sep 74	TN1, U B-G	160	89.3
393	Pumpkinseed	11 Sep 74	TN1, U B-G	131	49.3
394	Pumpkinseed	11 Sep 74	TN1, U B-G	136	51.5
395	Pumpkinseed	11 Sep 74	TN1, U B-G	140	54.3
396	Pumpkinseed	11 Sep 74	TN1, U B-G	134	48.7
397	Pumpkinseed	11 Sep 74	TN1, U B-G	144	56.1
398	Pumpkinseed	11 Sep 74	TN1, U B-G	145	57.5
399	Pumpkinseed	11 Sep 74	TN1, U B-G	133	44.0
400	Pumpkinseed	11 Sep 74	TN1, U B-G	155	73.0
401	Pumpkinseed	5 Sep 74	TN2, U B-G	130	43.5
402	Pumpkinseed	5 Sep 74	TN2, U B-G	129	42.8
403	Pumpkinseed	5 Sep 74	TN2, U B-G	132	39.8
404	Pumpkinseed	5 Sep 74	TN2, U B-G	130	42.0
405	Redbreast sunfish	6 Sep 74	TN3, U B-G	148	62.7
406	Pumpkinseed	6 Sep 74	TN3, U B-G	143	59.1
407	Pumpkinseed	6 Sep 74	TN3, U B-G	147	64.0
408	Pumpkinseed	6 Sep 74	TN3, U B-G	139	46.4
410	Pumpkinseed	11 Sep 74	TN2, U B-G	155	70.5
411	Pumpkinseed	11 Sep 74	TN2, U B-G	162	72.0
412	Pumpkinseed	11 Sep 74	TN3, U B-G	132	46.4
413	Pumpkinseed	11 Sep 74	TN1, U B-G	163	90.5
414	Pumpkinseed	11 Sep 74	TN1, U B-G	151	72.0
415	Pumpkinseed	11 Sep 74	TN1, U B-G	141	51.5
416	Pumpkinseed	11 Sep 74	TN1, U B-G	146	59.5
417	Pumpkinseed	11 Sep 74	TN1, U B-G	128	37.3
418	Pumpkinseed	11 Sep 74	TN2, U B-G	137	44.0
419	Pumpkinseed	11 Sep 74	TN2, U B-G	128	34.0
420	Pumpkinseed	11 Sep 74	TN2, U B-G	134	45.0
421	Pumpkinseed	11 Sep 74	TN2, U B-G	137	43.5
422	Pumpkinseed	11 Sep 74	TN2, U B-G	130	34.5
423	Pumpkinseed	11 Sep 74	TN2, U B-G	131	47.5
424	Pumpkinseed	11 Sep 74	TN2, U B-G	145	55.0
425	Pumpkinseed	11 Sep 74	TN2, U B-G	141	45.0
426	Pumpkinseed	11 Sep 74	TN2, U B-G	157	74.5
427	Pumpkinseed	5 Sep 74	TN2, U B-G	169	95.0
428	Pumpkinseed	11 Sep 74	TN2, U B-G	162	78.5
429	Pumpkinseed	11 Sep 74	TN2, U B-G	138	43.5
430	Pumpkinseed	11 Sep 74	TN2, U B-G	163	78.5
431	Pumpkinseed	11 Sep 74	TN2, U B-G	146	55.5
432	Yellow perch	11 Sep 74	TN2, U B-G	200	87.4
433	Pumpkinseed	11 Sep 74	TN2, U B-G	144	53.5

Appendix 1 - (Continued).

Tag Number	Species	Date	Location	Length (mm)	Weight (g)
434	Redbreast sunfish	6 Sep 74	TN3, U B-G	157	73.2
435	Redbreast sunfish	6 Sep 74	TN3, U B-G	134	46.4
436	Pumpkinseed	6 Sep 74	TN3, U B-G	140	53.4
438	Redbreast sunfish	6 Sep 74	TN3, U B-G	139	58.2
439	Yellow perch	6 Sep 74	TN3, U B-G	187	76.9
440	Redbreast sunfish	6 Sep 74	TN3, U B-G	155	74.3
441	Yellow perch	6 Sep 74	TN3, U B-G	193	84.1
442	Yellow perch	6 Sep 74	TN3, U B-G	191	84.0
443	Yellow perch	6 Sep 74	TN3, U B-G	197	85.7
444	Redbreast sunfish	6 Sep 74	TN3, U B-G	139	50.6
445	Yellow perch	6 Sep 74	TN3, U B-G	188	74.5
446	Redbreast sunfish	6 Sep 74	TN3, U B-G	125	37.6
447	Yellow perch	6 Sep 74	TN3, U B-G	193	89.0
448	Yellow perch	6 Sep 74	TN3, U B-G	179	65.6
449	Yellow perch	6 Sep 74	TN3, U B-G	167	52.9
450	Redbreast sunfish	6 Sep 74	TN3, U B-G	152	66.0
451	Pumpkinseed	12 Sep 74	TN1, U B-G	136	56.9
452	Pumpkinseed	12 Sep 74	TN1, U B-G	133	48.5
453	Pumpkinseed	12 Sep 74	TN1, U B-G	136	53.4
454	Pumpkinseed	12 Sep 74	TN1, U B-G	130	45.5
455	Pumpkinseed	12 Sep 74	TN1, U B-G	130	52.0
456	Pumpkinseed	12 Sep 74	TN1, U B-G	137	53.2
457	Pumpkinseed	12 Sep 74	TN1, U B-G	126	43.2
458	Pumpkinseed	12 Sep 74	TN1, U B-G	140	61.6
459	Yellow perch	12 Sep 74	TN1, U B-G	198	97.6
460	Pumpkinseed	12 Sep 74	TN1, U B-G	134	45.1
461	Pumpkinseed	12 Sep 74	TN1, U B-G	138	54.5
462	Pumpkinseed	12 Sep 74	TN1, U B-G	128	45.5
463	Yellow perch	12 Sep 74	TN1, U B-G	187	87.5
464	Redbreast sunfish	12 Sep 74	TN2, U B-G	155	85.0
465	Pumpkinseed	12 Sep 74	TN1, U B-G	136	53.2
466	Pumpkinseed	12 Sep 74	TN1, U B-G	127	46.2
467	Pumpkinseed	12 Sep 74	TN1, U B-G	151	65.8
468	Pumpkinseed	12 Sep 74	TN1, U B-G	146	66.5
469	Pumpkinseed	12 Sep 74	TN1, U B-G	125	43.0
470	Yellow perch	12 Sep 74	TN1, U B-G	202	113.3
471	Redbreast sunfish	12 Sep 74	TN2, U B-G	148	65.6
472	Redbreast sunfish	12 Sep 74	TN2, U B-G	151	76.3
473	Pumpkinseed	5 Sep 74	TN2, U B-G	153	69.9
474	Pumpkinseed	12 Sep 74	TN2, U B-G	129	42.3
475	Pumpkinseed	5 Sep 74	TN2, U B-G	133	46.4
476	Redbreast sunfish	12 Sep 74	TN2, U B-G	155	82.0
477	Pumpkinseed	12 Sep 74	TN2, U B-G	140	52.6
478	Pumpkinseed	12 Sep 74	TN2, U B-G	141	57.3
479	Yellow perch	12 Sep 74	TN2, U B-G	215	120.1
480	Yellow perch	12 Sep 74	TN2, U B-G	181	74.5
481	Yellow perch	12 Sep 74	TN1, U B-G	200	93.8
482	Pumpkinseed	12 Sep 74	TN1, U B-G	137	56.7
483	Yellow perch	12 Sep 74	TN1, U B-G	203	98.5
484	Yellow perch	12 Sep 74	TN1, U B-G	484	102.0
485	Pumpkinseed	12 Sep 74	TN1, U B-G	152	78.0
486	Pumpkinseed	12 Sep 74	TN1, U B-G	127	43.2
487	Pumpkinseed	12 Sep 74	TN1, U B-G	133	45.6
488	Pumpkinseed	12 Sep 74	TN1, U B-G	145	62.8
489	Pumpkinseed	12 Sep 74	TN2, U B-G	134	42.3
490	Pumpkinseed	12 Sep 74	TN1, U B-G	146	64.0
491	Pumpkinseed	12 Sep 74	TN1, U B-G	138	55.8
492	Pumpkinseed	12 Sep 74	TN1, U B-G	148	64.2
493	Pumpkinseed	12 Sep 74	TN1, U B-G	166	91.2
494	Pumpkinseed	12 Sep 74	TN1, U B-G	125	41.4
495	Pumpkinseed	12 Sep 74	TN1, U B-G	144	62.5
496	Pumpkinseed	12 Sep 74	TN1, U B-G	126	42.5
497	Pumpkinseed	12 Sep 74	TN1, U B-G	127	44.2
498	Pumpkinseed	12 Sep 74	TN1, U B-G	130	38.2
499	Redbreast sunfish	12 Sep 74	TN2, U B-G	166	108.6
500	Pumpkinseed	12 Sep 74	TN1, U B-G	146	66.6
	Number of Fish Tagged in 1974		441		
	Number of Fishes		8		
344	Yellow perch	29 Jun 75	GN1, U B-G	195	90.0
345	Yellow perch	29 Jun 75	GN1, U B-G	210	114
346	Yellow perch	29 Jun 75	GN1, U B-G	200	96
501	Yellow perch	11 Jul 75	TN3, U B-G	198	88
502	Yellow perch	11 Jul 75	TN3, U B-G	132	26
503	Yellow perch	11 Jul 75	TN3, U B-G	162	46

Appendix 1 - (Continued).

Tag Number	Species	Date	Location	Length (mm)	Weight (g)
504	Yellow perch	11 Jul 75	TN3, U B-G	143	53
505	Yellow perch	11 Jul 75	TN3, U B-G	135	28
506	Redbreast sunfish	11 Jul 75	TN3, U B-G	141	58
507	Pumpkinseed	11 Jul 75	TN3, U B-G	142	52
508	Redbreast sunfish	11 Jul 75	TN3, U B-G	144	46
509	Redbreast sunfish	11 Jul 75	TN3, U B-G	148	69
510	Pumpkinseed	15 Jul 75	GN6, U B-G	139	46
511	Pumpkinseed	15 Jul 75	GN6, U B-G	130	40
512	Pumpkinseed	15 Jul 75	GN6, U B-G	125	36
513	Pumpkinseed	15 Jul 75	GN6, U B-G	127	42
514	Pumpkinseed	15 Jul 75	GN6, U B-G	126	39
515	Pumpkinseed	15 Jul 75	GN6, U B-G	139	48
516	Pumpkinseed	15 Jul 75	GN6, U B-G	134	47
517	Pumpkinseed	15 Jul 75	GN6, U B-G	127	44
518	Pumpkinseed	15 Jul 75	GN6, U B-G	127	42
519	Pumpkinseed	15 Jul 75	GN6, U B-G	129	42
521	Redbreast sunfish	15 Jul 75	GN5, U B-G	145	53
522	Redbreast sunfish	15 Jul 75	GN5, U B-G	141	56
524	Pumpkinseed	15 Jul 75	L B-G (DEC)	130	41
525	Yellow perch	15 Jul 75	GN4, U B-G	203	91
526	Yellow perch	29 Jun 75	GN2, U B-G	208	102
528	Pumpkinseed	15 Jul 75	GN4, U B-G	126	40
529	Pumpkinseed	15 Jul 75	TN1, L B-G	165	96
530	Pumpkinseed	15 Jul 75	TN1, L B-G	135	55
531	Pumpkinseed	15 Jul 75	TN1, L B-G	141	57
532	Pumpkinseed	15 Jul 75	TN1, L B-G	142	55
533	Pumpkinseed	15 Jul 75	TN1, L B-G	130	48
534	Pumpkinseed	15 Jul 75	TN1, L B-G	129	40
535	Pumpkinseed	15 Jul 75	TN1, L B-G	134	43
536	Pumpkinseed	15 Jul 75	TN1, L B-G	138	44
537	Pumpkinseed	15 Jul 75	TN1, L B-G	136	47
538	Pumpkinseed	15 Jul 75	TN1, L B-G	142	56
539	Pumpkinseed	15 Jul 75	TN1, L B-G	138	53
540	Walleye	15 Jul 75	TN2, L B-G	262	126
541	Rock bass	15 Jul 75	TN2, L B-G	172	95
542	Pumpkinseed	15 Jul 75	TN2, L B-G	129	38
543	Pumpkinseed	15 Jul 75	TN2, L B-G	130	44
544	Pumpkinseed	15 Jul 75	TN2, L B-G	139	50
545	Yellow perch	15 Jul 75	TN2, L B-G	191	80
546	Yellow perch	15 Jul 75	TN2, L B-G	184	62
547	Yellow perch	15 Jul 75	TN2, L B-G	127	22
548	Yellow perch	15 Jul 75	TN2, L B-G	130	24
549	Rock bass	15 Jul 75	TN2, L B-G	129	42
551	Yellow perch	29 Jun 75	GN2, U B-G	203	90
552	Yellow perch	9 Jul 75	TN4, U B-G	215	114
553	Yellow perch	9 Jul 75	TN4, U B-G	211	102
554	Yellow perch	9 Jul 75	TN4, U B-G	206	107
555	Yellow perch	9 Jul 75	TN4, U B-G	200	85
556	Yellow perch	9 Jul 75	TN4, U B-G	198	84
557	Yellow perch	9 Jul 75	TN4, U B-G	128	23
558	Yellow perch	9 Jul 75	TN4, U B-G	126	25
559	Yellow perch	9 Jul 75	TN4, U B-G	131	26
560	Yellow perch	9 Jul 75	TN4, U B-G	135	28
561	Yellow perch	9 Jul 75	TN4, U B-G	128	27
562	Yellow perch	9 Jul 75	TN4, U B-G	141	37
563	Pumpkinseed	9 Jul 75	TN4, U B-G	132	46
564	Redbreast sunfish	9 Jul 75	TN4, U B-G	136	46
567	Pumpkinseed	9 Jul 75	GN10, L B-G	136	43
568	Pumpkinseed	11 Jul 75	GN7, L B-G	130	43
569	Yellow perch	11 Jul 75	TN3, U B-G	229	125
570	Yellow perch	11 Jul 75	TN3, U B-G	215	106
571	Yellow perch	11 Jul 75	TN3, U B-G	220	126
572	Yellow perch	11 Jul 75	TN3, U B-G	210	104
573	Yellow perch	11 Jul 75	TN3, U B-G	193	78
574	Yellow perch	11 Jul 75	TN3, U B-G	207	84
575	Yellow perch	11 Jul 75	TN3, U B-G	196	64
576	Yellow perch	11 Jul 75	TN3, U B-G	206	90
577	Yellow perch	11 Jul 75	TN3, U B-G	210	94
578	Yellow perch	11 Jul 75	TN3, U B-G	213	98
579	Yellow perch	11 Jul 75	TN3, U B-G	180	66
580	Yellow perch	11 Jul 75	TN3, U B-G	217	132
581	Yellow perch	11 Jul 75	TN3, U B-G	210	102
582	Yellow perch	11 Jul 75	TN3, U B-G	193	68
583	Yellow perch	11 Jul 75	TN3, U B-G	172	46
584	Yellow perch	11 Jul 75	TN3, U B-G	210	90
585	Yellow perch	11 Jul 75	TN3, U B-G	190	62

Appendix 1 - (Continued).

Tag Number	Species	Date	Location	Length (mm)	Weight (g)
586	Yellow perch	11 Jul 75	TN3, U B-G	175	50
587	Yellow perch	11 Jul 75	TN3, U B-G	187	70
588	Yellow perch	11 Jul 75	TN3, U B-G	190	68
589	Yellow perch	11 Jul 75	TN3, U B-G	171	60
590	Yellow perch	11 Jul 75	TN3, U B-G	200	90
591	Yellow perch	11 Jul 75	TN3, U B-G	175	44
592	Yellow perch	11 Jul 75	TN3, U B-G	199	80
593	Yellow perch	11 Jul 75	TN3, U B-G	138	22
594	Yellow perch	11 Jul 75	TN3, U B-G	135	24
595	Yellow perch	11 Jul 75	TN3, U B-G	160	42
596	Yellow perch	11 Jul 75	TN3, U B-G	166	40
597	Yellow perch	11 Jul 75	TN3, U B-G	168	48
598	Yellow perch	11 Jul 75	TN3, U B-G	198	80
599	Yellow perch	11 Jul 75	TN3, U B-G	198	87
600	Yellow perch	11 Jul 75	TN3, U B-G	203	84
601	Yellow perch	16 Jul 75	GN2, U B-G	203	102
602	Yellow perch	16 Jul 75	GN2, U B-G	214	107
603	Yellow perch	16 Jul 75	GN2, U B-G	192	89
604	Yellow perch	16 Jul 75	GN2, U B-G	196	89
605	Walleye	16 Jul 75	GN3, U B-G	252	136
606	Pumpkinseed	16 Jul 75	GN3, U B-G	133	42
607	Pumpkinseed	16 Jul 75	GN3, L B-G	135	42
608	Pumpkinseed	16 Jul 75	GN3, L B-G	127	39
609	Pumpkinseed	16 Jul 75	GN3, L B-G	128	39
610	Yellow perch	17 Jul 75	TN3, U B-G	206	80
611	Yellow perch	17 Jul 75	TN3, U B-G	130	20
612	Yellow perch	17 Jul 75	TN3, U B-G	192	68
613	Yellow perch	17 Jul 75	TN3, U B-G	209	95
614	Yellow perch	17 Jul 75	TN3, U B-G	207	87
615	Yellow perch	17 Jul 75	TN3, U B-G	205	98
616	Yellow perch	17 Jul 75	TN3, U B-G	129	21
617	Redbreast sunfish	17 Jul 75	TN3, U B-G	148	61
618	Redbreast sunfish	17 Jul 75	TN3, U B-G	145	57
619	Redbreast sunfish	17 Jul 75	TN3, U B-G	127	36
620	Redbreast sunfish	17 Jul 75	TN3, U B-G	141	49
621	Redbreast sunfish	17 Jul 75	TN3, U B-G	152	66
622	Redbreast sunfish	17 Jul 75	TN3, U B-G	135	39
623	Rock bass	17 Jul 75	TN3, U B-G	141	46
624	Pumpkinseed	17 Jul 75	TN3, U B-G	138	40
626	Pumpkinseed	17 Jul 75	TN3, U B-G	127	33
627	Pumpkinseed	17 Jul 75	TN3, U B-G	148	60
628	Pumpkinseed	17 Jul 75	TN3, U B-G	133	40
629	Pumpkinseed	17 Jul 75	GN1, U B-G	128	36
630	Yellow perch	19 Aug 75	GN9, L B-G	197	86
638	Pumpkinseed	20 Aug 75	GN4, L B-G	138	46
639	Pumpkinseed	20 Aug 75	GN4, L B-G	127	40
640	Pumpkinseed	20 Aug 75	GN4, L B-G	132	42
641	Pumpkinseed	21 Aug 75	GN1, L B-G	129	36
642	Pumpkinseed	21 Aug 75	GN6, U B-G	133	30
643	Pumpkinseed	21 Aug 75	GN6, U B-G	130	32
644	Pumpkinseed	21 Aug 75	GN6, U B-G	139	36
645	Redbreast sunfish	21 Aug 75	GN6, U B-G	137	33
646	Pumpkinseed	21 Aug 75	GN5, U B-G	180	118
647	Redbreast sunfish	21 Aug 75	GN5, U B-G	138	48
648	Walleye	15 Jul 75	L B-G (DEC)	331	284
649	Walleye	15 Jul 75	L B-G (DEC)	372	410
650	Rock bass	15 Jul 75	L B-G (DEC)	161	78
651	Pumpkinseed	15 Jul 75	L B-G (DEC)	130	39
652	Pumpkinseed	15 Jul 75	L B-G (DEC)	165	82
653	Pumpkinseed	15 Jul 75	L B-G (DEC)	139	51
654	Pumpkinseed	15 Jul 75	L B-G (DEC)	156	76
656	Pumpkinseed	15 Jul 75	L B-G (DEC)	153	81
657	Pumpkinseed	15 Jul 75	L B-G (DEC)	160	80
658	Rock bass	15 Jul 75	L B-G (DEC)	193	146
659	Pumpkinseed	15 Jul 75	L B-G (DEC)	149	67
660	Pumpkinseed	15 Jul 75	L B-G (DEC)	142	56
661	Pumpkinseed	15 Jul 75	L B-G (DEC)	137	48
662	Pumpkinseed	15 Jul 75	L B-G (DEC)	141	55
663	Yellow perch	15 Jul 75	L B-G (DEC)	184	75
664	Yellow perch	15 Jul 75	L B-G (DEC)	185	67
665	Yellow perch	15 Jul 75	L B-G (DEC)	177	64
666	Yellow perch	15 Jul 75	L B-G (DEC)	186	unknown
667	Pumpkinseed	15 Jul 75	L B-G (DEC)	136	51
668	Pumpkinseed	15 Jul 75	L B-G (DEC)	139	49
669	Pumpkinseed	15 Jul 75	L B-G (DEC)	134	45

Appendix 1 - (Continued).

Tag Number	Species	Date	Location	Length (mm)	Weight (g)
670	Pumpkinseed	15 Jul 75	L B-G (DEC)	131	45
671	Yellow perch	15 Jul 75	L B-G (DEC)	136	31
672	Pumpkinseed	15 Jul 75	L B-G (DEC)	134	50
673	Pumpkinseed	15 Jul 75	L B-G (DEC)	134	46
674	Pumpkinseed	15 Jul 75	L B-G (DEC)	136	56
675	Pumpkinseed	15 Jul 75	L B-G (DEC)	128	48
676	Pumpkinseed	15 Jul 75	L B-G (DEC)	145	62
677	Pumpkinseed	15 Jul 75	L B-G (DEC)	134	43
678	Pumpkinseed	15 Jul 75	L B-G (DEC)	154	62
679	Pumpkinseed	15 Jul 75	L B-G (DEC)	147	54
680	Pumpkinseed	15 Jul 75	L B-G (DEC)	141	66
681	Pumpkinseed	15 Jul 75	L B-G (DEC)	134	52
682	Pumpkinseed	15 Jul 75	L B-G (DEC)	139	54
683	Pumpkinseed	15 Jul 75	L B-G (DEC)	143	60
684	Pumpkinseed	15 Jul 75	L B-G (DEC)	135	48
685	Pumpkinseed	15 Jul 75	L B-G (DEC)	128	42
686	Pumpkinseed	15 Jul 75	L B-G (DEC)	143	58
687	Pumpkinseed	15 Jul 75	L B-G (DEC)	140	59
688	Pumpkinseed	15 Jul 75	L B-G (DEC)	131	38
689	Yellow perch	15 Jul 75	L B-G (DEC)	139	31
690	Pumpkinseed	16 Jul 75	TN1, U B-G	152	65
691	Redbreast sunfish	16 Jul 75	TN1, U B-G	128	40
692	Redbreast sunfish	16 Jul 75	TN1, U B-G	127	42
693	Yellow perch	16 Jul 75	GN1, U B-G	195	82
694	Yellow perch	16 Jul 75	GN1, U B-G	190	75
695	Yellow perch	16 Jul 75	GN1, U B-G	192	84
696	Redbreast sunfish	16 Jul 75	GN1, U B-G	135	48
697	Walleye	16 Jul 75	GN2, U B-G	388	600
698	Yellow perch	16 Jul 75	GN2, U B-G	201	95
699	Pumpkinseed	16 Jul 75	GN2, U B-G	150	58
700	Pumpkinseed	16 Jul 75	GN2, U B-G	134	45
701	Smallmouth bass	17 Aug 75	Mine Kill Cove	355	646
702	Smallmouth bass	17 Aug 75	Mine Kill Cove	375	692
703	Smallmouth bass	17 Aug 75	Mine Kill Cove	257	228
706	Smallmouth bass	17 Aug 75	Mine Kill Cove	262	232
707	Smallmouth bass	17 Aug 75	Mine Kill Cove	196	95
708	Smallmouth bass	17 Aug 75	Mine Kill Cove	297	178
709	Smallmouth bass	17 Aug 75	Mine Kill Cove	257	212
710	Smallmouth bass	17 Aug 75	Mine Kill Cove	187	80
712	Smallmouth bass	17 Aug 75	Mine Kill Cove	176	69
713	Smallmouth bass	17 Aug 75	Mine Kill Cove	218	120
714	Pumpkinseed	17 Aug 75	Mine Kill Cove	152	75
715	Pumpkinseed	17 Aug 75	Mine Kill Cove	156	75
716	Smallmouth bass	17 Aug 75	Mine Kill Cove	320	374
717	Smallmouth bass	17 Aug 75	Mine Kill Cove	223	151
718	Largemouth bass	17 Aug 75	Mine Kill Cove	235	184
719	Smallmouth bass	17 Aug 75	Mine Kill Cove	203	102
720	Smallmouth bass	17 Aug 75	Mine Kill Cove	182	72
721	Pumpkinseed	17 Aug 75	Mine Kill Cove	147	67
722	Pumpkinseed	17 Aug 75	Mine Kill Cove	139	55
723	Pumpkinseed	17 Aug 75	Mine Kill Cove	140	55
724	Smallmouth bass	17 Aug 75	Mine Kill Cove	210	107
725	Smallmouth bass	17 Aug 75	Mine Kill Cove	214	118
726	Smallmouth bass	17 Aug 75	Mine Kill Cove	216	125
727	Smallmouth bass	17 Aug 75	Mine Kill Cove	207	108
728	Pumpkinseed	17 Aug 75	Mine Kill Cove	168	101
729	Pumpkinseed	17 Aug 75	Mine Kill Cove	157	88
730	Pumpkinseed	17 Aug 75	Mine Kill Cove	157	76
731	Pumpkinseed	17 Aug 75	Mine Kill Cove	158	85
732	Pumpkinseed	17 Aug 75	Mine Kill Cove	145	67
733	Pumpkinseed	17 Aug 75	Mine Kill Cove	144	62
734	Smallmouth bass	17 Aug 75	Mine Kill Cove	222	135
735	Brown trout	17 Aug 75	Mine Kill Cove	262	180
736	Smallmouth bass	17 Aug 75	Mine Kill Cove	236	156
737	Walleye	17 Aug 75	Mine Kill Cove	332	238
739	Smallmouth bass	17 Aug 75	Mine Kill Cove	208	100
740	Smallmouth bass	17 Aug 75	Mine Kill Cove	268	247
741	Smallmouth bass	17 Aug 75	Mine Kill Cove	261	220
742	Smallmouth bass	17 Aug 75	Mine Kill Cove	249	172
743	Smallmouth bass	17 Aug 75	Mine Kill Cove	211	124
744	Smallmouth bass	17 Aug 75	Mine Kill Cove	219	129
745	Smallmouth bass	17 Aug 75	Mine Kill Cove	196	92
746	Pumpkinseed	17 Aug 75	Mine Kill Cove	145	61
749	Rock bass	17 Aug 75	Mine Kill Cove	170	101
751	Yellow perch	22 Aug 75	GN1, U B-G	189	94

Appendix 1 - (Continued).

Tag Number	Species	Date	Locarion	Length (mm)	Weight (g)
752	Yellow perch	22 Aug 75	GN1, U B-G	196	92
753	Yellow perch	22 Aug 75	GN1, U B-G	191	79
754	Pumpkinseed	22 Aug 75	GN3, U B-G	137	40
755	Yellow perch	22 Aug 75	GN3, U B-G	199	90
756	Pumpkinseed	22 Aug 75	GN4, U B-G	152	64
757	Pumpkinseed	22 Aug 75	GN4, U B-G	136	55
758	Redbreast sunfish	22 Aug 75	GN4, U B-G	151	70
759	Pumpkinseed	22 Aug 75	TN3, U B-G	134	32
760	Pumpkinseed	22 Aug 75	TN3, U B-G	137	44
761	Pumpkinseed	22 Aug 75	TN3, U B-G	145	59
762	Pumpkinseed	22 Aug 75	TN3, U B-G	131	44
763	Pumpkinseed	22 Aug 75	TN3, U B-G	126	39
764	Pumpkinseed	22 Aug 75	TN3, U B-G	127	40
765	Pumpkinseed	22 Aug 75	TN3, U B-G	133	48
766	Pumpkinseed	22 Aug 75	TN3, U B-G	138	48
767	Yellow perch	22 Aug 75	TN3, U B-G	222	142
768	Yellow perch	22 Aug 75	TN3, U B-G	127	29
769	Yellow perch	22 Aug 75	TN3, U B-G	140	30
770	Yellow perch	22 Aug 75	TN3, U B-G	142	31
771	Yellow perch	22 Aug 75	TN3, U B-G	151	38
772	Yellow perch	22 Aug 75	TN3, U B-G	139	29
773	Yellow perch	22 Aug 75	TN3, U B-G	135	28
774	Redbreast sunfish	22 Aug 75	TN3, U B-G	157	80
775	Redbreast sunfish	22 Aug 75	TN3, U B-G	149	60
776	Pumpkinseed	17 Aug 75	Mine Kill Cove	129	95
777	Pumpkinseed	17 Aug 75	Mine Kill Cove	143	62
778	Pumpkinseed	17 Aug 75	Mine Kill Cove	151	71
779	Pumpkinseed	17 Aug 75	Mine Kill Cove	142	57
780	Pumpkinseed	17 Aug 75	Mine Kill Cove	141	61
781	Smallmouth bass	17 Aug 75	Mine Kill Cove	222	136
782	Smallmouth bass	17 Aug 75	Mine Kill Cove	213	117
783	Smallmouth bass	17 Aug 75	Mine Kill Cove	270	250
784	Pumpkinseed	17 Aug 75	Mine Kill Cove	146	69
785	Pumpkinseed	17 Aug 75	Mine Kill Cove	157	89
786	Pumpkinseed	17 Aug 75	Mine Kill Cove	157	77
787	Pumpkinseed	17 Aug 75	Mine Kill Cove	138	53
788	Pumpkinseed	17 Aug 75	Mine Kill Cove	153	76
789	Pumpkinseed	17 Aug 75	Mine Kill Cove	148	66
790	Smallmouth bass	17 Aug 75	Mine Kill Cove	251	179
791	Smallmouth bass	17 Aug 75	Mine Kill Cove	214	120
792	Pumpkinseed	17 Aug 75	Mine Kill Cove	150	71
793	Smallmouth bass	17 Aug 75	Mine Kill Cove	213	123
794	Smallmouth bass	17 Aug 75	Mine Kill Cove	248	184
795	Smallmouth bass	17 Aug 75	Mine Kill Cove	222	150
796	Smallmouth bass	17 Aug 75	Mine Kill Cove	212	128
797	Redbreast sunfish	22 Aug 75	TN3, U B-G	158	81
798	Pumpkinseed	22 Aug 75	TN3, U B-G	131	40
799	Pumpkinseed	22 Aug 75	TN3, U B-G	134	38
800	Pumpkinseed	22 Aug 75	TN3, U B-G	137	44
802	Rock bass	26 Aug 75	TN1, L B-G	140	42
803	Rock bass	26 Aug 75	TN2, L B-G	126	18
804	Pumpkinseed	27 Aug 75	SS3, L B-G	131	38
805	Walleye	12 Sep 75	TN2, L B-G	157	32
806	Yellow perch	12 Sep 75	TN1, L B-G	165	53
807	Pumpkinseed	15 Sep 75	GN4, L B-G	132	42
808	Pumpkinseed	15 Sep 75	GN4, L B-G	135	48
809	Pumpkinseed	15 Sep 75	GN4, L B-G	154	68
810	Rock bass	15 Sep 75	GN6, L B-G	147	55
811	Pumpkinseed	15 Sep 75	GN6, L B-G	133	45
812	Pumpkinseed	15 Sep 75	GN6, L B-G	143	54
813	Rock bass	15 Sep 75	GN6, L B-G	143	58
814	Chain pickerel	15 Sep 75	GN7, L B-G	422	700
815	Largemouth bass	15 Sep 75	GN5, L B-G	208	112
816	Pumpkinseed	15 Sep 75	GN5, L B-G	125	41
817	Pumpkinseed	15 Sep 75	GN5, L B-G	134	36
818	Pumpkinseed	15 Sep 75	GN5, L B-G	129	38
819,820	Pumpkinseed	16 Sep 75	TN2, U B-G	140	50
821	Yellow perch	16 Sep 75	GN4, L B-G	193	76
822	Walleye	23 Sep 75	GN6, U B-G	446	830
823	Pumpkinseed	23 Sep 75	GN6, U B-G	137	48
824	Walleye	23 Sep 75	GN5, U B-G	339	324
825	Walleye	24 Sep 75	GN6, U B-G	346	355
827	Pumpkinseed	23 Sep 75	GN5, U B-G	130	50
828	Pumpkinseed	23 Sep 75	GN7, U B-G	145	92
829	Pumpkinseed	23 Sep 75	GN5, U B-G	126	42

Appendix 1 - (Continued).

Tag Number	Species	Date	Location	Length (mm)	Weight (g)
830	Yellow perch	24 Sep 75	GN6, U B-G	225	120
831	Yellow perch	24 Sep 75	GN6, U B-G	225	140
832	Yellow perch	24 Sep 75	GN5, U B-G	225	140
834	Yellow perch	24 Sep 75	GN5, U B-G	200	88
835	Yellow perch	24 Sep 75	GN5, U B-G	214	120
836	Pumpkinseed	28 Sep 75	Block net, L B-G	143	50
837	Pumpkinseed	28 Sep 75	Block net, L B-G	141	55
838	Pumpkinseed	28 Sep 75	Block net, L B-G	176	124
839	Pumpkinseed	28 Sep 75	Block net, L B-G	163	85
840	Pumpkinseed	28 Sep 75	Block net, L B-G	153	58
841	Pumpkinseed	28 Sep 75	Block net, L B-G	142	52
842	Pumpkinseed	28 Sep 75	Block net, L B-G	142	51
843	Pumpkinseed	28 Sep 75	Block net, L B-G	155	65
844	Pumpkinseed	28 Sep 75	Block net, L B-G	145	58
845	Pumpkinseed	28 Sep 75	Block net, L B-G	154	74
846	Pumpkinseed	28 Sep 75	Block net, L B-G	144	58
847	Pumpkinseed	28 Sep 75	Block net, L B-G	166	90
848	Pumpkinseed	28 Sep 75	Block net, L B-G	155	70
849	Pumpkinseed	28 Sep 75	Block net, L B-G	133	47
850	Pumpkinseed	26 Sep 75	TN2, L B-G	143	60
851	Pumpkinseed	28 Sep 75	Block net, L B-G	155	72
852	Pumpkinseed	28 Sep 75	Block net, L B-G	135	37
853	Pumpkinseed	28 Sep 75	Block net, L B-G	125	33
854	Pumpkinseed	28 Sep 75	Block net, L B-G	149	57
855	Pumpkinseed	28 Sep 75	Block net, L B-G	142	48
856	Pumpkinseed	28 Sep 75	Block net, L B-G	141	50
857	Smallmouth bass	28 Sep 75	Block net, L B-G	223	156
858	Pumpkinseed	28 Sep 75	Block net, L B-G	146	63
859	Pumpkinseed	28 Sep 75	Block net, L B-G	155	72
860	Pumpkinseed	28 Sep 75	Block net, L B-G	149	60
861	Pumpkinseed	28 Sep 75	Block net, L B-G	141	50
862	Pumpkinseed	28 Sep 75	Block net, L B-G	159	80
863	Pumpkinseed	28 Sep 75	Block net, L B-G	158	73
864	Pumpkinseed	28 Sep 75	Block net, L B-G	140	51
865	Pumpkinseed	28 Sep 75	Block net, L B-G	155	71
866	Pumpkinseed	28 Sep 75	Block net, L B-G	155	67
867	Pumpkinseed	28 Sep 75	Block net, L B-G	146	52
868	Pumpkinseed	28 Sep 75	Block net, L B-G	148	61
869	Pumpkinseed	28 Sep 75	Block net, L B-G	133	40
870	Pumpkinseed	28 Sep 75	Block net, L B-G	126	31
871	Rock bass	28 Sep 75	Block net, L B-G	180	116
872	Pumpkinseed	28 Sep 75	Block net, L B-G	142	49
874	Rock bass	28 Sep 75	Block net, L B-G	152	70
875	Rock bass	28 Sep 75	Block net, L B-G	139	49
876	Largemouth bass	28 Sep 75	Block net, L B-G	167	60
877	Pumpkinseed	28 Sep 75	Block net, L B-G	138	46
878	Smallmouth bass	28 Sep 75	Block net, L B-G	222	140
879	Rock bass	28 Sep 75	Block net, L B-G	128	43
	Number of Fish Tagged in 1975		355		
	Number of Fishes		9		

Appendix 2. Specimens collected per m^3 of water by station and depth for 5-minute day ichthyoplankton tows in May 1975 in Lower and Upper B-G.

Location	Station	No. of Tows	Depth of Tow (m)	Total Volume (m^3)	Mean Volume (m^3)	S.D. Volume	Larvae/m^3 Yellow Perch	Walleye	Unidentified	Total
L B-G	1	3	1.5	457	152	64.6	-	-	0.0022 (1)*	0.0022 (1)
	1	3	4.6	440	147	66.0	-	-	-	-
	1	3	10.7	461	154	64.8	-	-	-	-
	2	3	1.5	435	145	46.5	-	-	-	-
	2	3	4.6	459	153	58.9	-	-	-	-
	3	3	1.5	509	170	57.5	0.0020 (1)	0.0020 (1)	-	0.0039 (2)
Total		18		2761	153	51.2	0.0004 (1)	0.0004 (1)	0.0004 (1)	0.0011 (3)
U B-G	5	3	1.5	332	111	1.5	-	-	-	-
	5	3	4.6	252	84	1.0	-	-	-	-
	5	3	10.7	329	110	23.5	0.0091 (3)	-	-	0.0091 (3)
	6	3	1.5	338	113	21.5	-	-	-	-
	6	3	4.6	281	94	6.5	-	-	-	-
	6	3	10.7	225	130	0.6	-		-	-
	7	3	1.5	327	109	11.0	0.0336 (11)	-	-	0.0336 (11)
	8	3	1.5	381	127	45.0	0.0184 (7)	-	-	0.0184 (7)
Total		24		2465	205	23.3	0.0085 (21)	-	-	0.0085 (21)

* Sample size in parentheses.

Appendix 3. Specimens collected per m^3 of water by station and depth for 5-minute night ichthyoplankton tows in May 1975 in Lower and Upper B-G.

Location	Station	No. of Tows	Depth of Tow (m)	Total Volume (m^3)	Mean Volume (m^3)	S.D. Volume	Larvae/m^3 Yellow Perch	Unidentified	Total
L B-G	1	3	1.5	495	165	76.3	-	-	-
	1	3	4.6	417	139	63.0	-	-	-
	1	3	10.7	441	147	66.1	0.0023 (1)*	-	0.0023 (1)
	2	3	1.5	481	160	54.6	-	-	-
	2	3	4.6	422	141	59.5	-	-	-
	3	3	1.5	430	143	52.5	-	-	-
Total		18		2686	149	48.1	0.0004 (1)	-	0.0004 (1)
U B-G	5	3	1.5	406	135	10.8	0.0090 (3)	-	0.0090 (3)
	5	3	4.6	431	144	60.7	0.0139 (6)	-	0.0139 (6)
	5	3	10.7	362	121	49.6	0.0442 (16)	-	0.0442 (16)
	6	3	1.5	466	155	67.9	0.0021 (1)	-	0.0021 (1)
	6	3	4.6	391	130	51.2	0.0128 (5)	-	0.0128 (5)
	6	3	10.7	395	75	63.1	0.0025 (1)	-	0.0025 (1)
	7	3	1.5	520	173	53.1	0.3269 (170)	0.0442 (23)	0.3712 (193)
	8	3	1.5	403	134	65.6	0.0645 (26)	-	0.0645 (26)
Total		24		3374	141	48.8	0.0676 (228)	0.0068 (23)	0.0744 (251)

* Sample size in parentheses.

Appendix 4. Specimens collected per m^3 of water by station and depth for 5-minute day ichthyoplankton tows in June 1975 in Lower and Upper B-G.

Location	Station	No. of Tows	Depth of Tow (m)	Total Volume (m^3)	Mean Volume (m^3)	S.D. Volume	Larvae/m^3		
							Yellow Perch	Sunfish spp.	Total
L B-G	1	5	1.5	357	71	7.5	-	-	-
	1	5	4.6	325	65	3.5	-	-	-
	1	5	10.7	290	58	18.5	-	-	-
	2	5	1.5	393	79	6.3	-	-	-
	2	4	4.6	293	73	4.0	-	-	-
	3	5	1.5	348	70	8.2	-	0.0015 (4)*	0.0015 (4)
Total		29		2006	69	8.1	-	0.0020 (4)	0.0020 (4)
U B-G	5	5	1.5	376	75	6.8	-	-	-
	5	5	4.6	369	74	16.4	-	-	-
	5	5	10.7	353	71	8.5	-	-	-
	6	5	1.5	433	87	21.8	-	-	-
	6	5	4.6	384	77	8.3	0.0026 (1)	-	0.0026 (1)
	6	5	10.7	367	73	13.5	-	-	-
	7	5	1.5	347	69	7.2	-	-	-
	8	5	1.5	351	70	30.4	0.0057 (2)	-	0.0057 (2)
Total		40		2980	75	15.0	0.0010 (3)	-	0.0010 (3)

* Sample size in parentheses.

Appendix 5. Specimens collected per m^3 of water by station and depth for 5-minute night ichthyoplankton tows in June 1975 in Lower and Upper B-G.

Location	Station	No. of Tows	Depth of Tow (m)	Total Volume (m^3)	Mean Volume (m^3)	S.D. Volume	Larvae/m^3						
							Yellow Perch	Minnow Family	Rock Bass	Sunfish spp.	Tessellated Darter	Unidentified	Total
L B-G	1	5	1.5	503	101	25.0	0.0099 (5)*	-	-	-	-	-	0.0099 (5)
	1	5	4.6	381	76	23.5	0.0052 (2)	-	-	-	-	-	0.0052 (2)
	1	5	10.7	338	68	27.0	0.0030 (1)	-	-	-	-	0.0148 (5)	0.0178 (6)
	2	5	1.5	382	76	16.6	0.0105 (4)	-	-	-	-	-	0.0105 (4)
	2	5	4.6	388	78	21.9	0.0052 (2)	-	-	-	-	-	0.0052 (2)
	3	5	1.5	380	76	23.2	0.0053 (2)	-	-	-	-	-	0.0053 (2)
Total		30		2372	79	22.9	0.0067 (16)			-	-	0.0071 (5)	0.0089 (21)
U B-G	5	5	1.5	335	67	23.9	0.0299 (10)	-	-	-	-	0.0060 (2)	0.0358 (12)
	5	5	4.6	444	89	17.6	0.0270 (12)	-	-	-	-	0.0023 (1)	0.0293 (13)
	5	5	10.7	370	74	24.0	0.0486 (18)	-	-	-	-	0.0054 (2)	0.0540 (20)
	6	5	1.5	406	81	23.5	0.1232 (50)	-	-	-	-	0.0320 (13)	0.1552 (63)
	6	5	4.6	369	74	12.5	0.0596 (22)	-	-	-	0.0027 (1)	0.0054 (2)	0.0678 (25)
	6	5	10.7	381	76	16.4	0.1417 (54)	-	-	-	-	0.0105 (4)	0.1522 (58)
	7	5	1.5	385	77	13.4	0.0156 (6)	0.0052 (2)	0.0026 (1)	0.0026 (1)	-	0.0026 (1)	0.0286 (11)
	8	5	1.5	469	94	33.5	0.0171 (8)	-	-	0.0149 (7)	-	-	0.0320 (15)
Total		40		3159	79	20.6	0.0570 (180)	0.0006 (2)	0.0003 (1)	0.0025 (8)	0.0003 (1)	0.0079 (25)	0.0687 (217)

* Sample size in parentheses.

Appendix 6.Specimens collected per m^3 of water by station and depth for 5-minute day ichthyoplankton tows in July 1975 in Lower and Upper B-G.

Location	Station	No. of Tows	Depth of Tow (m)	Total Volume (m^3)	Mean Volume (m^3)	S.D. Volume	Larvae/m^3 Golden Shiner	Sunfish spp.	Tessellated Darter	Total
L B-G	1	4	1.5	326	82	3.8	-	0.0123 (4)*	-	0.0123 (4)
	1	4	4.6	304	76	12.0	-	-	-	-
	1	4	10.7	293	73	14.0	-	0.0034 (1)	-	0.0034 (1)
	2	4	1.5	326	82	2.4	-	0.0031 (1)	-	0.0031 (1)
	2	4	4.6	284	71	7.5	-	-	-	-
	3	4	1.5	288	72	31.4	0.0035 (1)	0.0069 (2)	-	0.0104 (3)
Total		24		1821	76	14.2	0.0005 (1)	0.0044 (8)	-	0.0049 (9)
U B-G	5	4	1.5	339	85	6.8	0.0029 (1)	0.0059 (2)	-	0.0088 (3)
	5	4	4.6	312	78	8.6	-	-	-	-
	5	4	10.7	281	70	6.0	-	-	-	-
	6	4	1.5	333	83	12.2	-	-	-	-
	6	4	4.6	282	71	20.9	-	-	-	-
	6	4	10.7	269	67	12.6	-	-	-	-
	7	4	1.5	202	51	30.9	-	0.0149 (3)	-	0.0149 (3)
	8	4	1.5	352	88	29.4	-	0.0114 (4)	0.0028 (1)	0.0142 (5)
Total		32		2370	74	19.9	0.0004 (1)	0.0038 (9)	0.0004 (1)	0.0046 (11)

* Sample size in parentheses.

Appendix 7. Specimens collected per m^3 of water by station and depth for 5-minute night ichthyoplankton tows in July 1975 in Lower and Upper B-G.

Location	Station	No. of Tows	Depth of Tow (m)	Total Volume (m^3)	Mean Volume (m^3)	S.D. Volume	Larvae/m^3						
							Yellow Perch	Minnow Family	Golden Shiner	Sunfish spp.	Tessellated Darter	Unidentified	Total
L B-G	1	4	1.5	226	57	25.7	-	0.0044 (1)*	0.0044 (1)	0.2212 (50)	-	0.0221 (5)	0.2522 (57)
	1	4	4.6	293	73	10.7	-	-	-	0.0068 (2)	-	-	0.0068 (2)
	1	4	10.7	257	64	16.3	-	-	-	-	-	-	-
	2	4	1.5	357	89	7.7	-	-	-	0.0364 (13)	-	-	0.0364 (13)
	2	4	4.6	336	84	9.8	-	-	-	0.0060 (2)		-	0.0060 (2)
	3	4	1.5	381	95	9.8	-	-	-	0.0184 (7)	-	-	0.0184 (7)
Total		24		1850	77	16.7	-	0.0005 (1)	0.0005 (1)	0.0400 (74)	-	0.0027 (5)	0.0438 (81)
U B-G	5	4	1.5	308	77	9.9	-	-	0.0032 (1)	0.0325 (10)	-	0.0097 (3)	0.0455 (14)
	5	4	4.6	294	74	2.9	-	-	-	0.0340 (10)	-	0.0102 (3)	0.0442 (13)
	5	4	10.7	236	59	24.9	-	-	-	0.0381 (9)	-	0.0466 (11)	0.0847 (20)
	6	4	1.5	345	86	7.5	-	-	-	0.0058 (2)	-	-	0.0058 (2)
	6	4	4.6	285	71	8.3	-	-	-	-	-	-	-
	6	4	10.7	293	73	11.8	0.0034 (1)	-	0.0034 (1)	0.0034 (1)	0.0034 (1)	-	0.0137 (4)
	7	4	1.5	204	51	31.2	-	0.0098 (2)	-	0.2402 (49)	-	-	0.2500 (51)
	8	4	1.5	279	70	17.9	-	0.0147 (3)	-	0.0502 (14)	-	0.0036 (1)	0.0645 (18)
Total		32		2244	70	18.1	0.0004 (1)	0.0022 (5)	0.0009 (2)	0.0423 (95)	0.0004 (1)	0.0080 (18)	0.0544 (122)

* Sample size in parentheses.

Appendix 8. Specimens collected per m^3 of water by station and depth for 5-minute day ichthyoplankton tows in August 1975 in Lower and Upper B-G.

Location	Station	No. of Tows	Depth of Tow (m)	Total Volume (m^3)	Mean Volume (m^3)	S.D. Volume	Larvae/m^3 Sunfish spp.	Larvae/m^3 Total
L B-G	1	4	1.5	278	70	11.4	-	-
	1	4	4.6	285	71	6.1	-	-
	1	4	10.7	252	63	6.4	-	-
	2	4	1.5	291	73	12.4	-	-
	2	4	4.6	303	76	19.3	-	-
	3	4	1.5	346	87	23.1	0.0058 (2)*	0.0058 (2)
Total		24		1755	73	14.8	0.0011 (2)	0.0011 (2)
U B-G	5	4	1.5	316	79	16.7	-	-
	5	4	4.6	296	74	11.5	-	-
	5	4	10.7	318	80	12.5	-	-
	6	4	1.5	323	81	10.2	-	-
	6	4	4.6	289	72	6.7	-	-
	6	4	10.7	307	77	6.5	-	-
	7	4	1.5	308	77	15.1	-	-
	8	4	1.5	282	71	20.7	-	-
Total		32		2439	76	12.2		

* Sample size in parentheses.

Appendix 9. Specimens collected per m^3 of water by station and depth for 5-minute night ichthyoplankton tows in August 1975 in Lower and Upper B-G.

Location	Station	No. of Tows	Depth of Tow (m)	Total Volume (m^3)	Mean Volume (m^3)	S.D. Volume	Larvae/m^3 Sunfish spp.	Larvae/m^3 Golden Shiner	Larvae/m^3 Unidentified	Larvae/m^3 Total
L B-G	1	4	1.5	328	82	9.1	-	-	-	-
	1	4	4.6	277	69	6.9	-	-	-	-
	1	4	10.7	265	66	9.6	-	-	-	-
	2	4	1.5	381	95	28.5	-	-	-	-
	2	4	4.6	267	67	3.2	-	-	-	-
	3	4	1.5	296	74	4.3	-	-	-	-
Total		24		1814	76	15.8	-	-	-	-
U B-G	5	4	1.5	346	87	25.7	0.0029 (1)*	-	-	0.0029 (1)
	5	4	4.6	310	78	9.8	-	-	0.0032 (1)	0.0032 (1)
	5	4	10.7	278	70	36.9	0.0036 (1)	0.0036 (1)	-	0.0078 (2)
	6	4	1.5	324	81	2.9	0.0247 (8)	-	0.0031 (1)	0.0278 (9)
	6	4	4.6	318	80	4.1	-	-	-	-
	6	4	10.7	329	82	18.5	-	-	-	-
	7	4	1.5	368	92	27.0	0.0082 (3)	0.0027 (1)	-	0.0109 (4)
	8	4	1.5	321	80	20.8	0.0031 (1)	-	-	0.0031 (1)
Total		32		2594	81	19.8	0.0054 (14)	0.0008 (2)	0.0008 (2)	0.0069 (18)

* Sample size in parentheses.

Appendix 10. Creel cnesus data collected in 9.8 hours in May 1975 from Lower B-G.

	Boat Fishermen	Shore Fishermen	Total
Fishermen Counted:			
Resident	0	2 (66.7%)	2 (66.7%)
Non-resident	0	1 (33.3%)	1 (33.3%)
Total	0	3	3
Per hour	0	0.31	0.31
Fish Caught:			
Carp	0	1 (100%)	1 (100%)
Total	0	1	1
Per hour	0	0.44	0.44
Hours Fished:			
Total	0	2.25	2.25
Per Fisherman	0	0.8	0.8

Appendix 11. Creel census data collected in 115.5 hours in June 1975 from Lower B-G.

	Boat Fishermen	Shore Fishermen	Total
Fishermen Counted:			
Resident	0	5 (17.3%)	5 (16.1%)
Non-resident	2	24 (82.8%)	26 (83.9%)
Total	2	29	31
Per hour	0.02	0.25	0.27
Fish Caught:			
Brown bullhead	1 (100%)	30 (83.3%)	31 (83.8%)
Pumpkinseed	0	2 (5.6%)	2 (5.4%)
Largemouth bass	0	1 (2.8%)	1 (2.7%)
Smallmouth bass	0	1 (2.8%)	1 (2.7%)
Bluegill	0	1 (2.8%)	1 (2.7%)
Carp	0	1 (2.8%)	1 (2.7%)
Total	1	36	37
Per hour	0.14	0.55	0.51
Hours Fished:			
Total	7.00	65.25	72.25
Per Fisherman	3.5	2.3	2.3

Appendix 12. Creel census data collected in 165.0 hours in July 1975 from Lower B-G.

	Boat Fishermen	Shore Fishermen	Total
Fishermen Counted:			
Resident	0	5 (26.3%)	5 (20.0%)
Non-resident	6	14 (73.7%)	20 (80.0%)
Total	6	19	25
Per hour	0.04	0.12	0.15
Fish Caught:			
Brown bullhead	9 (60.0%)	1 (12.5%)	10 (40.5%)
Carp	0	4 (50.0%)	4 (17.4%)
Largemouth bass	2 (13.3%)	1 (12.5%)	3 (13.0%)
Walleye	1 (6.7%)	1 (12.5%)	2 (8.7%)
Yellow perch	2 (13.3%)	0	2 (8.7%)
Pumpkinseed	0	1 (12.5%)	1 (4.3%)
Rock bass	1 (6.7%)	0	1 (4.3%)
Total	15	8	23
Per hour	1.25	0.40	0.71
Hours Fished:			
Total	12.0	20.25	32.25
Per Fisherman	2.0	1.1	1.3

Appendix 13. Creel census data collected in 187.5 hours in August 1975 from Lower B-G.

	Boat Fishermen	Shore Fishermen	Total
Fishermen Counted:			
Resident	0	9	9
Non-resident	15	18	33
Total	15	27	42
Per Hour	0.08	0.14	0.22
Fish Caught:			
Carp	0	2 (100%)	2 (66.7%)
Smallmouth bass	1 (100%)	0	1 (33.3%)
Total	1	2	3
Per Hour	0.02	0.08	0.04
Hours Fished:			
Total	43.50	25.50	69.00
Per Fisherman	2.9	0.9	1.6

Appendix 14. Creel census data collected in 12.0 hours in September 1975 from Lower B-G.

	Boat Fishermen	Shore Fishermen	Total
Fishermen Counted:			
Resident	0	0	0
Non-resident	0	11	11
Total	0	11	11
Per Hour	0	0.92	0.92
Fish Caught:	0	0	0
Hours Fished:			
Total	0	10.00	10.00
Per Fisherman	0	0.9	0.9

Appendix 15. Creel census data collected by month from 1 May through 27 September 1975 on Schoharie Creek between Schoharie Reservoir and Lower B-G (zone 1).

Date	May 75		Jun 75		Jul 75		Aug 75		Sep 75	
Survey Hours	49.0		152.5		212.0		234.0		96.0	
	#	%	#	%	#	%	#	%	#	%
Fishermen Counted:										
Resident	0	0.0	15	23.1	3	7.0	5	4.3	0	0.0
Non-resident	12	100.0	50	76.9	40	93.0	110	95.7	12	100.0
Total	12		65		43		115		12	
Per Hour	0.24		0.43		0.20		0.49		0.13	
Fish Caught:	#	Catch/hr	#	Catch/hr	#	Catch/hr	#	Catch/hr	#	Catch/hr
Rock bass	1	0.18	10	0.13	3	0.05	8	0.06	0	-
Pumpkinseed	0	-	1	0.01	0	-	14	0.11	0	-
Brown bullhead	0	-	6	0.08	0	-	0	-	0	-
Carp	1	0.18	3	0.04	0	-	1	0.01	0	-
Redbreast sunfish	0	-	1	0.01	0	-	3	0.02	0	-
Smallmouth bass	0	-	0	-	3	0.05	1	0.01	0	-
Rainbow trout	0	-	3	0.04	1	0.02	0	-	0	-
Brown trout	0	-	2	0.03	1	0.02	0	-	0	-
Fallfish	0	-	1	0.01	0	-	1	0.01	0	-
Total	2		27		8		30		0	
Per Hour		0.36		0.35		0.14		0.23		0.00
Hours Fished:										
Total	5.50		76.75		56.50		127.75		3.75	
Per Fisherman	0.5		1.2		1.3		1.1		0.3	

Appendix 16. Creel census data collected by month from 1 May through 27 September 1975 on Schoharie Creek between Lower B-G and the Breakabeen iron bridge (zone 2, the area that would have been inundated by the Breakabeen project as proposed).

Date	May 75		Jun 75		Jul 75		Aug 75		Sep 75	
Survey Hours	49.0		152.5		212.0		234.0		96.0	
	#	%	#	%	#	%	#	%	#	%
Fishermen Counted:										
Resident	0	0.0	2	22.2	8	33.3	7	14.0	5	35.7
Non-resident	9	100.0	7	77.8	16	66.7	43	86.0	9	64.3
Total	9		9		24		50		14	
Per Hour	0.18		0.06		0.11		0.21		0.15	
Fish Caught:	#	Catch/hr	#	Catch/hr	#	Catch/hr	#	Catch/hr	#	Catch/hr
Smallmouth bass	0	-	0	-	3	0.16	3	0.06	0	-
Rock bass	0	-	1	0.08	2	0.11	2	0.04	0	-
Carp	0	-	1	0.08	0	-	2	0.04	0	-
Fallfish	0	-	1	0.08	1	0.05	0	-	0	-
Walleye	0	-	1	0.08	0	-	0	-	0	-
Yellow perch	0	-	0	-	1	0.05	0	-	0	-
Total	0		4		7		7		0	
Per Hour		0.00		0.33		0.38		0.13		0.00
Hours Fished:										
Total	6.0		12.0		18.5		52.0		15.5	
Per Fisherman	0.7		1.3		0.8		1.0		1.1	

Appendix 17. Creel census data collected by month from 1 May through 27 September 1975 on Schoharie Creek between Lower B-G and the Breakabeen iron bridge (zone 3, the area that would not have been inundated by the Breakabeen project as proposed).

Date	May 75		Jun 75		Jul 75		Aug 75		Sep 75	
Survey Hours	49.0		152.5		212.0		234.0		96.0	
	#	%	#	%	#	%	#	%	#	%
Fishermen Counted:										
Resident	2	66.7	10	21.3	0	0.0	3	3.8	0	0.0
Non-resident	1	33.3	37	78.7	41	100.0	105	97.2	47	100.0
Total	3		47		41		108		47	
Per Hour	0.06		0.31		0.19		0.46		0.49	
Fish Caught:	#	Catch/hr	#	Catch/hr	#	Catch/hr	#	Catch/hr	#	Catch/hr
Walleye	0	-	4	0.06	2	0.13	16	0.13	2	0.03
Carp	0	-	7	0.10	2	0.13	4	0.03	2	0.03
Yellow perch	0	-	5	0.07	3	0.19	1	0.01	1	0.02
Brown bullhead	0	-	4	0.06	0	-	2	0.02	0	-
Rock bass	0	-	4	0.06	0	-	0	-	0	-
Pumpkinseed	0	-	4	0.06	0	-	0	-	0	-
Smallmouth bass	0	-	0	-	2	0.13	1	0.01	1	0.02
Redbreast sunfish	0	-	1	0.01	2	0.13	0	-	0	-
White sucker	1	1.00	0	-	1	0.06	0	-	0	-
Fallfish	0	-	2	0.03	0	-	0	-	0	-
Largemouth bass	0	-	2	0.03	0	-	0	-	0	-
Chain pickerel	0	-	0	-	1	0.06	1	0.01	0	-
Shorthead redhorse	0	-	0	-	0	-	2	0.02	0	-
Rainbow trout	0	-	0	-	0	-	0	-	1	0.02
Total	1		33		13		27		7	
Per Hour		1.00		0.48		0.83		0.23		0.12
Hours Fished:										
Total	1.00		68.50		15.75		119.75		60.50	
Per Fisherman	0.3		1.5		0.4		1.1		1.3	

Appendix 18. Stream benthos collected on 27 and 30 June and 1 July 1975 in two zones (12 stations) of Schoharie Creek.

Station	Zone 1*				Zone 2*										Grand
	1	2	3	Total	4	5	6	7	8	9	10	11	12	Total	Total
Mayflies	27	13	13	53	7	87	51	31	31	57	39	41	58	402	455
Heptageniidae	26	11	9	46	1	35	26	5	7	40	12	15	31	172	218
Baetidae	1	2	4	7	4	51	25	17	16	10	16	7	10	156	163
Ephemeridae	0	0	0	0	2	1	0	9	8	7	11	19	17	74	74
Caddis flies	1	13	58	72	6	46	48	31	6	7	6	18	14	182	254
Hydropsychidae	0	11	51	62	1	41	39	31	1	6	1	9	10	139	201
Philopotamidae	1	2	6	9	5	5	7	0	1	1	0	0	2	21	30
Leptoceridae	0	0	1	1	0	0	2	0	4	0	5	5	2	18	19
Limnephilidae	0	0	0	0	0	0	0	0	0	0	0	4	0	4	4
Dipterans	33	18	25	76	7	24	9	10	10	18	4	3	25	110	186
Chironomidae	33	18	21	72	7	23	7	6	6	18	4	1	23	95	167
Tipulidae	0	0	3	3	0	0	0	4	4	0	0	0	0	8	11
Rhagionidae	0	0	0	0	0	1	2	0	0	0	0	1	2	6	6
Ceratopogonidae	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Simuliidae	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
Stoneflies	0	4	19	23	0	6	11	7	1	0	2	8	5	40	63
Perlidae	0	0	7	7	0	0	11	6	1	0	2	8	4	32	39
Chloroperlidae	0	4	11	15	0	5	0	0	0	0	0	0	1	6	21
Nemouridae	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
Pteronarcidae	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
Perlodidae	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
Beetles	1	0	1	2	0	0	6	7	1	3	4	15	6	42	44
Psephenidae	0	0	1	1	0	0	3	6	1	2	2	13	2	29	30
Elmidae	0	0	0	0	0	0	3	1	0	0	2	2	3	11	11
Dytiscidae	1	0	0	1	0	0	0	0	0	1	0	0	1	2	3
Scuds	18	0	0	18	1	0	0	0	0	0	0	0	0	1	19
Sow bugs	12	1	0	13	1	0	0	0	0	0	0	0	0	1	14
Crayfish	3	0	0	3	0	0	0	0	4	4	0	1	0	9	12
Fish	1	1	2	4	0	0	1	1	0	0	0	0	2	4	8
Hellgrammites	0	0	0	0	0	0	0	2	0	3	1	0	0	6	6
Corydalidae	0	0	0	0	0	0	0	2	0	3	1	0	0	6	6
Leeches	2	4	0	6	0	0	0	0	0	0	0	0	0	0	6
Worms	0	1	2	3	0	0	1	0	0	0	0	0	2	3	6
Bugs	1	0	0	1	0	0	0	0	0	0	0	1	0	1	2
Gerridae	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Veliidae	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Snails, clams	0	0	0	0	0	1	0	0	0	0	0	0	1	2	2
Dragonflies	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
Gomphidae	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
Damselflies	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
Coenagrionidae	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
Miscellaneous	0	0	0	0	1	0	3	2	0	0	1	0	0	7	7
Number of Organisms	99	55	120	274	23	164	131	92	53	92	57	87	113	812	1086
Number of Families	6	6	13	16	6	9	11	12	10	9	10	13	13	22	25
Number of Taxa	10	7	7	11	5	5	8	8	6	6	6	7	8	15	16
Biomass (g)	1.99	0.39	1.11	3.49	0.06	0.52	0.60	3.32	2.51	2.63	0.34	3.53	0.75	14.26	17.75

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.

Appendix 19. Stream benthos collected in July 1975 in two zones (12 stations) of Schoharie Creek.

	Zone 1*				Zone 2*										Grand
Station	1	2	3	Total	4	5	6	7	8	9	10	11	12	Total	Total
Dipterans	762	392	100	1254	7	20	11	17	13	13	14	23	31	149	1403
Chironomidae	756	382	91	1229	7	12	2	5	9	7	11	19	22	94	1323
Tipulidae	0	9	1	10	0	0	1	11	3	2	3	3	5	28	38
Rhagionidae	2	1	8	11	0	8	8	1	1	4	0	1	2	25	36
Culicidae	4	0	0	4	0	0	0	0	0	0	0	0	0	0	4
Ceratopogonidae	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Tabanidae	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Mayflies	112	58	79	249	28	137	138	119	82	183	70	139	192	1088	1337
Heptageniidae	86	51	66	203	27	128	88	74	34	111	24	60	142	688	891
Baetidae	26	7	13	46	1	7	48	22	23	64	20	21	33	239	285
Ephemeridae	0	0	0	0	0	2	2	23	25	8	26	58	17	161	161
Caddis flies	31	30	222	283	1	26	34	36	11	81	2	16	30	237	520
Hydropsychidae	16	30	187	233	1	18	25	21	2	65	0	14	14	160	393
Philopotamidae	12	0	18	30	0	0	8	15	4	15	2	1	14	59	89
Leptoceridae	0	0	17	17	0	3	1	0	5	1	0	1	2	13	30
Psychomyiidae	0	0	0	0	0	5	0	0	0	0	0	0	0	5	5
Limnephilidae	3	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Beetles	1	1	7	9	0	2	13	22	8	28	10	50	4	137	146
Elmidae	0	0	1	1	0	2	5	6	3	20	2	31	4	73	74
Psephenidae	1	1	6	8	0	0	8	16	5	8	8	19	0	64	72
Stoneflies	0	8	11	19	0	5	20	16	2	19	6	13	10	91	110
Perlidae	0	0	2	2	0	5	20	16	2	19	6	13	9	90	92
Chloroperlidae	0	8	9	17	0	0	0	0	0	0	0	0	1	1	18
Leeches	75	9	0	84	1	2	1	0	1	2	0	3	0	10	94
Scuds	79	3	0	82	2	0	0	0	0	0	0	0	0	2	84
Sow bugs	62	2	0	64	0	0	0	0	0	0	0	0	0	0	64
Worms	0	16	14	30	0	0	0	0	0	0	0	0	2	2	32
Hellgrammites	1	0	2	3	0	0	6	2	2	1	0	0	0	11	14
Corydalidae	1	0	2	3	0	0	6	2	2	1	0	0	0	11	14
Crayfish	0	1	0	1	0	0	2	1	1	0	1	0	0	5	6
Fish	0	0	0	0	1	0	1	1	0	1	0	1	0	5	5
Bugs	2	0	2	4	0	0	0	0	0	0	0	0	0	0	4
Veliidae	1	0	2	3	0	0	0	0	0	0	0	0	0	0	3
Corixidae	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Water mites	0	0	1	1	0	0	0	0	0	0	0	2	0	2	3
Snails, clams	1	1	0	2	0	0	0	0	0	0	0	0	0	0	2
Damselflies	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
Agrionidae	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
Dragonflies	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
Gomphidae	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
Miscellaneous	0	1	8	9	0	1	1	1	0	1	0	0	0	4	13
Number of Organisms	1126	522	446	2094	40	193	228	215	121	329	103	247	269	1745	3839
Number of Families	12	8	14	17	4	10	14	12	14	13	9	12	14	19	23
Number of Taxa	10	11	9	14	6	6	10	8	9	8	6	8	5	14	17
Biomass (g)	1.52	1.62	1.74	4.88	0.22	0.44	10.03	3.09	2.77	1.93	1.59	1.83	1.70	23.60	28.48

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.

Appendix 20. Stream benthos collected in August 1975 in two zones (12 stations) of Schoharie Creek.

Station	Zone 1*				Zone 2*										Grand
	1	2	3	Total	4	5	6	7	8	9	10	11	12	Total	Total
Mayflies	40	115	198	353	76	145	175	58	94	312	90	127	193	1270	1623
Heptageniidae	36	112	130	278	74	132	117	35	46	160	30	70	124	788	1066
Baetidae	2	2	68	72	0	12	55	14	23	142	14	15	54	329	401
Ephemeridae	2	1	0	3	2	1	3	9	25	10	46	42	15	153	156
Caddis flies	18	17	368	403	3	32	107	6	16	212	8	5	11	400	803
Hydropsychidae	0	0	299	299	1	23	79	4	10	153	3	4	8	285	584
Philopotamidae	0	0	48	48	0	0	22	1	1	42	1	0	0	67	115
Psychomyiidae	17	14	14	45	2	9	0	0	5	0	3	0	3	22	67
Hydroptilidae	0	2	3	5	0	0	4	1	0	14	0	0	0	19	24
Leptoceridae	1	1	4	6	0	0	2	0	0	3	0	1	0	6	12
Limnephilidae	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
Dipterans	294	80	124	498	5	56	31	21	31	57	21	9	28	259	757
Chironomidae	293	78	120	491	5	54	17	7	26	43	21	8	10	191	682
Rhagionidae	0	0	3	3	0	2	13	2	1	10	0	0	12	40	43
Tipulidae	0	2	1	3	0	0	1	12	4	4	0	1	4	26	29
Tabanidae	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
Ceratopogonidae	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Beetles	1	2	6	9	0	5	17	29	7	71	11	20	8	168	177
Psephenidae	1	0	3	4	0	5	6	13	5	54	5	17	2	107	111
Elmidae	0	2	3	5	0	0	11	16	2	17	6	3	4	59	64
Gyrinidae	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
Stoneflies	0	1	9	10	0	2	23	17	6	15	5	12	12	92	102
Perlidae	0	1	9	10	0	2	23	17	6	15	5	12	12	92	102
Leeches	58	3	2	63	3	13	0	0	0	10	1	0	2	29	92
Worms	21	1	14	36	2	1	2	2	2	1	0	1	0	11	47
Sow bugs	16	0	0	16	1	0	0	0	0	0	0	0	0	1	17
Hellgrammites	1	0	8	9	0	0	3	0	0	1	0	0	2	6	15
Corydalidae	1	0	8	9	0	0	3	0	0	1	0	0	2	6	15
Scuds	12	1	0	13	1	0	0	0	0	0	0	0	0	1	14
Crayfish	1	1	0	2	0	1	0	0	1	1	0	0	0	3	5
Damselflies	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3
Coenagrionidae	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3
Dragonflies	0	0	0	0	0	1	0	0	0	1	0	0	0	2	2
Libellulidae	0	0	0	0	0	1	0	0	0	1	0	0	0	2	2
Spongilla flies	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
Sisyridae	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
Snails, clams	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
Fish	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
Miscellaneous	0	3	1	4	1	0	2	1	0	4	1	0	0	9	13
Number of Organisms	462	225	731	1418	92	256	360	134	157	686	137	174	259	2255	3673
Number of Families	8	10	15	17	5	10	14	12	12	15	11	10	15	20	22
Number of Taxa	10	10	9	13	7	9	7	6	7	11	6	6	7	13	16
Biomass (g)	0.29	2.31	2.72	5.32	0.42	0.05	1.14	0.78	1.73	5.38	0.37	1.12	1.22	12.21	17.53

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.

Appendix 21. Stream benthos collected in September 1975 in two zones (12 stations) of Schoharie Creek.

	Zone 1*				Zone 2*										Grand
Station	1	2	3	Total	4	5	6	7	8	9	10	11	12	Total	Total
Mayflies	24	344	366	734	80	289	211	104	178	428	273	50	253	1866	2600
Heptageniidae	16	300	262	578	70	201	137	67	114	308	161	41	133	1232	1810
Baetidae	8	40	97	145	0	29	55	18	27	37	20	9	82	277	422
Ephemeridae	0	4	7	11	10	59	19	19	37	83	92	0	38	357	368
Caddis flies	26	72	325	423	12	19	83	4	10	4	5	8	11	156	579
Hydropsychidae	0	5	268	273	8	0	54	3	4	1	3	2	3	78	351
Psychomyiidae	18	62	31	111	4	15	2	0	5	3	2	1	7	39	150
Philopotamidae	0	0	19	19	0	0	11	1	0	0	0	0	0	12	31
Leptoceridae	1	0	0	0	0	3	12	0	1	0	0	5	0	21	22
Hydroptilidae	7	2	3	12	0	0	0	0	0	0	0	0	0	0	12
Rhyacophilidae	0	3	4	7	0	1	4	0	0	0	0	0	0	5	12
Limnephilidae	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Dipterans	112	120	145	377	15	13	18	32	13	24	10	2	52	179	556
Chironomidae	112	120	141	373	15	9	7	4	11	23	8	1	45	123	496
Tipulidae	0	0	3	3	0	1	0	27	2	1	2	1	6	40	43
Rhagionidae	0	0	1	1	0	2	11	1	0	0	0	0	1	15	16
Ceratopogonidae	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
Beetles	3	1	9	13	4	7	32	89	10	52	19	14	21	248	261
Psephenidae	1	1	6	8	2	3	28	71	9	52	17	12	12	206	214
Elmidae	2	0	3	5	0	1	4	18	0	0	2	1	7	33	38
Haliplidae	0	0	0	0	2	3	0	0	1	0	0	1	1	8	8
Gyrinidae	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Leeches	31	5	32	68	1	9	9	1	1	4	2	3	6	36	104
Stoneflies	0	4	4	8	0	3	16	39	3	0	5	2	14	82	90
Perlidae	0	4	3	7	0	3	16	39	3	0	5	2	14	82	89
Chloroperlidae	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1
Worms	13	16	29	58	15	3	0	2	1	0	0	1	6	28	86
Damselflies	2	0	1	3	0	11	2	0	1	5	0	0	1	20	23
Coenagrionidae	2	0	1	3	0	11	2	0	1	5	0	0	1	20	23
Sow bugs	6	5	9	20	0	0	0	0	0	0	0	0	0	0	20
Scuds	4	1	10	15	0	0	0	0	0	0	0	0	0	0	15
Hellgrammites	0	1	3	4	0	0	3	0	0	2	2	0	1	8	12
Corydalidae	0	1	3	4	0	0	3	0	0	2	2	0	1	8	12
Dragonflies	0	1	0	1	0	0	0	2	2	1	0	0	1	6	7
Gomphidae	0	0	0	0	0	0	0	2	2	0	0	0	0	4	4
Libellulidae	0	1	0	1	0	0	0	0	0	1	0	0	0	1	2
Aeschnidae	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Fish	0	0	0	0	0	0	0	2	1	2	0	0	1	6	6
Snails, clams	3	1	0	4	0	0	0	0	0	0	0	0	1	1	5
Crayfish	0	0	0	0	0	0	0	2	1	0	0	1	0	4	4
Bugs	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Veliidae	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Miscellaneous	1	0	3	4	0	0	1	0	0	0	1	1	1	4	8
Number of Organisms	226	571	936	1733	127	354	375	277	221	522	317	82	369	2644	4377
Number of Families	10	12	17	20	7	15	15	12	13	11	11	11	17	23	26
Number of Taxa	11	12	11	14	6	8	8	10	11	9	7	8	12	13	16
Biomass (g)	0.39	3.50	5.32	9.21	0.59	2.42	1.88	5.13	2.55	3.39	1.32	3.51	3.70	24.49	33.70

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.

Appendix 22. Numerical and occurrence percentages of stream benthos collected on 27 and 30 June and 1 July 1975 in two zones (12 stations) of Schoharie Creek.

Organism	% Numerical			% Occurrence		
	Zone 1*	Zone 2*	Total	Zone 1*	Zone 2*	Total
Mayflies	19.3	49.5	41.9	100.0	100.0	100.0
Caddis flies	26.3	22.4	23.4	100.0	100.0	100.0
Dipterans	27.7	13.6	17.1	100.0	100.0	100.0
Stoneflies	8.4	4.9	5.8	66.7	77.8	75.0
Beetles	0.7	5.2	4.1	66.7	77.8	75.0
Scuds	6.6	0.1	1.8	33.3	11.1	16.7
Sow bugs	4.7	0.1	1.3	66.7	11.1	25.0
Crayfish	1.1	1.1	1.1	33.3	33.3	33.3
Fish	1.5	0.5	0.7	100.0	33.3	50.0
Hellgrammites	0.0	0.7	0.6	0.0	33.3	25.0
Leeches	2.2	0.0	0.6	66.7	0.0	16.7
Worms	1.1	0.4	0.6	66.7	22.2	33.3
Bugs	0.4	0.1	0.2	33.3	11.1	16.7
Snails, clams	0.0	0.2	0.2	0.0	22.2	16.7
Dragonflies	0.0	0.1	0.1	0.0	11.1	8.3
Damselflies	0.0	0.1	0.1	0.0	11.1	8.3
Miscellaneous	0.0	0.9	0.6	0.0	44.4	33.3

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.

Appendix 23. Numerical and occurrence percentages of stream benthos collected in July 1975 in two zones (12 stations) of Schoharie Creek.

Organism	% Numerical			% Occurrence		
	Zone 1*	Zone 2*	Total	Zone 1*	Zone 2*	Total
Dipterans	59.9	8.5	36.5	100.0	100.0	100.0
Mayflies	11.9	62.4	34.8	100.0	100.0	100.0
Caddis flies	13.5	13.6	13.6	100.0	100.0	100.0
Beetles	0.4	7.9	3.8	100.0	88.9	91.7
Stoneflies	0.9	5.2	2.9	66.7	88.9	83.3
Leeches	4.0	0.6	2.5	66.7	66.7	66.7
Scuds	3.9	0.1	2.2	66.7	11.1	25.0
Sow bugs	3.1	0.0	1.7	66.7	0.0	16.7
Worms	1.4	0.1	0.8	66.7	11.1	25.0
Hellgrammites	0.1	0.6	0.4	66.7	44.4	50.0
Crayfish	0.0	0.3	0.2	33.3	44.4	41.7
Fish	0.0	0.3	0.1	0.0	55.6	41.7
Bugs	0.2	0.0	0.1	66.7	0.0	16.7
Hydracarina	0.0	0.1	0.1	33.3	11.1	16.7
Snails, clams	0.1	0.0	0.1	66.7	0.0	16.7
Damselflies	0.0	0.1	0.0	0.0	11.1	8.3
Dragonflies	0.0	0.1	0.0	0.0	11.1	8.3
Miscellaneous	0.4	0.2	0.3	66.7	44.4	50.0

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.

Appendix 24. Numerical and occurrence percentages of stream benthos collected in August 1975 in two zones (12 stations) of Schoharie Creek.

Organism	% Numerical			% Occurrence		
	Zone 1*	Zone 2*	Total	Zone 1*	Zone 2*	Total
Mayflies	24.9	56.3	44.2	100.0	100.0	100.0
Caddis flies	28.4	17.7	21.9	100.0	100.0	100.0
Dipterans	35.1	11.5	20.6	100.0	100.0	100.0
Beetles	0.6	7.5	4.8	100.0	88.9	91.7
Stoneflies	0.7	4.1	2.8	66.7	88.9	83.3
Leeches	4.5	1.3	2.5	100.0	55.6	66.7
Worms	2.5	0.5	1.3	100.0	77.8	83.3
Sow bugs	1.1	0.0	0.5	33.3	11.1	16.7
Hellgrammites	0.6	0.3	0.4	66.7	88.9	41.7
Scuds	0.9	0.0	0.4	66.7	11.1	75.0
Crayfish	0.1	0.1	0.1	66.7	33.3	41.7
Damselflies	0.0	0.1	0.1	0.0	11.1	8.3
Dragonflies	0.0	0.1	0.1	0.0	33.3	25.0
Spongilla flies	0.1	0.0	0.0	33.3	0.0	8.3
Snails, clams	0.1	0.0	0.0	33.3	0.0	8.3
Fish	0.0	0.0	0.0	0.0	11.1	8.3
Miscellaneous	0.3	0.4	0.4	66.7	55.6	58.3

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.

Appendix 25. Numerical and occurrence percentages of stream benthos collected in September 1975 in two zones (12 stations) of Schoharie Creek.

Organism	% Numerical			% Occurrence		
	Zone 1*	Zone 2*	Total	Zone 1*	Zone 2*	Total
Mayflies	42.4	70.6	59.4	100.0	100.0	100.0
Caddis flies	24.4	5.9	13.2	100.0	100.0	100.0
Dipterans	21.8	6.8	12.7	100.0	100.0	100.0
Beetles	0.8	9.4	6.0	100.0	100.0	100.0
Leeches	3.9	1.4	2.4	100.0	100.0	100.0
Stoneflies	0.5	3.1	2.1	66.7	77.8	75.0
Worms	3.4	1.1	2.0	100.0	66.7	75.0
Damselflies	0.2	0.8	0.5	66.7	55.6	58.3
Sow bugs	1.2	0.0	0.5	100.0	0.0	25.0
Hellgrammites	0.2	0.3	0.3	66.7	44.4	50.0
Scuds	0.9	0.0	0.3	100.0	0.0	25.0
Dragonflies	0.1	0.2	0.2	33.3	44.4	41.7
Crayfish	0.0	0.2	0.1	0.0	33.3	25.0
Fish	0.0	0.2	0.1	0.0	44.4	33.3
Snails, clams	0.2	0.0	0.1	66.7	11.1	25.0
Bugs	0.1	0.0	0.0	33.3	0.0	8.3
Miscellaneous	0.2	0.2	0.2	66.7	11.1	25.0

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.

Appendix 26. Mean and standard error of number of organisms, number of families, number of taxa, and biomass per sample of stream benthos collected on 27 and 30 June and 1 July 1975 in two zones (12 stations) of Schoharie Creek.

	Zone 1*				Zone 2*										Grand
Station	1	2	3	Total	4	5	6	7	8	9	10	11	12	Total	Total
Mean Number of Organisms Per Sample	10	6	12	9	2	16	13	9	5	9	5	9	11	9	9
Standard Error	1.6	0.7	2.0	1.0	0.3	2.9	1.7	2.2	0.9	0.9	1.2	1.1	1.0	0.7	0.5
Mean Number of Families Per Sample	4	3	5	3	2	5	5	4	4	3	4	5	5	4	4
Standard Error	0.3	0.2	0.5	0.3	0.3	0.6	0.6	0.8	0.4	0.4	0.4	0.7	0.3	0.2	0.2
Mean Number of Taxa Per Sample	4	4	4	4	2	3	4	4	3	3	3	4	4	4	4
Standard Error	0.3	0.2	0.4	0.2	0.2	0.4	0.4	0.6	0.3	0.4	0.3	0.3	0.4	0.2	0.2
Mean Biomass (g) Per Sample	0.19	0.04	0.11	0.12	0.01	0.05	0.06	0.33	0.25	0.26	0.04	0.35	0.08	0.16	0.15
Standard Error	0.09	0.01	0.02	0.04	0.00	0.01	0.02	0.19	0.19	0.16	0.01	0.16	0.03	0.04	0.04

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.

Appendix 27. Mean and standard error of number of organisms, number of families, number of taxa, and biomass per sample of stream benthos collected in July 1975 in two zones (12 stations) of Schoharie Creek.

	Zone 1*				Zone 2*										Grand
Station	1	2	3	Total	4	5	6	7	8	9	10	11	12	Total	Total
Mean Number of Organisms Per Sample	113	52	45	70	4	19	23	22	12	33	10	25	27	19	32
Standard Error	19.5	13.6	9.6	10.3	1.2	3.7	2.7	4.9	1.4	2.0	1.2	2.6	4.4	1.3	3.5
Mean Number of Families Per Sample	5	4	7	5	2	4	6	6	5	8	5	7	7	5	5
Standard Error	0.3	0.4	0.3	0.3	0.3	0.6	0.4	0.9	0.3	0.5	0.3	0.7	0.8	0.2	0.2
Mean Number of Taxa Per Sample	7	5	5	6	2	3	6	4	4	5	3	4	4	4	4
Standard Error	0.2	0.6	0.3	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.4	0.5	0.2	0.2
Mean Biomass (g) Per Sample	0.15	0.16	0.17	0.16	0.02	0.04	1.00	0.31	0.28	0.19	0.16	0.18	0.17	0.26	0.24
Standard Error	0.03	0.06	0.06	0.04	0.03	0.03	0.57	0.16	0.19	0.03	0.06	0.03	0.03	0.07	0.05

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.

Appendix 28. Mean and standard error of number of organisms, number of families, number of taxa, and biomass per sample of stream benthos collected in August 1975 in two zones (12 stations) of Schoharie Creek.

Station	Zone 1*				Zone 2*										Grand
	1	2	3	Total	4	5	6	7	8	9	10	11	12	Total	Total
Mean Number of Organisms Per Sample	46	23	73	47	9	26	36	13	16	69	14	17	23	25	31
Standard Error	6.8	3.4	12.8	6.2	1.5	4.4	2.2	2.8	3.9	13.7	2.0	2.6	3.7	2.4	2.5
Mean Number of Families Per Sample	3	4	7	5	2	5	8	6	6	9	5	5	7	6	6
Standard Error	0.5	0.4	0.5	0.4	0.2	0.2	0.4	0.8	0.5	0.8	0.3	0.6	0.5	0.3	0.2
Mean Number of Taxa Per Sample	6	4	5	5	2	4	5	4	4	5	4	4	5	4	4
Standard Error	0.5	0.1	0.1	0.3	0.4	0.2	0.3	0.4	0.4	0.3	0.3	0.4	0.3	0.1	0.1
Mean Biomass (g) Per Sample	0.03	0.23	0.27	0.18	0.04	0.11	0.11	0.08	0.17	0.54	0.04	0.11	0.12	0.15	0.15
Standard Error	0.01	0.09	0.06	0.04	0.02	0.03	0.03	0.03	0.13	0.28	0.01	0.06	0.03	0.03	0.03

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.

Appendix 29. Mean and standard error of number of organisms, number of families, number of taxa, and biomass per sample of stream benthos collected in September 1975 in two zones (12 stations) of Schoharie Creek.

Station	Zone 1*				Zone 2*										Grand
	1	2	3	Total	4	5	6	7	8	9	10	11	12	Total	Total
Mean Number of Organisms Per Sample	23	57	94	58	13	35	38	28	22	52	32	8	37	29	37
Standard Error	3.0	5.5	12.1	7.0	1.8	4.5	4.7	4.7	3.7	7.6	4.0	1.9	4.7	2.0	2.5
Mean Number of Families Per Sample	4	5	7	5	3	6	7	7	5	6	5	3	7	5	5
Standard Error	0.4	0.4	0.6	0.3	0.4	0.9	0.8	0.5	0.6	0.3	0.3	0.2	0.8	0.2	0.2
Mean Number of Taxa Per Sample	5	5	6	5	3	4	5	5	4	4	3	3	5	4	4
Standard Error	0.3	0.6	0.3	0.3	0.3	0.4	0.3	0.4	0.5	0.3	0.3	0.3	0.6	0.2	0.1
Mean Biomass (g) Per Sample	0.04	0.35	0.53	0.31	0.07	0.24	0.19	0.51	0.26	0.34	0.13	0.35	0.37	0.27	0.28
Standard Error	0.01	0.03	0.13	0.05	0.01	0.06	0.03	0.16	0.16	0.16	0.03	0.30	0.22	0.05	0.15

* Zone 1 = Upstream from Lower B-G.
Zone 2 = Downstream from Lower B-G.

Appendix 30. Stream benthos collected on 30 June and 2 July 1975 in two zones (four stations) of Cole Hollow Creek.

	Zone 1*			Zone 2*			Grand
Station	1	2	Total	3	4	Total	Total
Mayflies	119	75	194	77	47	124	318
Baetidae	93	66	159	50	32	82	241
Heptageniidae	26	9	35	27	15	42	77
Stoneflies	24	31	55	24	21	45	100
Chloroperlidae	4	17	21	12	6	18	39
Nemouridae	8	1	9	12	11	23	32
Perlidae	12	13	25	0	0	0	25
Perlodidae	0	0	0	0	4	4	4
Caddis flies	20	13	33	32	5	37	70
Hydropsychidae	3	6	9	16	0	16	25
Philopotamidae	11	5	16	3	0	3	19
Limnephilidae	1	1	2	12	3	15	17
Rhyacophilidae	3	0	3	0	2	2	5
Leptoceridae	1	1	2	1	0	1	3
Brachycentridae	1	0	1	0	0	0	1
Dipterans	11	9	20	11	20	31	51
Rhagionidae	4	2	6	10	4	14	20
Chironomidae	2	5	7	0	7	7	14
Tipulidae	3	2	5	1	5	6	11
Anthomyiidae	0	0	0	0	2	2	2
Ceratopogonidae	0	0	0	0	2	2	2
Simuliidae	2	0	2	0	0	0	2
Beetles	27	8	35	2	2	4	39
Psephenidae	25	0	25	0	0	0	25
Elmidae	2	8	10	2	0	2	12
Dytiscidae	0	0	0	0	1	1	1
Gyrinidae	0	0	0	0	1	1	1
Crayfish	2	1	3	3	0	3	6
Bugs	0	0	0	1	0	1	1
Veliidae	0	0	0	1	0	1	1
Worms	1	0	1	0	0	0	1
Miscellaneous	0	0	0	0	3	3	3
Number of Organisms	204	137	341	150	98	248	589
Number of Families	17	13	17	12	14	19	23
Number of Taxa	7	6	7	7	5	7	8
Biomass (g)	4.27	1.58	5.85	9.87	2.60	12.47	18.32

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.

Appendix 31. Stream benthos collected on 25 July 1975 in two zones (three stations) of Cole Hollow Creek.

Station	Zone 1*			Zone 2*		Grand Total
	1	2	Total	3	Total	
Mayflies	55	38	93	44	44	137
Baetidae	46	22	68	25	25	93
Heptageniidae	9	14	23	19	19	42
Ephemeridae	0	2	2	0	0	2
Stoneflies	23	26	49	43	43	92
Chloroperlidae	9	6	15	28	28	43
Perlidae	14	17	31	3	3	34
Perlodidae	0	1	1	8	8	9
Nemouridae	0	2	2	4	4	6
Caddis flies	29	22	51	30	30	81
Hydropsychidae	9	15	24	13	13	37
Philopotamidae	12	1	13	0	0	13
Leptoceridae	0	1	1	8	8	9
Limnephilidae	0	0	0	9	9	9
Rhyacophilidae	4	5	9	0	0	9
Brachycentridae	4	0	4	0	0	4
Dipterans	23	6	29	36	36	65
Chironomidae	10	1	11	22	22	33
Tipulidae	9	4	13	6	6	19
Rhagionidae	3	1	4	8	8	12
Tabanidae	1	0	1	0	0	1
Beetles	16	3	19	8	8	27
Psephenidae	13	1	14	0	0	14
Elmidae	3	2	5	8	8	13
Crayfish	4	2	6	3	3	9
Worms	1	1	2	3	3	5
Dragonflies	0	1	1	3	3	4
Libellulidae	0	1	1	3	3	4
Hellgrammites	1	2	3	0	0	3
Corydalidae	1	2	3	0	0	3
Bugs	0	1	1	0	0	1
Veliidae	0	1	1	0	0	1
Leeches	0	1	1	0	0	1
Miscellaneous	0	1	1	0	0	1
Number of Organisms	152	104	256	170	170	426
Number of Families	15	19	21	14	14	22
Number of Taxa	8	11	11	8	8	11
Biomass (g)	10.07	2.75	12.82	8.16	8.16	20.98

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.

Appendix 32. Stream benthos collected on 27 and 29 August 1975 in two zones (four stations) of Cole Hollow Creek.

	Zone 1*			Zone 2*			Grand
Station	1	2	Total	3	4	Total	Total
Dipterans	31	12	43	61	379	440	483
Chironomidae	16	7	23	56	366	422	445
Tipulidae	9	4	13	3	4	7	20
Rhagionidae	4	1	5	0	5	5	10
Ceratopogonidae	2	0	2	2	1	3	5
Dixidae	0	0	0	0	3	3	3
Mayflies	22	48	70	67	98	165	235
Baetidae	14	33	47	36	93	129	176
Heptageniidae	8	15	23	31	5	36	59
Caddis flies	37	23	60	45	118	163	223
Leptoceridae	0	0	0	2	105	107	107
Hydropsychidae	26	12	38	28	1	29	67
Rhyacophilidae	3	6	9	6	4	10	19
Psychomyiidae	8	5	13	3	2	5	18
Limnephilidae	0	0	0	6	5	11	11
Philopotamidae	0	0	0	0	1	1	1
Stoneflies	26	20	46	62	22	84	130
Chloroperlidae	4	9	13	10	17	27	40
Peltoperlidae	0	1	1	38	0	38	39
Perlidae	22	10	32	2	0	2	34
Perlodidae	0	0	0	12	5	17	17
Beetles	34	6	40	13	4	17	57
Psephenidae	29	4	33	0	0	0	33
Elmidae	5	2	7	12	0	12	19
Dytiscidae	0	0	0	1	4	5	5
Water mites	0	0	0	0	19	19	19
Worms	1	0	1	9	1	10	11
Leeches	0	2	2	1	2	3	5
Crayfish	1	1	2	2	0	2	4
Hellgrammites	0	0	0	2	0	2	2
Corydalidae	0	0	0	2	0	2	2
Snails, clams	0	0	0	1	1	2	2
Miscellaneous	0	0	0	0	2	2	2
Number of Organisms	152	112	264	263	646	909	1173
Number of Families	13	13	14	17	16	20	21
Number of Taxa	7	7	8	12	9	11	11
Biomass (g)	3.62	4.09	7.71	4.25	3.69	7.94	15.65

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.

Appendix 33. Stream benthos collected on 24 September 1975 in two zones (four stations) of Cole Hollow Creek.

Station	Zone 1*			Zone 2*			Grand
	1	2	Total	3	4	Total	Total
Caddis flies	43	32	75	58	513	571	646
Leptoceridae	1	0	1	6	472	478	479
Hydropsychidae	26	19	45	24	0	24	69
Psychomyiidae	3	2	5	15	16	31	36
Philopotamidae	0	10	10	7	11	18	28
Rhyacophilidae	13	1	14	3	11	14	28
Hydroptilidae	0	0	0	3	2	5	5
Limnephilidae	0	0	0	0	1	1	1
Mayflies	67	41	108	102	153	255	363
Baetidae	36	27	63	53	142	195	258
Heptageniidae	31	14	45	49	11	60	105
Dipterans	26	9	35	42	246	288	323
Chironomidae	19	2	21	32	222	254	275
Tipulidae	7	6	13	5	12	17	30
Rhagionidae	0	0	0	4	7	11	11
Anthomyiidae	0	0	0	0	2	2	2
Tabanidae	0	0	0	0	2	2	2
Ceratopogonidae	0	0	0	1	0	1	1
Dixidae	0	1	1	0	0	0	1
Simuliidae	0	0	0	0	1	1	1
Stoneflies	30	22	52	46	66	112	164
Perlodidae	4	2	6	18	53	71	77
Perlidae	25	18	43	2	0	2	45
Chloroperlidae	0	1	1	10	13	23	24
Peltoperlidae	0	1	1	16	0	16	17
Pteronarcidae	1	0	1	0	0	0	1
Beetles	1	1	2	10	0	10	12
Elmidae	0	1	1	10	0	10	11
Psephenidae	1	0	1	0	0	0	1
Worms	4	0	4	3	0	3	7
Snails, clams	0	0	0	7	0	7	7
Crayfish	2	1	3	2	0	2	5
Dragonflies	2	0	2	2	0	2	4
Gomphidae	2	0	2	2	0	2	4
Hellgrammites	0	0	0	2	0	2	2
Corydalidae	0	0	0	2	0	2	2
Leeches	0	0	0	1	1	2	2
Springtails	0	0	0	2	0	2	2
Miscellaneous	0	0	0	1	3	4	4
Number of Organisms	175	106	281	278	982	1260	1541
Number of Families	13	14	17	19	16	23	26
Number of Taxa	8	6	8	12	5	12	12
Biomass (g)	10.82	1.19	12.01	1.60	2.11	3.71	15.72

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.

Appendix 34. Numerical and occurrence percentages of stream benthos collected on 30 June and 2 July 1975 in two zones (four stations) of Cole Hollow Creek.

Organism	% Numerical			% Occurrence		
	Zone 1*	Zone 2*	Total	Zone 1*	Zone 2*	Total
Mayflies	56.9	50.0	54.0	100.0	100.0	100.0
Stoneflies	16.1	18.2	17.0	100.0	100.0	100.0
Caddis flies	9.7	14.9	11.9	100.0	100.0	100.0
Dipterans	5.9	12.5	8.7	100.0	100.0	100.0
Beetles	10.3	1.6	6.6	100.0	100.0	100.0
Crayfish	0.9	1.2	1.0	100.0	50.0	75.0
Bugs	0.0	0.4	0.2	0.0	50.0	25.0
Worms	0.3	0.0	0.2	50.0	0.0	25.0
Miscellaneous	0.0	1.2	1.0	0.0	50.0	25.0

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.

Appendix 35. Numerical and occurrence percentages of stream benthos collected on 25 July 1975 in two zones (four stations) of Cole Hollow Creek.

Organism	% Numerical			% Occurrence		
	Zone 1*	Zone 2*	Total	Zone 1*	Zone 2*	Total
Mayflies	36.3	25.8	32.2	100.0	100.0	100.0
Stoneflies	19.1	25.3	21.6	100.0	100.0	100.0
Caddis flies	19.9	17.7	19.0	100.0	100.0	100.0
Dipterans	11.3	21.2	15.3	100.0	100.0	100.0
Beetles	7.4	4.7	6.3	100.0	100.0	100.0
Crayfish	2.3	1.8	2.1	100.0	100.0	100.0
Worms	0.8	1.8	1.2	100.0	100.0	100.0
Dragonflies	0.4	1.8	0.9	50.0	100.0	66.7
Hellgrammites	1.2	0.0	0.7	100.0	0.0	66.7
Bugs	0.4	0.0	0.2	50.0	0.0	33.3
Leeches	0.4	0.0	0.2	50.0	0.0	33.3
Miscellaneous	0.4	0.0	0.2	50.0	0.0	33.3

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.

Appendix 36. Numerical and occurrence percentages of stream benthos collected on 27 and 29 August 1975 in two zones (four stations) of Cole Hollow Creek.

Organism	% Numerical			% Occurrence		
	Zone 1*	Zone 2*	Total	Zone 1*	Zone 2*	Total
Dipterans	16.3	48.3	41.1	100.0	100.0	100.0
Mayflies	26.5	18.1	20.0	100.0	100.0	100.0
Caddis flies	22.7	17.9	19.0	100.0	100.0	100.0
Stoneflies	17.4	9.2	11.1	100.0	100.0	100.0
Beetles	15.2	1.9	4.9	100.0	100.0	100.0
Water mites	0.0	2.1	1.6	0.0	50.0	25.0
Worms	0.4	1.1	0.9	50.0	100.0	75.0
Leeches	0.8	0.3	0.4	50.0	100.0	75.0
Crayfish	0.8	0.2	0.3	100.0	50.0	75.0
Hellgrammites	0.0	0.2	0.2	0.0	50.0	25.0
Snails, clams	0.0	0.2	0.2	0.0	100.0	50.0
Miscellaneous	0.0	0.2	0.2	0.0	50.0	25.0

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.

Appendix 37. Numerical and occurrence percentages of stream benthos collected on 24 September 1975 in two zones (four stations stations) of Cole Hollow Creek.

Organism	% Numerical			% Occurrence		
	Zone 1*	Zone 2*	Total	Zone 1*	Zone 2*	Total
Caddis flies	26.7	45.3	41.9	100.0	100.0	100.0
Mayflies	38.4	20.2	23.6	100.0	100.0	100.0
Dipterans	12.5	22.9	21.0	100.0	100.0	100.0
Stoneflies	18.5	8.9	10.6	100.0	100.0	100.0
Beetles	0.7	0.8	0.8	100.0	50.0	75.0
Worms	1.4	0.2	0.5	50.0	50.0	50.0
Snails, clams	0.0	0.6	0.5	0.0	50.0	25.0
Crayfish	1.1	0.2	0.3	100.0	50.0	75.0
Dragonflies	0.7	0.2	0.3	50.0	50.0	50.0
Hellgrammites	0.0	0.2	0.1	0.0	50.0	25.0
Leeches	0.0	0.2	0.1	0.0	100.0	50.0
Springtails	0.0	0.2	0.1	0.0	50.0	25.0
Miscellaneous	0.0	0.3	0.3	0.0	100.0	50.0

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.

Appendix 38. Mean and standard error of number of organisms, number of families, number of taxa, and biomass per sample of stream benthos collected on 30 June and 2 July 1975 in two zones (four stations) of Cole Hollow Creek.

Station	Zone 1*			Zone 2*			Grand Total
	1	2	Total	3	4	Total	
Mean Number of Organisms Per Sample	20	14	16	15	10	13	15
Standard Error	3.6	3.4	2.4	2.8	3.1	2.0	1.5
Mean Number of Families Per Sample	7	5	6	6	5	5	6
Standard Error	0.7	0.7	0.5	0.5	0.5	0.4	0.3
Mean Number of Taxa Per Sample	5	4	4	4	4	4	4
Standard Error	0.4	0.4	0.3	0.2	0.4	0.2	0.2
Mean Biomass (g) Per Sample	0.43	0.16	0.30	0.99	0.26	0.66	0.46
Standard Error	0.16	0.06	0.09	0.22	0.09	0.13	0.09

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.

Appendix 39. Mean and standard error of number of organisms, number of fmailies, number of taxa, and biomass per sample of stream benthos collected on 25 July 1975 in two zones (three stations) of Cole Hollow Creek.

Station	Zone 1*			Zone 2*		Grand Total
	1	2	Total	3	Total	
Mean Number of Organisms Per Sample	15	10	13	17	17	14
Standard Error	2.4	1.5	1.5	2.7	2.7	1.4
Mean Number of Families Per Sample	6	6	6	8	8	6
Standard Error	0.5	0.8	0.5	0.6	0.6	0.4
Mean Number of Taxa Per Sample	4	4	4	5	5	4
Standard Error	0.3	0.4	0.3	0.3	0.3	0.2
Mean Biomass (g) Per Sample	1.01	0.28	0.64	0.82	0.82	0.70
Standard Error	0.51	0.09	0.27	0.25	0.25	0.20

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.

Appendix 40. Mean and standard error of number of organisms, number of families, number of taxa, and biomass per sample of stream benthos collected on 27 and 29 August 1975 in two zones (four stations) of Cole Hollow Creek.

Station	Zone 1*			Zone 2*			Grand Total
	1	2	Total	3	4	Total	
Mean Number of Organisms Per Sample	15	11	13	27	65	46	29
Standard Error	2.3	1.9	1.5	4.3	12.4	7.8	4.7
Mean Number of Families Per Sample	6	6	6	8	7	7	7
Standard Error	0.6	0.4	0.4	0.5	0.6	0.4	0.3
Mean Number of Taxa Per Sample	5	4	4	6	5	5	5
Standard Error	0.2	0.3	0.2	0.3	0.3	0.2	0.2
Mean Biomass (g) Per Sample	0.36	0.41	0.39	0.43	0.37	0.40	0.39
Standard Error	0.09	0.25	0.13	0.19	0.13	0.11	0.08

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.

Appendix 41. Mean and standard error of number of organisms, number of families, number of taxa, and biomass per sample of stream benthos collected on 24 September 1975 in two zones (four stations) of Cole Hollow Creek.

Station	Zone 1*			Zone 2*			Grand Total
	1	2	Total	3	4	Total	
Mean Number of Organisms Per Sample	18	11	14	28	98	63	39
Standard Error	2.2	1.5	1.5	3.6	16.4	11.5	6.9
Mean Number of Families Per Sample	6	5	6	9	9	9	7
Standard Error	0.4	0.4	0.3	0.9	0.4	0.5	0.4
Mean Number of Taxa Per Sample	5	3	4	5	5	5	5
Standard Error	0.3	0.2	0.2	0.4	0.2	0.2	0.2
Mean Biomass (g) Per Sample	1.08	0.12	0.60	0.16	0.21	0.19	0.39
Standard Error	0.60	0.03	0.31	0.06	0.03	0.04	0.16

* Zone 1 = Along proposed access road to proposed Breakabeen Upper Reservoir.
Zone 2 = Above proposed access road to proposed Breakabeen Upper Reservoir.