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STUDIES OF THE AQUATIC ECOLOGY AND WATER QUALITY OF THE PRATTSVILLE PUMPED STORAGE SITE (SCHOHARIE RESERVOIR, SCHOHARIE CREEK, SHANDAKEN TUNNEL, AND ESOPUS CREEK AND OF THE BLENHEIM-GILBOA PUMPED STORAGE RESERVOIRS

Field Report for the Period 1 January-31 December 1981

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A FISHERIES INVESTIGATION OF THE LOWER AND UPPER BLENHEIM-GILBOA RESERVOIRS AND SCHOHARIE RESERVOIR

Introduction

Fish sampling was conducted by Ichthyological Associates, Inc. (IA), in October 1981 in Lower and Upper Blenheim-Gilboa (B-G) reservoirs and Schoharie Reservoir to determine the variety, abundance, and distribution of fishes present.

Materials and Methods

Fishes were sampled in Lower and Upper B-G and Schoharie Reservoir by experimental gill net and boat electrofishing, in Upper B-G and Schoharie Reservoir by seine net, and in Schoharie Reservoir by trap net. Total length of time nets were set was recorded to the nearest hour.

Fish collected were identified to species by IA personnel according to Hubbs and Lagler (1970) and returned alive at the location of capture. All fish collected were measured (total length to nearest 1 mm) and weighed (nearest 1 g wet weight for fish $\leq$1000g and nearest 28 g for fish $>$1000 g; all weights were reported in kilograms).

Experimental Gill Net

Experimental gill nets were set for 22 hours each at four stations on 14 and 15 October 1981 in Lower B-G, for 21 to 22 hours each at four stations on 13 and 14 October 1981 in Upper B-G, and for 23 to 24 hours each at four stations on 8 and 9 October 1981 in Schoharie Reservoir (Maps 1-3). Two sizes of monofilament nets were used. One was 76.2 m long and 1.8 m high, with 15.2-m panels of square mesh sizes 4.4, 5.1, 5.7, 6.4,

and 7.6 cm. The other was 91.4 m long and 2.4 m high, with 15.2-m panels of square mesh sizes 2.5, 3.8, 4.4, 5.1, 5.7, and 6.4 cm. The nets had a lead-core bottom line and a floating top line to keep them upright. Nets were set on the bottom with the small mesh inshore. One of the larger gill nets was set at station L-1 and L-4 on Lower B-G, U-1 and U-4 on Upper B-G, and S-1 and S-2 on Schoharie Reservoir; and one of the smaller gill nets was set at station L-2 and L-3 on Lower B-G, U-2 and U-3 on Upper B-G, and S-3 and S-4 on Schoharie Reservoir.

Boat Electrofishing

Boat electrofishing was conducted during the night at five stations on Lower B-G on 20 October 1981, at six stations on Upper B-G on 21 October 1981, and at eight stations on Schoharie Reservoir on 22 October 1981 (Maps 4-6).

The electrofishing unit consisted of a 4.5-kw generator (Onan Company, Minneapolis, Minnesota) and a variable voltage pulsator (Power Control Corporation, Pittsburgh, Pennsylvania). The equipment was carried in a 6.1-m flat-bottomed Polar Kraft aluminum boat powered by two outboard motors (15-hp and 40-hp).

The front deck, which accommodated two operators, was surrounded by safety railing to facilitate the collecting operation. Two safety on-off foot switches, bow and stern, had to be activated before the system could be energized.

Pulsed direct current (130-180 pulses per second, 350 v, 2-4 amp) was used, which caused fish near the anodes to exhibit forced swimming toward the anodes (electrotaxis). The anode array consisted of two 0.9-m

aluminum rings supported by 5-m booms with 15 "dropper" electrodes suspended from each ring. The dropper electrodes were 15-cm lengths of copper tubing supported by copper wire connected to the rings by alligator clips. Five 0.9-m cathodes of 3-cm diameter greenfield conduit were suspended from each side of the boat.

A single pass was made at each station. The fish were netted by two IA personnel in the bow and placed in water-filled containers until processed.

Seine Net

A nylon bag seine (10.7 m by 1.2 m by 0.6-cm square mesh, bag 1.2 m by 1.2 m by 1.2 m) treated with tar for preservation was used. The net was hauled parallel to shore once at six stations on Upper B-G on 16 October 1981 and once at eight stations on Schoharie Reservoir on 8 and 14 October 1981 (Maps 7 and 8).

Trap Net

Nylon trap nets (0.91 m by 1.83 m by 0.76 m box, 0.91 m by 15.24 m wings, 0.91 m by 22.86 m lead; 6.5 mm square mesh) treated with tar for preservation were used. Nets were set perpendicular to shore (when water depth equaled approximately 2 ft) at eight stations on Schoharie Reservoir on 13 and 14 October 1981 (Map 9).

Results

Experimental Gill Net

Lower B-G. Six species (n = 18) were captured on 14 and 15 October 1981 in 88 hours of sampling (Table 1). White sucker (n = 7) and yellow perch (6) were most abundant; and white sucker (4.112 kg) and walleye (2.382 kg) comprised the greatest biomass. Most white sucker (n = 5) were caught at

the southern end of the reservoir (station L-1) and most yellow perch (4) at the northern end (station L-4).

Upper B-G. Ten species (n = 53) were captured on 13 and 14 November 1981 in 86 hours of sampling (Table 2). Walleye (n = 20), smallmouth bass (7), and carp (7) were most abundant; walleye (14.973 kg), carp (12.758 kg), and white sucker (3.928 kg) comprised the greatest biomass. Most walleye (n = 13) were captured along the south dike (station U-1).

Schoharie Reservoir. Eight species (n = 75) were collected on 8 and 9 October 1981 in 95 hours of sampling (Table 3). Walleye, cisco and white sucker were numerically most abundant (n = 35, 19, and 11, respectively) and comprised the greatest biomass (16.773 kg, 18.055 kg, and 11.526 kg, respectively). Most individuals were captured mid-reservoir (stations S-1 and S-2) in water ranging in depth from 4 to 11 m.

Boat Electrofishing

Lower B-G. Ten species (n = 93) were captured in 90 minutes of sampling on 20 October 1981 at five stations (Table 4). Yellow perch (n = 46) and white sucker (22) were most abundant and comprised the greatest biomass (2.706 kg and 12.197 kg, respectively). All yellow perch were captured along the northwest shore (station L-4) and most white sucker (13) along the north shore of Mine Kill Cove in lower B-G (station L-2).

Upper B-G. Twelve species (n = 365) were captured in 120 minutes of sampling on 21 October 1981 at six stations (Table 5). Yellow perch (n = 231), rock bass (67), walleye (26), and smallmouth bass (21) were most abundant and comprised the greatest biomass (2.025 kg, 1.815 kg, 1.021 kg, and 0.507 kg,

respectively). Except for tessellated darter (n = 3), logperch (2), and cutlips minnow (1), all species captured were either game fish (walleye, smallmouth bass, brown trout, and rainbow trout) or pan fish (yellow perch, rock bass, pumpkinseed, green sunfish, and bluegill). Most individuals were collected at stations U-1 (n = 139) and U-2 (130) located along the "natural" shoreline near the CLPs.

Schoharie Reservoir. Thirteen species (n = 168) were captured in 130 minutes of sampling on 22 October 1981 at eight stations (Table 6). Minnows (spottail shiner (n = 80), satinfin shiner (17), and silvery minnow (13)) and white sucker (19) were most abundant; white sucker (17.402 kg) and carp (8.902 kg) comprised the greatest biomass. Most individuals were captured along the western shore in the "big bay" area (stations S-2 and S-3) and along the eastern shore across from the Shandaken Tunnel Intake (station S-8).

Seine Net

Upper B-G. Nine golden shiner and one tessellated darter were captured in 595 ft sampled at six stations on 16 October 1981 (Table 7).

Schoharie Reservoir. On 8 and 14 October 1981 seven species (n = 16) were collected in 950 ft sampled at eight stations (Table 8). Tessellated darter (n = 6) and spottail shiner (3) were most abundant.

Trap Net

Schoharie Reservoir. At eight stations on 13 and 14 October 1981, twelve species (n = 268) were collected in 164 hours sampled (Table 9). *Lepomis* spp. (n = 153), spottail shiner (39), yellow perch (34), and white sucker (18) were most

abundant; and white sucker (16.012 kg) and walleye (1.304 kg) comprised the greatest biomass. Most individuals were captured along the eastern shore across from the Shandaken Tunnel Intake (stations S-4 and S-7).

Combined Methods

Lower B-G. Thirteen species (n = 111) were collected by experimental gill net and boat electrofishing (Table 10). Yellow perch (n = 52, 46.8%) and white sucker (29, 26.1%) were most abundant and comprised the greatest biomass (3.596 kg, 12.4% and 16.309 kg, 56.4%, respectively). Game fish species collected were smallmouth bass (n = 6), rainbow trout (3), walleye (2), brown trout (1), and cisco (1). Pan fish species present in the catch were yellow perch (n = 52), rock bass (4), and pumpkinseed (2).

Upper B-G. Seventeen species (n = 428) were collected by experimental gill net, boat electrofishing, and seine net (Table 10). Yellow perch (n = 234, 54.7%) was most abundant, followed by rock bass (70, 16.4%), walleye (46, 10.7%), and smallmouth bass (28. 6.5%). Walleye (15.994 kg, 34.7%) and carp (12.758 kg, 27.7%) comprised the greatest biomass. Game fish species collected were walleye (n = 46), smallmouth bass (28), rainbow trout (3), cisco (3), and brown trout (2). Pan fish species captured were yellow perch (n = 234), rock bass (70), pumpkinseed (9), brown bullhead (1), bluegill (1), and green sunfish (1).

Schoharie Reservoir. Twenty-one species (n = 527) were collected by experimental gill net, boat electrofishing, seine net, and trap net (Table 10). Young *Lepomis* spp. (n = 161, 30.6%) were most abundant, followed by spottail shiner (122, 23.1%), yellow perch (49. 9.3%), white sucker (48, 9.1%), and walleye (39, 7.4%). White sucker (44.940 kg, 43.9%), walleye (18.247 kg,

17.8%), cisco (18.005 kg, 17.6%), and carp (14.600 kg, 14.3%) comprised 93.6% of the biomass collected. Game fish captured were walleye (n = 39), cisco (19), smallmouth bass (4), and largemouth bass (1). Pan fish captured were yellow perch (n = 49), rock bass (11), pumpkinseed (3), brown bullhead (3), and bluegill (1).

A CREEL CENSUS OF THE LOWER AND UPPER BLENHEIM-GILBOA RESERVOIRS

Introduction

A creel census was conducted by IA from 1 April through 30 September 1981 on Lower and Upper B-G to (1) determine resident and nonresident use and success and (2) evaluate the trout stocking program. Both shore and boat (no motors allowed on Upper B-G) fishing were permitted.

Materials and Methods

Lower and Upper B-G were surveyed on all weekend days and holidays and on two randomly selected weekdays each week from April through September (Table 11). On all days censused an instantaneous count of fisherman was conducted from shore three times daily (0800, 1200, 1600 hours) through April and four times daily (0800, 1200, 1600, 2000 hours) through 30 September (Fig. 1). The creel census agent began the instantaneous count at Lower B-G and then drove to Upper B-G. Between each instantaneous count, fishing parties were interviewed (Fig. 2). In addition, any time a fishing party was observed leaving they were interviewed. Fish harvested were measured (total length to the nearest 1 mm) and weighed (nearest 1 g for fish $\leq$1000 g and nearest 28 g for fish >1000 g; all weights were reported in kilograms).

Because of major differences between use and success, data were analyzed separately for weekend days and holidays vs. weekdays and for shore vs. boat fishing. Monthly estimates (April through September) of the total number of anglers using Lower and Upper B-G were determined as follows:

$$\frac{\text{Total \# Counted x Count Interval (4 hr)}}{\text{Time (hr) of Average Angler Trip}} \times \frac{\text{\# Days in Month}}{\text{\# Days Censused in Month}}$$

If completed trips were recorded for all parties interviewed, then estimates were not calculated and the actual number observed was reported.

Monthly estimates of the total number of hours fished by anglers were determined by multiplying the estimated total anglers by the time of average angler trip.

Monthly estimates of the total number of fish caught were determined by multiplying the estimated total hours fished by the actual fish caught per hour.

Results

Lower B-G

Nine fishes (n = 84) were harvested by 169 fishermen (93 parties) in 249 hours from April through September 1981 (Table 12). Rank by abundance was rainbow trout (n = 49, 58.3%), rock bass (10, 11.9%), yellow perch (8, 9.5%), white sucker (6, 7.1%), brown bullhead (5, 6.0%), smallmouth bass and fallfish (2 each, 2.4%), and carp and brown trout (1 each, 1.2%).

Of the 93 parties (169 anglers) interviewed, 11 parties (11.8%) were resident (residing within 10 mi of Lower B-G), and 82 parties (88.2%) were nonresident.

An estimated 828 fishermen (406 on weekdays and 422 on weekend days and holidays) fished an estimated 1340 hours (648 and 692, respectively)

from April through September (Table 13). They harvested an estimated 389 fish (221 rainbow trout, 45 yellow perch, 43 rock bass, 33 white sucker, 20 brown bullhead, 10 carp, 6 smallmouth bass, 6 fallfish and 5 brown trout) (Table 14).

The majority (46.0%) of fishing parties interviewed fished for trout; 39.0% for anything; 8.0% for bass; 4.0% for bullheads; and 1.0% each for walleye, pickerel, and perch (Table 15).

Most fishermen were interviewed in May (n = 72), followed by June (36), April (26), July (18), September (11), and August (6) (Tables 16-21). Catch per hour was 0.54, 0.28, 0.07, and 0.04 in May, April, June, and September, respectively, and 0.0 in July and August. The most rainbow trout (n = 39) were observed in May (Table 17).

Upper B-G

Eleven fishes (n = 279) were harvested by 1253 fishermen (568 parties) in 2642 hours from April through September 1981 (Table 22). Rank by abundance was rainbow trout (n = 231, 77.8%), pumpkinseed (11, 3.7%), walleye and rock bass (10 and 3.4%, each), yellow perch (9, 3.0%), brown bullhead (8, 2.7%), largemouth bass (6, 2.0%), brown trout and bluegill (4 and 1.3%, each), brook trout (3, 1.0%), and smallmouth bass (1, 0.3%).

Of the 568 parties interviewed, 117 parties (20.6%) were resident (residing within 10 mi of Upper B-G), and 451 parties (79.4%) were nonresident.

An estimated 2769 fishermen (1287 on weekdays and 1482 on weekend days and holidays) fished an estimated 6573 hours (3053 and 3523, respectively) from April through September (Table 23). They harvested an estimated

775 fish (590 rainbow trout, 32 pumpkinseed, 24 each yellow perch and rock bass, 21 each walleye and largemouth bass, 20 brown bullhead, 15 bluegill, 14 brook trout, 12 brown trout, and 2 smallmouth bass) (Table 24).

The majority (47.6%) of fishing parties interviewed fished for trout, 41.1% for anything, 5.5% for walleye, 4.0% for bass, 1.3% for bullheads, 0.3% for yellow perch, and 0.2% for carp (Table 25).

Most fishermen were interviewed in May (n = 310), followed by July (232), April (212), August (203), June (174), and September (119) (Tables 26-31). Catch per hour was 0.19, 0.16, and 0.10 in September, May, and August, respectively; 0.08 in April and July; and 0.05 in June. The most trout (n = 83 rainbow, 2 brown, and 1 brook trout) were observed in May and the least in June (15 rainbow trout and 1 brook trout).

FISHERY MANAGEMENT PROGRAMS FOR THE BLENHEIM-GILBOA RESERVOIRS

Introduction

A fishery management program developed by IA and the Power Authority of the State of New York to improve the fishery in the B-G reservoirs continued through 1981. During 1981 the following programs, also conducted in 1980, were continued:

1. Trout Stocking
2. Centrarchid Stocking
3. Management of Constant Level Ponds (CLPs)

Management Programs

Trout Stocking

Catch Rate. On 13 April 1981 IA stocked 2482, 9-inch rainbow trout (all marked with a left ventral fin clip and tagged with numbered Carlin tags) in Lower B-G.

Of 2482 tagged rainbow trout stocked, 302 (12.2%) tags were returned by anglers (Table 32). Seventeen were from fish caught in Schoharie Creek at the spillway pool, 3 from fish caught near the Lower B-G boat ramp, 228 from fish caught in Schoharie Creek at Nickerson Park, 40 from fish caught by Lower B-G fishermen, and 6 from fish caught by Upper B-G fishermen. Eight tags were collected from fish caught in miscellaneous locations.

Ten tags (7 from rainbow trout and 3 from brown trout) were returned from fish stocked in 1980. All tags were returned at the Lower B-G spillway.

In Lower B-G first year return rate of stocked rainbow trout has been 7.4%, 8.7%, and 12.2% in 1979, 1980, and 1981, respectively (Culp et al 1980 and 1981).

Upper B-G was stocked on 13 April 1981 by IA with 3938, 9-inch rainbow trout (no fin clips but all tagged with numbered Carlin tags), 50 unmarked 15-inch rainbow trout, 50 unmarked 14-inch brook trout, and 50 unmarked 12-inch brown trout.

Of tagged rainbow trout stocked, 286 (7.3%) tags were returned by anglers (Table 32). One tag was recovered from the tag box at the Lower B-G spillway; three from the Lower B-G boat ramp; 19 from Nickerson Park; and 37, 76, and 32 from the Upper B-G north gate, south gate, and boat ramp, resepctively. In addition, 4 tags were collected from Lower B-G fishermen, 110 from Upper B-G fishermen, and 4 from miscellaneous

locations.

Five tags (4 from rainbow trout and 1 from a brown trout) were returned from fish stocked in 1980. One rainbow trout tag was returned at the Upper B-G south gate, and all others were returned at the Lower B-G spillway.

In Upper B-G first-year return rate of stocked rainbow trout has been 16.2%, 10.7%, and 7.4% in 1979, 1980, and 1981, respectively (Culp et al 1980 and 1981).

Growth. Tagged rainbow trout observed during the 1981 creel census or fish sampling on Lower and Upper B-G were measured (nearest 1 mm) and weighed (nearest 1 g), and their growth since stocking was determined (Table 33). Hatchery trout typically lose weight when taken from an artificial hatchery environment where conditions for survival and growth are maximized. Once hatchery trout enter their new environment, they must expend energy to find and compete with other fishes for a completely new and limited food supply and to avoid predators.

Before hatchery trout can begin to acclimate to their new environment, they must recover from "handling stress," which for trout stocked in Lower and Upper B-G involved transportation, measuring, weighing, clipping, and tagging.

Because most tagged rainbow trout stocked in 1981 were observed within a short time after stocking, no meaningful determination of growth can be made. Based on mean length (229 mm) and weight (129 g) of rainbow trout stocked on 13 April 1981 in upper B-G and the mean length (288 mm) and weight (233 g) of those captured in September, rainbow trout stocked in upper B-G grew approximately 60 mm (2 inches) and 100 g (3.5 oz) between April and the close of the trout fishing season in September.

Centrarchid Stocking

During May and August 1981 a total of 2581 largemouth bass was stocked in Upper B-G and the CLPs (Table 34). Largemouth bass stocked in Upper B-G were under the legal size limit (12 inches) and therefore will not enter the fishery until 1982 or 1983.

Management of CLPs

To promote natural reproduction of centrarchids, the CLPs were stocked with adult largemouth bass (n = 81) and pumpkinseed (136) (Table 34).

Chicken wire fencing (1-inch mesh) was installed around the CLPs at elevations 2001.5 ft and 2000.0 ft from 20 through 23 April to prevent escape of stocked centrarchids. Three brush piles were put into each of the CLPs on 28 April to provide fish cover and substrate for fish food production.

Observations of centrarchid spawning activity within the CLPs were made from 8 June through 13 August (Table 35). Spawning activity (active centrarchid nests observed) began on 15 June and continued through 19 August. Fry were first observed on 30 June. Spawning success (number of schools of newly emerged fry observed) was greatest in the CLP at elevation 2002.4 ft. Spawning success was similar in CLPs at 2000.0 ft and 2001.5 ft.

In addition to largemouth bass and pumpkinseed, the CLPs produced numerous yellow perch, smallmouth bass, and minnows. By the end of the summer aquatic vegetation had become established in all of the CLPs.

SUMMARY OF WATER QUALITY DATA COLLECTED FROM FEBRUARY THROUGH NOVEMBER 1981 IN SCHOHARIE RESERVOIR, SCHOHARIE CREEK, ESOPUS CREEK, AND THE SHANDAKEN TUNNEL OUTLET (STO)

Introduction

Seven physical and chemical water quality parameters (turbidity (NTU), suspended residue, Secchi disc transparency, depth of euphotic zone, water temperature, hydrogen ion concentration (pH), and dissolved oxygen) and air temperature were measured by IA from February through November 1981. Water quality data were collected at three stations on Schoharie Reservoir, two stations on Schoharie Creek, four stations on Esopus Creek, and the STO.

Materials and Methods

Description and location of all water quality stations are given in Table 36 and shown on Maps 10 and 11. Water quality samples were taken in connection with unusual weather events (i.e., after excessive rainfall) and during ice-free conditions (Table 37). Water samples collected after excessive rainfall (≥1.00 inches in a 24-hour period) were taken one day after each occurrence. Stream and tributary stations were generally sampled once a week during ice-free conditions. Time of day at which samples were collected at each station depended upon personnel and equipment availability and weather conditions (Table 38).

Procedures used for water quality determinations are described in Table 39. APHA (1976) and EPA (1974) recommendations for sample analysis, preservation, handling time prior to analysis, and minimum sample volume were met.

Field thermometers were calibrated against a National Bureau of

Standards certified themometer (Fisher 75A-446 NBS 76). Thermistor thermometers (YSI Model 57) were read to the 0.1 C; mercury hand-held thermometers were read to the 1 C.

Daily elevation and rainfall data in Lower and Upper B-G were provided by Mr. J. M. Collyer, Resident Manager of the Blenheim-Gilboa Pumped Storage Project. Daily elevation of Schoharie Reservoir, discharge through the Shandaken Tunnel, and rainfall data from Schoharie Reservoir and the Schoharie and Esopus Creek watersheds were provided by New York City Department of Water Resources (NYCDWR). Daily, monthly, and yearly provisional mean discharge data at the United States Geological Survey (USGS) gaging stations on Schoharie Creek at Prattsville, Gilboa, and North Blenheim; the Mine Kill near North Blenheim; and Esopus Creek at Shandaken and Coldbrook were provided by USGS.

Results

Schoharie Reservoir

Turbidity ranged between 0.70 NTU at station 27 on 4 August at the surface and 60 NTU at station 27 on 12 May at the bottom (Table 40). Turbidity values were generally higher at stations 28 and 30 than at station 27 during April and early May. During the remainder of the sampling season, surface turbidity was generally similar at all stations and tended to increase with depth. The variation between surface and subsurface turbidity was most evident at station 30. Suspended residue ranged from 0.1 mg/l at station 30 on 14 and 21 July at 8 m and 4 m, respectively, to 123.2 mg/l at station 27 on 12 May at the bottom (Table 41). Except on 12 May and 18 August, when suspended residue was higher at at station 27, surface suspended residue tended to be similar at the south

(station 27) and north (station 30) end of the reservoir. Suspended residue tended to increase with depth, especially at station 30.

Mean yearly Secchi disc transparency and depth of euphotic zone were least at station 27 (254 cm and 547 cm, respectively) and Secchi disc transparency greatest at station 28 (300 cm) and depth of euphotic zone at station 30 (615 cm) (Tables 42 and 43). Except during April and October, monthly mean Secchi disc transparency and depth of euphotic zone tended to be least at station 27 and Secchi disc transparency greatest at station 28 and depth of euphotic zone at station 30. Secchi disc transparency and depth of euphotic zone varied most at station 27 and ranged between 25 cm and 800 cm, and 50 cm and 1160 cm, respectively.

Air temperature ranged from 3 C to 32 C and was dependent upon weather conditions and time of sampling (Table 44).

Water temperature was similar among stations (Table 45). At stations 28 and 30 a thermocline was present between 8 m and 10 m in June, 12 m and 14 m in July, 10 m and 12 m in August, and 6 m and 8 m in September.

Hydrogen ion concentration (pH) was similar at all stations and depths and generally neutral (7.0) (Table 46).

Dissolved oxygen concentration at the surface ranged from 0.4 ppm at station 30 on 23 June to 12.5 ppm at station 30 on 24 April (Table 47). Oxygen generally decreased with depth at stations 27 and 28. From 27 May through 13 October, dissolved oxygen concentration at station 30 at all depths was extremely low. Most recorded values were less than 5 ppm, the generally accepted minimum concentration required to maintain a varied fish fauna in good condition (EPA 1976 and McKee and Wolf, 1975).

Flow over Gilboa Dam occurred only from 21 through 28 February (Table 48). Maximum flow over Gilboa Dam in 1981 (6688 cfs) occurred on 21 February, compared to 15,965 cfs in 1980 on 22 March and 12,772 cfs in 1979 on 25 March. In 1981 Schoharie Reservoir reached a minimum elevation of 1071.18 ft on 21 and 22 January, compared to 1063.12 ft in 1980 on 10 October and 1094.66 ft in 1979 on 6 September (Table 49).

Daily elevation fluctuation in Lower B-G ranged from 6.1 ft to 37.4 ft ($\bar{x}$ = 18.3 ft) and in Upper B-G from 6.2 ft to 28.5 ft ($\bar{x}$ = 15.9 ft) (Table 50). Weekly elevation fluctuation in Lower B-G ranged from 23.2 ft to 38.5 ft ($\bar{x}$ = 32.4 ft) and from 17.4 ft to 36.0 ft ($\bar{x}$ = 28.0 ft) in Upper B-G (Table 51).

Schoharie Creek

Turbidity ranged from 1.0 NTU on 28 April to 140 NTU on 2 February at station 1 and from 0.5 NTU on 16 November to 90 NTU on 21 February at station 2 (Table 52). Suspended residue ranged from 0.1 mg/1 on 17 November to 309.2 mg/1 on 2 February at station 1 and from 0.2 mg/1 on 18 October to 97.5 mg/1 on 21 February at station 2 (Table 53). Air temperature varied from -10 C to 28 C, depending upon weather conditions and time of sampling (Table 54). Maximum instantaneous water temperature was 22 C on 13 and 20 July and 10 August at station 1 and 25 C on 10 August at station 2 (Table 55).

Except on 16 April, pH was higher at station 2 ($\bar{x}$ = 7.9) than at station 1 ($\bar{x}$ = 7.1) (Table 56).

Summary of daily discharge data (cfs) measured in 1981 at the USGS gaging stations on Schoharie Creek at Prattsville, Gilboa, and North

Blenheim, New York, and on the Mine Kill near North Blenheim, New York, is presented in Tables 57 through 60).

Esopus Creek and the STO

At station 21 (above the STO) turbidity ranged from 0.50 NTU on 21 September to 190 NTU on 2 February (Table 52). Turbidity at station 20 (STO) ranged from 1.2 NTU on 28 April to 70 NTU on 2 February. Below the STO turbidity ranged from 1.2 NTU at station 19 on 26 October with the Shandaken Tunnel closed to 270 NTU at station 31 on 2 February with the Shandaken Tunnel open.

Suspended residue ranged from 0.2 mg/l on 21 September to 316.7 mg/l on 2 February at station 21 and from 1.2 mg/l on 17 November to 2940.1 mg/l on 2 February at Station 20 (Table 53). Below the STO suspended residue ranged from 0.5 mg/l at station 31 on 14 October with the Shandaken Tunnel open to 494.9 mg/l at station 31 on 2 February with the Shandaken Tunnel open.

Air temperature along Esopus Creek at the sampling points varied from -9 C on 12 February to 30 C on 29 June (Table 54). Water temperature at station 21 ranged from 1 C on 2 and 12 February to 19 C on 29 June and 20 July (Table 55). At station 20 (STO) values ranged from 1 C on 2 February to 22 C on 17 August. Below the STO the lowest value recorded was 1 C at all stations on 2 and 12 February. The highest temperature below the STO was 22 C at all stations on 20 July and 10 August, at stations 31 and 37 on 29 June and 24 August, and at stations 19 and 31 on 17 August. Water temperature varied little among stations below the STO.

With the Shandaken Tunnel open mean yearly pH was 7.2 at all stations on Esopus Creek and 7.1 at the STO (Table 56). With the Shandaken Tunnel closed, mean yearly pH was 6.9 at stations 19 and 31 and 6.7 at station

37. Hydrogen ion concentration (pH) varied little among all stations on Esopus Creek.

Summary of daily discharge data (cfs) measured in 1981 in Esopus Creek at the USGS gaging stations at Shandaken and Coldbrook, New York, and the Shandaken Tunnel at Allaben, New York, is presented in Tables 61 through 63.

CONTINUOUS TEMPERATURE MONITORING IN 1981 IN SCHOHARIE CREEK, ESOPUS CREEK, AND THE SHANDAKEN TUNNEL OUTLET

Introduction

Continuous water temperature in Schoharie Creek, Esopus Creek, and the STO and continuous air temperature at the STO and Esopus Creek were monitored by IA from 7 May through 27 September 1981.

Materials and Methods

Water and air temperature were measured using seven-day recording (spring-wound) mercury capillary thermometers (Partlow Corporation). Stations are located on Map 12 and described in Table 64. Water temperature was measured on the stream bottom in flowing water; air temperature was measured in the shade. Calibration checks were generally made twice a week using a National Bureau of Standards-traceable thermometer.

In the lab hourly temperatures were read from the Partlow charts to the nearest 0.5 C. On days when calibration required correction greater than 1 C, data were not reported but were noted as "recorder malfunction". Data were reduced to yield daily mean, minimum, and maximum values

for each station.

Results

Schoharie Creek

Water temperature at station 1 ranged from 8.0 C on 7, 13, and 14 May to 25.0 C on 10 July and 4, 7, 9, 10, 11, and 14 August (Table 65). Mean water temperature values varied from 9.5 C on 13 May to 24.0 C on 10 August.

Esopus Creek and the STO

Water temperature at station 35 above the STO varied from 7.0 C on 9, 18, and 19 May to 23.0 C on 6 August (Table 65). Water temperature at the STO ranged from 10.5 C from 8 through 11 May to 22.0 C from 14 through 17 August. Values below the STO varied from 8.5 C at station 19 on 13 May, station 31 on 13 and 14 May, and station 37 on 7 May to 25.5 C at station 37 on 10 August.

During 1981 the mean water temperature above and below the STO was similar, reflecting the relatively low Schoharie Reservoir elevation during the spring and early summer and the resulting absence of hypolimnetic water near the Shandaken Tunnel inlet (Tables 45, 49, and 65).

Air temperature at the STO and Esopus Creek ranged from 1.0 C on 7 and 9 May to 33.5 C on 16 June and 9 July, and mean air temperature ranged from 8.0 C on 24 September to 29.5 C on 9 July (Table 66).

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Table 1. Fishes collected by experimental gill net in 88 hours on 14 and 15 October 1981 at four stations on Lower B-G.

Station	L-1					L-2					L-3				
Depth of Capture (m)	5.2-6.4					5.8-9.1					3.1-5.5				
Hours Fished	22					22					22				
Water Temperature (C)	14.5					14.5					14.5				
Species	#	#/hr	Length Range (mm)	Biomass (kg)	kg/hr	#	#/hr	Length Range (mm)	Biomass (kg)	kg/hr	#	#/hr	Length Range (mm)	Biomass (kg)	kg/hr
White sucker	5	0.23	339-425	3.004	0.137	1	0.05	446	0.644	0.029	1	0.05	347	0.464	0.021
Yellow perch	2	0.09	274-297	0.570	0.026	-	-	-	-	-	-	-	-	-	-
Walleye	-	-	-	-	-	-	-	-	-	-	1	0.05	507	1.361	0.062
Brown trout	-	-	-	-	-	1	0.05	412	0.644	0.029	-	-	-	-	-
Cisco	-	-	-	-	-	1	0.05	384	0.672	0.031	-	-	-	-	-
Rock bass	1	0.05	217	0.188	0.009	-	-	-	-	-	-	-	-	-	-
Total	8	0.36		3.762	0.171	3	0.14		1.960	0.089	2	0.09		1.825	0.083
Number of Fishes	3					3					2				

Station	L-4					L-1 through L-4				
Depth of Capture (m)	4.3-15.9					3.1-15.9				
Hours Fished	22					88				
Water Temperature (C)	14.5					14.5				
Species	#	#/hr	Length Range (mm)	Biomass (kg)	kg/hr	#	#/hr	Length Range (mm)	Biomass (kg)	kg/hr
White sucker	-	-	-	-	-	7	0.08	339-446	4.112	0.047
Yellow perch	4	0.18	176-206	0.320	0.015	6	0.07	176-297	0.890	0.010
Walleye	1	0.05	479	1.021	0.046	2	0.02	479-507	2.382	0.027
Brown trout	-	-	-	-	-	1	0.01	412	0.644	0.007
Cisco	-	-	-	-	-	1	0.01	384	0.672	0.008
Rock bass	-	-	-	-	-	1	0.01	217	0.188	0.002
Total	5	0.23		1.341	0.061	18	0.20		8.888	0.101
Number of Fishes	2					6				

Table 2. Fishes collected by experimental gill net in 86 hours on 13 and 14 October 1981 at four stations on Upper B-G.

Station	U-1					U-2					U-3				
Depth of Capture (m)	4.0-24.4					4.0-6.1					3.4-8.8				
Hours Fished	22					21					21				
Water Temperature (C)	15.0					15.0					15.0				
Species	#	#/hr	Length Range (mm)	Biomass (kg)	kg/hr	#	#/hr	Length Range (mm)	Biomass (kg)	kg/hr	#	#/hr	Length Range (mm)	Biomass (kg)	kg/hr
Walleye	13	0.59	352-464	8.057	0.366	4	0.19	421-502	3.643	0.173	3	0.14	366-570	3.273	0.156
Smallmouth bass	5	0.23	265-336	1.806	0.082	1	0.05	329	0.473	0.023	1	0.05	302	0.360	0.017
Carp	-	-	-	-	-	2	0.10	518-528	3.799	0.181	2	0.10	532-543	4.111	0.196
White sucker	1	0.05	407	0.802	0.036	3	0.14	366-393	2.006	0.096	2	0.10	335-400	1.120	0.053
Cisco	-	-	-	-	-	2	0.10	420-426	1.660	0.079	1	0.05	445	1.021	0.049
Yellow perch	3	0.14	192-224	0.288	0.013	-	-	-	-	-	-	-	-	-	-
Rock bass	3	0.14	196-234	0.569	0.026	-	-	-	-	-	-	-	-	-	-
Rainbow trout	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Brown trout	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Brown bullhead	1	0.05	335	0.500	0.023	-	-	-	-	-	-	-	-	-	-
Total	26	1.18		12.022	0.546	12	0.57		11.581	0.551	9	0.43		9.885	0.471
Number of Fishes	6					5					5				

Station	U-4					U-1 through U-4				
Depth of Capture (m)	3.1-8.8					3.1-24.4				
Hours Fished	22					86				
Water Temperature (C)	15.0					15.0				
Species	#	#/hr	Length Range (mm)	Biomass (kg)	kg/hr	#	#/hr	Length Range (mm)	Biomass (kg)	kg/hr
Walleye	-	-	-	-	-	20	0.23	352-570	14.973	0.174
Smallmouth bass	-	-	-	-	-	7	0.08	265-336	2.639	0.031
Carp	3	0.14	490-510	4.848	0.220	7	0.08	490-543	12.758	0.148
White sucker	-	-	-	-	-	6	0.07	335-407	3.928	0.046
Cisco	-	-	-	-	-	3	0.03	420-445	2.681	0.031
Yellow perch	-	-	-	-	-	3	0.03	192-224	0.288	0.003
Rock bass	-	-	-	-	-	3	0.03	196-234	0.569	0.007
Rainbow trout	2	0.09	315-420	0.912	0.041	2	0.02	315-420	0.912	0.011
Brown trout	1	0.05	381	0.475	0.022	1	0.01	381	0.475	0.006
Brown bullhead	-	-	-	-	-	1	0.01	335	0.500	0.006
Total	6	0.27		6.235	0.283	53	0.62		39.723	0.462
Number of Fishes	3					10				

Table 3. Fishes collected by experimental gill net in 95 hours on 8 and 9 October 1981 at four stations on Schoharie Reservoir.*

Station	S-1					S-2					S-4				
Depth of Capture (m)	4.0-6.7					6.1-10.7					7.0-16.8				
Hours Fished	23					24					24				
Water Temperature (C)	11.0					12.0					12.0				
Species	#	#/hr	Length Range (mm)	Biomass (kg)	kg/hr	#	#/hr	Length Range (mm)	Biomass (kg)	kg/hr	#	#/hr	Length Range (mm)	Biomass (kg)	kg/hr
Walleye	18	0.78	333-447	8.763	0.381	11	0.46	235-410	4.876	0.203	6	0.25	358-395	3.134	0.131
Cisco	4	0.17	417-445	4.027	0.175	15	0.63	375-473	14.028	0.585	-	-	-	-	-
White sucker	6	0.26	342-516	5.714	0.248	4	0.17	445-508	4.536	0.189	1	0.04	520	1.276	0.053
Yellow perch	1	0.04	270	0.223	0.010	3	0.13	248-280	0.659	0.027	-	-	-	-	-
Golden shiner	-	-	-	-	-	3	0.13	198-250	0.408	0.017	-	-	-	-	-
Smallmouth bass	-	-	-	-	-	-	-	-	-	-	1	0.04	298	0.320	0.013
Rock bass	-	-	-	-	-	-	-	-	-	-	1	0.04	223	0.240	0.010
Carp	-	-	-	-	-	-	-	-	-	-	1	0.04	740	5.698	0.237
Total	29	1.26		18.727	0.814	36	1.50		24.507	1.021	10	0.42		10.668	0.445
Number of Fishes	4					5					5				

Station	S-1 through S-4				
Depth of Capture (m)	4.0-24.4				
Hours Fished	95				
Water Temperature (C)	11.0-12.0				
Species	#	#/hr	Length Range (mm)	Biomass (kg)	kg/hr
Walleye	35	0.37	235-447	16.773	0.177
Cisco	19	0.20	375-473	18.055	0.190
White sucker	11	0.12	346-520	11.526	0.121
Yellow perch	4	0.04	248-280	0.882	0.009
Golden shiner	3	0.03	198-250	0.408	0.004
Smallmouth bass	1	0.01	298	0.320	0.003
Rock bass	1	0.01	223	.240	0.003
Carp	1	0.01	740	5.698	0.060
Total	75	0.79		53.902	0.567
Number of Fishes	8				

* No fish were collected at station S-3 (water temperature 11.5 C, depth 18.3-24.4 m) in 24 hours.

Table 4. Fishes collected by boat electrofishing in 90 minutes on 20 October 1981 at five stations on Lower B-G.*

Station	L-1				L-2				L-3			
Minutes Fished	20				25				20			
Species	#	#/min	kg	kg/min	#	#/min	kg	kg/min	#	#/min	kg	kg/min
Yellow perch	-	-	-	-	-	-	-	-	-	-	-	-
White sucker	4	0.20	2.374	0.119	13	0.52	7.330	0.293	5	0.25	2.493	0.125
Smallmouth bass	4	0.20	0.918	0.046	1	0.04	0.311	0.012	-	-	-	-
Golden shiner	-	-	-	-	6	0.24	0.011	**	-	-	-	-
Rainbow trout	-	-	-	-	-	-	-	-	2	0.10	0.413	0.021
Rock bass	-	-	-	-	-	-	-	-	2	0.10	0.193	0.010
Pumpkinseed	-	-	-	-	-	-	-	-	-	-	-	-
Spottail shiner	-	-	-	-	-	-	-	-	1	0.05	0.002	**
Carp	-	-	-	-	1	0.04	1.077	0.043	1	0.05	1.134	0.057
Fallfish	-	-	-	-	1	0.04	0.222	0.009	-	-	-	-
Total	8	0.40	3.292	0.165	22	0.88	8.951	0.358	11	0.55	4.235	0.212
Number of Fishes	2				5				5			

Station	L-4				L-1 through L-5			
Minutes Fished	20				90			
Species	#	#/min	kg	kg/min	#	#/min	kg	kg/min
Yellow perch	46	2.30	2.706	0.135	46	0.51	2.706	0.030
White sucker	-	-	-	-	22	0.24	12.197	0.136
Smallmouth bass	1	0.05	0.244	0.012	6	0.07	1.473	0.016
Golden shiner	-	-	-	-	6	0.07	0.011	**
Rainbow trout	1	0.05	0.229	0.011	3	0.03	0.642	0.007
Rock bass	1	0.05	0.164	0.008	3	0.03	0.357	0.004
Pumpkinseed	2	0.10	0.196	0.010	2	0.02	0.196	0.002
Spottail shiner	1	0.05	0.006	**	2	0.02	0.008	**
Carp	-	-	-	-	2	0.02	2.211	0.025
Fallfish	-	-	-	-	1	0.01	0.222	0.002
Total	52	2.60	3.545	0.177	93	1.03	20.023	0.222
Number of Fishes	6				10			

* No fish collected at station L-5 in five minutes. Electrofishing was terminated because of high winds.
** <0.0005

Table 5. Fishes collected by boat electrofishing in 120 minutes on 21 October 1981 at six stations on Upper B-G.

Station	U-1				U-2				U-3				U-4			
Minutes Fished	30				20				20				20			
Species	#	#/min	kg	kg/min	#	#/min	kg	kg/min	#	#/min	kg	kg/min	#	#/min	kg	kg/min
Yellow perch	123	4.10	0.940	0.031	92	4.60	0.957	0.048	9	0.45	0.072	0.004	6	0.30	0.053	0.003
Rock bass	3	0.10	0.119	0.004	11	0.55	0.125	0.006	12	0.60	0.532	0.027	41	2.05	1.039	0.052
Walleye	9	0.30	0.615	0.021	14	0.70	0.343	0.017	1	0.05	0.012	0.001	2	0.10	0.051	0.003
Smallmouth bass	-	-	-	-	4	0.20	0.095	0.005	7	0.35	0.100	0.005	10	0.50	0.312	0.016
Pumpkinseed	-	-	-	-	8	0.40	0.170	0.009	1	0.05	0.010	0.001	-	-	-	-
Tessellated darter	3	0.10	0.004	*	-	-	-	-	-	-	-	-	-	-	-	-
Logperch	-	-	-	-	-	-	-	-	1	0.05	0.018	0.001	1	0.05	0.005	*
Green sunfish	-	-	-	-	-	-	-	-	1	0.05	0.016	0.001	-	-	-	-
Brown trout	1	0.03	0.484	0.016	-	-	-	-	-	-	-	-	-	-	-	-
Rainbow trout	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill	-	-	-	-	-	-	-	-	-	-	-	-	1	0.05	0.016	0.001
Cutlips minnow	-	-	-	-	-	-	-	-	1	0.05	0.022	0.001	-	-	-	-
Lepomis spp.	-	-	-	-	1	0.05	0.010	0.001	-	-	-	-	-	-	-	-
Total	139	4.63	2.162	0.072	130	6.50	1.700	0.085	33	1.65	0.782	0.039	61	3.05	1.476	0.074
Number of Fishes	5				5				8				6			

Station	U-5				U-6				U-1 through U-6			
Minutes Fished	15				15				120			
Species	#	#/min	kg	kg/min	#	#/min	kg	kg/min	#	#/min	kg	kg/min
Yellow perch	1	0.07	0.003	*	-	-	-	-	231	1.93	2.025	0.017
Rock bass	-	-	-	-	-	-	-	-	67	0.56	1.815	0.015
Walleye	-	-	-	-	-	-	-	-	26	0.22	1.021	0.009
Smallmouth bass	-	-	-	-	-	-	-	-	21	0.18	0.507	0.004
Pumpkinseed	-	-	-	-	-	-	-	-	9	0.08	0.180	0.002
Tessellated darter	-	-	-	-	-	-	-	-	3	0.03	0.004	*
Logperch	-	-	-	-	-	-	-	-	2	0.02	0.023	*
Green sunfish	-	-	-	-	-	-	-	-	1	0.01	0.016	*
Brown trout	-	-	-	-	-	-	-	-	1	0.01	0.484	0.004
Rainbow trout	-	-	-	-	1	0.07	0.270	0.018	1	0.01	0.270	0.002
Bluegill	-	-	-	-	-	-	-	-	1	0.01	0.016	*
Cutlips minnow	-	-	-	-	-	-	-	-	1	0.01	0.022	*
Lepomis spp.	-	-	-	-	-	-	-	-	1	0.01	0.010	*
Total	1	0.07	0.003	*	1	0.07	0.270	0.018	365	3.04	6.393	0.053
Number of Fishes	1				1				12			

* <0.0005

Table 6. Fishes collected by boat electrofishing in 130 minutes on 22 October 1981 at eight stations on Schoharie Reservior.

Station	S-1				S-2				S-3			
Minutes Fished	20				15				20			
Species	#	#/min	kg	kg/min	#	#/min	kg	kg/min	#	#/min	kg	kg/min
Spottail shiner	-	-	-	-	10	0.67	0.022	0.001	28	1.40	0.126	0.006
White sucker	3	0.15	2.672	0.134	-	-	-	-	-	-	-	-
Satinfin shiner	-	-	-	-	15	1.00	0.019	0.001	-	-	-	-
Silvery minnow	-	-	-	-	-	-	-	-	2	0.10	0.008	*
Yellow perch	-	-	-	-	3	0.20	0.012	0.001	1	0.05	0.010	0.001
Golden shiner	1	0.05	0.002	*	-	-	-	-	2	0.10	0.142	0.007
Walleye	1	0.05	0.110	0.006	-	-	-	-	-	-	-	-
Smallmouth bass	-	-	-	-	1	0.07	0.010	0.001	-	-	-	-
Brown bullhead	-	-	-	-	-	-	-	-	-	-	-	-
Rock bass	-	-	-	-	2	0.13	0.002	*	-	-	-	-
Carp	-	-	-	-	-	-	-	-	2	0.10	8.902	0.445
Largemouth bass	-	-	-	-	-	-	-	-	1	0.05	0.018	0.001
Tessellated darter	-	-	-	-	-	-	-	-	-	-	-	-
Lepomis spp.	-	-	-	-	-	-	-	-	4	0.20	0.004	*
Total	5	0.25	2.784	0.139	31	2.07	0.065	0.004	40	2.00	9.210	0.461
Number of Fishes	3				5				6			

Station	S-4				S-5				S-6			
Minutes Fished	15				15				15			
Species	#	#/min	kg	kg/min	#	#/min	kg	kg/min	#	#/min	kg	kg/min
Spottail shiner	-	-	-	-	-	-	-	-	8	0.53	0.026	0.002
White sucker	2	0.13	2.037	0.136	9	0.60	9.528	0.635	1	0.07	1.361	0.091
Satinfin shiner	-	-	-	-	-	-	-	-	-	-	-	-
Silvery minnow	-	-	-	-	1	0.07	0.004	*	2	0.13	0.006	*
Yellow perch	2	0.13	0.016	0.001	4	0.27	0.016	0.001	1	0.07	0.004	*
Golden shiner	1	0.07	0.002	*	-	-	-	-	-	-	-	-
Walleye	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass	-	-	-	-	-	-	-	-	-	-	-	-
Brown bullhead	2	0.13	1.180	0.079	1	0.07	0.520	0.035	-	-	-	-
Rock bass	1	0.07	0.001	*	-	-	-	-	-	-	-	-
Carp	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass	-	-	-	-	-	-	-	-	-	-	-	-
Tessellated darter	-	-	-	-	-	-	-	-	-	-	-	-
Lepomis spp.	2	0.13	0.002	*	1	0.07	0.002	*	1	0.07	0.003	*
Total	10	0.67	3.238	0.216	16	1.07	10.070	0.671	13	0.87	1.400	0.093
Number of Fishes	5				4				4			

<0.0005

Table 6 - (Continued).

Station	S-7				S-8				S-1 through S-8			
Minutes Fished	15				15				130			
Species	#	#/min	kg	kg/min	#	#/min	kg	kg/min	#	#/min	kg	kg/min
Spottail shiner	7	0.47	0.048	0.003	27	1.80	0.241	0.016	80	0.62	0.463	0.004
White sucker	1	0.07	0.760	0.051	3	0.20	1.044	0.070	19	0.15	17.402	0.134
Satinfin shiner	2	0.13	0.004	*	-	-	-	-	17	0.13	0.023	*
Silvery minnow	3	0.20	0.013	0.001	5	0.33	0.029	0.002	13	0.10	0.060	*
Yellow perch	-	-	-	-	-	-	-	-	11	0.08	0.058	*
Golden shiner	-	-	-	-	-	-	-	-	4	0.03	0.146	0.001
Walleye	2	0.13	0.060	0.004	-	-	-	-	3	0.02	0.170	0.001
Smallmouth bass	1	0.07	0.011	0.001	1	0.07	0.330	0.022	3	0.02	0.351	0.003
Brown bullhead	-	-	-	-	-	-	-	-	3	0.02	1.700	0.013
Rock bass	-	-	-	-	-	-	-	-	3	0.02	0.003	*
Carp	-	-	-	-	-	-	-	-	2	0.02	8.902	0.068
Largemouth bass	-	-	-	-	-	-	-	-	1	0.01	0.018	*
Tessellated darter	-	-	-	-	1	0.07	0.001	*	1	0.01	0.001	*
Lepomis spp.	-	-	-	-	-	-	-	-	8	0.06	0.011	*
Total	16	1.07	0.896	0.060	37	2.47	1.645	0.110	168	1.29	29.308	0.225
Number of Fishes	6				5				13			

Table 7. Fishes collected by seine net in 595 ft sampled on 16 October 1981 in Upper B-G.*

Station	U-3			U-4			U-1 through U-6		
Water Temperature (C)	15.0			15.0			14.5-15.0		
Length of Sample (ft)	120			100			595		
Species	#	Size Range (mm)	Catch/ 100 ft	#	Size Range (mm)	Catch/ 100 ft	#	Size Range (mm)	Catch/ 100 ft
Golden shiner	9	41-56	7.50	-	-	-	9	41-56	1.51
Tessellated darter	-	-	-	1	44	1.00	1	44	0.17
Total	9		7.50	1		1.00	10		1.68
Number of Fishes	1			1			2		

* No fish were collected at Station U-1, U-2, U-5 or U-6 (water temperature 15.0 C, 15.0 C, 14.5 C, 14.5 C respectively and 100 ft, 100 ft, 100 ft, 75 ft sampled, respectively).

Table 8. Fishes collected by seine net in 950 ft sampled on 8 and 14 October 1981 in Schoharie Reservoir.

Station	S-1			S-3			S-4			S-5		
Water Temperature (C)	11.5			11.0			11.0			11.0		
Length of Sample (ft)	100			150			100			100		
Species	#	Size Range (mm)	Catch/ 100 ft	#	Size Range (mm)	Catch/ 100 ft	#	Size Range (mm)	Catch/ 100 ft	#	Size Range (mm)	Catch/ 100 ft
Tessellated darter	-	-	-	-	-	-	1	50	1.00	1	50	1.00
Spottail shiner	-	-	-	-	-	-	-	-	-	1	40	1.00
Blacknose dace	2	60-65	2.00	-	-	-	-	-	-	-	-	-
Rosyface shiner	2	30	2.00	-	-	-	-	-	-	-	-	-
Golden shiner	-	-	-	-	-	-	-	-	-	1	49	1.00
Fallfish	-	-	-	1	28	0.67	-	-	-	-	-	-
Rock bass	-	-	-	-	-	-	-	-	-	-	-	-
Total	4		4.00	1		0.67	1		1.00	3		3.00
Number of Fishes	2			1			1			3		

Station	S-6			S-8			S-1 through S-8		
Water Temperature (C)	11.0			11.0			11.0-11.5		
Length of Sample (ft)	100			100			950		
Species	#	Size Range (mm)	Catch/ 100 ft	#	Size Range (mm)	Catch/ 100 ft	#	Size Range (mm)	Catch/ 100 ft
Tessellated darter	1	35	1.00	3	30-44	3.00	6	30-50	0.63
Spottail shiner	2	26-28	2.00	-	-	-	3	26-40	0.32
Blacknose dace	-	-	-	-	-	-	2	60-65	0.21
Rosyface shiner	-	-	-	-	-	-	2	30	0.21
Golden shiner	-	-	-	-	-	-	1	49	0.11
Fallfish	-	-	-	-	-	-	1	28	0.11
Rock bass	1	40	1.00	-	-	-	1	40	0.11
Total	4		4.00	3		3.00	16		1.68
Number of Fishes	3			1			7		

* No fish were collected at Station S-2 or S-7 (water temperature 11.5 C, 11.0 C, respectively and 200 ft, 100 ft sampled, respectively).

Table 9. Fishes collected by trap net in 164 hours on 13 and 14 October 1981 at eight stations on Schoharie Reservoir.

Station	S-1						S-2					
Depth of Box (m)	3.7						2.3					
Hours Fished	18						19					
Water Temperature (C)	10.0						10.0					
Species	#	%	Catch #/hr	Length Range (mm)	Biomass (kg)	kg/hr	#	%	Catch #/hr	Length Range (mm)	Biomass (kg)	kg/hr
Spottail shiner	-	-	-	-	-	-	-	-	-	-	-	-
Yellow perch	4	44.4	0.22	75-85	0.022	0.001	13	92.9	0.68	69-97	0.075	0.004
White sucker	-	-	-	-	-	-	-	-	-	-	-	-
Rock bass	-	-	-	-	-	-	-	-	-	-	-	-
Golden shiner	-	-	-	-	-	-	-	-	-	-	-	-
Tessellated darter	-	-	-	-	-	-	-	-	-	-	-	-
Pumpkinseed	-	-	-	-	-	-	1	7.1	0.05	50	0.002	*
Satinfin shiner	-	-	-	-	-	-	-	-	-	-	-	-
Walleye	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill	1	11.1	0.06	50	0.003	*	-	-	-	-	-	-
Common shiner	-	-	-	-	-	-	-	-	-	-	-	-
Longnose dace	-	-	-	-	-	-	-	-	-	-	-	-
Lepomis spp.	4	44.4	0.22	32-38	0.006	*	-	-	-	-	-	-
Total	9		0.50		0.031	0.002	14		0.74		0.077	0.004
Number of Fishes	2						2					

Station	S-3						S-4					
Depth of Box (m)	1.4						1.5					
Hours Fished	19						20					
Water Temperature (C)	10.0						11.0					
Species	#	%	Catch #/hr	Length Range (mm)	Biomass (kg)	kg/hr	#	%	Catch #/hr	Length Range (mm)	Biomass (kg)	kg/hr
Spottail shiner	4	15.4	0.21	40-95	0.008	*	1	1.0	0.05	62	0.001	*
Yellow perch	4	15.4	0.21	75-95	0.026	0.001	-	-	-	-	-	-
White sucker	-	-	-	-	-	-	6	5.9	0.30	360-490	5.057	0.253
Rock bass	2	7.7	0.11	30-34	0.001	*	-	-	-	-	-	-
Golden shiner	-	-	-	-	-	-	4	3.9	0.20	50-54	0.006	*
Tessellated darter	2	7.7	0.11	54-55	0.003	*	-	-	-	-	-	-
Pumpkinseed	-	-	-	-	-	-	1	1.0	0.05	187	0.164	0.008
Satinfin shiner	2	7.7	0.11	69-75	0.009	*	-	-	-	-	-	-
Walleye	-	-	-	-	-	-	1	1.0	0.05	552	1.304	0.065
Bluegill	-	-	-	-	-	-	-	-	-	-	-	-
Common shiner	-	-	-	-	-	-	-	-	-	-	-	-
Longnose dace	-	-	-	-	-	-	-	-	-	-	-	-
Lepomis spp.	12	46.2	0.63	30-39	0.004	*	89	87.3	4.45	30-45	0.042	0.002
Total	26		1.37		0.051	0.003	102		5.10		6.574	0.329
Number of Fishes	6						5					

Station	S-5						S-6					
Depth of Box (m)	1.5						1.8					
Hours Fished	21						23					
Water Temperature (C)	11.0						10.0					
Species	#	%	Catch #/hr	Length Range (mm)	Biomass (kg)	kg/hr	#	%	Catch #/hr	Length Range (mm)	Biomass (kg)	kg/hr
Spottail shiner	-	-	-	-	-	-	-	-	-	-	-	-
Yellow perch	-	-	-	-	-	-	3	37.5	0.13	80-87	0.015	0.001
White sucker	3	42.9	0.14	438-535	3.833	0.183	2	25.0	0.09	426-475	1.798	0.078
Rock bass	3	42.9	0.14	200-232	0.666	0.032	-	-	-	-	-	-
Golden shiner	-	-	-	-	-	-	-	-	-	-	-	-
Tessellated darter	-	-	-	-	-	-	-	-	-	-	-	-
Pumpkinseed	1	14.3	0.05	195	0.195	0.009	-	-	-	-	-	-
Satinfin shiner	-	-	-	-	-	-	-	-	-	-	-	-
Walleye	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill	-	-	-	-	-	-	-	-	-	-	-	-
Common shiner	-	-	-	-	-	-	-	-	-	-	-	-
Longnose dace	-	-	-	-	-	-	1	12.5	0.04	77	0.004	*
Lepomis spp.	-	-	-	-	-	-	2	25.0	0.09	27-29	0.002	*
Total	7		0.33		4.694	0.224	8		0.35		1.819	0.079
Number of Fishes	3						3					

* <0.0005

Table 9 - (Continued).

Station	S-7						S-8					
Depth of Box (m)	2.1						2.0					
Hours Fished	22						22					
Water Temperature (C)	11.0						11.0					
Species	#	%	Catch #/hr	Length Range (mm)	Biomass (kg)	kg/hr	#	%	Catch #/hr	Length Range (mm)	Biomass (kg)	kg/hr
Spottail shiner	34	34.7	1.55	50-113	0.104	0.005	-	-	-	-	-	-
Yellow perch	10	10.2	0.45	75-100	0.067	0.003	-	-	-	-	-	-
White sucker	6	6.1	0.27	370-490	4.554	0.207	1	25.0	0.05	415	0.770	0.035
Rock bass	-	-	-	-	-	-	1	25.0	0.05	193	0.160	0.007
Golden shiner	-	-	-	-	-	-	1	25.0	0.05	205	0.104	0.005
Tessellated darter	1	1.0	0.05	60	0.004	*	-	-	-	-	-	-
Pumpkinseed	-	-	-	-	-	-	1	25.0	0.05	199	0.180	0.008
Satinfin shiner	-	-	-	-	-	-	-	-	-	-	-	-
Walleye	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill	-	-	-	-	-	-	-	-	-	-	-	-
Common shiner	1	1.0	0.05	50	0.001	*	-	-	-	-	-	-
Longnose dace	-	-	-	-	-	-	-	-	-	-	-	-
Lepomis spp.	46	46.9	2.09	31-45	0.018	0.001	-	-	-	-	-	-
Total	98		4.45		4.748	0.216	4		0.18		1.214	0.055
Number of Fishes	5						4					

Station	S-1 through S-8					
Depth of Box (m)	1.4-3.7					
Hours Fished	164					
Water Temperature (C)	10.0-11.0					
Species	#	%	Catch #/hr	Length Range (mm)	Biomass (kg)	kg/hr
Spottail shiner	39	14.6	0.24	40-113	0.113	0.001
Yellow perch	34	12.7	0.21	69-100	0.205	0.001
White sucker	18	6.7	0.11	360-535	16.012	0.098
Rock bass	6	2.2	0.04	30-232	0.827	0.005
Golden shiner	5	1.9	0.03	50-205	0.110	0.001
Tessellated darter	4	1.5	0.02	50-60	0.009	*
Pumpkinseed	3	1.1	0.02	187-199	0.539	0.003
Satinfin shiner	2	0.7	0.01	69-75	0.009	*
Walleye	1	0.4	0.01	552	1.304	0.008
Bluegill	1	0.4	0.01	50	0.003	*
Common shiner	1	0.4	0.01	50	0.001	*
Longnose dace	1	0.4	0.01	77	0.004	*
Lepomis spp.	153	57.1	0.93	27-45	0.072	*
Total	268		1.63		19.208	0.117
Number of Fishes	12					

Table 10. Fishes collected during October 1981 by experimental gill net and boat electrofishing in Lower and Upper B-G and Schoharie Reservoir, by seine net in Upper B-G and Schoharie Reservoir, and by trap net in Schoharie Reservoir.

Species	Lower B-G				Upper B-G				Schoharie Reservoir			
	#	%	kg	%	#	%	kg	%	#	%	kg	%
Yellow perch	52	46.8	3.596	12.4	234	54.7	0.288	0.6	49	9.3	1.145	1.1
White sucker	29	26.1	16.309	56.4	6	1.4	5.953	12.9	48	9.1	44.940	43.9
Smallmouth bass	6	5.4	1.473	5.1	28	6.5	3.146	6.8	4	0.8	0.671	0.7
Golden shiner	6	5.4	0.011	0.1	9	2.1	-	-	13	2.5	0.664	0.6
Rock bass	4	3.6	0.545	1.9	70	16.4	2.384	5.2	11	2.1	1.070	1.0
Rainbow trout	3	2.7	0.642	2.2	3	0.7	1.182	2.6	-	-	-	-
Pumpkinseed	2	1.8	0.196	0.7	9	2.1	0.180	0.4	3	0.6	0.539	0.5
Carp	2	1.8	2.211	7.6	7	1.6	12.758	27.7	3	0.6	14.600	14.3
Walleye	2	1.8	2.382	8.2	46	10.7	15.994	34.7	39	7.4	18.247	17.8
Spottail shiner	2	1.8	0.008	0.1	-	-	-	-	122	23.1	0.576	0.6
Fallfish	1	0.9	0.222	0.8	-	-	-	-	1	0.2	-	-
Brown trout	1	0.9	0.644	2.2	2	0.5	0.959	2.1	-	-	-	-
Cisco	1	0.9	0.672	2.3	3	0.7	2.681	5.8	19	3.6	18.005	17.6
Blacknose dace	-	-	-	-	-	-	-	-	2	0.4	-	-
Logperch	-	-	-	-	2	0.5	0.023	0.1	-	-	-	-
Satinfin shiner	-	-	-	-	-	-	-	-	19	3.6	0.032	0.1
Cutlips minnow	-	-	-	-	1	0.2	0.022	0.1	-	-	-	-
Brown bullhead	-	-	-	-	1	0.2	0.500	1.1	3	0.6	1.700	1.7
Largemouth bass	-	-	-	-	-	-	-	-	1	0.2	0.018	0.1
Bluegill	-	-	-	-	1	0.2	0.016	0.1	1	0.2	0.003	0.1
Tessellated darter	-	-	-	-	4	0.9	0.004	0.1	11	2.1	0.010	0.1
Lepomis spp.	-	-	-	-	1	0.2	0.010	0.1	161	30.6	0.083	0.1
Silvery minnow	-	-	-	-	-	-	-	-	13	2.5	0.060	0.1
Green sunfish	-	-	-	-	1	0.2	0.016	0.1	-	-	-	-
Rosyface shiner	-	-	-	-	-	-	-	-	2	0.4	-	-
Common shiner	-	-	-	-	-	-	-	-	1	0.2	0.001	0.1
Longnose dace	-	-	-	-	-	-	-	-	1	0.2	0.004	0.1
Total	111		28.911		428		46.116		527		102.368	
Number of Fishes	13				17				21			

Table 11. Dates on which a creel census was conducted from April through September 1981 on Lower and Upper B-G.

Month	Weekdays	Weekend Days & Holidays
Apr	1 Wednesday	4 Saturday
	3 Friday	5 Sunday
	7 Tuesday	11 Saturday
	9 Thursday	12 Sunday
	15 Thursday	17 Saturday
	16 Friday	18 Sunday
	20 Tuesday	25 Saturday
	22 Thursday	26 Sunday
	27 Monday	
	28 Tuesday	
May	4 Monday	2 Saturday
	7 Thursday	3 Sunday
	12 Tuesday	9 Saturday
	15 Friday	10 Sunday
	18 Monday	16 Saturday
	22 Friday	17 Sunday
	26 Tuesday	23 Saturday
	27 Wednesday	24 Sunday
		25 Monday
		30 Saturday
		31 Sunday
Jun	3 Wednesday	6 Saturday
	5 Friday	7 Sunday
	10 Wednesday	13 Saturday
	12 Friday	14 Sunday
	16 Tuesday	20 Saturday
	19 Friday	21 Sunday
	22 Monday	27 Saturday
	24 Wednesday	28 Sunday
	30 Tuesday	
Jul	1 Wednesday	3 Friday
	6 Monday	4 Saturday
	10 Friday	5 Sunday
	13 Monday	11 Saturday
	16 Thursday	12 Sunday
	21 Tuesday	18 Saturday
	23 Thursday	19 Sunday
	28 Tuesday	25 Saturday
	29 Wednesday	26 Sunday
Aug	4 Tuesday	1 Saturday
	5 Wednesday	2 Sunday
	11 Tuesday	8 Saturday
	13 Thursday	9 Sunday
	17 Monday	15 Saturday
	18 Tuesday	16 Sunday
	24 Monday	22 Saturday
	28 Friday	23 Sunday
		29 Saturday
		30 Sunday
Sep	1 Monday	5 Saturday
	3 Wednesday	6 Sunday
	8 Tuesday	7 Monday
	9 Wednesday	12 Saturday
	14 Monday	13 Sunday
	17 Thursday	19 Saturday
	22 Tuesday	20 Sunday
	25 Friday	26 Saturday
	29 Tuesday	27 Sunday
	30 Wednesday	

Table 12. Creel census data collected from April through September 1981 on Lower B-G.

	Weekdays									Weekend Days and Holidays								
	Shore			Boat			Total			Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:																		
Resident	7	14.6		0	0.0		7	13.2		8	7.1		0	0.0		8	6.9	
Nonresident	41	85.4		5	100		46	86.8		104	92.9		4	100		108	93.1	
Total	48			5			53			112			4			116		
Parties Interviewed:																		
Resident	6	18.2		0	0.0		6	17.1		5	8.9		0	0.0		5	8.6	
Nonresident	27	81.8		2	100		29	82.9		51	91.1		2	100		53	91.4	
Total	33			2			35			56			2			58		
Fish Caugth:																		
Rainbow trout	8	47.1	0.13	-	-	-	8	47.1	0.12	41	67.2	0.23	-	-	-	41	61.2	0.22
Rock bass	2	11.8	0.03	-	-	-	2	11.8	0.03	8	13.1	0.05	-	-	-	8	11.9	0.04
Yellow perch	3	17.6	0.05	-	-	-	3	17.6	0.05	4	6.6	0.02	1	16.7	0.11	5	7.5	0.03
White sucker	3	17.6	0.05	-	-	-	3	17.6	0.05	3	4.9	0.02	-	-	-	3	4.5	0.02
Brown bullhead	-	-	-	-	-	-	-	-	-	-	-	-	5	83.3	0.56	5	7.5	0.03
Smallmouth bass	-	-	-	-	-	-	-	-	-	2	3.3	0.01	-	-	-	2	3.0	0.01
Fallfish	-	-	-	-	-	-	-	-	-	2	3.3	0.01	-	-	-	2	3.0	0.01
Brown trout	-	-	-	-	-	-	-	-	-	1	1.6	0.01	-	-	-	1	1.5	0.01
Carp	1	5.9	0.02	-	-	-	1	5.9	0.02	-	-	-	-	-	-	-	-	-
Total	17			-	-	-	17			61			6			67		
Per hour			0.29						0.27			0.35			0.67			0.36
Hours Fished:																		
Total	60			5			65			175			9			184		

	Grand Total								
	Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:									
Resident	15	9.4		0	0.0		15	8.9	
Nonresident	145	90.6		9	100		154	91.1	
Total	160			9			169		
Parties Interviewed:									
Resident	11	12.4		0	0.0		11	11.8	
Nonresident	78	87.6		4	100		82	88.2	
Total	89			4			93		
Fish Caught:									
Rainbow trout	49	62.8	0.21	-	-	-	49	58.3	0.20
Rock bass	10	12.8	0.04	-	-	-	10	11.9	0.04
Yellow perch	7	9.0	0.03	1	16.7	0.07	8	9.5	0.03
White sucker	6	7.7	0.03	-	-	-	6	7.1	0.02
Brown bullhead	-	-	-	5	83.3	0.36	5	6.0	0.02
Smallmouth bass	2	2.6	0.01	-	-	-	2	2.4	0.01
Fallfish	2	2.6	0.01	-	-	-	2	2.4	0.01
Brown trout	1	1.3	*	-	-	-	1	1.2	*
Carp	1	1.3	*	-	-	-	1	1.2	*
Total	78			6			84		
Per hour			0.33			0.43			0.34
Hours Fished									
Total	235			14			249		

* <0.005

Table 13. Estimated angler use from 1 April through 30 September 1981 on Lower B-G.

Month	Estimated Number of Anglers									Estimated Number of Hours Fished								
	Weekdays			Weekend Days and Holidays			Grand Total			Weekdays			Weekend Days and Holidays			Grand Total		
	Shore	Boat	Total	Shore	Boat	Total	Shore	Boat	Total	Shore	Boat	Total	Shore	Boat	Total	Shore	Boat	Total
Apr	55	*	55	92	*	92	147	*	147	50	*	50	136	*	136	186	*	186
May	47	*	47	162	16	178	209	16	225	105	*	105	336	36	372	441	36	477
Jun	119	26	145	80	*	80	199	26	225	166	59	225	80	*	80	246	59	305
Jul	125	*	125	27	*	27	152	*	152	156	*	156	48	*	48	204	*	204
Aug	26	*	26	45	*	45	71	*	71	53	*	53	56	*	56	109	*	109
Sep	8	*	8	**	*	**	8	*	8	59	*	59	**	*	**	59	*	59
Total	380	26	406	406	16	422	786	42	828	589	59	648	656	36	692	1245	95	1340

* No boat anglers were encountered.
** Estimates could not be computed because no completed trips were recorded.

Table 14. Estimated angler success from 1 April through 30 September 1981 on Lower B-G.

Species	Estimated Number of Fish Caught		
	Shore	Boat	Total
Rainbow trout	221	-	221
Yellow perch	41	4	45
Rock bass	43	-	43
White sucker	33	-	33
Brown bullhead	-	20	20
Carp	10	-	10
Smallmouth bass	6	-	6
Fallfish	6	-	6
Brown trout	5	-	5
Total	365	24	389

Table 15. Catch preferences of anglers interviewed during a creel census from April through September 1981 on Lower B-G (party response).

Species	Resident		Nonresident		Total	
	#	%	#	%	#	%
Trout	8	61.5	38	43.7	46	46.0
Anything	4	30.8	35	40.2	39	39.0
Bass	0	0.0	8	9.2	8	8.0
Bullheads	0	0.0	4	4.6	4	4.0
Walleye	1	7.7	0	0.0	1	1.0
Pickerel	0	0.0	1	1.1	1	1.0
Perch	0	0.0	1	1.1	1	1.0
Total	13		87		100	

Table 16. Creel census data collected in April 1981 on Lower B-G.

	Weekdays			Weekend Days and Holidays			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:									
Resident	0	0.0		2	9.1		2	7.7	
Nonresident	4	100		20	90.9		24	92.3	
Total	4			22			26		
Parties Interviewed:									
Resident	0	0.0		1	9.1		1	7.1	
Nonresident	3	100		10	90.9		13	92.9	
Total	3			11			14		
Fish Caught:									
Rainbow trout	3	100	0.60	4	66.7	0.15	7	77.8	0.22
Brown trout	-	-	-	1	16.7	0.04	1	11.1	0.03
White sucker	-	-	-	1	16.7	0.04	1	11.1	0.03
Total	3			6			9		
Per hour			0.60			0.22			0.28
Hours Fished:									
Total	5			27			32		

Table 17. Creel census data collected in May 1981 on Lower B-G.

	Weekdays			Weekend Days and Holidays			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:									
Resident	4	57.1		6	9.2		10	13.9	
Nonresident	3	42.9		59	90.8		62	86.1	
Total	7			65			72		
Parties Interviewed:									
Resident	4	57.1		4	11.4		8	19.0	
Nonresident	3	42.9		31	88.6		34	81.0	
Total	7			35			42		
Fish Caught:									
Rainbow trout	2	20.0	0.18	37	60.7	0.31	39	54.9	0.30
Rock bass	2	20.0	0.18	8	13.1	0.07	10	14.1	0.08
Yellow perch	3	30.0	0.27	5	8.2	0.04	8	11.3	0.06
Brown bullhead	-	-	-	5	8.2	0.04	5	7.0	0.04
White sucker	2	20.0	0.18	2	3.3	0.02	4	5.6	0.03
Smallmouth bass	-	-	-	2	3.3	0.02	2	2.8	0.02
Fallfish	-	-	-	2	3.3	0.02	2	2.8	0.02
Carp	1	10.0	0.09	-	-	-	1	1.4	0.01
Total	10			61			71		
Per hour			0.91			0.51			0.54
Hours Fished:									
Total	11			120			131		

Table 18. Creel census data collected in June 1981 on Lower B-G.

	Weekdays			Weekend Days and Holidays			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:									
Resident	3	15.0		0	0.0		3	8.3	
Nonresident	17	85.0		16	100		33	91.7	
Total	20			16			36		
Parties Interviewed:									
Resident	2	16.7		0	0.0		2	11.8	
Nonresident	10	83.3		5	100		15	88.2	
Total	12			5			17		
Fish Caught:									
Rainbow trout	3	100	0.18	-	-	-	3	100	0.07
Total	3			0			3		
Per hour			0.18			0.00			0.07
Hours Fished:									
Total	17			27			44		

Table 19. Creel census data collected in July 1981 on Lower B-G.

	Weekdays			Weekend Days and Holidays			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:									
Resident	0	0.0		0	0.0		0	0.0	
Nonresident	13	100		5	100		18	100	
Total	13			5			18		
Parties Interviewed:									
Resident	0	0.0		0	0.0		0	0.0	
Nonresident	9	100		2	100		11	100	
Total	9			2			11		
Fish Caught:									
None									
Hours Fished:									
Total	7			3			10		

Table 20. Creel census data collected in August 1981 on Lower B-G.

	Weekdays			Weekend Days and Holidays			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:									
Resident	0	0.0		0	0.0		0	0.0	
Nonresident	2	100		4	100		6	100	
Total	2			4			6		
Parties Interviewed:									
Resident	0	0.0		0	0.0		0	0.0	
Nonresident	1	100		3	100		4	100	
Total	1			3			4		
Fish Caught:									
None									
Hours Fished:									
Total	2			5			7		

Table 21. Creel census data collected in September 1981 on Lower B-G.

	Weekdays			Weekend Days and Holidays			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:									
Resident	0	0.0		0	0.0		0	0.0	
Nonresident	7	100		4	100		11	100	
Total	7			4			11		
Parties Interviewed:									
Resident	0	0.0		0	0.0		0	0.0	
Nonresident	3	100		2	100		5	100	
Total	3			2			5		
Fish Caught:									
White sucker	1	100	0.04	-	-	-	1	100	0.04
Total	1			0			1		
Per hour			0.04			0.0			0.04
Hours Fished:									
Total	23			3			26		

Table 22. Creel census data collected from April through September 1981 on Upper B-G.

	Weekdays									Weekend Days and Holidays								
	Shore			Boat			Total			Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:																		
Resident	68	24.6		4	28.6		72	24.8		173	19.3		5	7.6		178	18.5	
Nonresident	208	75.4		10	71.4		218	75.2		724	80.7		61	92.4		785	81.5	
Total	276			14			290			897			66			963		
Parties Interviewed:																		
Resident	37	27.0		2	25.0		39	26.9		76	19.1		2	7.7		78	18.4	
Nonresident	100	73.0		6	75.0		106	73.1		321	80.9		24	92.3		345	81.6	
Total	137			8			145			397			26			423		
Fish Caught:																		
Rainbow trout	64	76.2	0.11	-	-	-	64	76.2	0.10	158	81.0	0.09	9	50.0	0.05	167	78.4	0.08
Pumpkinseed	5	6.0	0.01	-	-	-	5	6.0	0.01	6	3.1	*	-	-	-	6	2.8	*
Walleye	-	-	-	-	-	-	-	-	-	9	4.6	0.01	1	5.6	0.01	10	4.7	0.01
Rock bass	2	2.4	*	-	-	-	2	2.4	*	3	1.5	*	5	27.8	0.03	8	3.8	*
Yellow perch	3	3.6	0.01	-	-	-	3	3.6	*	4	2.1	*	2	11.1	0.01	6	2.8	*
Brown bullhead	2	2.4	*	-	-	-	2	2.4	*	6	3.1	*	-	-	-	6	2.8	*
Largemouth bass	3	3.6	0.01	-	-	-	3	3.6	*	3	1.5	*	-	-	-	3	1.4	*
Brown trout	1	1.2	*	-	-	-	1	1.2	*	3	1.5	*	-	-	-	3	1.4	*
Bluegill	2	2.4	*	-	-	-	2	2.4	*	2	1.0	*	-	-	-	2	0.9	*
Brook trout	2	2.4	*	-	-	-	2	2.4	*	1	0.5	*	-	-	-	1	0.5	*
Smallmouth bass	-	-	-	-	-	-	-	-	-	-	-	-	1	5.6	0.01	1	0.5	*
Total	84			0			84			195			18			213		
Per hour			0.14			0.00			0.13			0.11			0.09			0.11
Hours Fished:																		
Total	595			56			651			1797			194			1991		

* <0.005

Table 22 - (Continued).

	Grand Total								
	Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:									
Resident	241	20.5		9	11.3		250	20.0	
Nonresident	932	79.5		71	88.8		1003	80.0	
Total	1173			80			1253		
Parties Interviewed:									
Resident	113	21.2		4	11.8		117	20.6	
Nonresident	421	78.8		30	88.2		451	79.4	
Total	534			34			568		
Fish Caught:									
Rainbow trout	222	79.6	0.09	9	50.0	0.04	231	77.8	0.09
Pumpkinseed	11	3.9	*	-	-	-	11	3.7	*
Walleye	9	3.2	*	1	5.6	*	10	3.4	*
Rock bass	5	1.8	*	5	27.8	0.02	10	3.4	*
Yellow perch	7	2.5	*	2	11.1	0.01	9	3.0	*
Brown bullhead	8	2.9	*	-	-	-	8	2.7	*
Largemouth bass	6	2.2	*	-	-	-	6	2.0	*
Brown trout	4	1.4	*	-	-	-	4	1.3	*
Bluegill	4	1.4	*	-	-	-	4	1.3	*
Brook trout	3	1.1	*	-	-	-	3	1.0	*
Smallmouth bass	-	-	-	1	5.6	*	1	0.3	*
Total	279			18			279		
Per hour			0.12			0.07			0.11
Hours Fished:									
Total	2392			250			2642		

Table 23. Estimated angler use from 1 April through 30 September 1981 on Upper B-B.

Month	Estimated Number of Anglers									Estimated Number of Hours Fished								
	Weekdays			Weekend Days and Holidays			Grand Total			Weekdays			Weekend Days and Holidays			Grand Total		
	Shore	Boat	Total	Shore	Boat	Total	Shore	Boat	Total	Shore	Boat	Total	Shore	Boat	Total	Shore	Boat	Total
Apr	292	17	309	241	14	255	533	31	564	470	43	513	412	32	444	882	75	957
May	117	*	117	349	50	399	466	50	516	460	*	460	1072	148	1220	1532	148	1680
Jun	191	13	204	180	21	201	371	34	405	499	39	538	344	108	452	843	147	990
Jul	379	29	408	224	35	259	603	64	667	772	147	919	492	116	608	1264	263	1527
Aug	220	*	220	210	34	244	430	34	464	536	*	536	428	60	488	964	60	1024
Sep	29	*	29	103	21	124	132	21	153	84	*	84	216	95	311	300	95	395
Total	1228	59	1287	1307	175	1482	2535	234	2769	2821	229	3053	2964	559	3523	5785	788	6573

* No boat anglers were encountered.

Table 24. Estimated angler success from 1 April through 30 September 1981 on Upper B-G.

Species	Estimated Number of Fish Caught		
	Shore	Boat	Total
Rainbow trout	567	23	590
Pumpkinseed	32	-	32
Yellow perch	19	5	24
Rock bass	12	12	24
Walleye	17	4	21
Largemouth bass	21	-	21
Brown bullhead	20	-	20
Bluegill	15	-	15
Brook trout	14	-	14
Brown trout	12	-	12
Smallmouth bass	-	2	2
Total	729	46	775

Table 25. Catch preferences of anglers interviewed during a creel census from April through September 1981 on Upper B-G (party response).

Species	Resident		Nonresident		Total	
	#	%	#	%	#	%
Trout	58	39.5	237	50.1	295	47.6
Anything	67	45.6	188	39.7	255	41.1
Walleye	8	5.4	26	5.5	34	5.5
Bass	11	7.5	14	3.0	25	4.0
Bullheads	3	2.0	5	1.1	8	1.3
Yellow perch	0	0.0	2	0.4	2	0.3
Carp	0	0.0	1	0.2	1	0.2
Total	147		473		620	

Table 26. Creel census data collected in April 1981 on Upper B-G.

	Weekdays									Weekend Days and Holidays								
	Shore			Boat			Total			Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:																		
Resident	13	28.3		2	50.0		15	30.0		34	21.8		0	0.0		34	21.0	
Nonresident	33	71.7		2	50.0		35	70.0		122	78.2		6	100		128	79.0	
Total	46			4			50			156			6			162		
Parties Interviewed:																		
Resident	9	32.1		1	50.0		10	33.3		14	21.2		0	0.0		14	20.6	
Nonresident	19	67.9		1	50.0		20	66.7		52	78.8		2	100		54	79.4	
Total	28			2			30			66			2			68		
Fish Caught:																		
Rainbow trout	20	87.0	0.24	-	-	-	20	87.0	0.22	2	33.3	0.01	-	-	-	2	33.3	0.01
Brown bullhead	1	4.3	0.01	-	-	-	1	4.3	0.01	3	50.0	0.01	-	-	-	3	50.0	0.01
Brown trout	1	4.3	0.01	-	-	-	1	4.3	0.01	1	16.7	*	-	-	-	1	16.7	*
Brook trout	1	4.3	0.01	-	-	-	1	4.3	0.01	--	-	-	-	-	-	-	-	-
Total	23			0			23			6			0			6		
Per hour			0.28			0.00			0.25			0.02			0.00			0.02
Hours Fished:																		
Total	82			10			92			262			7			269		

	Grand Total								
	Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:									
Resident	47	23.3		2	20.0		49	23.1	
Nonresident	155	76.7		8	80.0		163	76.9	
Total	202			10			212		
Parties Interviewed:									
Resident	23	24.5		1	25.0		24	24.5	
Nonresident	71	75.5		3	75.0		74	75.5	
Total	94			4			98		
Fish Caught:									
Rainbow trout	22	75.9	0.06	-	-	-	22	75.9	0.06
Brown bullhead	4	13.8	0.01	-	-	-	4	13.8	0.01
Brown trout	2	6.9	0.01	-	-	-	2	6.9	0.01
Brook trout	1	3.4	*	-	-	-	1	3.4	*
Total	29			0			29		
Per hour			0.08			0.0			0 08
Hours Fished:									
Total	344			17			361		

* <0.005

Table 27. Creel census data collected in May 1981 on Upper B-G.

	Weekdays									Weekend Days and Holidays								
	Shore			Boat			Total			Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:																		
Resident	17	33.3		0	0.0		17	32.1		62	26.3		2	9.5		64	24.9	
Nonresident	34	66.7		2	100		36	67.9		174	73.7		19	90.5		193	75.1	
Total	51			2			53			236			21			257		
Parties Interviewed:																		
Resident	9	36.0		0	0.0		9	34.6		28	28.0		1	11.1		29	26.6	
Nonresident	16	64.0		1	100		17	65.4		72	72.0		8	88.9		80	73.4	
Total	25			1			26			100			9			109		
Fish Caught:																		
Rainbow trout	17	70.8	0.12	-	-	-	17	70.8	0.12	66	74.2	0.12	-	-	-	66	74.2	0.11
Walleye	-	-	-	-	-	-	-	-	-	7	7.9	0.01	-	-	-	7	7.9	0.01
Yellow perch	2	8.3	0.01	-	-	-	2	8.3	0.01	3	3.4	0.01	-	-	-	3	3.4	0.01
Rock bass	2	8.3	0.01	-	-	-	2	8.3	0.01	3	3.4	0.01	-	-	-	3	3.4	0.01
Brown bullhead	1	4.2	0.01	-	-	-	1	4.2	0.01	3	3.4	0.01	-	-	-	3	3.4	0.01
Pumpkinseed	2	8.3	0.01	-	-	-	2	8.3	0.01	2	2.2	*	-	-	-	2	2.2	*
Brown trout	-	-	-	-	-	-	-	-	-	2	2.2	*	-	-	-	2	2.2	*
Brook trout	-	-	-	-	-	-	-	-	-	1	1.1	*	-	-	-	1	1.1	*
Largemouth bass	-	-	-	-	-	-	-	-	-	1	1.1	*	-	-	-	1	1.1	*
Bluegill	-	-	-	-	-	-	-	-	-	1	1.1	*	-	-	-	1	1.1	*
Total	24			0			24			89			0			89		
Per hour			0.17			0.0			0.16			0.17			0.00			0.15
Hours Fished:																		
Total	144			2			146			535			48			583		

* <0.005

Table 27 - (Continued).

	Grand Total								
	Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:									
Resident	79	27.5		2	8.7		81	26.1	
Nonresident	208	72.5		21	91.3		229	73.9	
Total	287			23			310		
Parties Interviewed:									
Resident	37	29.6		1	10.0		38	28.1	
Nonresident	88	70.4		9	90.0		97	71.9	
Total	125			10			135		
Fish Caught:									
Rainbow trout	83	73.5	0.12	-	-	-	83	73.5	0.11
Walleye	7	6.2	0.01	-	-	-	7	6.2	0.01
Yellow perch	5	4.4	0.01	-	-	-	5	4.4	0.01
Rock bass	5	4.4	0.01	-	-	-	5	4.4	0.01
Brown bullhead	4	3.5	0.01	-	-	-	4	3.5	0.01
Pumpkinseed	4	3.5	0.01	-	-	-	4	3.5	0.01
Brown trout	2	1.8	*	-	-	-	2	1.8	*
Brook trout	1	0.9	*	-	-	-	1	0.9	*
Largemouth bass	1	0.9	*	-	-	-	1	0.9	*
Bluegill	1	0.9	*	-	-	-	1	0.9	*
Total	113			0			113		
Per hour			0.17			0.00			0.16
Hours Fished:									
Total	679			50			729		

Table 28. Creel census data collected in June 1981 on Upper B-G.

	Weekdays									Weekend Days and Holidays								
	Shore			Boat			Total			Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:																		
Resident	10	29.4		0	0.0		10	27.8		25	20.2		3	21.4		28	20.3	
Nonresident	24	70.6		2	100		26	72.2		99	79.8		11	78.6		110	79.7	
Total	34			2			36			124			14			138		
Parties Interviewed:																		
Resident	5	35.7		0	0.0		5	33.3		11	21.6		1	16.7		12	21.1	
Nonresident	9	64.3		1	100		10	66.7		40	78.4		5	83.3		45	78.9	
Total	14			1			15			51			6			57		
Fish Caught:																		
Rainbow trout	3	60.0	0.04	-	-	-	3	60.0	0.03	12	85.7	0.06	-	-	-	12	85.7	0.04
Pumpkinseed	1	20.0	0.01	-	-	-	1	20.0	0.01	1	7.1	*	-	-	-	1	7.1	*
Brook trout	1	20.0	0.01	-	-	-	1	20.0	0.01	-	-	-	-	-	-	-	-	-
Walleye	-	-	-	-	-	-	-	-	-	1	7.1	*	-	-	-	1	7.1	*
Total	5			0			5			14			0			14		
Per hour			0.06			0.00			0.06			0.07			0.00			0.05
Hours Fished:																		
Total	82			6			88			212			63			275		

	Grand Total								
	Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:									
Resident	35	22.2		3	18.8		38	21.8	
Nonresident	123	77.8		13	81.3		136	78.2	
Total	158			16			174		
Parties Interviewed:									
Resident	16	24.6		1	14.3		17	23.6	
Nonresident	49	75.4		6	85.7		55	76.4	
Total	65			7			72		
Fish Caught:									
Rainbow trout	15	78.9	0.05	-	-	-	15	78.9	0.04
Pumpkinseed	2	10.5	0.01	-	-	-	2	10.5	0.01
Brook trout	1	5.3	*	-	-	-	1	5.3	*
Walleye	1	5.3	*	-	-	-	1	5.3	*
Total	19			0			19		
Per hour			0.06			0.00			0.05
Hours Fished									
Total	294			69			363		

* <0.005

Table 29. Creel census data collected in July 1981 on Upper B-G.

	Weekdays									Weekend Days and Holidays								
	Shore			Boat			Total			Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:																		
Resident	24	28.6		2	25.0		26	28.3		13	10.0		0	0.0		13	9.3	
Nonresident	60	71.4		6	75.0		66	71.7		117	90.0		10	100		127	90.7	
Total	84			8			92			130			10			140		
Parties Interviewed:																		
Resident	12	30.8		1	25.0		13	30.2		7	10.8		0	0.0		7	10.1	
Nonresident	27	69.2		3	75.0		30	69.8		58	89.2		4	100		62	89.9	
Total	39			4			43			65			4			69		
Fish Caught																		
Rainbow trout	6	66.7	0.04	-	-	-	6	66.7	0.03	25	86.2	0.09	1	50.0	0.03	26	83.9	0.08
Largemouth bass	3	33.3	0.02	-	-	-	3	33.3	0.02	2	6.9	0.01	-	-	-	2	6.5	0.01
Walleye	-	-	-	-	-	-	-	-	-	-	-	-	1	50.0	0.03	1	3.2	? *
Yellow perch	-	-	-	-	-	-	-	-	-	1	3.4	*	-	-	-	1	3.2	*
Bluegill	-	-	-	-	-	-	-	-	-	1	3.4	*	-	-	-	1	3.2	*
Total	9			0			9			29			2			31		
Per hour			0.06			0.0			0.05			0.11			0.06			0.10
Hours Fished:																		
Total	157			40			197			275			33			308		

	Grand Total								
	Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:									
Resident	37	17.3		2	11.1		39	16.8	
Nonresident	177	82.7		16	88.9		193	83.2	
Total	214			18			232		
Parties Interviewed:									
Resident	19	18.3		1	12.5		20	17.9	
Nonresident	85	81.7		7	87.5		92	82.1	
Total	104			8			112		
Fish Caught									
Rainbow trout	31	81.6	0.07	1	50.0	0.01	32	80.0	0.06
Largemouth bass	5	13.2	0.01	-	-	-	5	12.5	0.01
Walleye	-	-	-	1	50.0	0.01	1	2.5	*
Yellow perch	1	2.6	*	-	-	-	1	2.5	*
Bluegill	1	2.6	*	-	-	-	1	2.5	*
Total	38			2			40		
Per hour			0.09			0.03			0.08
Hours Fished:									
Total	432			73			505		

* <0.005

Table 30. Creel census data collected in August 1981 on Upper B-G.

	Weekdays									Weekend Days and Holidays								
	Shore			Boat			Total			Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:																		
Resident	4	7.8		-	-	-	4	7.8		15	9.9		0	0.0		15	9.9	
Nonresident	47	92.2		-	-	-	47	92.2		136	90.1		1	100		137	90.1	
Total	51						51			151			1			152		
Parties Interviewed:																		
Resident	2	8.0		-	-	-	2	8.0		6	8.6		0	0.0		6	8.5	
Nonresident	23	92.0		-	-	-	23	92.0		64	91.4		1	100		65	91.5	
Total	25						25			70			1			71		
Fish Caught:																		
Rainbow trout	15	75.0	0.15	-	-	-	15	75.0	0.15	22	100	0.07	-	-	-	22	100	0.07
Pumpkinseed	2	10.0	0.02	-	-	-	2	10.0	0.02	-	-	-	-	-	-	-	-	-
Bluegill	2	10.0	0.02	-	-	-	2	10.0	0.02	-	-	-	-	-	-	-	-	-
Yellow perch	1	5.0	0.01	-	-	-	1	5.0	0.01	-	-	-	-	-	-	-	-	-
Total	20						20			22			0			22		
Per hour			0.20			-			0.20			0.07			0.0			0.07
Hours Fished:																		
Total	101			-			101			306			2			308		

	Grand Total								
	Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:									
Resident	19	9.4		0	0.0		19	9.4	
Nonresident	183	90.6		1	100		184	90.6	
Total	202			1			203		
Parties Interviewed:									
Resident	8	8.4		0	0.0		8	8.3	
Nonresident	87	91.6		1	100		88	91.7	
Total	95			1			96		
Fish Caught:									
Rainbow trout	37	88.1	0.09	-	-	-	37	88.1	0.09
Pumpkinseed	2	4.8	*	-	-	-	2	4.8	*
Bluegill	2	4.8	*	-	-	-	2	4.8	*
Yellow perch	1	2.4	*	-	-	-	1	2.4	*
Total	42			0			42		
Per hour			0.10			0.00			0.10
Hours Fished:									
Total	407			2			409		

* <0.005

Table 31. Creel census data collected in September 1981 on Upper B-G.

	Weekdays									Weekend Days and Holidays								
	Shore			Boat			Total			Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fisherman Interviewed:																		
Resident	0	0.0		-	-	-	0	0.0		24	24.0		0	0.0		24	22.0	
Nonresident	10	100		-	-	-	10	100		76	76.0		9	100		85	78.0	
Total	10						10			100			9			109		
Parties Interviewed:																		
Resident	0	0.0		-	-	-	0	0.0		10	22.2		0	0.0		10	20.0	
Nonresident	6	100		-	-	-	6	100		35	77.8		4	100		39	80.0	
Total	6						6			45			4			49		
Fish Caught:																		
Rainbow trout	3	100	0.10	-	-	-	3	100	0.10	31	88.6	0.15	8	50.0	0.20	39	76.5	0.16
Rock bass	-	-	-	-	-	-	-	-	-	-	-	-	5	31.3	0.12	5	9.8	0.02
Pumpkinseed	-	-	-	-	-	-	-	-	-	3	8.6	0.01	-	-	-	3	5.9	0.01
Yellow perch	-	-	-	-	-	-	-	-	-	-	-	-	2	12.5	0.05	2	3.9	0.01
Walleye	-	-	-	-	-	-	-	-	-	1	2.9	*	-	-	-	1	2.0	*
Smallmouth bass	-	-	-	-	-	-	-	-	-	-	-	-	1	6.3	0.02	1	2.0	*
Total	3			-			3			35			16			51		
Per hour			0.10			-			0.10			0.17			0.39			0.20
Hours Fished:																		
Total	29			-			29			208			41			249		

	Grand Total								
	Shore			Boat			Total		
	#	%	Catch/hr	#	%	Catch/hr	#	%	Catch/hr
Fishermen Interviewed:									
Resident	24	21.8		0	0.0		24	20.2	
Nonresident	86	78.2		9	100		95	79.8	
Total	110			9			119		
Parties Interviewed:									
Resident	10	19.6		0	0.0		10	18.2	
Nonresident	41	80.4		4	100		45	81.8	
Total	51			4			55		
Fish Caught									
Rainbow trout	34	89.5	0.14	8	50.0	0.20	42	77.8	0.15
Rock bass	-	-	-	5	31.3	0.12	5	9.3	0.02
Pumpkinseed	3	7.9	0.01	-	-	-	3	5.6	0.01
Yellow perch	-	-	-	2	12.5	0.05	2	3.7	0.01
Walleye	1	2.6	*	-	-	-	1	1.9	*
Smallmouth bass	-	-	-	1	6.3	0.02	1	1.9	*
Total	38			16			54		
Per hour			0.16			0.39			0.19
Hours Fished:									
Total	237			41			278		

* <0.005

Table 32. Summary by month and location of tags returned by anglers in 1981 from rainbow trout (RT) and brown trout (BT) stocked in 1980 and 1981 in Lower B-G (LBG) and Upper B-G (UBG).

Year	Stocked	Returned*	Apr		May		Jun		Jul		Aug		Sep		Apr-Sep	
			RT	BT	RT	BT	RT	BT	RT	BT	RT	BT	RT	BT	RT	BT
1981	LBG	TB-1	1	-	10 (7)**	- (3)	6	-	-	-	-	-	-	-	17 (7)	- (3)
		TB-2	-	-	3	-	-	-	-	-	-	-	-	-	3	-
		TB-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TB-4	20	-	190	-	12	-	3	-	3	-	-	-	228	-
		TB-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TB-6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TB-7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TB-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TB-2,4,	5	-	33	-	2	-	-	-	-	-	-	-	40	-
		TB-6, 7, 8	-	-	4	-	-	-	1	-	1	-	-	-	6	-
		Misc.	-	-	6	-	1	-	-	-	-	-	1	-	8	-
		Total	26	0	246 (7)	3	21	0	4	0	4	0	1	0	302 (7)	0 (3)
	UBG	TB-1	-	-	1 (3)	- (1)	-	-	-	-	-	-	-	-	1 (3)	- (1)
		TB-2	-	-	3	-	-	-	-	-	-	-	-	-	3	-
		TB-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TB-4	-	-	18	-	1	-	-	-	-	-	-	-	19	-
		TB-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		TB-6	13	-	21	-	-	-	2	-	-	-	1	-	37	-
		TB-7	4	-	45	-	-	-	16	-	10 (1)	-	1	-	76 (1)	-
		TB-8	-	-	28	-	1	-	1	-	2	-	-	-	32	-
		TB-2,4,	-	-	4	-	-	-	-	-	-	-	-	-	4	-
		TB-6,7,8	14	-	57	-	9	-	11	-	12	-	7	-	110	-
		Misc.	-	-	3	-	1	-	-	-	-	-	-	-	4	-
		Total	31	0	180 (3)	0 (1)	12	0	30	0	24 (1)	0	9	0	286 (4)	0 (1)

* Location of Tag Box (TB): TB-1, LBG spillway
TB-2, LBG boat ramp
TB-3, West Kill
TB-4, Nickerson Park
TB-5, Gilboa iron bridge
TB-6, UBG north gate
TB-7, UBG south gate
TB-8, UBG boat ramp
TB-2,4 collected from fishermen during LBG creel census.
TB-6,7,8 collected from fishermen during UBG creel census.

** Number of tags returned from fish stocked in 1980.

Table 33. Growth of tagged rainbow trout (RT) captured from April through September 1981 in Lower B-G (LBG), Upper B-G (UGB), and Schoharie Creek (SC).

Species	Tag #	Date Stocked	Date Captured	# Days Stocked	Location Stocked	Location Captured	Length (mm) Stocked*	Length (mm) Captured	Length (mm) Growth	Weight (g) Stocked**	Weight (g) Captured	Weight (g) Growth
RT	5907	13 Apr 81	16 Apr 81	3	LBG	LBG	229	240	11	129	130	1
	7234	13 Apr 81	16 Apr 81	3	LBG	LBG	229	238	9	129	120	-9
	9031	13 Apr 81	17 Apr 81	4	UBG	UBG	229	240	11	129	120	-9
	7657	13 Apr 81	18 Apr 81	5	LBG	LBG	229	245	16	129	120	-9
	7052	13 Apr 81	18 Apr 81	5	LBG	LBG	229	235	6	129	104	-25
	7502	13 Apr 81	18 Apr 81	5	LBG	LBG	229	220	-9	129	90	-39
	9382	13 Apr 81	18 Apr 81	5	UBG	UBG	229	230	1	129	100	-29
	9589	13 Apr 81	28 Apr 81	15	UBG	UBG	229	240	11	129	105	-24
	9265	13 Apr 81	28 Apr 81	15	UBG	UBG	229	225	-4	129	101	-28
	10045	13 Apr 81	28 Apr 81	15	UBG	UBG	229	230	1	129	120	-9
	10726	13 Apr 81	28 Apr 81	15	UBG	UBG	229	220	1	129	90	-39
	11682	13 Apr 81	28 Apr 81	15	UBG	UBG	229	230	1	129	88	-41
	8571	13 Apr 81	28 Apr 81	15	UBG	UBG	229	230	1	129	102	-27
	11119	13 Apr 81	28 Apr 81	15	UBG	UBG	229	220	-9	129	92	-37
	8969	13 Apr 81	28 Apr 81	15	UBG	UBG	229	230	1	129	100	-29
	8162	13 Apr 81	28 Apr 81	15	UBG	UBG	229	235	6	129	99	-30
	9252	13 Apr 81	28 Apr 81	15	UBG	UBG	229	220	-9	129	90	-39
	8762	13 Apr 81	28 Apr 81	15	UBG	UBG	229	230	1	129	98	-31
	10517	13 Apr 81	28 Apr 81	15	UBG	UBG	229	230	1	129	100	-29
	8702	13 Apr 81	28 Apr 81	15	UBG	UBG	229	220	-9	129	98	-31
	6459	13 Apr 81	2 May 81	19	LBG	LBG	229	230	1	129	110	-19
	6347	13 Apr 81	2 May 81	19	LBG	LBG	229	250	21	129	159	30
	7403	13 Apr 81	2 May 81	19	LBG	LBG	229	230	1	129	120	-9
	7520	13 Apr 81	2 May 81	19	LBG	LBG	229	240	11	129	144	15
	5667	13 Apr 81	2 May 81	19	LBG	LBG	229	230	1	129	124	-5
	7359	13 Apr 81	2 May 81	19	LBG	LBG	229	230	1	129	125	-4
	6730	13 Apr 81	2 May 81	19	LBG	LBG	229	225	-4	129	125	-4
	7809	13 Apr 81	2 May 81	19	LBG	LBG	229	225	-4	129	140	11
	6884	13 Apr 81	2 May 81	19	LBG	LBG	229	225	-4	129	136	7
	7567	13 Apr 81	2 May 81	19	LBG	LBG	229	230	1	129	90	-39
	6644	13 Apr 81	2 May 81	19	LBG	LBG	229	230	1	129	120	-9
	7472	13 Apr 81	2 May 81	19	LBG	LBG	229	230	1	129	110	-19
	5946	13 Apr 81	2 May 81	19	LBG	LBG	229	245	16	129	150	21
	8421	13 Apr 81	2 May 81	19	UBG	LBG	229	235	6	129	120	-9
	10568	13 Apr 81	2 May 81	19	UBG	UBG	229	250	21	129	130	1
	8782	13 Apr 81	2 May 81	19	UBG	UBG	229	235	6	129	dressed	-
	7387	13 Apr 81	3 May 81	20	LBG	LBG	229	235	6	129	110	-19
	6180	13 Apr 81	3 May 81	20	LBG	LBG	229	230	1	129	112	-17
	6920	13 Apr 81	3 May 81	20	LBG	LBG	229	230	1	129	98	-31
	10647	13 Apr 81	3 May 81	20	UBG	UBG	229	220	-9	129	90	-39
	9798	13 Apr 81	3 May 81	20	UBG	UBG	229	245	16	129	130	1
	8190	13 Apr 81	3 May 81	20	UBG	UBG	229	230	1	129	108	-21
	10265	13 Apr 81	3 May 81	20	UBG	UBG	229	230	1	129	100	-29
	9336	13 Apr 81	3 May 81	20	UBG	UBG	229	230	1	129	112	-17
	10041	13 Apr 81	3 May 81	20	UBG	UBG	229	230	1	129	92	-37
	11699	13 Apr 81	3 May 81	20	UBG	UBG	229	230	1	129	dressed	-
	11423	13 Apr 81	3 May 81	20	UBG	UBG	229	230	1	129	dressed	-
	7319	13 Apr 81	3 May 81	20	LBG	UB	229	230	1	129	dressed	-
	9281	13 Apr 81	3 May 81	20	UBG	UBG	229	230	1	129	dressed	-
	11473	13 Apr 81	4 May 81	21	UBG	UBG	229	220	-9	129	90	-39
	7242	13 Apr 81	4 May 81	21	LBG	UBG	229	230	1	129	98	-31
	7037	13 Apr 81	7 May 81	24	LBG	LBG	229	240	11	129	138	9
	11106	13 Apr 81	7 May 81	24	UBG	UBG	229	250	21	129	128	-1
	6642	13 Apr 81	9 May 81	26	LBG	LBG	229	250	21	129	124	-5
	6260	13 Apr 81	9 May 81	26	LBG	LBG	229	220	-9	129	92	-37
	5781	13 Apr 81	9 May 81	26	LBG	LBG	229	220	-9	129	90	-39
	7389	13 Apr 81	9 May 81	26	LBG	LBG	229	229	0	129	104	-25
	6112	13 Apr 81	9 May 81	26	LBG	LBG	229	240	11	129	130	1
	7405	13 Apr 81	9 May 81	26	LBG	LBG	229	220	0	129	80	49
	79809	13 Apr 81	9 May 81	26	UBG	UBG	229	230	1	129	dressed	-
	8710	13 Apr 81	9 May 81	26	UBG	UBG	229	220	-9	129	dressed	-
	9362	13 Apr 81	9 May 81	26	UBG	UBG	229	230	1	129	dressed	-
	10187	13 Apr 81	9 May 81	26	UBG	UBG	229	230	1	129	dressed	-
	11277	13 Apr 81	9 May 81	26	UBG	UBG	229	250	21	129	130	1
	9755	13 Apr 81	9 May 81	26	UBG	UBG	229	245	16	129	130	1
	10018	13 Apr 81	9 May 81	26	UBG	UBG	229	240	11	129	140	11
	5904	13 Apr 81	10 May 81	27	LBG	LBG	229	225	-4	129	92	-37
	8831	13 Apr 81	10 May 81	27	UBG	UBG	229	245	16	129	112	-17
	5508	13 Apr 81	10 May 81	27	LBG	UBG	229	225	-4	129	88	-41
	11588	13 Apr 81	10 May 81	27	UBG	UBG	229	235	6	129	109	-20
	10489	13 Apr 81	10 May 81	27	UBG	UBG	229	240	11	129	106	-23
	11688	13 Apr 81	10 May 81	27	UBG	UBG	229	225	-4	129	104	-25
	11407	13 Apr 81	10 May 81	27	UBG	UBG	229	230	1	129	88	-41
	10848	13 Apr 81	10 May 81	27	UBG	UBG	229	235	6	129	104	-25
	11656	13 Apr 81	10 May 81	27	UBG	UBG	229	220	-9	129	84	-45
	11505	13 Apr 81	10 May 81	27	UBG	UBG	229	230	1	129	86	-43
	11617	13 Apr 81	10 May 81	27	UBG	UBG	229	245	16	129	102	-27
	8131	13 Apr 81	10 May 81	27	UBG	UBG	229	230	1	129	-	-

* Mean length of all stocked fish was 229 mm.
** Mean weight of all stocked fish was 129 g.
*** Schoharie Creek at Nickerson's Campground.

Table 33 - (Continued).

Species	Tag #	Date Stocked	Date Captured	# Days Stocked	Location Stocked	Location Captured	Length (mm) Stocked	Length (mm) Captured	Length (mm) Growth	Weight (g) Stocked	Weight (g) Captured	Weight (g) Growth
RT	8136	13 Apr 81	12 May 81	29	UBG	UBG	229	225	-4	129	92	-37
	11118	13 Apr 81	12 May 81	29	UBG	UBG	229	240	11	129	116	-13
	5912	13 Apr 81	12 May 81	29	LBG	UBG	229	220	-9	129	84	-45
	11113	13 Apr 81	12 May 81	29	UBG	UBG	229	235	6	129	114	-15
	11488	13 Apr 81	12 May 81	29	UBG	UBG	229	220	-9	129	98	-31
	9840	13 Apr 81	12 May 81	29	UBG	UBG	229	245	16	129	116	-13
	8876	13 Apr 81	12 May 81	29	UBG	UBG	229	240	11	129	122	-7
	10479	13 Apr 81	12 May 81	29	UBG	UBG	229	240	11	129	120	-9
	5406	13 Apr 81	15 May 81	32	LBG	SC***	229	232	3	129	100	-29
	6094	13 Apr 81	16 May 81	33	LBG	LBG	229	250	21	129	130	1
	5942	13 Apr 81	16 May 81	33	LBG	LBG	229	230	1	129	126	-3
	10994	13 Apr 81	16 May 81	33	UBG	LBG	229	230	1	129	114	-15
	7310	13 Apr 81	16 May 81	33	LBG	LBG	229	230	1	129	114	-15
	11837	13 Apr 81	16 May 81	33	UBG	LBG	229	235	6	129	120	-9
	5674	13 Apr 81	16 May 81	33	LBG	LBG	229	235	6	129	126	-3
	8564	13 Apr 81	17 May 81	34	UBG	UBG	229	240	11	129	112	-17
	9461	13 Apr 81	17 May 81	34	UBG	UBG	229	245	16	129	118	-11
	11493	13 Apr 81	17 May 81	34	UBG	UBG	229	230	1	129	118	-11
	9425	13 Apr 81	17 May 81	34	UBG	UBG	229	240	11	129	120	-9
	11072	13 Apr 81	17 May 81	34	UBG	UBG	229	230	1	129	82	-47
	11806	13 Apr 81	17 May 81	34	UBG	UBG	229	225	-4	129	80	-49
	9025	13 Apr 81	17 May 81	34	UBG	UBG	229	230	1	129	88	-41
	5411	13 Apr 81	23 May 81	40	LBG	LBG	229	220	-9	129	125	-4
	11826	13 Apr 81	23 May 81	40	UBG	UBG	229	240	11	129	150	21
	8687	13 Apr 81	23 May 81	40	UBG	UBG	229	240	11	129	160	31
	10345	13 Apr 81	24 May 81	41	UBG	UBG	229	245	16	129	155	26
	6373	13 Apr 81	24 May 81	41	LBG	LBG	229	240	11	129	140	11
	5921	13 Apr 81	24 May 81	41	LBG	LBG	229	235	6	129	120	-9
	5425	13 Apr 81	24 May 81	41	LBG	LBG	229	240	11	129	140	11
	10732	13 Apr 81	25 May 81	42	UBG	UBG	229	250	21	129	120	-9
	11979	13 Apr 81	25 May 81	42	UBG	UBG	229	245	16	129	122	-7
	9519	13 Apr 81	25 May 81	42	UBG	UBG	229	240	11	129	120	-9
	8763	13 Apr 81	25 May 81	42	UBG	UBG	229	245	16	129	152	23
	10566	13 Apr 81	30 May 81	47	UBG	UBG	229	250	21	129	140	11
	11504	13 Apr 81	31 May 81	48	UBG	UBG	229	260	31	129	150	21
	7409	13 Apr 81	3 Jun 81	51	LBG	LBG	229	255	26	129	148	19
	7011	13 Apr 81	3 Jun 81	51	LBG	LBG	229	240	11	129	118	-11
	8081	13 Apr 81	20 Jun 81	68	UBG	UBG	229	265	36	129	-	-
	11858	13 Apr 81	20 Jun 81	68	UBG	UBG	229	270	41	129	-	-
	9777	13 Apr 81	20 Jun 81	68	UBG	UBG	229	240	11	129	-	-
	8939	13 Apr 81	28 Jun 81	76	UBG	UBG	229	270	41	129	-	-
	11299	13 Apr 81	28 Jun 81	76	UBG	UBG	229	280	51	129	-	-
	9863	13 Apr 81	28 Jun 81	76	UBG	UBG	229	275	46	129	-	-
	9538	13 Apr 81	30 Jun 81	78	UBG	UBG	229	270	41	129	215	86
	8168	13 Apr 81	30 Jun 81	78	UBG	UBG	229	265	36	129	190	61
	8123	13 Apr 81	4 Jul 81	82	UBG	UBG	229	270	41	129	-	-
	10468	13 Apr 81	4 Jul 81	82	UBG	UBG	229	280	51	129	-	-
	10414	13 Apr 81	4 Jul 81	82	UBG	UBG	229	260	31	129	-	-
	10497	13 Apr 81	5 Jul 81	83	UBG	UBG	229	300	71	129	264	135
	11078	13 Apr 81	5 Jul 81	83	UBG	UBG	229	290	61	129	-	-
	8552	13 Apr 81	25 Jul 81	103	UBG	UBG	229	280	51	129	240	111
	8496	13 Apr 81	25 Jul 81	103	UBG	UBG	229	290	61	129	270	141
	11828	13 Apr 81	25 Jul 81	103	UBG	UBG	229	300	71	129	dressed	-
	7233	13 Apr 81	26 Jul 81	104	LBG	UBG	229	300	71	129	280	151
	8077	13 Apr 81	26 Jul 81	104	UBG	UBG	229	260	31	129	228	99
	11160	13 Apr 81	28 Jul 81	106	UBG	UBG	229	265	36	129	222	93
	9322	13 Apr 81	29 Jul 81	107	UBG	UBG	229	280	51	129	210	81
	11326	13 Apr 81	2 Aug 81	111	UBG	UBG	229	285	56	129	242	113
	8935	13 Apr 81	2 Aug 81	111	UBG	UBG	229	275	46	129	dressed	-
	9077	13 Apr 81	2 Aug 81	111	UBG	UBG	229	290	61	129	260	131
	9229	13 Apr 81	2 Aug 81	111	UBG	UBG	229	295	66	129	-	-
	9526	13 Apr 81	4 Aug 81	113	UBG	UBG	229	275	46	129	200	71
	7245	13 Apr 81	4 Aug 81	113	LBG	UBG	229	280	51	129	204	75
	9351	13 Apr 81	4 Aug 81	113	UBG	UBG	229	295	66	129	222	93
	9687	13 Apr 81	8 Aug 81	117	UBG	UBG	229	282	53	129	220	91
	11744	13 Apr 81	9 Aug 81	118	UBG	UBG	229	290	61	129	180	51
	8055	13 Apr 81	11 Aug 81	120	UBG	UBG	229	285	56	129	220	91
	10408	13 Apr 81	11 Aug 81	120	UBG	UBG	229	300	71	129	260	131
	10113	13 Apr 81	11 Aug 81	120	UBG	UBG	229	290	61	129	240	111
	9044	13 Apr 81	15 Aug 81	124	UBG	UBG	229	280	51	129	220	91
	9141	13 Apr 81	5 Sep 81	145	UBG	UBG	229	294	65	129	220	91
	10090	13 Apr 81	5 Sep 81	145	UBG	UBG	229	305	76	129	256	127
	11094	13 Apr 81	19 Sep 81	159	UBG	UBG	229	280	51	129	222	93
	8057	13 Apr 81	27 Sep 81	167	UBG	UBG	229	275	46	129	198	69
	9339	13 Apr 81	27 Sep 81	167	UBG	UBG	229	300	71	129	238	109
	8216	13 Apr 81	27 Sep 81	167	UBG	UBG	229	290	61	129	218	89
	8672	13 Apr 81	27 Sep 81	167	UBG	UBG	229	275	46	129	280	51

Table 34. Centrarchids stocked during May and August 1981 in Upper B-G and in the constant level ponds (CLPs) on Upper B-G.

Species		Location			
		Upper B-G	CLP at 2002.4 ft	CLP at 2001.5 ft	CLP at 2000.0 ft
Largemouth bass	Number Stocked	2500	26	30	25
	Size Range (inch)	4-6	6-14	6-14	6-14
	Date Stocked	August	22 May	22 May	22 May
Pumpkinseed	Number Stocked	-	40	40	56
	Size Range (inch)	-	5-8	5-8	5-8
	Date Stocked	-	22 May	22 May	22 May

Table 35. Observations made from June through September 1981 at the constant level ponds on Upper B-G.

Date	Pond Elevation (ft) 2002.4	2001.5	2000.0
8 Jun			
Water Temperature (C)	21.0-24.0	20.0-22.5	21.0-23.5
Water Clarity	Turbid	Moderately turbid	Moderately turbid
Active Centrarchid Nests Observed	0	0	0
Schools of Newly Emerged Fry Observed*	0	0	0
Miscellaneous Fishes Observed	Some small fish observed (≈2"); fish jumping	1 pumpkinseed (6-7"); 1 unknown sp. (≈10")	Some small fish (≈2")
Aquatic Vegetation	Cattails and other aquatics	-	Cattails
15 Jun			
Water Temperature (C)	22.0-25.0	22.5-25.0	21.5-25.5
Water Clarity	Moderately turbid	Clear	Clear
Active Centrarchid Nests Observed	2	7	0
Schools of Newly Emerged Fry Observed	0	0	0
Miscellaneous Fishes Observed	0	5 tessellated darter (<1"), 9 largemouth bass (4-9"), 15 pumpkinseed (4-7"), ≈20 small *Lepomis* spp.(≈1")	0
Aquatic Vegetation	Cattails and sedge	-	Cattails and green algae
24 Jun			
Water Temperature (C)	21.0-23.0	21.0-22.0	21.0-23.0
Water Clarity	Turbid	Clear	Moderately turbid
Active Centrarchid Nests Observed	1	13	2
Schools of Newly Emerged Fry Observed	0	0	0
Miscellaneous Fishes Observed	Numerous small fishes; 20 *Lepomis* spp.(1-2")	2 bluegill (5"), 10 *Lepomis* spp.(1-1½")	1 minnow (1½"), 1 unidentified small fish (1")
Aquatic Vegetation	Cattails, sedge, filamentous green algae	Emergent sedges	Cattails, emergent sedges, and floating macrophytes
30 Jun			
Water Temperature (C)	28.0-30.0	24.0-26.0	26.0-27.0
Water Clarity	Turbid	Clear	Clear
Active Centrarchid Nests Observed	1	16	14
Schools of Newly Emerged Fry Observed	1	0	0
Miscellaneous Fishes Observed	2 minnows (1½-2½"), 9 *Lepomis* spp.(1-1½"), 5 pumpkinseed (4-7"), 8 tessellated darter (½-1"), 3 unidentified (2")	50 tessellated darter (½-1"), 18 pumpkinseed (4-7"), 22 largemouth bass (4-12"), 22 *Lepomis* spp. (1-1½"), 2 minnows (1½-2½")	6 largemouth bass (4-12"), 27 pumpkinseed (4-7"), 4 *Lepomis* spp.(1-1½")
Aquatic Vegetation	Cattails, sedge	Sedge	Cattails, submersed plants

* Largemouth bass, yellow perch, golden shiner, *Lepomis* spp.
** Cattails first appeared in CLP 2001.5 ft at the end of August.

Table 35 - (Continued).

Date	Pond Elevation (ft) 2002.4	2001.5	2000.0
8 Jul			
Water Temperature (C)	26.5-28.5	26.0-28.0	26.5-27.0
Water Clarity	Turbid	Moderately turbid	Moderately turbid
Active Centrarchid Nests Observed	0	3	0
Schools of Newly Emerged Fry Observed	1 (small school)	0	0
Miscellaneous Fishes Observed	0	1 pumpkinseed (6") on nest, 2 unidentified fish (1")	12 tessellated darter (1"), 1 unidentified fish (1"), 1 Lepomis spp.(1½"), 1 rock bass (1½" dead)
10 Jul			
Water Temperature (C)	29.0	28.0-29.0	28.5-29.0
Water Clarity	Turbid	Clear	Moderately turbid
Active Centrarchid Nests Observed	3	3	1
Schools of Newly Emerged Fry Observed	2 (200-300, ½" fish)	0	0
Miscellaneous Fishes Observed	1 pumpkinseed (6") on nest, 1 unidentified fish (½"), 10 tessellated darter (<1")	20 largemouth bass (1"), 1 pumpkinseed (6"), 15 tessellated darter (<1"), 3 largemouth bass (3-4"), 5 unidentified fish (1"), 1 largemouth bass (1" dead)	1 pumpkinseed (6"), 16 tessellated darter (1"), 1 pumpkinseed (4" dead), 5 centrarchid (1½")
15 Jul			
Water Temperature (C)	25.5-26.0	24.0-25.5	24.5-26.0
Water Clarity	Turbid	Clear	Moderately turbid
Active Centrarchid Nests Observed	2	7	5
Schools of Newly Emerged Fry Observed	6 (10-15 fish each)	0	1 (40-50 fish)
Miscellaneous Fishes Observed	1 Lepomis spp.(2"), 1 yellow perch (2"), 5 unidentified fish (1-1½")	1 pumpkinseed (6") on nest, 1 largemouth bass (4-5"), 20 unidentified fish (<1-1½")	2 largemouth bass (4"), 3 minnows (1-1½"), 2 Lepomis spp.(1½-2"), 7 tessellated darter (1"), 12 unidentified fish (1-1½")
17 Jul			
Water Temperature (C)	27.0	25.5-27.0	25.5-26.5
Water Clarity	Turbid	Clear	Moderately turbid
Active Centrarchid Nests Observed	3	2	4
Schools of Newly Emerged Fry Observed	2 (largemouth bass)	0	1
Miscellaneous Fishes Observed	2 others 1 largemouth bass (4"), 8 largemouth bass (1"), 8 Lepomis spp.(1½"), 4 unidentified fish (1½-2"), 2 tessellated darter (1"); fish jumping	3 pumpkinseed (4-5") on brush pile, 1 pumpkinseed (6") on nest, 12 largemouth bass (4-8") on brush pile, 5 largemouth bass (3-6"), 3 pumpkinseed (4-5"), 6 Lepomis spp. (2"), 2 largemouth bass (1½"), 1 yellow perch (1½"); fish jumping	4 largemouth bass (4-8"), 4 largemouth bass (2½-3"), 12 pumpkinseed (1½-3"), 3 Lepomis spp.(1-3"), 1 yellow perch (3"), 6 unidentified (1-2"); fish jumping

Table 35 - (Continued).

Date	Pond Elevation (ft) 2002.4	2001.5	2000.0
23 Jul			
Water Temperature (C)	26.0-27.0	24.5-26.0	25.5-27.0
Water Clarity	Turbid	Very clear	Moderately turbid
Active Centrarchid Nests Observed	3	3	3
Schools of Newly Emerged Fry Observed	2	0	2
Miscellaneous Fishes Observed	6 largemouth bass (3"), 1 largemouth bass (6"), 9 largemouth bass (1½-2"), 12 yellow perch (1½-2"), 14 tessellated darter (½"), 2 minnows (2"), 2 pumpkinseed (2½"), 2 unidentified fish (2")	60 tessellated darter (<1-1"), 1 Lepomis spp.(1½"), 1 unidentified fish (1½"); fish jumping	11 largemouth bass (3-5"), 4 Lepomis spp.(2-4"), 4 pumpkinseed (3-5"), 1 tessellated darter (1"), 9 unidentified fish (2")
31 Jul			
Water Temperature (C)	24.0-26.0	23.5-26.0	25.0-28.5
Water Clarity	Moderately turbid	Clear	Moderately turbid
Active Centrarchid Nests Observed	2	5	3
Schools of Newly Emerged Fry Observed	0	4 (largemouth bass)	0
Miscellaneous Fishes Observed	87 largemouth bass (2"), 11 largemouth bass (5"), 2 Lepomis spp. (2"), 2 minnows (3"), 1 yellow perch (2"), 1 tessellated darter (1")	8 largemouth bass (5"), 11 largemouth bass (2-3"), 1 largemouth bass (1"), 1 largemouth bass (12"), 5 smallmouth bass (5"), 2 carp (24"), 2 pumpkinseed (4"), 6 Lepomis spp.(5")	3 largemouth bass (6-8"), 40 largemouth bass (2"), 10 largemouth bass (4"), 1 smallmouth bass (4"), 27 Lepomis spp.(1-2"), 16 pumpkinseed (3-4"), 3 tessellated darter (½-2")
Aquatic Vegetation (Jul)	Sedge, cattails, green algae, phragmites	Sedge, submerged vegetation, green algae, emergent plants	Sedge, cattails, submerged vegetation, water stargrass, algae
3 Aug			
Water Temperature (C)	25.0-27.0	26.0-29.0	25.5-27.0
Water Clarity	Turbid	Clear	Clear
Active Centrarchid Nests Observed	3	1	3
Schools of Newly Emerged Fry Observed	0	0	0
Miscellaneous Fishes Observed	10 largemouth bass (4-5"), 6 largemouth bass (1½-2½"), 5 Lepomis spp.(2-3")	4 largemouth bass (4-8"), 7 largemouth bass (2"), 2 pumpkinseed (5"), 8 Lepomis spp.(2-2½"), 6 unidentified fish (2-3")	8 largemouth bass (4-5"), 4 largemouth bass (1½"), 4 Lepomis spp.(2½"), 5 unidentified fish (1-1½")

Table 35 - (Continued).

Date	Pond Elevation (ft) 2002.4	2001.5	2000.0
7 Aug			
Water Temperature (C)	25.0-26.0	24.0-25.0	24.5-26.0
Water Clarity	Turbid	Clear	Moderately turbid
Active Centrarchid Nests Observed	3	0	1
Schools of Newly Emerged Fry Observed	0	0	0
Miscellaneous Fishes Observed	48 largemouth bass (2-4"), 21 Lepomis spp.(1-2"), 1 tessellated darter (1½-2"), 1 unidentified fish (1½")	35 largemouth bass (1½-3"), 2 largemouth bass (4"), 2 largemouth bass (7-8"), 3 largemouth bass (3-4") on brush pile, 30 Lepomis spp. (2"), 2 pumpkinseed (4-5") on brush pile, 30-40 tessellated darter (1"), 5 unidentified fish (2½")	32 largemouth bass (2-4"), 15-20 smallmouth bass (3-4") on brush pile, 1 smallmouth bass (5"), 42 Lepomis spp.(1½-2"), 6 pumpkinseed (3-5"), 5 pumpkinseed (2-3"), 1 bluegill (4"), 2 yellow perch (3½"), 10 unidentified fish (1-1½")
12 Aug			
Water Temperature (C)	24.5-25.0	24.0-26.5	24.5-25.5
Water Clarity	Turbid	Moderately turbid	Moderately turbid
Active Centrarchid Nests Observed	2	0	1
Schools of Newly Emerged Fry Observed	0	1	1
Miscellaneous Fishes Observed	18 largemouth bass (2-3"), 12 largemouth bass (3½-5"), 5 Lepomis spp.(2-3")	6 largemouth bass (1½-2½"), 8 largemouth bass (4-8"), 3 smallmouth bass (1½-2"), 14 Lepomis spp.(1½"), 2 carp (18-20"), 4 unidentified fish (1-2")	9 largemouth bass (3-4"), 3 Lepomis spp.(1½-2"), 15 yellow perch (1-2"), 4 unidentified fish (<1"), 1 unidentified fish (2")
14 Aug			
Water Temperature (C)	26.0-27.5	25.0-28.5	26.5-27.5
Water Clarity	Moderately turbid	Clear	Clear
Active Centrarchid Nests Observed	2	0	3
Schools of Newly Emerged Fry Observed	0	1	0
Miscellaneous Fishes Observed	34 largemouth bass (2-3"), 12 largemouth bass (4-5"), 11 pumpkinseed (3½-4½"), 6 Lepomis spp.(2-3")	23 largemouth bass (2-3"), 1 largemouth bass (9") on brush pile, 1 largemouth bass (1½"), 1 smallmouth bass (3"), 4 Lepomis spp. (1½"), 1 carp (15"), 2 unidentified fish (1-1½")	30 largemouth bass (≈4"), 10 largemouth bass (2-3"), 50 Lepomis spp.(2-2½"), 30 Lepomis spp.(1½-3") on brush pile, 23 smallmouth bass (2-3"), 9 pumpkinseed (3-4"), 4 pumpkinseed (2½"), 5 yellow perch (2-3"), 1 rock bass (3")
19 Aug			
Water Temperature (C)	24.5-25.0	23.5-24.0	24.5-27.0
Water Clarity	Moderately turbid	Clear	Clear
Active Centrarchid Nests Observed	1	0	3
Schools of Newly Emerged Fry Observed	0	0	0
Miscellaneous Fishes Observed	43 largemouth bass (3-4"), 1 largemouth bass (≈6"), 3 smallmouth bass (2-3"), 15 Lepomis spp.(3")	17 largemouth bass (≈7"), 10 largemouth bass (≈4"), 1 largemouth bass (≈10"), 2 largemouth bass (≈2"), 1 smallmouth bass (≈8"), 6 pumpkinseed (5-7"), 8 Lepomis spp. (≈3"), 2 tessellated darter (1"), 1 cyprinid (≈3")	35 largemouth bass (5-7"), 7 largemouth bass (2"), 3 smallmouth bass (3"), 17 pumpkinseed (≈4"), 1 pumpkinseed (≈6"), 28 Lepomis spp. (≈2"), 1 tessellated darter (≈2"), 2 unidentified fish (≈3")

Table 35 - (Continued).

Date	Pond Elevation (ft) 2002.4	2001.5	2000.0
28 Aug			
Water Temperature (C)	22.0-24.0	22.0-23.0	23.0-24.0
Water Clarity	Moderately turbid	Very clear	Clear
Active Centrarchid Nests Observed	0	0	0
Schools of Newly Emerged Fry Observed	0	0	0
Miscellaneous Fishes Observed	23 largemouth bass (2-3"), 4 largemouth bass (4-5"), 12 pumpkinseed (2-3"), 2 largemouth bass (≈3½"), 11 pumpkinseed (1½-2½") and 7 unidentified fish on brush pile, 1 unidentified fish (≈3½").	12 largemouth bass (2½-3"), 15 largemouth bass (4-7"), 2 smallmouth bass (6-7"), 5 smallmouth bass (2½-3"), 5 pumpkinseed (1½-2"), 1 carp (18"), 4 largemouth bass (4-6") and 8 pumpkinseed (4-6") on brush pile	12 largemouth bass (4-6"), 11 largemouth bass (≈2½"), 2 smallmouth bass (2½-3"), 26 Lepomis spp.(1½-2"), 1 Lepomis spp.(≈3"), 10 pumpkinseed (2½-4"), 30 cyprinid (2½-3"), 12 unidentified fish (½-1"), 20 Lepomis spp.(1½-2") on brush pile
Aquatic Vegetation (Aug)**	Cattails, sedge, submerged vegetation, emergent vegetation, algae, phragmites	Sedge, algae, emergent vegetation, submerged vegetation, cattails	Cattails, sedge, submerged vegetation, emergent vegetation, water stargrass, algae
2 Sep			
Water Temperature (C)	21.0-22.0	22.0-23.0	21.5-22.0
Water Clarity	Moderately turbid	Clear	Clear
Schools of Newly Emerged Fry Observed	0	0	0
Miscellaneous Fishes Observed	10 largemouth bass (2-3")	1 largemouth bass (7") 17 largemouth bass (2-4") 3 pumpkinseed (4-5") 7 Lepomis spp.(≈2")	30 largemouth bass (≈2") 7 largemouth bass (4-5") 4 largemouth bass (≈8") 1 Lepomis spp.(≈3") 1 unidentified fish (≈2")
Aquatic Vegetation	Cattails, sedge, submerged vegetation, emergent vegetation, algae, phragmites	Sedge, algae, emergent vegetation, submerged vegetation, cattails, water stargrass	Cattails, sedge, submerged vegetation, emergent vegetation, water stargrass, algae

**Cattails first appeared in CLP 2001.5 ft. at the end of August

Table 36. Description of water quality stations sampled in 1981 in Schoharie Reservoir, Schoharie Creek, Esopus Creek, and the STO.

Station		Description
27	Schoharie Reservoir	Located 0.1 mi southeast of the Shandaken Tunnel intake. The bottom is sandy silt (Roelofs 1944). The depth is 59 ft at elevation 1130 ft. Shoreline vegetation consists of conifers and hardwoods.
28	Schoharie Reservoir	Located 0.4 mi from the west shore, 0.9 mi south of the entrance of the Manor Kill into Schoharie Reservoir, and 0.3 mi from the east shore. The bottom is silt and clay. The depth is 75 ft at elevation 1130 ft. Shoreline vegetation is conifers and hardwoods.
30	Schoharie Reservoir	Located 0.2 mi northwest of the island and 0.5 mi southeast of the east end of Gilboa Dam. The bottom is silt and clay. The depth is 112 ft at elevation 1130 ft. The shoreline vegetation is conifers and hardwoods.
1	Schoharie Creek	Located along the west shore 0.2 mi upstream from Schoharie Reservoir, 110 ft upstream from the Prattsville iron bridge, and about 10 ft upstream from the USGS gaging station (installed in November 1902). The banks are steep and contain large pines and hardwoods, saplings, brush, and grasses. The bottom is boulders and bedrock. The elevation is 1140 ft.
2	Schoharie Creek	Located along the west shore 0.4 mi downstream from Gilboa Dam, 20 ft upstream from the Gilboa iron bridge, and 150 ft downstream from the USGS gaging station (installed in October 1975). The west bank is steep and heavily forested with mixed hardwoods. The east bank is a gradual incline heavily forested with mixed hardwoods, with some open areas of grass. The bottom is boulders and bedrock. The elevation is 970 ft.
21	Esopus Creek	Located along the south shore 1.6 mi upstream from the STO at bridge along Route 28. The south bank is steep with shrubs and grasses. The north bank is flat with some hardwoods. The bottom is rubble. The elevation is 1040 ft.
20	STO	Located along the north shore of Esopus Creek at Allaben, New York. The bottom and sides are lined with cobblestone pavers. The south bank is flat with shrubs and grasses. The elevation is 980 ft.
19	Esopus Creek	Located along the north shore 2.4 mi downstream from the STO. The banks are flat with shrubs and grasses. The bottom is rubble. The elevation is 900 ft.
31	Esopus Creek	Located along the south shore 7.6 mi downstream from the STO at Mount Pleasant, New York. The south bank is steep with boulders. The north bank is flat and has hardwoods and shrubs. The bottom is boulders and gravel. The elevation is 700 ft.
37	Esopus Creek	Located along the north shore 10.6 mi downstream from the STO at the USGS gaging station at Coldbrook (installed in January 1914). Both banks are steep with conifers and hardwoods. The bottom is rubble and gravel. The elevation is 640 ft.

Table 37. Rainfall (inches) recorded for the 24-hr period beginning at 0800 of date given and ending at 0800 of following day from January through December 1981 at Lower B-G (LBG), Schoharie Reservoir (SR), Tannersville Sewage Treatment Plant (TST), and Ashokan Reservoir (AR); and average values among four locations in the Esopus Creek watershed (EC).

	Rainfall (inches)				
Date	LBG	SR	TST*	AR	EC**
1 Jan	0.00	0.01	TR***	0.02	0.01
2 Jan	0.02	TR	TR	0.00	0.00
3 Jan	TR	0.03	TR	0.02	0.04
4 Jan	TR	0.00	0.10	0.00	0.00
5 Jan	0.03	0.00	0.00	0.00	0.00
6 Jan	0.00	0.21	0.26	0.30	0.38
7 Jan	0.08	TR	0.02	0.00	0.03
8 Jan	TR	0.00	0.00	0.00	0.00
9 Jan	0.00	0.00	0.00	0.00	0.00
10 Jan	TR	TR	TR	0.00	0.00
11 Jan	TR	0.00	0.00	0.00	0.00
12 Jan	0.00	0.00	0.00	0.00	0.00
13 Jan	0.00	0.00	0.00	0.00	0.00
14 Jan	TR	TR	0.00	0.00	0.00
15 Jan	TR	TR	TR	0.00	0.00
16 Jan	0.13	0.07	0.13	0.04	0.07
17 Jan	TR	0.00	TR	0.00	0.00
18 Jan	TR	0.00	TR	0.00	0.00
19 Jan	0.00	0.00	0.00	0.00	0.00
20 Jan	0.00	0.00	0.00	0.00	0.00
21 Jan	0.00	0.00	0.00	0.00	0.00
22 Jan	0.02	0.01	0.01	0.00	0.03
23 Jan	0.01	TR	0.00	0.00	0.00
24 Jan	0.00	0.00	0.00	0.00	0.00
25 Jan	0.00	0.00	0.00	0.00	0.00
26 Jan	0.00	0.00	0.00	0.00	0.00
27 Jan	TR	TR	0.00	0.00	0.00
28 Jan	0.01	TR	0.01	0.01	0.03
29 Jan	TR	TR	TR	0.00	0.00
30 Jan	0.00	0.00	0.00	0.00	0.00
31 Jan	0.00	0.00	0.00	0.00	0.00
1 Feb	1.42	1.08	3.30	1.77	3.09
2 Feb	0.61	0.85	1.38	0.70	0.86
3 Feb	TR	TR	TR	0.00	0.00
4 Feb	0.02	0.01	0.02	0.00	0.04
5 Feb	0.00	0.00	0.00	0.00	0.00
6 Feb	0.01	0.01	0.00	0.03	0.13
7 Feb	0.00	0.00	0.00	0.00	0.00
8 Feb	0.42	0.54	0.47	0.33	0.42
9 Feb	0.00	0.00	0.00	0.00	0.00
10 Feb	0.10	0.18	1.56	0.86	1.02
11 Feb	1.03	0.61	2.26	0.92	1.69
12 Feb	0.00	0.00	0.00	0.00	0.00
13 Feb	0.00	0.00	0.00	0.00	0.00
14 Feb	0.00	0.00	0.00	0.00	0.00
15 Feb	0.00	0.00	0.00	0.00	0.00
16 Feb	0.04	0.01	0.06	0.03	0.05
17 Feb	TR	TR	0.00	0.00	0.00
18 Feb	0.00	0.00	0.00	0.00	0.00
19 Feb	0.04	0.08	1.72	1.35	1.25
20 Feb	0.66	1.09	3.43	1.62	2.54
21 Feb	0.09	0.06	0.23	0.18	0.40
22 Feb	0.00	0.00	0.22	0.00	0.00
23 Feb	0.50	0.45	1.57	1.16	1.21
24 Feb	TR	TR	0.00	0.01	0.02
25 Feb	0.34	0.27	0.63	0.02	0.14
26 Feb	0.00	0.00	0.00	0.00	0.00
27 Feb	0.00	0.00	0.00	0.00	0.00
28 Feb	0.10	0.06	0.04	0.02	0.01

* The Tannersville Sewage Treatment Plant is located in the Schoharie Creek watershed about 22 mi upstream from Schoharie Reservoir.

** EC = average for Highmount, Slide Mountain, Phoenicia, and Coldbrook.

*** TR = trace.

Table 37 - (Continued).

Date	Rainfall (inches)				
	LBG	SR	TST	AR	EC
1 Mar	TR	TR	0.00	0.00	0.00
2 Mar	0.31	0.04	0.07	0.00	0.02
3 Mar	0.00	0.00	TR	0.00	0.00
4 Mar	0.00	0.00	0.00	0.00	0.00
5 Mar	0.00	0.00	0.00	0.00	0.00
6 Mar	0.00	0.03	0.25	0.00	0.03
7 Mar	0.17	0.16	0.29	0.00	0.07
8 Mar	TR	0.00	TR	0.00	0.00
9 Mar	0.00	TR	TR	0.00	0.02
10 Mar	TR	TR	TR	0.00	0.00
11 Mar	TR	TR	0.02	0.00	0.00
12 Mar	0.05	0.05	0.03	0.00	0.09
13 Mar	TR	0.07	0.05	0.00	0.00
14 Mar	TR	TR	0.00	0.00	0.00
15 Mar	0.11	0.00	0.00	0.00	0.00
16 Mar	TR	0.00	TR	0.00	0.00
17 Mar	TR	0.04	0.05	0.00	0.03
18 Mar	0.00	0.00	0.00	0.00	0.00
19 Mar	TR	0.02	0.03	0.00	0.05
20 Mar	0.00	0.02	0.08	0.00	0.01
21 Mar	0.03	TR	0.00	0.00	0.00
22 Mar	0.00	0.00	0.00	0.00	0.00
23 Mar	0.00	0.00	0.00	0.00	0.00
24 Mar	0.01	TR	0.03	0.00	0.03
25 Mar	TR	TR	0.02	0.00	0.00
26 Mar	0.04	0.02	0.03	0.02	0.00
27 Mar	TR	TR	0.00	0.01	0.07
28 Mar	0.00	0.00	0.00	0.00	0.00
29 Mar	0.00	0.00	0.00	0.00	0.00
30 Mar	0.08	0.15	0.16	0.34	0.33
31 Mar	0.00	0.00	0.00	0.00	0.00
1 Apr	0.00	0.68	0.87	0.70	1.02
2 Apr	0.57	0.00	0.00	0.00	0.00
3 Apr	0.00	0.00	0.02	0.00	0.00
4 Apr	0.00	0.00	0.00	0.01	0.02
5 Apr	0.15	0.15	0.31	0.43	0.37
6 Apr	TR	0.00	0.00	0.00	0.00
7 Apr	0.00	0.00	0.00	0.00	0.00
8 Apr	0.01	TR	TR	0.00	0.04
9 Apr	0.25	0.23	0.20	0.18	0.24
10 Apr	0.00	0.04	0.00	0.00	0.00
11 Apr	0.04	0.00	0.00	0.00	0.00
12 Apr	0.00	0.00	0.00	0.00	0.00
13 Apr	0.01	TR	0.01	0.05	0.03
14 Apr	0.17	0.10	0.32	0.64	0.49
15 Apr	0.00	0.00	0.00	0.00	0.00
16 Apr	TR	TR	TR	0.01	0.03
17 Apr	0.01	0.02	0.00	0.00	0.05
18 Apr	0.00	0.00	0.00	0.00	0.00
19 Apr	TR	TR	0.00	0.00	0.00
20 Apr	0.00	0.00	0.00	0.00	0.00
21 Apr	0.00	0.00	0.00	0.00	0.00
22 Apr	TR	TR	TR	0.00	0.00
23 Apr	0.41	0.35	0.29	0.43	0.42
24 Apr	0.06	0.04	0.02	0.00	0.05
25 Apr	TR	TR	0.00	0.00	0.00
26 Apr	0.00	0.00	0.00	0.00	0.00
27 Apr	TR	TR	0.00	0.00	0.00
28 Apr	0.15	0.12	0.09	0.21	0.21
29 Apr	0.26	0.55	0.54	0.21	0.36
30 Apr	0.00	0.00	0.00	0.00	0.00

Table 37 - (Continued).

Date	Rainfall (inches)				
	LBG	SR	TST	AR	EC
1 May	0.00	0.00	0.00	0.07	0.01
2 May	0.00	0.00	0.00	0.00	0.00
3 May	0.00	0.00	0.00	0.00	0.00
4 May	0.00	0.00	0.00	0.00	0.00
5 May	0.00	0.00	0.00	0.00	0.00
6 May	0.09	0.06	TR	0.00	0.02
7 May	0.00	0.00	0.00	0.00	0.00
8 May	0.00	0.00	0.00	0.00	0.00
9 May	0.00	0.00	0.00	0.00	0.00
10 May	0.06	0.10	0.29	0.27	0.48
11 May	1.76	1.76	3.18	2.43	3.75
12 May	1.10	0.88	0.61	1.05	0.60
13 May	0.00	0.00	0.00	0.00	0.00
14 May	0.00	0.00	0.00	0.00	0.00
15 May	0.44	0.30	0.50	0.80	0.65
16 May	0.01	TR	0.00	0.70	0.64
17 May	0.00	0.00	0.00	0.00	0.00
18 May	0.00	0.00	0.00	0.00	0.00
19 May	0.00	0.00	0.00	0.00	0.00
20 May	0.00	0.00	0.00	0.00	0.00
21 May	0.00	TR	0.00	0.00	0.00
22 May	0.00	0.00	0.00	0.00	0.00
23 May	0.00	0.00	0.00	0.00	0.00
24 May	0.00	0.00	0.00	0.00	0.00
25 May	0.05	0.03	0.00	0.00	0.00
26 May	0.03	TR	0.01	0.01	0.02
27 May	0.00	0.00	0.00	0.00	0.00
28 May	0.16	0.20	0.38	0.42	0.34
29 May	0.36	0.08	0.30	0.07	0.26
30 May	0.51	0.35	0.45	0.11	0.34
31 May	0.00	TR	0.00	0.00	0.00
1 Jun	0.00	0.00	0.02	0.00	0.04
2 Jun	0.01	0.01	0.01	0.02	0.04
3 Jun	0.16	0.20	0.08	0.13	0.24
4 Jun	0.00	0.00	0.00	0.00	0.00
5 Jun	0.07	0.10	0.00	0.00	0.00
6 Jun	0.00	0.16	0.00	0.00	0.00
7 Jun	0.00	TR	0.00	0.00	0.00
8 Jun	0.11	0.03	0.05	0.07	0.10
9 Jun	0.10	TR	0.00	0.01	0.03
10 Jun	0.25	0.40	0.21	0.04	0.11
11 Jun	0.00	0.00	0.00	0.00	0.00
12 Jun	0.32	0.46	0.74	0.43	0.42
13 Jun	0.76	0.66	0.74	0.81	0.90
14 Jun	0.09	0.28	0.76	0.35	0.47
15 Jun	0.37	0.25	0.41	0.22	0.27
16 Jun	0.05	0.02	0.00	0.00	0.00
17 Jun	0.00	0.00	0.00	0.00	0.00
18 Jun	0.00	0.00	0.00	0.00	0.00
19 Jun	TR	TR	0.00	0.00	0.00
20 Jun	0.62	0.10	0.16	0.31	0.12
21 Jun	0.36	0.31	0.12	0.43	0.48
22 Jun	0.25	0.09	0.67	0.50	0.38
23 Jun	0.00	0.00	0.00	0.00	0.00
24 Jun	0.00	0.00	0.00	0.00	0.00
25 Jun	0.51	0.33	0.24	0.16	0.25
26 Jun	0.00	TR	0.00	0.00	0.00
27 Jun	0.00	0.00	0.00	0.00	0.00
28 Jun	0.00	0.00	0.00	0.00	0.00
29 Jun	0.00	0.00	0.00	0.00	0.00
30 Jun	0.00	0.00	0.00	0.00	0.00

Table 37 - (Continued).

Date	Rainfall (inches)				
	LBG	SR	TST	AR	EC
1 Jul	0.26	0.33	1.31	0.35	0.77
2 Jul	0.73	1.21	1.93	0.67	1.39
3 Jul	0.00	TR	TR	0.35	0.13
4 Jul	0.97	0.86	0.30	1.02	1.06
5 Jul	0.03	0.04	1.51	0.00	0.01
6 Jul	0.00	0.00	0.00	0.00	0.00
7 Jul	0.00	0.00	0.00	0.00	0.00
8 Jul	0.00	0.00	0.00	0.00	0.00
9 Jul	0.12	0.00	0.04	0.00	0.07
10 Jul	0.00	0.00	0.00	0.00	0.00
11 Jul	0.00	0.00	0.00	0.00	0.00
12 Jul	0.00	0.00	0.00	0.00	0.00
13 Jul	0.00	0.00	TR	0.00	0.06
14 Jul	0.00	0.00	0.00	0.00	0.00
15 Jul	0.00	0.00	0.00	0.00	0.00
16 Jul	0.00	0.00	0.00	0.00	0.00
17 Jul	0.00	0.00	0.00	0.00	0.00
18 Jul	0.02	0.00	0.05	0.00	0.00
19 Jul	0.17	0.10	0.03	0.19	0.23
20 Jul	0.69	0.75	1.17	1.10	0.99
21 Jul	0.25	0.02	0.00	0.02	0.05
22 Jul	0.00	0.00	0.60	0.00	0.00
23 Jul	0.00	0.00	0.00	0.00	0.00
24 Jul	0.00	0.00	0.00	0.00	0.00
25 Jul	0.00	0.00	0.00	0.00	0.00
26 Jul	0.20	0.42	0.65	0.50	0.62
27 Jul	0.00	0.00	0.00	0.00	0.00
28 Jul	0.13	0.16	0.38	0.29	0.43
29 Jul	0.00	0.00	0.00	0.00	0.00
30 Jul	0.00	0.00	0.00	0.00	0.00
31 Jul	0.00	0.00	0.00	0.00	0.00
1 Aug	0.00	0.00	0.00	0.00	0.00
2 Aug	0.00	0.00	0.00	0.00	0.00
3 Aug	0.00	TR	0.53	0.06	0.16
4 Aug	0.13	0.11	0.02	0.00	0.06
5 Aug	0.06	0.04	0.06	0.00	0.04
6 Aug	0.00	0.00	0.00	0.00	0.00
7 Aug	0.27	0.35	0.00	0.00	0.00
8 Aug	0.00	0.02	0.01	0.07	0.14
9 Aug	0.00	0.00	0.00	0.00	0.00
10 Aug	0.00	0.00	0.00	0.00	0.00
11 Aug	0.05	0.08	0.68	0.26	0.11
12 Aug	0.00	0.00	0.00	0.00	0.00
13 Aug	0.00	0.00	0.01	0.00	0.00
14 Aug	0.00	0.00	0.00	0.00	0.00
15 Aug	0.31	0.32	1.05	0.07	0.66
16 Aug	TR	TR	0.00	0.00	0.00
17 Aug	0.00	0.00	0.00	0.00	0.00
18 Aug	0.00	0.00	0.00	0.00	0.00
19 Aug	0.00	0.00	0.00	0.00	0.00
20 Aug	0.00	0.00	0.00	0.00	0.00
21 Aug	0.00	0.00	0.00	0.00	0.00
22 Aug	0.00	0.00	0.00	0.00	0.00
23 Aug	0.02	TR	0.01	0.00	0.03
24 Aug	0.02	0.42	0.31	0.02	0.15
25 Aug	0.00	0.00	0.00	0.00	0.00
26 Aug	0.00	0.00	0.00	0.00	0.00
27 Aug	0.05	TR	0.00	0.00	0.00
28 Aug	0.06	0.03	0.00	0.00	0.06
29 Aug	0.02	TR	0.00	0.00	0.00
30 Aug	0.01	0.00	0.37	0.05	0.62
31 Aug	TR	TR	0.06	0.15	0.30

Table 37 - (Continued).

Date	Rainfall (inches)				
	LBG	SR	TST	AR	EC
1 Sep	0.00	0.00	0.05	0.08	0.15
2 Sep	0.52	0.37	0.23	0.02	0.13
3 Sep	0.49	0.71	0.14	0.00	0.10
4 Sep	0.02	TR	0.00	0.00	0.00
5 Sep	0.00	0.00	TR	0.00	0.00
6 Sep	0.03	0.06	0.61	0.03	0.22
7 Sep	TR	TR	0.00	0.01	0.03
8 Sep	0.63	1.38	2.53	2.06	2.25
9 Sep	0.00	0.02	0.00	0.00	0.00
10 Sep	0.01	0.00	0.00	0.01	0.00
11 Sep	0.00	0.00	0.00	0.00	0.00
12 Sep	0.01	0.00	0.00	0.00	0.09
13 Sep	0.01	0.00	0.03	0.00	0.05
14 Sep	0.38	1.07	1.01	0.56	0.98
15 Sep	TR	0.02	0.14	0.18	0.15
16 Sep	0.03	0.05	0.05	0.05	0.07
17 Sep	0.04	0.02	0.03	0.00	0.04
18 Sep	0.14	0.11	0.08	0.06	0.05
19 Sep	0.03	0.01	0.05	0.15	0.08
20 Sep	0.02	TR	0.03	0.00	0.04
21 Sep	0.10	0.02	TR	0.00	0.05
22 Sep	0.49	0.58	0.18	0.36	0.28
23 Sep	0.39	0.30	0.65	0.01	0.27
24 Sep	0.10	0.29	0.12	0.00	0.07
25 Sep	TR	TR	0.02	0.00	0.00
26 Sep	0.00	TR	0.00	0.00	0.00
27 Sep	0.44	0.48	0.79	0.21	0.35
28 Sep	0.05	0.04	0.05	0.00	0.02
29 Sep	0.00	0.00	0.00	0.00	0.00
30 Sep	0.00	0.00	TR	0.04	0.02
1 Oct	0.52	0.48	0.56	0.66	0.82
2 Oct	0.08	0.10	0.14	0.09	0.08
3 Oct	0.05	0.04	0.03	0.00	0.00
4 Oct	TR	0.00	TR	0.00	0.04
5 Oct	0.00	0.00	0.00	0.00	0.00
6 Oct	0.30	0.33	0.20	0.30	0.26
7 Oct	0.16	0.19	0.06	0.02	0.19
8 Oct	TR	TR	TR	0.00	0.03
9 Oct	0.02	TR	0.00	0.02	0.01
10 Oct	0.00	0.00	0.00	0.00	0.00
11 Oct	0.00	0.00	0.00	0.00	0.00
12 Oct	0.00	0.00	0.00	0.00	0.00
13 Oct	0.00	0.00	0.00	0.00	0.00
14 Oct	0.00	0.00	0.00	0.00	0.00
15 Oct	0.00	0.00	0.00	0.00	0.00
16 Oct	0.01	TR	0.00	0.00	0.00
17 Oct	0.00	0.00	0.00	0.00	0.00
18 Oct	0.21	0.15	0.53	0.77	0.51
19 Oct	0.03	0.03	0.00	0.00	0.02
20 Oct	0.00	0.00	0.00	0.00	0.00
21 Oct	0.00	0.00	0.00	0.00	0.00
22 Oct	0.01	TR	TR	0.00	0.02
23 Oct	0.67	0.81	0.51	0.86	0.82
24 Oct	TR	TR	0.00	0.00	0.00
25 Oct	0.23	0.26	0.85	0.64	0.35
26 Oct	0.50	0.44	0.35	0.44	0.48
27 Oct	1.24	0.95	0.84	0.64	0.88
28 Oct	0.00	0.02	0.00	0.00	0.42
29 Oct	0.00	0.00	0.00	0.00	0.00
30 Oct	0.00	0.00	0.00	0.00	0.00
31 Oct	0.00	0.00	0.00	0.00	0.00

Table 37- (Continued).

Date	Rainfall (inches)				
	LBG	SR	TST	AR	EC
1 Nov	0.00	0.00	0.00	0.00	0.00
2 Nov	0.00	0.00	0.00	0.00	0.00
3 Nov	0.00	0.00	0.00	0.00	0.00
4 Nov	0.00	0.00	0.00	0.00	0.00
5 Nov	0.23	0.31	0.26	0.36	0.27
6 Nov	0.11	0.23	0.11	0.02	0.15
7 Nov	0.09	0.05	0.04	0.00	0.07
8 Nov	0.00	0.00	0.00	0.00	0.00
9 Nov	0.00	0.00	0.00	0.00	0.00
10 Nov	0.00	0.00	0.00	0.00	0.00
11 Nov	0.00	0.00	0.00	0.00	0.00
12 Nov	0.00	0.00	0.00	0.00	0.00
13 Nov	0.00	0.00	0.00	0.00	0.00
14 Nov	0.08	0.14	0.17	0.31	0.22
15 Nov	0.11	0.10	0.31	0.03	0.16
16 Nov	0.01	0.03	0.05	0.06	0.06
17 Nov	0.17	0.15	0.11	0.06	0.04
18 Nov	0.02	TR	0.00	0.00	0.04
19 Nov	0.18	0.17	0.14	0.31	0.24
20 Nov	0.29	0.28	0.28	0.22	0.23
21 Nov	0.07	0.04	TR	0.00	0.00
22 Nov	0.04	TR	TR	0.00	0.00
23 Nov	TR	0.00	0.00	0.00	0.00
24 Nov	0.00	0.00	0.00	0.00	0.00
25 Nov	0.00	0.00	TR	0.00	0.00
26 Nov	0.09	0.10	0.33	0.08	0.12
27 Nov	0.00	0.00	0.00	0.00	0.00
28 Nov	TR	0.02	TR	0.00	0.03
29 Nov	0.00	TR	0.01	0.00	0.00
30 Nov	0.00	0.00	0.00	0.00	0.00
1 Dec	0.40	0.31	0.86	1.08	0.78
2 Dec	0.00	0.00	0.00	0.00	0.02
3 Dec	0.00	TR	0.00	0.00	0.00
4 Dec	TR	TR	TR	0.00	0.00
5 Dec	0.00	0.00	0.00	0.00	0.00
6 Dec	0.00	0.00	0.00	0.00	0.00
7 Dec	0.00	0.00	0.00	0.00	0.00
8 Dec	0.18	0.12	0.15	0.00	0.12
9 Dec	0.04	0.04	0.06	0.00	0.02
10 Dec	TR	0.00	TR	0.00	0.00
11 Dec	TR	0.06	0.01	0.00	0.00
12 Dec	TR	0.00	0.01	0.00	0.00
13 Dec	TR	0.00	0.00	0.00	0.00
14 Dec	0.35	0.28	0.38	0.54	0.41
15 Dec	0.45	0.80	1.06	0.63	0.63
16 Dec	TR	0.04	0.03	0.00	0.00
17 Dec	0.21	0.14	0.14	0.22	0.20
18 Dec	0.03	0.04	0.02	0.00	0.02
19 Dec	TR	TR	0.00	0.00	0.00
20 Dec	0.00	0.00	0.00	0.00	0.00
21 Dec	0.10	0.04	0.02	0.05	0.16
22 Dec	0.48	0.54	0.50	0.62	0.53
23 Dec	0.05	0.00	0.01	0.00	0.07
24 Dec	0.00	0.00	0.00	0.00	0.07
25 Dec	0.00	0.00	0.00	0.00	0.00
26 Dec	0.00	0.00	0.00	0.00	0.00
27 Dec	0.08	0.05	0.54	0.43	0.44
28 Dec	TR	0.01	0.05	0.03	0.06
29 Dec	TR	0.00	0.00	0.00	0.03
30 Dec	0.00	0.00	0.00	0.00	0.00
31 Dec	0.00	0.01	0.33	0.35	0.55

Table 38. Time of day water quality samples were collected from February through November* 1981 in Schoharie Creek, Esopus Creek, the STO, and Schoharie Reservoir.

Station	Date																							
	Feb			Apr						May							Jun							
	2	12	21	2	10	16	24	28	29	4	11	12	18	19	26	27	2	8	11	15	16	22	23	29
1	1540	0930	1335	1100	0954	1230	0731	1240	-	1415	1130	-	1030	-	1030	-	1015	0945	-	0915	-	1015	-	1245
2	1525	0915	1320	1045	0935	1235	0715	1220	-	1400	1440	-	1015	-	1000	-	0900	1100	-	0940	-	0930	-	1230
21	1615	1010	1410	1125	1026	1310	0759	1300	-	1445	1200	-	1100	-	1110	-	1045	1130	-	1015	-	1045	-	1310
20	1620	TC**	TC	1130	1035	1315	0806	1315	-	1455	1215	-	1120	-	1125	-	1100	1150	-	1030	-	1100	-	1320
19	1625	1025	1420	1200	1048	1300	0813	1320	-	1500	1245	-	1200	-	1200	-	1145	1215	-	1100	-	1200	-	1345
31	1635	1040	1435	1155	1059	1325	0820	1335	-	1510	1345	-	1300	-	1305	-	1200	1300	-	1215	-	1230	-	1410
37	1645	1050	1445	1145	1109	1330	0829	1330	-	1520	1330	-	1230	-	1245	-	1215	1245	-	1200	-	1215	-	1425
27	-	-	-	-	-	-	1330	-	1105	1045	-	1330	-	1230	-	1200	1230	-	1200	-	1130	-	1130	1130
28	-	-	-	-	-	-	1400	-	1130	1115	-	1300	-	1100	-	1100	1200	-	1115	-	1100	-	1100	1115
30	-	-	-	-	-	-	1430	-	1205	1145	-	1130	-	1000	-	1015	1115	-	1030	-	1000	-	1100	1030

Station	Date																							
	Jul								Aug								Sep							
	6	7	13	14	20	21	27	28	3	4	10	11	17	18	24	31	1	8	14	15	21	22	28	29
1	0930	-	1130	-	0930	-	1030	-	0900	-	0950	-	1140	-	1130	0945	-	1400	0915	-	0930	-	1015	-
2	0900	-	1015	-	0915	-	0945	-	0932	-	1250	-	1100	-	1215	0930	-	1345	1200	-	0600	-	1000	-
21	1015	-	1200	-	1000	-	1115	-	1015	-	1030	-	1210	-	1420	1015	-	1425	1130	-	1010	-	1045	-
20	1030	-	1205	-	1015	-	1130	-	1030	-	1045	-	1230	-	1430	1030	-	1435	1115	-	1020	-	1100	-
19	1045	-	1230	-	1045	-	1145	-	1045	-	1100	-	1245	-	1500	1050	-	1450	1015	-	1100	-	1105	-
31	1115	-	1310	-	1130	-	1315	-	1100	-	1130	-	1315	-	1515	1140	-	1525	1030	-	1100	-	1130	-
37	1130	-	1245	-	1100	-	1300	-	1130	-	1115	-	1300	-	1525	1130	-	1510	1030	-	1045	-	1130	-
27	-	1200	-	1100	-	1200	-	1215	-	1100	-	1200	-	1100	1115	-	1130	1115	-	1040	-	1100	-	1130
28	-	1100	-	1045	-	1130	-	1115	-	1030	-	1115	-	1030	1045	-	1100	1020	-	1015	-	1030	-	1100
30	-	0930	-	1000	-	1045	-	1045	-	0945	-	1045	-	0930	1015	-	1030	0945	-	0945	-	0945	-	1030

Station	Date													
	Oct								Nov					
	5	6	13	14	18	20	26	27	2	3	9	10	16	17
1	1020	-	-	1010	0935	-	1030	-	0945	-	0940	-	0945	-
2	1000	-	-	0950	0915	-	1015	-	0930	-	0930	-	0935	-
21	1045	-	-	1045	1000	-	1045	-	1010	-	1005	-	1015	-
20	1050	-	-	1050	1010	-	1050	-	TC	-	1015	-	1025	-
19	1055	-	-	1100	1015	-	1100	-	1015	-	1020	-	1030	-
31	1105	-	-	1125	1040	-	1125	-	1045	-	1040	-	1050	-
37	1115	-	-	1115	1030	-	1115	-	1030	-	1035	-	1045	-
27	-	1145	1100	-	-	1110	-	1120	-	1110	-	1100	-	1130
28	-	1120	1000	-	-	1045	-	1100	-	1045	-	1030	-	1045
30	-	1045	0930	-	-	1015	-	1030	-	1000	-	1015	-	1000

* No samples were taken in March.
** TC = Shandaken Tunnel closed.

Table 39. Procedures used for water quality determinations.

Parameter	Procedure	Volume Analyzed (ml)	Where Measured	Unit
Turbidity	Nephelometric method[1,2]	25	Lab	nephelometric turbidity unit (NTU)
Suspended Residue	Gravimetric, dried 24 hr at 104±1 C[1,2]	1000 (≤12 NTU) 500 (>12 NTU)	Lab	
Secchi disc transparency	8-inch Secchi disc	-	Field	cm
Depth of euphotic zone	Submarine photometer[1]	-	Field	cm
Air temperature:				
Instantaneous	Hand-held thermometer, digital thermometer	-	Field	C
Water temperature:				
Profiles	Thermistor thermometer	-	Field	C
Instantaneous	Hand-held thermometer, digital thermometer	-	Field	C
Dissolved oxygen:				
Profiles	Oxygen electrode	-	Field	ppm O_2

[1]APHA 1976.
[2]EPA 1974.

Table 40. Summary of turbidity data (NTU) taken from 24 April through 17 November 1981 in Schoharie Reservoir.

Station and Date	Depth (m) Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
27																	
24 Apr	8.8	9.0	9.4	11	-	-	-	-	-	-	-	-	-	-	-	-	-
29 Apr	8.2	8.5	9.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04 May	6.1	7.8	13	14	-	-	-	-	-	-	-	-	-	-	-	-	-
12 May	50	58	56	54	60	-	-	-	-	-	-	-	-	-	-	-	-
19 May	4.8	5.3	6.0	6.2	8.2	8.7	11	-	-	-	-	-	-	-	-	-	-
27 May	2.4	2.5	3.0	2.7	3.5	4.6	-	-	-	-	-	-	-	-	-	-	-
02 Jun	2.0	3.9	2.0	1.9	2.0	-	-	-	-	-	-	-	-	-	-	-	-
11 Jun	2.0	2.0	2.0	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-
16 Jun	2.5	3.5	1.7	2.0	3.8	-	-	-	-	-	-	-	-	-	-	-	-
23 Jun	2.2	2.1	2.1	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
29 Jun	1.3	1.5	1.5	1.8	2.5	8.0	-	-	-	-	-	-	-	-	-	-	-
07 Jul	1.5	1.5	4.4	4.8	5.5	6.1	-	-	-	-	-	-	-	-	-	-	-
14 Jul	0.8	0.9	0.9	1.0	1.2	2.2	-	-	-	-	-	-	-	-	-	-	-
21 Jul	0.8	0.9	1.2	1.1	1.2	6.1	-	-	-	-	-	-	-	-	-	-	-
28 Jul	1.8	1.8	2.0	2.2	2.0	2.8	-	-	-	-	-	-	-	-	-	-	-
04 Aug	0.7	0.9	0.9	0.9	1.1	-	-	-	-	-	-	-	-	-	-	-	-
11 Aug	0.9	1.0	1.0	0.9	1.8	-	-	-	-	-	-	-	-	-	-	-	-
18 Aug	5.9	5.5	5.5	4.6	-	-	-	-	-	-	-	-	-	-	-	-	-
24 Aug	2.4	2.4	2.5	4.5	16	-	-	-	-	-	-	-	-	-	-	-	-
01 Sep	2.0	1.9	2.0	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-
08 Sep	1.8	2.4	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Sep	3.5	3.7	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	2.5	2.4	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 Sep	4.1	4.0	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06 Oct	3.0	2.8	3.0	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	2.9	3.2	3.1	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	4.4	4.5	3.6	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Oct	4.0	4.3	4.8	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-
03 Nov	5.2	5.5	5.7	5.5	5.3	5.3	-	-	-	-	-	-	-	-	-	-	-
10 Nov	3.4	3.6	3.2	3.4	3.5	2.8	-	-	-	-	-	-	-	-	-	-	-
17 Nov	2.2	2.7	2.8	2.5	2.5	-	-	-	-	-	-	-	-	-	-	-	-
28																	
24 Apr	14	15	14	15	15	15	15	16	-	-	-	-	-	-	-	-	-
29 Apr	13	13	13	13	14	15	16	16	-	-	-	-	-	-	-	-	-
04 May	13	14	13	15	15	15	15	-	-	-	-	-	-	-	-	-	-
12 May	9.0	12	10	15	24	29	35	-	-	-	-	-	-	-	-	-	-
19 May	5.6	6.5	6.8	7.4	7.7	8.2	9.0	9.9	12	-	-	-	-	-	-	-	-
27 May	2.7	3.2	3.0	3.5	3.3	3.8	4.8	5.5	6.5	-	-	-	-	-	-	-	-
11 Jun	2.4	2.4	2.8	3.0	4.0	5.8	-	-	-	-	-	-	-	-	-	-	-
16 Jun	1.4	1.6	1.5	2.0	2.8	3.8	3.0	-	-	-	-	-	-	-	-	-	-
23 Jun	1.9	1.9	1.9	2.2	3.5	6.5	6.0	-	-	-	-	-	-	-	-	-	-
29 Jun	1.3	1.4	1.5	1.5	1.9	2.3	3.5	6.0	-	-	-	-	-	-	-	-	-
07 Jul	1.6	1.5	1.6	1.5	2.5	5.4	6.0	3.5	-	-	-	-	-	-	-	-	-
14 Jul	1.1	1.1	1.1	1.1	1.4	2.1	4.4	4.9	4.7	-	-	-	-	-	-	-	-
21 Jul	0.9	1.1	1.1	1.2	1.7	2.3	3.6	5.1	-	-	-	-	-	-	-	-	-
28 Jul	1.8	1.4	1.3	1.0	1.3	1.5	4.5	4.6	-	-	-	-	-	-	-	-	-
04 Aug	0.9	1.0	1.0	0.8	1.1	2.1	2.7	5.6	-	-	-	-	-	-	-	-	-
11 Aug	0.67	0.65	0.68	0.54	1.0	1.5	4.1	-	-	-	-	-	-	-	-	-	-
18 Aug	1.8	1.8	2.0	1.7	2.0	2.4	-	-	-	-	-	-	-	-	-	-	-
24 Aug	1.0	1.0	0.9	1.0	2.5	6.2	-	-	-	-	-	-	-	-	-	-	-
01 Sep	1.6	1.8	1.5	2.5	7.5	5.9	-	-	-	-	-	-	-	-	-	-	-
08 Sep	1.3	1.2	4.5	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Sep	7.0	4.6	3.6	3.9	5.8	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	2.6	2.0	2.0	2.5	2.4	-	-	-	-	-	-	-	-	-	-	-	-
29 Sep	3.5	4.5	3.8	3.9	3.9	-	-	-	-	-	-	-	-	-	-	-	-
06 Oct	3.4	2.8	3.0	3.2	3.3	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	3.5	3.2	2.9	2.9	3.5	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	5.0	15	10	5.5	5.0	-	-	-	-	-	-	-	-	-	-	-	-
27 Oct	4.5	4.6	4.7	4.5	3.7	-	-	-	-	-	-	-	-	-	-	-	-
03 Nov	4.6	4.9	4.8	5.5	5.0	5.2	5.8	5.2	-	-	-	-	-	-	-	-	-
10 Nov	3.4	3.5	3.5	3.5	3.3	3.7	3.6	3.8	-	-	-	-	-	-	-	-	-
17 Nov	2.9	2.5	2.5	2.8	2.6	2.2	2.8	-	-	-	-	-	-	-	-	-	-

Table 40 - (Continued).

Station and Date	Depth (m) Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
30																	
24 Apr	15	15	15	15	15	15	15	15	15	15	15	15	-	-	-	-	-
29 Apr	14	14	14	14	14	14	14	14	15	15	15	15	-	-	-	-	-
04 May	13	12	12	12	13	13	13	13	13	13	14	-	-	-	-	-	-
12 May	10	10	11	12	12	12	12	15	15	15	15	31	52	-	-	-	-
19 May	6.5	7.5	8.0	8.2	8.5	8.5	8.4	9.0	12	14	16	22	25	32	40	38	36
27 May	2.5	2.8	3.1	3.3	3.8	3.9	4.1	5.1	6.4	7.6	3.6	9.6	12	12	14	17	17
03 Jun	1.9	1.8	1.9	2.1	2.0	2.5	3.4	5.0	6.0	6.8	9.3	12	13	15	17.0	-	-
11 Jun	2.0	2.1	2.3	2.7	2.5	2.0	2.7	4.0	6.0	7.4	8.0	12	13	-	-	-	-
16 Jun	1.5	1.8	1.5	8.4	3.5	2.9	3.5	6.0	6.5	7.6	8.8	9.3	12	13	16	-	-
23 Jun	2.0	1.9	2.0	2.0	2.0	2.2	2.6	4.2	4.6	5.7	5.3	5.7	9.1	8.2	8.4	-	-
29 Jun	1.4	1.2	1.3	1.2	1.5	1.6	2.5	4.1	4.7	7.2	7.7	9.9	12	13	18	-	-
07 Jul	1.5	1.5	1.5	1.5	2.1	2.5	2.5	2.1	3.5	4.7	5.5	6.9	7.6	6.3	12	25	-
14 Jul	1.1	1.1	1.2	1.4	1.8	2.6	2.9	3.0	3.2	4.1	6.1	7.4	9.2	12	13	18	-
21 Jul	0.9	1.0	1.0	1.1	1.5	2.4	2.9	2.8	3.1	5.2	6.9	8.9	9.5	13	7.3	16	-
28 Jul	1.0	1.0	1.0	1.0	1.1	1.0	2.5	3.3	4.0	4.2	6.9	7.5	8.4	14	17	18	-
08 Aug	1.0	1.2	1.2	1.2	1.0	1.7	2.5	4.0	4.3	6.0	7.3	9.0	12	14	16	-	-
11 Aug	1.0	1.0	1.0	1.5	0.5	1.2	2.3	4.1	5.0	6.5	7.6	11	14	15	16	17	-
18 Aug	1.4	1.4	1.4	1.3	1.5	1.7	3.1	5.2	6.8	8.5	9.4	9.8	11	12	15	-	-
24 Aug	1.3	1.2	1.2	1.3	1.2	1.7	3.4	4.2	6.6	8.3	9.1	9.3	11	11	-	-	-
01 Sep	1.6	1.6	2.2	1.9	2.0	2.2	4.5	5.5	6.7	7.6	8.6	8.5	13	14	-	-	-
08 Sep	2.2	2.4	2.4	3.0	1.4	3.0	4.0	5.2	6.4	7.6	8.1	9.4	15	-	-	-	-
15 Sep	4.2	4.1	3.8	7.3	5.6	4.1	4.5	5.5	6.2	7.1	7.0	8.0	12	-	-	-	-
22 Sep	2.7	2.7	2.5	2.6	4.2	3.7	4.5	5.9	6.4	6.3	7.0	19	21	-	-	-	-
29 Sep	4.2	4.0	3.8	4.0	5.0	5.5	4.6	6.1	6.3	9.3	25	22	-	-	-	-	-
06 Oct	2.9	2.4	2.5	2.7	3.0	4.4	6.0	5.2	6.0	6.6	11	17	28	-	-	-	-
13 Oct	3.5	3.5	3.5	3.5	3.6	3.8	4.6	6.0	8.6	8.3	18	23	25	30	-	-	-
20 Oct	6.0	6.2	6.5	6.8	6.8	7.0	6.8	7.0	7.4	8.8	11	12	-	-	-	-	-
27 Oct	5.1	5.5	5.4	5.4	5.5	6.0	6.0	6.4	6.8	7.1	7.2	13	14	-	-	-	-
03 Nov	4.7	5.1	4.8	5.1	5.3	4.9	5.5	5.9	7.6	12.0	6.6	12	7.8	8.8	9.1	-	-
10 Nov	4.2	4.6	4.6	4.7	4.7	4.6	4.5	4.7	4.6	4.8	4.4	4.5	4.5	4.7	-	-	-
17 Nov	2.7	2.7	2.8	3.3	3.0	2.2	3.5	2.8	3.0	3.0	3.0	3.2	4.0	3.9	4.8	-	-

Table 41. Summary of suspended residue data (mg/l) taken from 24 April through 17 November 1981 in Schoharie Reservoir.

Station and Date	Depth (m)																
	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
27																	
24 Apr	7.9	ND*	8.5	14.4	-	-	-	-	-	-	-	-	-	-	-	-	-
29 Apr	7.1	7.8	17.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04 May	8.0	9.3	13.6	11.5	-	-	-	-	-	-	-	-	-	-	-	-	-
12 May	75.2	79.4	80.8	81.6	123.2	-	-	-	-	-	-	-	-	-	-	-	-
19 May	3.7	4.8	5.8	5.1	6.2	7.6	9.0	-	-	-	-	-	-	-	-	-	-
27 May	2.0	2.1	2.6	2.3	2.5	3.8	-	-	-	-	-	-	-	-	-	-	-
02 Jun	1.8	6.5	2.1	1.8	1.7	-	-	-	-	-	-	-	-	-	-	-	-
11 Jun	0.9	0.9	0.8	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-
16 Jun	2.2	4.9	1.5	1.9	3.6	-	-	-	-	-	-	-	-	-	-	-	-
23 Jun	1.3	1.7	1.5	1.4	-	-	-	-	-	-	-	-	-	-	-	-	-
29 Jun	ND	ND	1.1	0.2	0.7	8.6	-	-	-	-	-	-	-	-	-	-	-
07 Jul	0.3	1.8	3.8	5.5	3.4	4.3	-	-	-	-	-	-	-	-	-	-	-
14 Jul	ND	ND	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-
21 Jul	ND	ND	0.9	ND	0.3	7.8	-	-	-	-	-	-	-	-	-	-	-
28 Jul	2.0	2.3	2.5	2.4	2.7	4.7	-	-	-	-	-	-	-	-	-	-	-
04 Aug	0.7	0.9	1.2	0.7	0.9	-	-	-	-	-	-	-	-	-	-	-	-
11 Aug	1.1	0.9	0.9	0.9	2.1	-	-	-	-	-	-	-	-	-	-	-	-
18 Aug	7.4	7.5	8.6	8.9	-	-	-	-	-	-	-	-	-	-	-	-	-
24 Aug	3.2	3.0	3.4	7.9	26.4	-	-	-	-	-	-	-	-	-	-	-	-
01 Sep	3.1	3.9	3.6	4.9		-	-	-	-	-	-	-	-	-	-	-	-
08 Sep	1.8	2.0	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Sep	3.1	3.3	4.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	2.9	2.1	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 Sep	2.9	3.6	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06 Oct	3.3	2.8	3.0	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	2.7	3.3	2.9	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	6.1	4.9	4.7	6.3	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Oct	2.9	3.1	2.6	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-
03 Nov	3.6	3.6	3.6	3.5	3.1	3.1	-	-	-	-	-	-	-	-	-	-	-
10 Nov	2.1	2.3	2.0	1.8	1.7	2.5	-	-	-	-	-	-	-	-	-	-	-
17 Nov	2.0	1.5	1.5	1.0	-	-	-	-	-	-	-	-	-	-	-	-	-
30																	
24 Apr	12.5	6.8	5.9	6.5	5.3	6.6	6.0	6.2	6.7	4.9	6.8	4.8	-	-	-	-	-
29 Apr	6.5	17.6	6.7	6.7	8.3	7.6	6.3	8.3	6.5	6.2	7.1	6.9	-	-	-	-	-
04 May	8.4	8.8	7.2	8.1	ND	8.6	8.1	8.2	6.8	5.7	6.5	-	-	-	-	-	-
12 May	11.2	7.7	8.5	11.3	14.1	6.8	7.8	7.1	8.7	6.0	6.5	25.4	58.8	-	-	-	-
19 May	3.4	5.2	4.8	4.5	3.8	6.1	4.6	5.9	5.8	5.7	7.3	7.5	12.7	16.8	14.6	10.0	15.4
27 May	0.9	1.7	1.8	2.1	2.0	1.9	1.5	1.4	1.7	1.9	1.7	2.1	2.4	ND	13.0	3.6	4.8
02 Jun	1.6	1.2	1.7	1.5	1.1	1.5	1.5	1.8	1.4	1.6	1.8	1.3	2.8	3.1	2.7	-	-
11 Jun	1.5	1.6	1.7	2.5	2.3	1.9	2.0	2.2	2.2	2.6	1.9	3.4	3.4	-	-	-	-
16 Jun	1.2	0.7	0.4	6.1	3.2	2.6	2.1	2.7	2.3	2.5	2.2	2.1	3.3	4.1	4.2	-	-
23 Jun	0.4	0.6	0.8	0.5	0.8	0.9	0.7	1.0	1.0	1.0	1.2	1.0	1.1	1.5	1.5	-	-
29 Jun	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	0.2	0.9	1.6	1.8	3.6	-	-
07 Jul	1.3	1.9	1.3	1.3	1.7	1.6	0.9	1.4	0.8	2.5	2.2	2.4	2.8	2.6	4.0	8.0	-
14 Jul	ND	ND	ND	0.4	0.1	0.2	0.5	1.3	1.1	1.1	1.2	1.2	1.4	1.9	1.9	4.0	-
21 Jul	ND	0.2	0.1	0.2	0.6	0.5	0.9	1.1	1.1	1.1	1.8	1.8	2.5	3.2	1.4	4.2	-
28 Jul	0.8	1.0	1.3	1.3	1.5	1.2	1.5	2.4	2.3	2.5	2.5	2.2	3.2	3.1	6.4	5.3	-
08 Aug	0.7	0.9	0.7	1.2	1.0	1.0	1.6	2.3	2.1	2.1	2.3	2.1	3.8	4.9	6.3	-	-
11 Aug	0.8	0.9	1.0	2.0	1.1	1.1	1.4	2.8	2.9	2.5	3.0	3.1	4.2	4.6	5.5	7.3	-
18 Aug	0.8	1.3	0.9	1.6	1.0	1.2	1.9	2.5	2.7	2.8	2.8	2.9	3.4	4.1	6.3	-	-
24 Aug	2.0	1.2	1.4	1.4	1.7	1.9	2.8	3.6	4.2	3.8	4.6	5.2	5.0	4.9	-	-	-
01 Sep	2.9	2.9	3.1	2.8	3.1	3.1	4.2	4.8	3.7	3.6	4.5	3.7	7.3	10.0	-	-	-
08 Sep	1.5	1.9	1.9	3.9	1.5	1.4	2.6	2.3	1.9	2.1	2.3	3.4	7.3	-	-	-	-
15 Sep	3.5	3.7	3.8	5.9	3.5	3.1	2.6	3.6	2.3	2.8	3.7	5.9	-	-	-	-	-
22 Sep	1.5	1.9	1.9	1.8	2.9	2.3	2.8	3.2	3.0	2.0	2.1	12.9	18.0	-	-	-	-
29 Sep	3.0	3.0	2.4	3.0	3.2	3.6	3.1	3.5	2.5	4.5	17.4	15.1	-	-	-	-	-

* ND = no data recorded.

Table 41 - (Continued).

Station and Date	Depth (m)																
	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
06 Oct	2.3	2.5	2.2	2.3	2.7	4.6	5.8	4.9	5.4	5.0	7.1	11.8	25.7	-	-	-	-
13 Oct	2.0	2.4	2.3	2.6	3.1	3.0	4.4	4.4	5.8	5.0	12.9	21.0	18.9	14.8	-	-	-
20 Oct	6.3	7.0	7.0	7.5	7.3	7.4	7.0	7.5	8.7	9.5	11.2	10.5	-	-	-	-	-
27 Oct	3.4	4.0	3.2	3.4	4.0	4.5	4.5	4.8	6.8	5.7	7.4	11.5	14.5	-	-	-	-
03 Nov	2.6	3.2	3.2	3.1	3.2	3.5	3.2	3.7	4.3	5.2	6.1	5.1	7.6	5.8	6.3	8.0	-
10 Nov	1.9	2.0	2.2	2.1	1.9	2.2	2.3	2.1	3.2	2.9	3.2	2.8	3.2	3.0	3.1	-	-
17 Nov	0.9	1.2	0.9	1.1	1.7	1.7	2.8	2.5	2.6	2.7	3.0	3.2	3.7	4.1	4.6	-	-

Table 42. Summary of Secchi disc transparency data (cm) taken from 24 April through 17 November 1981 in Schoharie Reservoir.

Date	Station 27	28	30
24 Apr	93	70	65
29 Apr	74	62	68
Monthly $\bar{x}$	84	66	67
04 May	73	59	73
12 May	25	80	62
19 May	125	130	110
27 May	260	240	230
Monthly $\bar{x}$	121	127	119
02 Jun	245	250	280
11 Jun	340	235	220
16 Jun	250	470	430
23 Jun	300	355	410
29 Jun	270	390	432
Monthly $\bar{x}$	281	340	354
07 Jul	290	430	490
14 Jul	800	600	500
21 Jul	770	710	540
28 Jul	320	450	570
Monthly $\bar{x}$	545	548	525
04 Aug	500	660	700
11 Aug	510	700	580
18 Aug	90	320	340
24 Aug	160	470	440
Monthly $\bar{x}$	315	538	515
01 Sep	230	300	300
08 Sep	210	420	200
15 Sep	180	95	140
22 Sep	230	230	260
29 Sep	144	170	150
Monthly $\bar{x}$	199	243	210
06 Oct	220	240	240
13 Oct	230	210	200
20 Oct	160	120	100
27 Oct	155	135	130

Table 42 - (Continued).

Date	Station 27	28	30
Monthly $\bar{x}$	191	176	168
03 Nov	123	160	165
10 Nov	220	250	185
17 Nov	290	290	300
Monthly $\bar{x}$	211	233	216
Grand $\bar{x}$	254	300	287
SD	179	190	178
Minimum	25	59	62
Maximum	800	700	700
n	31	31	31

Table 43. Summary of euphotic zone depth data (cm) taken from 24 April through 17 November 1981 in Schoharie Reservoir.

Date	Station 27	Station 28	Station 30
24 Apr	260	190	170
29 Apr	250	160	170
Monthly $\bar{x}$	255	175	170
04 May	260	190	190
12 May	50	210	200
19 May	360	330	250
27 May	530	530	490
Monthly $\bar{x}$	300	315	285
02 Jun	615	580	615
11 Jun	660	630	655
16 Jun	710	800	760
23 Jun	760	700	1030
29 Jun	810	850	900
Monthly $\bar{x}$	710	710	790
07 Jul	535	840	860
14 Jul	1160	960	900
21 Jul	955	965	1000
28 Jul	740	950	1010
Monthly $\bar{x}$	680	745	945
04 Aug	940	1035	915
11 Aug	780	1090	1100
18 Aug	360	770	845
24 Aug	440	860	950
Monthly $\bar{x}$	630	940	955
01 Sep	540	720	740
08 Sep	500	700	685
15 Sep	420	350	440
22 Sep	555	560	740
29 Sep	410	525	440
Monthly $\bar{x}$	485	570	610

Table 43 - (Continued).

Date	Station 27	28	30
06 Oct	540	545	565
13 Oct	615	500	470
20 Oct	425	290	300
27 Oct	400	420	325
Monthly $\bar{x}$	395	350	330
03 Nov	290	350	350
10 Nov	500	480	380
17 Nov	590	620	600
Monthly $\bar{x}$	460	485	445
Grand $\bar{x}$	547	605	615
SD	236	268	291
Minimum	50	160	170
Maximum	1160	1090	1030
n	31	31	31

Table 44. Summary of air temperature data (C) taken from 24 April through 17 November 1981 at Schoharie Reservoir.

Date	Station 27	Station 28	Station 30
24 Apr	9	9	10
29 Apr	16	19	19
Monthly $\bar{x}$	13	14	15
04 May	19	20	17
12 May	15	18	15
19 May	20	16	15
27 May	25	25	26
Monthly $\bar{x}$	20	20	18
02 Jun	16	17	17
11 Jun	20	19	18
16 Jun	32	32	30
23 Jun	18	17	17
29 Jun	27	27	24
Monthly $\bar{x}$	23	22	21
07 Jul	25	25	25
14 Jul	22	20	20
21 Jul	26	26	24
28 Jul	26	25	22
Monthly $\bar{x}$	25	24	23
04 Aug	25	27	25
11 Aug	25	25	25
18 Aug	26	27	23
24 Aug	20	18	17
Monthly $\bar{x}$	24	24	23
01 Sep	23	22	21
08 Sep	21	21	21
15 Sep	20	20	20
22 Sep	17	18	19
29 Sep	10	10	9
Monthly $\bar{x}$	18	18	18

Table 44 - (Continued).

Date	Station 27	Station 28	Station 30
06 Oct	15	15	16
13 Oct	14	12	10
20 Oct	13	12	10
27 Oct	20	20	18
Monthly $\bar{x}$	16	15	13
03 Nov	12	13	12
10 Nov	5	4	3
17 Nov	7	7	8
Monthly $\bar{x}$	8	8	8
Minimum	5	4	3
Maximum	32	32	30

Table 45. Summary of water temperature data (C) taken from 24 April through 17 November 1981 in Schoharie Reservoir.

Station and Date	Depth (m) Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
27																	
24 Apr	8.0	8.0	8.0	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-
29 Apr	9.0	9.0	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04 May	12.0	11.0	10.0	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-
12 May	11.0	11.0	11.0	11.0	11.0	-	-	-	-	-	-	-	-	-	-	-	-
19 May	14.5	14.0	13.0	12.5	12.0	11.0	10.5	10.5	-	-	-	-	-	-	-	-	-
27 May	18.0	17.2	16.0	15.0	12.0	12.0	11.0	-	-	-	-	-	-	-	-	-	-
02 Jun	18.8	18.1	17.0	16.8	15.0	12.0	-	-	-	-	-	-	-	-	-	-	-
11 Jun	19.0	19.0	18.8	17.9	15.0	-	-	-	-	-	-	-	-	-	-	-	-
16 Jun	23.0	21.5	20.0	18.5	15.5	12.5	-	-	-	-	-	-	-	-	-	-	-
23 Jun	21.0	21.0	21.0	20.8	19.5	-	-	-	-	-	-	-	-	-	-	-	-
29 Jun	22.0	21.1	20.5	19.9	18.8	14.5	-	-	-	-	-	-	-	-	-	-	-
07 Jul	24.1	22.2	21.0	20.0	19.5	19.0	-	-	-	-	-	-	-	-	-	-	-
14 Jul	24.8	24.8	24.8	24.8	22.5	20.5	19.0	-	-	-	-	-	-	-	-	-	-
21 Jul	23.8	23.2	23.1	23.0	22.0	20.0	17.0	-	-	-	-	-	-	-	-	-	-
28 Jul	22.5	22.5	22.5	22.5	22.0	20.0	17.5	-	-	-	-	-	-	-	-	-	-
04 Aug	23.6	22.9	22.5	22.3	22.0	-	-	-	-	-	-	-	-	-	-	-	-
11 Aug	23.2	23.0	23.0	22.5	21.5	22.0	-	-	-	-	-	-	-	-	-	-	-
18 Aug	23.0	22.2	22.0	22.0	-	-	-	-	-	-	-	-	-	-	-	-	-
24 Aug	21.1	21.1	21.1	21.0	19.0	-	-	-	-	-	-	-	-	-	-	-	-
01 Sep	20.8	20.8	20.5	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
08 Sep	20.0	20.0	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Sep	19.0	19.0	18.5	18.0	-	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	17.0	17.0	17.0	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-
29 Sep	14.0	14.0	13.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06 Oct	12.5	12.5	12.0	11.5	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	11.1	10.9	10.6	9.5	8.4	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	9.0	9.0	8.9	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Oct	10.0	9.5	9.6	9.0	7.5	-	-	-	-	-	-	-	-	-	-	-	-
03 Nov	9.1	9.1	9.0	9.0	9.0	8.9	8.2	-	-	-	-	-	-	-	-	-	-
10 Nov	7.5	7.5	7.5	7.5	7.0	5.9	5.8	-	-	-	-	-	-	-	-	-	-
17 Nov																	
28																	
24 Apr	8.0	8.0	7.5	7.0	7.0	7.0	7.0	7.0	-	-	-	-	-	-	-	-	-
29 Apr	11.0	11.0	11.0	11.0	10.8	10.8	10.7	10.6	10.0	-	-	-	-	-	-	-	-
04 May	11.0	10.5	10.0	8.0	7.5	7.5	7.0	7.0	-	-	-	-	-	-	-	-	-
12 May	13.5	12.5	12.0	12.0	11.0	10.5	9.0	-	-	-	-	-	-	-	-	-	-
19 May	14.0	13.0	13.0	12.8	12.5	11.5	11.0	10.5	9.5	8.8	-	-	-	-	-	-	-
27 May	20.0	18.5	16.0	15.0	14.0	12.0	11.5	11.0	8.8	-	-	-	-	-	-	-	-
02 Jun	18.9	18.9	18.0	17.0	14.0	12.1	11.2	10.9	10.2	-	-	-	-	-	-	-	-
11 Jun	18.9	18.9	18.9	18.0	15.0	12.0	11.0	9.6	-	-	-	-	-	-	-	-	-
16 Jun	22.5	21.0	20.0	19.5	16.8	13.0	11.0	10.5	-	-	-	-	-	-	-	-	-
23 Jun	21.5	21.5	21.2	20.5	19.0	13.0	11.0	11.0	-	-	-	-	-	-	-	-	-
29 Jun	22.0	21.0	21.0	20.5	19.0	15.0	11.1	10.5	-	-	-	-	-	-	-	-	-
07 Jul	24.5	23.5	22.0	21.0	20.0	19.0	17.5	12.0	10.5	-	-	-	-	-	-	-	-
14 Jul	24.0	24.0	24.0	23.7	21.0	20.0	18.5	15.0	11.0	10.0	-	-	-	-	-	-	-
21 Jul	23.5	23.5	23.0	23.0	22.0	19.5	17.5	13.5	11.0	-	-	-	-	-	-	-	-
28 Jul	23.0	22.9	22.5	22.5	22.5	21.0	17.2	13.0	10.5	-	-	-	-	-	-	-	-
04 Aug	23.2	23.0	22.9	22.5	22.0	20.0	16.5	13.0	-	-	-	-	-	-	-	-	-
11 Aug	24.0	24.0	23.5	23.0	22.0	19.0	14.2	11.8	-	-	-	-	-	-	-	-	-
18 Aug	23.0	22.5	22.2	22.1	22.0	15.5	12.5	-	-	-	-	-	-	-	-	-	-
24 Aug	21.0	21.0	21.0	21.0	19.5	13.5	11.5	-	-	-	-	-	-	-	-	-	-
01 Sep	21.0	21.0	21.0	20.7	16.5	11.5	-	-	-	-	-	-	-	-	-	-	-
08 Sep	20.5	20.2	20.2	19.5	13.0	10.5	-	-	-	-	-	-	-	-	-	-	-
15 Sep	19.5	19.5	19.1	17.9	15.8	11.0	-	-	-	-	-	-	-	-	-	-	-
22 Sep	17.0	17.0	17.0	17.0	12.8	11.0	-	-	-	-	-	-	-	-	-	-	-
17 Sep	14.2	14.5	14.5	14.0	10.5	-	-	-	-	-	-	-	-	-	-	-	-
06 Oct	12.9	12.8	12.6	12.2	11.9	11.0	-	-	-	-	-	-	-	-	-	-	-
13 Oct	11.0	10.9	10.9	10.8	10.5	10.0	-	-	-	-	-	-	-	-	-	-	-
20 Oct	9.5	9.5	9.5	9.5	9.5	9.3	-	-	-	-	-	-	-	-	-	-	-
27 Oct	10.5	10.0	9.9	9.9	9.6	9.2	-	-	-	-	-	-	-	-	-	-	-
03 Nov	9.2	9.1	9.0	9.0	9.0	9.0	9.0	9.0	-	-	-	-	-	-	-	-	-
10 Nov	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.9	7.9	-	-	-	-	-	-	-	-

Table 45 - (Continued).

Station and Date	Depth (m) Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
30																	
24 Apr	8.0	8.0	8.5	8.0	8.0	7.0	7.0	7.0	7.0	7.0	5.0	5.0	5.0	-	-	-	-
29 Apr	9.2	9.0	9.0	8.8	8.2	8.0	7.9	7.5	7.2	7.0	7.0	7.0	-	-	-	-	-
04 May	10.0	10.0	9.0	8.8	8.2	8.0	8.0	8.0	7.2	7.0	7.0	-	-	-	-	-	-
12 May	14.5	14.0	13.0	12.5	11.5	10.5	8.5	8.0	8.0	7.5	7.5	7.0	8.0	8.0	-	-	-
19 May	13.0	12.0	12.0	12.0	12.0	12.0	12.0	11.8	11.0	10.0	9.0	8.0	8.0	8.0	8.0	8.0	8.0
27 May	19.5	19.0	16.5	15.0	14.0	12.3	11.5	11.0	10.0	9.5	9.0	8.9	8.5	8.3	8.0	8.0	8.0
02 Jun	19.0	19.0	18.9	17.2	14.0	12.5	11.5	10.5	10.0	9.0	9.0	8.5	8.2	8.1	8.0	-	-
11 Jun	18.8	18.8	18.8	17.0	15.0	12.8	11.0	10.0	9.9	9.0	8.5	8.2	8.1	8.0	-	-	-
16 Jun	22.0	21.0	20.5	19.0	17.0	12.0	11.0	10.0	9.5	9.0	8.5	8.5	8.5	8.0	8.0	8.0	-
23 Jun	21.0	21.5	21.5	19.5	17.0	16.0	11.0	10.5	10.0	9.0	9.0	8.5	8.5	8.0	8.0	8.0	-
29 Jun	22.5	21.9	21.2	21.02	19.6	16.0	11.4	10.2	9.7	9.0	9.0	8.8	8.6	8.5	8.2	8.0	-
07 Jul	23.5	23.0	23.0	22.0	19.5	19.0	16.0	12.0	10.0	9.5	9.0	9.0	8.5	8.5	8.0	8.0	8.0
14 Jul	23.5	23.5	23.0	22.0	20.7	19.0	16.1	13.0	10.5	10.0	9.1	9.0	8.5	8.1	8.0	8.0	8.0
21 Jul	23.5	23.5	23.5	23.5	22.0	19.5	17.0	13.0	10.0	9.5	9.0	8.5	8.5	8.0	8.0	8.0	8.0
28 Jul	22.8	22.8	22.8	22.6	22.5	21.0	16.0	12.5	10.4	10.0	9.0	8.9	8.5	8.5	8.0	8.0	8.0
08 Aug	23.7	23.5	23.0	22.2	21.8	20.5	16.0	11.2	10.0	9.5	9.0	8.9	8.5	8.5	8.3	8.5	-
11 Aug	24.0	23.5	23.5	23.2	22.5	19.0	13.5	10.5	9.5	9.0	8.5	8.5	8.5	8.1	8.1	8.0	8.0
18 Aug	22.0	21.5	21.5	21.5	21.5	15.0	11.0	10.0	9.1	8.5	8.5	8.2	8.2	8.0	8.0	8.0	-
24 Aug	20.9	20.9	20.9	20.9	20.9	13.0	10.5	9.8	9.0	8.8	8.6	8.5	8.2	8.0	8.0	-	-
01 Sep	21.0	21.0	21.0	21.0	15.5	12.0	10.0	9.5	8.5	8.5	8.5	8.0	8.0	8.0	-	-	-
08 Sep	20.9	20.9	20.7	20.5	13.0	11.0	10.0	9.0	8.8	8.5	8.2	8.1	8.0	8.0	-	-	-
15 Sep	19.8	19.8	19.5	17.1	15.2	11.0	10.0	9.0	8.8	8.5	8.2	8.1	8.0	8.0	-	-	-
22 Sep	17.1	17.1	17.0	14.2	11.5	9.7	9.1	8.7	8.5	8.2	8.2	8.1	-	-	-	-	-
29 Sep	14.0	14.0	14.0	14.0	13.5	11.0	9.1	8.9	8.5	8.5	8.5	8.5	8.5	-	-	-	-
06 Oct	12.3	12.3	12.2	12.2	12.1	10.7	10.1	9.0	8.6	8.3	8.2	8.2	8.2	8.2	-	-	-
13 Oct	10.5	10.5	10.5	10.5	10.5	10.5	10.3	9.9	9.0	8.5	8.3	8.1	8.1	8.1	-	-	-
20 Oct	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.1	9.0	8.5	8.2	-	-	-
27 Oct	10.0	9.9	9.8	9.6	9.5	9.5	9.2	9.2	9.1	9.1	9.1	9.0	9.0	9.0	-	-	-
03 Nov	9.0	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.9	8.6	8.6	8.5	8.2	8.2	8.1	8.1	-
10 Nov	7.9	7.9	7.9	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.9	7.6	7.6	-
17 Nov	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 46. Summary of hydrogen ion data (pH) taken from 24 April through 17 November 1981 at surface, mid-depth, and bottom in Schoharie Reservoir.

Station and Date	Depth (m)																
	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
27																	
24 Apr	7.2	-	7.3	7.4	-	-	-	-	-	-	-	-	-	-	-	-	-
29 Apr	7.4	7.4	7.4		-	-	-	-	-	-	-	-	-	-	-	-	-
04 May	7.4	-	7.4	7.4	-	-	-	-	-	-	-	-	-	-	-	-	-
12 May	7.3	-	7.3	-	7.3	-	-	-	-	-	-	-	-	-	-	-	-
19 May	7.6	-	-	7.6	-	-	7.6	-	-	-	-	-	-	-	-	-	-
27 May	7.0	-	-	7.1	-	7.1	-	-	-	-	-	-	-	-	-	-	-
02 Jun	7.2	-	7.4	-	7.1	-	-	-	-	-	-	-	-	-	-	-	-
11 Jun	6.4	-	6.6	-	6.6	-	-	-	-	-	-	-	-	-	-	-	-
16 Jun	7.0	-	7.0	-	6.9	-	-	-	-	-	-	-	-	-	-	-	-
23 Jun	6.8	-	6.8	6.8	-	-	-	-	-	-	-	-	-	-	-	-	-
29 Jun	6.6	-	6.8	-	-	6.6	-	-	-	-	-	-	-	-	-	-	-
07 Jul	6.8	-	7.1	-	-	7.0	-	-	-	-	-	-	-	-	-	-	-
14 Jul	6.9	-	-	6.6	-	6.6	-	-	-	-	-	-	-	-	-	-	-
21 Jul	7.1	-	-	7.1	-	6.9	-	-	-	-	-	-	-	-	-	-	-
28 Jul	6.9	-	6.9	-	-	6.9	-	-	-	-	-	-	-	-	-	-	-
04 Aug	7.0	-	7.1	-	7.1	-	-	-	-	-	-	-	-	-	-	-	-
11 Aug	7.2	-	7.0	-	7.0	-	-	-	-	-	-	-	-	-	-	-	-
18 Aug	6.9	-	7.0	-	7.1	-	-	-	-	-	-	-	-	-	-	-	-
24 Aug	6.4	-	6.5	-	6.5	-	-	-	-	-	-	-	-	-	-	-	-
01 Sep	7.3	-	7.3	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-
08 Sep	7.2	-	7.3	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Sep	7.1	-	7.4	7.4	-	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	7.0	6.9	6.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29 Sep	7.1	7.1	7.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06 Oct	6.6	-	6.4	-	6.6	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	7.1	-	7.0	6.6	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	7.1	6.8	-	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Oct	6.9	6.9	-	6.9	-	-	-	-	-	-	-	-	-	-	-	-	-
03 Nov	7.2	-	-	7.2	-	7.2	-	-	-	-	-	-	-	-	-	-	-
10 Nov	6.6	-	-	6.6	-	6.8	-	-	-	-	-	-	-	-	-	-	-
17 Nov	7.2	-	7.1	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-
28																	
24 Apr	7.4	-	-	-	7.4	-	-	7.4	-	-	-	-	-	-	-	-	-
29 Apr	7.5	-	-	-	7.5	-	-	7.4	-	-	-	-	-	-	-	-	-
04 May	7.3	-	-	7.4	-	-	7.4	-	-	-	-	-	-	-	-	-	-
12 May	7.3	-	-	7.4	-	-	7.4	-	-	-	-	-	-	-	-	-	-
19 May	7.4	-	-	-	7.4	-	-	-	-	7.4	-	-	-	-	-	-	-
27 May	7.2	-	-	-	7.1	-	-	-	7.0	-	-	-	-	-	-	-	-
02 Jun	7.2	-	-	-	7.1	-	-	6.7	-	-	-	-	-	-	-	-	-
11 Jun	6.4	-	-	6.3	-	-	5.9	-	-	-	-	-	-	-	-	-	-
16 Jun	7.0	-	-	7.1	-	-	6.9	-	-	-	-	-	-	-	-	-	-
23 Jun	6.9	-	-	6.9	-	-	6.9	-	-	-	-	-	-	-	-	-	-
29 Jun	6.4	-	-	-	6.6	-	-	6.5	-	-	-	-	-	-	-	-	-
07 Jul	6.8	-	-	-	6.8	-	-	6.6	-	-	-	-	-	-	-	-	-
14 Jul	6.8	-	-	6.9	-	-	-	-	6.8	-	-	-	-	-	-	-	-
21 Jul	7.0	-	-	7.0	-	-	-	6.8	-	-	-	-	-	-	-	-	-
28 Jul	6.8	-	-	-	7.0	-	-	6.8	-	-	-	-	-	-	-	-	-
04 Aug	7.1	-	-	-	7.1	-	-	6.6	-	-	-	-	-	-	-	-	-
11 Aug	7.4	-	-	7.4	-	-	6.8	-	-	-	-	-	-	-	-	-	-
18 Aug	7.1	-	-	7.1	-	7.1	-	-	-	-	-	-	-	-	-	-	-
24 Aug	6.8	-	-	6.6	-	6.4	-	-	-	-	-	-	-	-	-	-	-
01 Sep	7.1	-	-	7.2	-	6.5	-	-	-	-	-	-	-	-	-	-	-
08 Sep	7.4	-	7.2	-	7.0	-	-	-	-	-	-	-	-	-	-	-	-
15 Sep	7.2	-	7.4	-	7.2	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	6.8	-	6.9	-	6.7	-	-	-	-	-	-	-	-	-	-	-	-
29 Sep	7.0	-	7.1	-	7.1	-	-	-	-	-	-	-	-	-	-	-	-
06 Oct	6.4	-	6.3	-	6.2	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	7.3	-	7.3	-	7.3	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	6.4	-	6.2	-	6.1	-	-	-	-	-	-	-	-	-	-	-	-
27 Oct	7.0	-	7.0	-	7.0	-	-	-	-	-	-	-	-	-	-	-	-
03 Nov	7.3	-	-	7.3	-	-	-	7.3	-	-	-	-	-	-	-	-	-
10 Nov	7.0	-	-	-	7.0	-	-	7.2	-	-	-	-	-	-	-	-	-
17 Nov	7.1	-	-	7.1	-	-	7.1	-	-	-	-	-	-	-	-	-	-

Table 46 - (Continued).

Station and Date	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
								Depth (m)									
30																	
24 Apr	7.4	-	-	-	-	-	7.5	-	-	-	-	7.4					
29 Apr	7.6	-	-	-	-	-	7.6	-	-	-	-	7.6	-	-	-	-	-
													-	-	-	-	-
04 May	7.4	-	-	-	-	7.6	-	-	-	-	7.6	-	-	-	-	-	-
12 May	7.5	-	-	-	-	7.5	-	-	-	-	-	-	7.5	-	-	-	-
19 May	7.5	-	-	-	-	-	-	-	7.5	-	-	-	-	-	-	-	7.4
27 May	7.2	-	-	-	-	-	-	7.2	-	-	-	-	-	-	-	-	7.2
02 Jun	7.1	-	-	-	-	-	-	6.6	-	-	-	-	-	-	6.4	-	-
11 Jun	6.6	-	-	-	-	-	6.5	-	-	-	-	-	6.5	-	-	-	-
16 Jun	7.1	-	-	-	-	-	-	7.0	-	-	-	-	-	-	6.8	-	-
23 Jun	6.7	-	-	-	-	-	-	6.7	-	-	-	-	-	-	6.7	-	-
29 Jun	6.6	-	-	-	-	-	-	-	6.7	-	-	-	-	-	5.8	-	-
07 Jul	6.8	-	-	-	-	-	-	-	6.8	-	-	-	-	-	-	6.7	-
14 Jul	6.6	-	-	-	-	-	-	-	6.8	-	-	-	-	-	-	6.5	-
21 Jul	6.8	-	-	-	-	-	-	-	6.7	-	-	-	-	-	-	6.4	-
28 Jul	6.6	-	-	-	-	-	-	-	6.6	-	-	-	-	-	-	6.4	-
04 Aug	6.8	-	-	-	-	-	-	6.6	-	-	-	-	-	-	6.4	-	-
11 Aug	7.8	-	-	-	-	-	-	-	6.7	-	-	-	-	-	-	6.4	-
18 Aug	7.1	-	-	-	-	-	-	7.0	-	-	-	-	-	-	6.8	-	-
24 Aug	7.2	-	-	-	-	-	7.0	-	-	-	-	-	-	-	6.6	-	-
01 Sep	7.3	-	-	-	-	-	-	7.1	-	-	-	-	-	-	6.5	-	-
08 Sep	7.3	-	-	-	-	-	7.1	-	-	-	-	-	6.6	-	-	-	-
15 Sep	7.1	-	-	-	-	-	7.1	-	-	-	-	-	6.9	-	-	-	-
22 Sep	7.0	-	-	-	-	-	-	6.9	-	-	-	-	6.6	-	-	-	-
29 Sep	7.0	-	-	-	-	7.1	-	-	-	-	-	6.9	-	-	-	-	-
06 Oct	6.8	-	-	-	-	-	6.6	-	-	-	-	-	6.2	-	-	-	-
13 Oct	7.2	-	-	-	-	-	-	7.1	-	-	-	-	-	7.0	-	-	-
20 Oct	7.0	-	-	-	-	6.7	-	-	-	-	-	6.5	-	-	-	-	-
27 Oct	6.4	-	-	-	-	-	6.6	-	-	-	-	-	6.8	-	-	-	-
03 Nov	7.3	-	-	-	-	-	-	7.2	-	-	-	-	-	-	7.2	-	-
10 Nov	6.8	-	-	-	-	-	-	6.8	-	-	-	-	-	-	6.9	-	-
17 Nov	6.8	-	-	-	-	-	-	7.0	-	-	-	-	-	-	7.0	-	-

Table 47. Summary of dissolved oxygen data (ppm) taken from 24 April through 17 November 1981 in Schoharie Reservoir.

Station and Date	Depth (m)																
	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
27																	
24 Apr	11.0	11.2	11.0	11.0	-	-	-	-	-	-	-	-	-	-	-	-	-
29 Apr	11.0	10.6	10.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04 May	10.5	10.8	11.0	10.5	-	-	-	-	-	-	-	-	-	-	-	-	-
12 May	12.0	12.0	12.0	12.0	12.0	-	-	-	-	-	-	-	-	-	-	-	-
19 May	12.3	12.6	11.6	11.2	10.9	10.8	10.6	10.2	-	-	-	-	-	-	-	-	-
27 May	9.8	9.8	10.0	9.8	9.8	9.2	8.8	-	-	-	-	-	-	-	-	-	-
02 Jun	10.0	10.0	9.8	9.3	9.0	8.0	-	-	-	-	-	-	-	-	-	-	-
11 Jun	9.0	9.8	9.6	9.0	7.6	-	-	-	-	-	-	-	-	-	-	-	-
16 Jun	9.4	9.4	9.6	9.1	8.1	7.0	-	-	-	-	-	-	-	-	-	-	-
23 Jun	9.7	9.5	9.5	9.4	8.4	-	-	-	-	-	-	-	-	-	-	-	-
29 Jun	10.0	10.0	9.8	9.0	8.0	5.6	-	-	-	-	-	-	-	-	-	-	-
07 Jul	10.0	10.2	10.0	9.9	8.9	8.8	-	-	-	-	-	-	-	-	-	-	-
14 Jul	8.6	8.4	8.4	8.4	7.6	7.6	6.5	-	-	-	-	-	-	-	-	-	-
21 Jul	7.9	7.9	7.9	7.6	7.0	4.5	4.2	-	-	-	-	-	-	-	-	-	-
28 Jul	8.4	8.3	8.3	8.2	7.9	5.5	3.8	-	-	-	-	-	-	-	-	-	-
04 Aug	9.6	9.6	9.6	9.5	8.6	-	-	-	-	-	-	-	-	-	-	-	-
11 Aug	8.6	8.6	8.5	7.9	6.3	-	-	-	-	-	-	-	-	-	-	-	-
18 Aug	8.2	8.2	8.1	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-
24 Aug	8.1	8.0	8.0	7.8	2.9	-	-	-	-	-	-	-	-	-	-	-	-
01 Sep	8.8	8.8	8.4	7.3	-	-	-	-	-	-	-	-	-	-	-	-	-
08 Sep	8.2	8.2	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Sep	8.4	8.2	7.6	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	9.0	9.0	9.0	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-
29 Sep	9.3	9.2	9.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06 Oct	9.5	9.4	9.4	10.0	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	9.6	9.5	9.4	10.4	10.8	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	9.9	10.0	10.0	10.0	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Oct	9.5	9.5	9.6	10.2	10.8	-	-	-	-	-	-	-	-	-	-	-	-
03 Nov	10.0	10.2	10.4	10.4	10.4	10.6	11.0	-	-	-	-	-	-	-	-	-	-
10 Nov	11.4	11.2	11.2	11.1	11.2	12.1	12.2	-	-	-	-	-	-	-	-	-	-
17 Nov	11.6	11.5	11.6	11.6	11.8	12.2	-	-	-	-	-	-	-	-	-	-	-
28																	
24 Apr	11.3	11.3	11.2	11.2	11.2	11.3	11.2	11.2	-	-	-	-	-	-	-	-	-
29 Apr	11.0	11.0	11.0	11.0	10.8	10.8	10.7	10.6	10.0	-	-	-	-	-	-	-	-
04 May	11.0	11.2	11.2	10.8	10.7	10.6	10.4	10.0	-	-	-	-	-	-	-	-	-
12 May	11.6	11.0	10.6	10.4	10.2	10.2	10.2	-	-	-	-	-	-	-	-	-	-
19 May	11.4	11.2	11.4	11.2	11.1	10.8	10.8	10.8	10.6	-	-	-	-	-	-	-	-
27 May	10.0	10.0	10.0	10.0	10.0	9.7	9.3	9.0	8.9	-	-	-	-	-	-	-	-
02 Jun	10.0	10.0	10.0	9.6	9.4	9.1	8.4	8.4	8.4	-	-	-	-	-	-	-	-
11 Jun	9.8	9.6	9.6	9.4	8.8	8.6	8.2	7.2	-	-	-	-	-	-	-	-	-
16 Jun	9.8	9.8	9.8	9.6	8.9	8.4	8.3	7.6	-	-	-	-	-	-	-	-	-
23 Jun	9.6	9.6	9.5	9.3	8.5	7.2	7.8	7.2	-	-	-	-	-	-	-	-	-
29 Jun	10.0	10.0	10.0	9.8	8.1	7.4	7.0	6.8	-	-	-	-	-	-	-	-	-
07 Jul	10.0	10.0	9.9	9.3	9.0	9.2	7.8	6.7	6.4	-	-	-	-	-	-	-	-
14 Jul	8.5	8.4	8.5	8.4	8.0	7.3	6.9	5.7	5.9	4.6	-	-	-	-	-	-	-
21 Jul	8.1	8.1	8.1	8.0	7.4	6.5	5.2	4.8	4.6	-	-	-	-	-	-	-	-
28 Jul	8.4	8.4	8.4	8.4	8.3	6.5	5.4	4.8	4.6	-	-	-	-	-	-	-	-
04 Aug	9.8	9.7	9.7	9.5	8.9	6.1	5.5	5.4	-	-	-	-	-	-	-	-	-
11 Aug	8.7	8.6	8.5	8.3	6.9	4.6	3.8	3.2	-	-	-	-	-	-	-	-	-
18 Aug	8.2	8.2	8.2	8.2	8.1	3.9	2.5	-	-	-	-	-	-	-	-	-	-
24 Aug	8.7	8.6	8.6	8.5	5.0	3.2	3.2	-	-	-	-	-	-	-	-	-	-
01 Sep	9.1	9.1	9.1	9.0	2.6	1.8	-	-	-	-	-	-	-	-	-	-	-
08 Sep	8.4	8.4	8.5	2.4	2.2	1.1	-	-	-	-	-	-	-	-	-	-	-
15 Sep	8.7	8.6	8.5	7.0	5.0	0.7	-	-	-	-	-	-	-	-	-	-	-
22 Sep	8.9	8.9	8.9	8.8	1.7	0.8	-	-	-	-	-	-	-	-	-	-	-
29 Sep	8.9	8.8	8.8	8.7	8.4	1.2	-	-	-	-	-	-	-	-	-	-	-
06 Oct	9.4	9.4	9.2	8.8	9.6	9.6	-	-	-	-	-	-	-	-	-	-	-
13 Oct	8.7	8.7	8.7	8.8	8.7	7.8	-	-	-	-	-	-	-	-	-	-	-
20 Oct	8.2	8.2	8.2	8.2	8.3	8.4	-	-	-	-	-	-	-	-	-	-	-
27 Oct	9.0	8.9	8.8	8.7	8.9	9.4	-	-	-	-	-	-	-	-	-	-	-
03 Nov	9.8	9.9	9.9	9.9	9.9	9.9	-	10.0	-	-	-	-	-	-	-	-	-
10 Nov	11.0	10.9	10.9	10.9	10.8	10.8	10.8	10.8	10.7	-	-	-	-	-	-	-	-
17 Nov	11.4	11.4	11.4	11.4	11.4	11.4	11.5	11.6	-	-	-	-	-	-	-	-	-

* ND = No data recorded.

Table 47 - (Continued).

Station and Date	Depth (m)																
	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
30																	
24 Apr	12.5	6.8	5.9	6.5	5.3	6.6	6.0	6.2	6.7	4.9	6.8	4.8	-	-	-	-	-
29 Apr	6.5	17.6	6.7	6.7	8.3	7.6	6.3	8.3	6.5	6.2	7.1	6.9	-	-	-	-	-
04 May	8.4	8.8	7.2	8.1	ND*	8.6	8.1	8.2	6.8	5.7	6.5	-	-	-	-	-	-
12 May	11.2	7.7	8.5	11.3	14.1	6.8	7.8	7.1	8.7	6.0	6.5	25.4	58.8	-	-	-	-
19 May	3.4	5.2	4.8	4.5	3.8	6.1	4.6	5.9	5.8	5.7	7.3	7.5	12.7	16.8	14.6	10.0	15.4
27 May	0.9	1.7	1.8	2.1	2.0	1.9	1.5	1.4	1.7	1.9	1.7	2.1	2.4	ND*	-	-	-
02 Jun	1.6	1.2	1.7	1.5	1.1	1.5	1.5	1.8	1.4	1.6	1.8	1.3	2.8	3.1	2.7	-	-
11 Jun	1.5	1.6	1.7	2.5	2.3	1.9	2.0	2.2	2.2	2.6	1.9	3.4	3.4	-	-	-	-
16 Jun	1.2	0.7	0.4	6.1	3.2	2.6	2.1	2.7	2.3	2.5	2.2	2.1	3.3	4.1	4.2	-	-
23 Jun	0.4	0.6	0.8	0.5	0.8	0.9	0.7	1.0	1.0	1.2	1.0	1.1	1.5	1.5	-	-	-
29 Jun	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	0.2	0.9	1.6	1.8	3.6	-	-
07 Jul	1.3	1.9	1.3	1.3	1.7	1.6	0.9	1.4	0.8	2.5	2.2	2.4	2.8	2.6	4.0	-	-
14 Jul	ND	ND	ND	0.4	0.1	0.2	0.5	1.3	1.1	1.1	1.2	1.2	1.4	1.9	1.9	4.0	-
21 Jul	ND	0.2	0.1	0.2	0.6	0.5	0.9	1.1	1.1	1.1	1.8	1.8	2.5	3.2	1.4	4.2	-
28 Jul	0.8	1.0	1.3	1.3	1.5	1.2	1.5	2.4	2.3	2.5	2.5	2.2	3.2	3.1	6.4	5.3	-
08 Aug	0.7	0.9	0.7	1.2	1.0	1.0	1.6	2.3	2.1	2.7	2.3	2.1	3.8	4.9	6.3	-	-
11 Aug	0.8	0.9	1.0	2.0	1.1	1.1	1.4	2.8	2.9	2.5	3.0	3.1	4.2	4.6	5.5	7.3	-
18 Aug	0.8	1.3	0.9	1.6	1.0	1.2	1.9	2.5	2.7	2.8	2.8	2.9	3.4	4.1	6.3	-	-
24 Aug	2.0	1.2	1.4	1.4	1.7	1.9	2.8	3.6	4.2	3.8	4.6	5.2	5.0	4.7	-	-	-
01 Sep	2.9	2.9	3.1	2.8	3.1	3.1	4.2	4.8	3.7	3.6	4.5	3.7	7.3	-	-	-	-
08 Sep	1.5	1.9	1.9	3.9	1.5	1.4	2.6	2.3	1.9	2.1	2.3	3.4	7.3	-	-	-	-
15 Sep	3.5	3.7	3.8	5.9	3.5	3.1	2.6	3.6	2.3	2.8	3.7	5.9	-	-	-	-	-
22 Sep	1.5	1.9	1.9	1.8	2.9	2.3	2.8	3.2	3.0	2.0	2.1	-	-	-	-	-	-
29 Sep	3.0	3.0	2.4	3.0	3.2	3.6	3.1	3.5	2.5	4.5	-	-	-	-	-	-	-
06 Oct	2.3	2.5	2.2	2.3	2.7	4.6	5.8	4.9	5.4	5.0	7.1	-	-	-	-	-	-
13 Oct	2.0	2.4	2.3	2.6	3.1	2.0	4.4	4.4	5.8	5.0	-	-	-	-	-	-	-
20 Oct	6.3	7.0	7.0	7.5	7.3	7.4	7.0	7.5	8.7	9.5	-	-	-	-	-	-	-
27 Oct	3.4	4.0	3.2	3.4	4.0	4.5	4.5	4.8	6.8	5.7	7.4	-	-	-	-	-	-
03 Nov	2.6	3.2	3.2	3.1	3.2	3.5	3.2	3.7	4.3	5.2	6.1	5.1	7.6	5.8	6.3	8.0	-
10 Nov	4.2	4.6	4.6	4.7	4.7	4.6	4.6	4.5	4.7	4.6	4.8	4.4	4.5	4.5	4.7	-	-
17 Nov	11.6	11.6	11.5	11.4	11.6	11.6	11.6	11.6	11.7	11.8	11.8	11.9	12.0	12.0	12.0	12.0	12.0

Table 48. Flow over Gilboa Dam (cfs) in 1981 as derived from Schoharie Reservoir elevations provided by the New York City Department of Water Resources.

Day	Month												Yearly Mean and Range
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0	0	16	0	0	0	0	0	0	0	0	0	
2	0	0	0	0	0	0	0	0	0	0	0	0	
3	0	0	0	0	0	0	0	0	0	0	0	0	
4	0	0	0	0	0	0	0	0	0	0	0	0	
5	0	0	0	0	0	0	0	0	0	0	0	0	
6	0	0	0	0	0	0	0	0	0	0	0	0	
7	0	0	0	0	0	0	0	0	0	0	0	0	
8	0	0	0	0	0	0	0	0	0	0	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	
13	0	0	0	0	0	0	0	0	0	0	0	0	
14	0	0	0	0	0	0	0	0	0	0	0	0	
15	0	0	0	0	0	0	0	0	0	0	0	0	
16	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	
18	0	0	0	0	0	0	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	0	0	
21	0	6688	0	0	0	0	0	0	0	0	0	0	
22	0	3342	0	0	0	0	0	0	0	0	0	0	
23	0	678	0	0	0	0	0	0	0	0	0	0	
24	0	619	0	0	0	0	0	0	0	0	0	0	
25	0	1702	0	0	0	0	0	0	0	0	0	0	
26	0	868	0	0	0	0	0	0	0	0	0	0	
27	0	453	0	0	0	0	0	0	0	0	0	0	
28	0	164	0	0	0	0	0	0	0	0	0	0	
29	0	-	0	0	0	0	0	0	0	0	0	0	
30	0	-	0	0	0	0	0	0	0	0	0	0	
31	0	-	0	-	0	-	0	0	-	0	-	0	
Mean	0	518	0.52	0	0	0	0	0	0	0	0	0	43
Minimum	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum	0	6688	16	0	0	0	0	0	0	0	0	0	6688

Table 49. Schoharie Reservoir elevation (ft) recorded at 0900 hours in 1981 by the New York City Department of Water Resources.

Day	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1072.23	1071.24	1130.03	1099.65	1086.90	1106.72	1100.70	1105.49	1090.15	1086.72	1102.45	1100.00
2	1072.16	1071.90	1129.98	1099.88	1086.28	1106.60	1100.47	1105.12	1089.62	1086.89	1103.62	1099.79
3	1072.06	1085.95	1129.86	1101.40	1085.00	1106.45	1100.78	1104.76	1089.17	1087.41	1103.86	1100.02
4	1071.93	1085.56	1129.52	1101.26	1083.93	1106.30	1102.52	1104.35	1088.78	1087.75	1103.81	1100.10
5	1071.84	1084.83	1129.11	1101.10	1083.27	1105.80	1103.65	1103.93	1088.30	1087.91	1103.69	1100.04
6	1071.73	1083.64	1128.58	1101.52	1083.37	1104.37	1106.77	1103.52	1087.82	1088.04	1103.52	1099.9
7	1071.66	1082.45	1127.90	1101.73	1083.45	1102.88	1108.65	1103.10	1087.36	1088.22	1103.66	1099.52
8	1071.62	1081.25	1127.18	1101.90	1083.53	1101.34	1109.48	1102.70	1086.89	1088.43	1103.70	1099.36
9	1071.60	1079.85	1126.40	1101.78	1083.48	1101.06	1110.10	1102.25	1087.40	1088.55	1103.59	1099.20
10	1071.59	1078.52	1125.48	1101.42	1083.42	1100.64	1110.28	1101.80	1088.71	1088.61	1103.43	1098.88
11	1071.52	1077.50	1124.52	1101.01	1083.35	1100.32	1110.46	1101.35	1088.89	1088.63	1103.16	1098.46
12	1071.43	1103.24	1123.50	1100.87	1087.92	1100.00	1110.54	1100.88	1088.76	1088.60	1102.88	1098.15
13	1071.38	1107.64	1122.50	1099.45	1098.02	1099.72	1110.47	1100.41	1088.55	1088.50	1102.57	1097.79
14	1071.30	1108.59	1121.50	1100.28	1102.26	1099.50	1110.38	1099.97	1088.25	1088.38	1102.19	1097.40
15	1071.25	1108.77	1120.28	1101.55	1104.47	1099.63	1110.18	1099.28	1088.19	1088.25	1101.84	1097.04
16	1071.23	1108.45	1119.32	1102.39	1106.89	1100.08	1110.03	1098.52	1088.16	1088.12	1101.66	1096.72
17	1071.22	1108.39	1118.14	1101.84	1107.05	1100.88	1109.83	1097.70	1087.95	1087.97	1101.55	1096.30
18	1071.21	1108.68	1116.85	1100.94	1107.20	1101.02	1109.39	1097.30	1087.74	1087.80	1101.41	1095.98
19	1071.20	1109.05	1115.64	1099.93	1107.87	1101.12	1108.85	1096.82	1087.50	1087.66	1101.24	1095.60
20	1071.19	1110.12	1114.34	1098.89	1108.32	1101.03	1108.33	1096.31	1087.22	1087.56	1101.05	1095.10
21	1071.18	1131.54	1112.96	1097.74	1108.49	1100.98	1108.20	1095.80	1086.93	1087.42	1101.30	1094.59
22	1071.18	1130.97	1111.60	1096.52	1108.52	1101.06	1108.25	1095.25	1086.61	1087.24	1101.50	1094.18
23	1071.19	113 .34	1110.26	1095.28	1108.60	1101.18	1108.08	1094.70	1086.43	1087.06	1101.54	1093.88
24	1071.20	1131.32	1108.87	1094.14	1108.58	1101.34	1107.82	1094.16	1086.29	1087.47	1101.50	1094.82
25	1071.21	1130.62	1107.52	1093.04	1108.41	1101.37	1107.50	1093.69	1086.45	1088.54	1101.39	1095.50
26	1071.22	1130.40	1106.14	1092.01	1108.16	1101.32	1107.18	1093.22	1086.54	1089.30	1101.14	1095.62
27	1071.24	1130.26	1104.77	1090.84	1107.84	1101.30	1106.90	1092.73	1086.53	1090.46	1100.90	1095.70
28	1071.25	1130.13	1103.42	1089.55	1107.45	1101.23	1106.63	1092.21	1086.55	1093.35	1100.80	1095.76
29	1071.27	-	1102.05	1088.23	1107.02	1101.10	1106.38	1091.70	1086.76	1097.02	1100.63	1095.78
30	1071.26	-	1100.99	1087.44	1106.84	1100.86	1106.08	1091.20	1086.80	1099.31	1100.37	1095.69
31	1071.25	-	1100.22	-	1106.78	-	1105.78	1090.68	-	1101.09	-	1095.14

Table 50. Summary of monthly fluctuation (ft)* during 1981 in Lower and Upper B-G as calculated from daily elevation data recorded by the Power Authority of the State of New York.

Month	Lower B-G Daily Fluctuation (ft)				Upper B-G Daily Fluctuation (ft)			
	Minimum	Maximum	Mean	SD	Minimum	Maximum	Mean	SD
Jan	7.1	26.3	17.5	5.51	7.8	24.2	15.6	4.15
Feb	6.8	27.3	18.6	5.30	8.3	28.5	17.4	4.76
Mar	6.1	27.6	19.9	4.75	8.0	25.4	17.9	4.01
Apr	9.0	22.4	14.2	3.39	7.5	18.4	11.8	2.69
May	6.9	23.0	13.9	4.37	6.2	18.8	11.3	3.69
Jun	10.5	37.4	17.0	4.95	8.4	18.5	13.5	2.65
Jul	9.6	26.3	18.8	3.93	10.9	22.1	16.8	2.97
Aug	8.8	26.8	19.4	4.50	9.2	25.0	16.0	3.53
Sep	6.3	28.4	20.3	5.18	8.8	25.9	17.6	3.75
Oct	9.0	25.9	17.9	4.68	8.5	22.4	15.9	3.79
Nov	11.7	27.7	19.9	4.26	11.4	23.6	17.8	3.49
Dec	14.7	26.3	21.9	2.66	15.5	24.3	19.3	2.66
Jan-Dec**	6.1	37.4	18.3	2.38	6.2	28.5	15.9	2.50

* Both Lower and Upper B-G fluctuated 365 days.
** Based on monthly values.

Table 51. Summary of weekly elevation data (ft) recorded during 1981 in Lower and Upper B-G by the Power Authority of the State of New York.

Date*	Lower B-G Maximum Elevation (ft)	Lower B-G Minimum Elevation (ft)	Lower B-G Difference (ft)	Upper B-G Maximum Elevation (ft)	Upper B-G Minimum Elevation (ft)	Upper B-G Difference (ft)
28 Dec- 3 Jan	889.0	860.0	29.0	2002.7	1979.3	23.4
4-10 Jan	895.3	860.5	34.8	2002.5	1971.2	31.3
11-17 Jan	892.8	860.0	32.8	2002.6	1974.3	28.3
18-24 Jan	896.5	860.5	36.0	2002.2	1968.8	33.4
25-34 Jan	890.8	860.1	30.7	2002.2	1976.3	25.9
1-7 Feb	897.9	861.0	36.9	2002.7	1968.3	34.4
8-14 Feb	894.5	860.9	33.6	2002.9	1973.0	29.9
15-21 Feb	896.7	860.7	36.0	2002.7	1966.7	36.0
22-28 Feb	898.5	860.2	38.3	2003.0	1967.6	35.4
1-7 Mar	895.0	860.5	34.5	2002.9	1972.2	30.7
8-14 Mar	894.5	860.1	34.4	2003.0	1973.3	29.7
15-21 Mar	896.8	860.3	36.5	2003.0	1969.9	33.1
22-28 Mar	894.3	860.6	33.7	2002.9	1973.5	29.4
29 Mar-4 Apr	893.0	860.6	32.4	2003.0	1975.1	27.9
5-11 Apr	888.8	860.8	27.1	2002.7	1980.1	22.1
12-18 Apr	891.6	860.1	31.5	2003.0	1977.0	26.0
19-25 Apr	885.4	860.2	25.2	2003.0	1983.8	19.2
26 Apr-2 May	883.6	860.4	23.2	2002.9	1985.5	17.4
3-9 May	886.9	860.1	26.8	2003.0	1982.1	20.9
10-16 May	892.2	860.4	31.8	2002.9	1976.2	26.7
17-23 May	887.2	860.0	27.2	2003.0	1983.1	19.9
24-30 May	892.2	860.7	31.5	2003.0	1976.1	26.9
31 May-6 Jun	886.3	860.4	25.9	2002.9	1981.9	21.0
7-13 Jun	888.8	860.4	28.4	2003.0	1980.1	22.9
14-20 Jun	891.7	860.3	31.4	2003.0	1976.6	26.4
21-27 Jun	893.0	860.5	32.5	2003.0	1975.0	28.0
28 Jun-4 Jul	894.9	860.4	34.5	2002.9	1972.5	30.4
5-11 Jul	893.5	860.0	33.5	2003.0	1974.3	28.7
12-18 Jul	895.1	860.5	34.6	2002.9	1971.9	31.0
19-25 Jul	894.8	860.1	34.7	2002.8	1972.6	30.2
26 Jul-1 Aug	890.7	860.0	30.7	2003.0	1977.5	25.5
2-8 Aug	890.5	860.5	30.0	2002.5	1977.3	25.2
9-15 Aug	889.6	860.0	29.6	2002.3	1977.8	24.5
16-22 Aug	888.4	860.0	28.4	2002.1	1979.1	23.0
23-29 Aug	893.1	860.1	33.0	2001.7	1972.8	28.9
30 Aug-5 Sep	892.7	860.0	32.7	2001.4	1973.0	28.4
6-12 Sep	892.2	860.0	32.2	2001.2	1973.5	27.7
13-19 Sep	888.2	860.0	28.2	2001.1	1978.1	23.0
20-26 Sep	895.2	860.0	35.2	2000.9	1969.4	31.5
27 Sep-3 Oct	894.7	860.0	34.7	2001.1	1970.0	31.1
4-10 Oct	895.0	859.8	35.2	2001.1	1969.7	31.4
11-17 Oct	892.5	860.3	32.2	2001.0	1972.9	28.1
18-24 Oct	888.8	860.2	28.6	2000.9	1977.4	23.5
25-31 Oct	887.9	860.0	27.9	2001.1	1980.5	20.6
1-7 Nov	898.2	860.3	37.9	2003.0	1968.2	34.8
8-14 Nov	897.0	860.3	36.7	2003.0	1969.8	33.2
15-21 Nov	895.7	860.7	35.0	2002.8	1971.8	31.0
22-28 Nov	894.6	860.2	34.4	2003.0	1973.0	30.0
29 Nov-5 Dec	891.9	860.4	31.5	2003.0	1976.4	26.6
6-12 Dec	896.1	860.4	35.7	2002.9	1971.0	31.9
13-19 Dec	898.8	860.3	38.5	2003.1	1967.3	35.8
20-26 Dec	897.8	860.3	37.5	2003.0	1968.7	34.3
27-31 Dec	893.2	860.4	32.8	2003.0	1975.0	28.0
28 Dec 80-31 Dec 81**	898.8	859.8	$\bar{x}$ = 32.4 SD = 3.59	2003.1	1966.7	$\bar{x}$ = 28.0 SD = 4.60

* Based on Sunday through Saturday.
** Based on weekly values.

Table 52. Summary of turbidity data (NTU) taken from 2 February through 16 November 1981 in Schoharie Creek, Esopus Creek, and the STO.

Date	Station 2	1	21	20	19	31	37
02 Feb*	36	140	190	70	190	270	200
12 Feb*	NST**	65	28	TC***	34	65	55
21 Feb*	90	75	60	TC	60	100	75
Monthly $\bar{x}$	65	95	95	70	95	150	110
02 Apr	2.8	28	12	17	15	25	24
10 Apr	1.5	4.2	2.1	18	15	15	13
16 Apr	1.2	2.4	1.5	15	9.2	7.5	6.1
24 Apr	1.1	2.0	1.5	11	8.4	8.2	8.0
28 Apr	1.0	1.0	1.1	1.2	10	9.5	8.6
Monthly $\bar{x}$	1.5	7.5	3.3	12	12	13	12
04 May	1.3	1.6	1.3	1.4	9.8	9.1	8.2
11 May	1.0	1.5	1.5	9.0	6.2	11	7.6
18 May	1.6	2.9	3.4	8.3	6.5	10	10
26 May	1.3	1.7	1.7	3.7	2.6	5.0	4.5
Monthly $\bar{x}$	1.3	1.9	2.0	5.6	6.3	8.8	7.6
02 Jun	1.1	1.4	1.0	3.2	2.2	3.8	3.5
08 Jun	1.5	1.2	1.0	2.5	3.5	4.5	4.0
15 Jun	1.0	4.0	1.5	4.5	3.2	6.0	6.6
22 Jun	1.2	2.3	1.3	9.1	5.1	4.7	4.5
29 Jun	1.1	1.5	0.9	5.0	3.0	4.2	3.0
Monthly $\bar{x}$	1.2	2.1	1.1	4.9	3.4	4.6	4.3
06 Jul	1.5	9.0	3.0	9.0	5.8	15	12
13 Jul	1.0	1.5	1.3	5.4	3.0	4.1	3.3
20 Jul	0.8	1.5	1.0	4.0	2.7	3.5	2.8
27 Jul	1.2	1.8	1.0	6.7	3.7	4.1	3.9
Monthly $\bar{x}$	1.1	3.4	1.6	6.3	3.8	6.7	5.5
08 Aug	1.0	1.9	1.0	4.8	2.7	2.5	2.2
10 Aug	1.3	1.7	1.1	4.5	2.8	2.6	2.4
17 Aug	1.0	2.2	1.2	7.0	3.5	3.0	2.5
24 Aug	1.2	2.0	1.0	4.8	3.0	2.2	1.8
31 Aug	1.0	1.7	1.2	4.7	2.4	3.0	3.1
Monthly $\bar{x}$	1.1	1.9	1.1	5.2	2.9	2.7	2.4
08 Sep	1.6	2.1	0.7	4.2	2.0	1.7	3.4
14 Sep	1.0	1.7	0.7	4.8	3.0	3.2	2.8
21 Sep	1.0	1.1	0.5	2.8	2.1	2.0	1.7
28 Sep	1.0	3.5	1.5	5.4	2.6	3.2	3.6
Monthly $\bar{x}$	1.2	2.1	0.9	4.3	2.4	2.5	2.9
05 Oct	1.0	1.7	1.2	3.4	2.1	3.2	2.1
14 Oct	1.0	1.3	1.3	3.5	2.2	1.6	1.5
18 Oct	0.9	1.1	1.0	4.2	2.0	1.7	2.0
26 Oct	1.0	3.0	1.8	TC	1.2	3.9	2.3
Monthly $\bar{x}$	1.0	1.8	1.3	3.7	1.9	2.6	2.0
02 Nov	1.2	1.5	1.6	TC	1.5	2.9	2.1
09 Nov	0.8	2.9	1.0	3.5	3.0	1.8	2.9
16 Nov	0.5	3.3	1.0	3.4	2.0	2.3	2.0
Monthly $\bar{x}$	0.8	2.6	1.2	3.5	2.2	2.3	2.3
Grand $\bar{x}$ TO****	4.6	7.5	7.3	8.0	10	14	11
SD	15.8	22.3	32.8	11.9	32.5	46.3	34.2
Minimum	0.5	1.0	0.5	1.2	2.0	1.7	1.5
Maximum	90	140	190	70	190	270	200
n	36	37	33	33	33	33	33
Grand $\bar{x}_{TC}$	-	-	22.9	-	24	43	34
SD	-	-	27.7	-	28.4	47.9	37.2
Minimum	-	-	1.6	-	1.2	2.9	2.1
Maximum	-	-	60	-	60	100	75
n	-	-	4	-	4	4	4

* Data taken after 1" of rainfall.
** NST = no sample taken.
*** TC = Shandaken Tunnel closed.
**** TO = Shandaken Tunnel open.

Table 53. Summary of suspended residue data (mg/l) taken from 2 February through 16 November 1981 in Schoharie Creek, Esopus Creek, and the STO.

Date	Station 2	1	21	20	19	31	37
02 Feb*	27.7	309.2	316.7	2940.1	305.8	494.9	390.6
12 Feb*	NST**	91.4	52.8	TC***	58.5	92.1	107.0
21 Feb*	97.5	145.1	103.4	TC	104.8	178.1	133.3
Monthly $\bar{x}$	62.6	181.9	157.6	2940.1	156.4	255.0	210.3
02 Apr	0.7	37.5	6.7	9.6	8.7	20.7	20.5
10 Apr	2.7	2.6	0.5	8.2	8.2	9.1	8.1
16 Apr	0.2	0.9	0.4	5.9	4.4	6.0	4.0
24 Apr	6.2	7.9	5.7	10.2	10.4	8.5	13.5
28 Apr	3.5	9.1	12.4	6.4	5.7	5.5	6.5
Monthly $\bar{x}$	2.7	11.6	5.1	8.1	7.5	10.0	10.5
04 May	1.1	0.5	0.6	13.6	8.5	5.6	7.3
11 May	2.1	1.4	5.4	4.2	0.4	9.7	7.6
18 May	1.9	3.0	4.2	8.2	7.5	11.7	11.4
26 May	0.7	1.6	1.6	3.4	2.2	4.0	3.6
Monthly $\bar{x}$	1.5	1.6	3.0	7.4	4.7	7.8	7.5
02 Jun	1.4	1.4	0.9	2.2	2.0	3.1	2.8
08 Jun	1.8	1.5	1.0	8.1	5.9	5.8	5.8
15 Jun	5.3	0.9	0.6	4.0	2.3	6.4	4.9
22 Jun	1.2	1.1	1.3	9.1	5.1	4.7	4.5
29 Jun	1.4	0.8	0.3	2.0	5.2	2.6	1.9
Monthly $\bar{x}$	2.2	1.1	0.8	5.1	4.1	4.5	4.0
06 Jul	0.8	13.1	3.5	8.5	6.1	14.8	11.4
13 Jul	0.9	1.8	1.0	2.3	4.4	3.2	1.9
20 Jul	2.6	3.6	1.0	3.9	7.0	3.9	3.4
27 Jul	0.7	1.2	0.5	2.2	3.2	2.6	2.1
Monthly $\bar{x}$	1.3	4.9	1.5	4.2	5.2	6.1	4.7
03 Aug	1.0	1.7	0.5	4.7	3.0	1.9	5.1
10 Aug	1.1	2.0	0.9	6.5	3.4	2.3	2.5
17 Aug	0.4	1.6	0.4	9.8	4.6	3.6	3.0
24 Aug	1.4	1.6	0.7	1.8	14.0	2.7	2.1
31 Aug	1.3	1.3	DNR****	6.3	2.5	3.0	3.0
Monthly $\bar{x}$	1.0	1.6	0.5	5.8	5.5	9.2	3.1
08 Sep	1.1	0.8	DNR	6.7	2.8	1.8	5.1
14 Sep	1.7	1.0	0.7	4.8	3.0	3.2	2.8
21 Sep	0.6	1.3	0.2	4.5	5.5	2.0	1.3
28 Sep	0.6	2.7	0.6	4.8	2.5	1.4	2.1
Monthly $\bar{x}$	0.8	1.2	.3	4.2	2.8	1.7	2.3
05 Oct	0.6	1.4	0.6	2.7	1.3	0.8	1.1
14 Oct	0.9	0.2	0.5	2.6	1.3	0.5	0.7
18 Oct	0.2	0.2	0.3	4.6	1.6	1.1	1.0
26 Oct	1.1	2.2	1.7	TC	1.2	2.9	1.8
Monthly $\bar{x}$	0.7	1.0	0.8	3.3	1.4	1.3	4.6
02 Nov	1.3	1.1	2.7	TC	1.0	2.3	2.6
09 Nov	1.6	1.0	1.0	3.0	2.6	2.3	2.4
17 Nov	2.7	0.1	1.1	1.2	1.5	1.2	1.0
Monthly $\bar{x}$	1.9	0.7	1.7	2.1	2.1	1.8	1.7
Grand $\bar{x}_{TO}$*****	4.9	17.7	12.4	94.4	13.7	19.7	16.5
SD	16.5	56.6	56.5	510.9	52.5	85.4	67.3
Minimum	0.2	0.1	0.2	1.2	1.0	0.5	0.7
Maximum	97.5	309.2	316.7	2940.1	305.8	494.9	390.6
n	36	37	31	33	33	33	33
Grand $\bar{x}_{TC}$	-	-	40.2	-	41.4	57.7	61.2
SD	-	-	48.4	-	50.2	65.8	68.9
Minimum	-	-	1.7	-	1.0	2.3	1.8
Maximum	-	-	103.4	-	104.8	178.1	107.0
n	-	-	4	-	4	4	4

* Data taken after 1" of rainfall.
** NST = no sample taken.
*** TC = Shandaken Tunnel closed.
**** DNR = data not recorded.
***** TO = Shandaken Tunnel open

Table 54. Summary of air temperature data (C) taken from 2 February through 16 November 1981 at Schoharie Creek, Esopus Creek, and the STO.

Date	Station 2	1	21	20	19	31	37
02 Feb*	2	1	0	1	0	0	2
12 Feb*	-10	-8	-8	TC**	-9	-8	-8
21 Feb*	10	11	12	TC	12	11	11
Monthly $\bar{x}$	1	1	1	1	1	1	1
02 Apr	6	8	8	8	10	10	11
10 Apr	13	14	16	15	17	16	17
16 Apr	10	13	18	18	17	18	18
24 Apr	10	11	9	9	9	9	9
28 Apr	15	13	17	15	15	15	15
Monthly $\bar{x}$	11	12	14	13	14	14	14
04 May	20	21	24	22	21	20	26
11 May	17	21	18	16	16	15	15
18 May	12	13	10	11	12	14	14
26 May	22	21	22	21	22	24	24
Monthly $\bar{x}$	18	19	19	18	18	18	20
02 Jun	17	17	18	18	21	19	17
08 Jun	21	21	24	19	18	23	20
15 Jun	26	23	25	22	25	23	23
22 Jun	23	23	22	21	23	23	23
29 Jun	23	28	29	26	30	28	26
Monthly $\bar{x}$	22	22	24	21	23	23	22
06 Jul	22	22	23	21	22	25	22
13 Jul	26	25	26	26	25	26	27
20 Jul	23	20	21	20	20	21	21
27 Jul	21	23	23	21	20	21	24
Monthly $\bar{x}$	23	23	23	22	22	23	24
08 Aug	22	22	25	23	23	25	24
10 Aug	28	26	23	23	20	23	22
17 Aug	18	19	17	16	20	19	19
24 Aug	18	18	20	18	20	23	17
31 Aug	21	19	20	18	20	20	20
Monthly $\bar{x}$	21	21	21	20	21	22	20
08 Sep	22	21	19	20	20	19	19
14 Sep	20	21	25	22	24	25	24
21 Sep	19	10	13	12	14	16	13
28 Sep	13	10	15	10	10	11	11
Monthly $\bar{x}$	19	16	18	16	17	18	17
05 Oct	14	13	12	12	12	11	16
14 Oct	7	9	10	13	12	13	11
18 Oct	7	8	5	5	7	7	10
26 Oct	13	11	12	TC	9	11	14
Monthly $\bar{x}$	10	10	10	7	10	11	13
02 Nov	8	9	16	TC	17	13	15
09 Nov	12	8	11	10	8	10	10
16 Nov	11	12	12	12	11	12	11
Monthly $\bar{x}$	10	10	13	11	12	12	11
Grand $\bar{x}_{TO}$***	16	16	18	17	17	18	18
SD	7.7	7.5	6.8	6.0	6.4	6.5	6.1
Minimum	-10	-8	0	1	0	0	2
Maximum	28	28	29	26	30	28	27
n	37	37	33	33	33	33	33
Grand $\bar{x}_{TC}$	-	-	8	-	7	7	8
SD	-	-	10.8	-	11.3	9.9	10.8
Minimum	-	-	-8	-	-9	-8	-8
Maximum	-	-	16	-	17	13	15
n	-	-	4	-	4	4	4

* Data taken after 1" of rainfall.
** TC = Shandaken Tunnel closed.
*** TO = Shandaken Tunnel open.

Table 55. Summary of water temperature data (C) taken from 2 February through 16 November 1981 in Schoharie Creek, Esopus Creek, and the STO.

Date	Station 2	1	21	20	19	31	37
02 Feb*	2	2	1	1	1	1	1
12 Feb*	NST**	1	1	TC***	1	1	1
21 Feb*	2	4	6	TC	6	6	5
Monthly $\bar{x}$	2	2	3	1	3	3	2
02 Apr	8	6	6	7	7	7	8
10 Apr	10	7	8	6	7	8	8
16 Apr	9	7	8	8	8	6	8
24 Apr	9	8	6	8	8	7	8
28 Apr	10	10	8	8	9	9	10
Monthly $\bar{x}$	9	8	7	7	8	7	8
04 May	16	14	16	11	13	15	14
11 May	17	15	12	11	15	13	13
18 May	13	9	9	13	12	12	12
26 May	18	17	13	14	15	16	16
Monthly $\bar{x}$	16	14	13	12	14	14	14
02 Jun	19	15	13	13	15	15	15
08 Jun	17	19	14	16	17	19	19
15 Jun	20	18	15	17	18	19	18
22 Jun	21	20	16	17	19	19	18
29 Jun	23	21	19	17	20	22	22
Monthly $\bar{x}$	20	19	15	16	18	19	18
06 Jul	21	17	15	18	17	17	17
13 Jul	24	22	18	18	20	20	20
20 Jul	22	22	19	20	22	22	22
27 Jul	23	21	16	19	19	19	19
Monthly $\bar{x}$	23	21	17	19	20	20	20
08 Aug	22	21	18	20	21	21	21
10 Aug	25	22	19	21	22	22	22
17 Aug	20	17	18	22	22	22	21
24 Aug	20	18	17	20	21	22	22
31 Aug	20	20	17	20	20	20	20
Monthly $\bar{x}$	21	20	18	21	21	21	21
08 Sep	20	20	18	19	20	20	19
14 Sep	20	17	17	18	19	18	18
21 Sep	16	12	12	17	17	15	14
28 Sep	14	13	13	15	14	14	14
Monthly $\bar{x}$	18	16	15	17	18	17	16
05 Oct	11	10	10	12	12	12	11
14 Oct	10	7	8	11	11	10	9
18 Oct	8	7	7	5	9	9	8
26 Oct	9	7	8	TC	8	8	8
Monthly $\bar{x}$	10	8	8	9	10	10	9
02 Nov	8	7	8	TC	8	8	8
09 Nov	6	6	6	8	8	7	7
16 Nov	6	5	7	7	7	8	8
Monthly $\bar{x}$	7	6	7	8	8	8	
Grand $\bar{x}_{TO}$****	14	12	13	14	15	15	14
SD	7.2	6.7	4.9	5.5	5.7	5.9	5.9
Minimum	2	1	1	1	1	1	1
Maximum	25	22	19	22	22	22	22
n	36	37	33	33	33	33	33
Grand $\bar{x}_{TC}$	-	-	6	-	6	6	6
SD	-	-	3.3	-	3.3	3.3	3.3
Minimum	-	-	1	-	1	1	1
Maximum	-	-	8	-	8	8	8
n	-	-	4	-	4	4	4

* Data taken after 1" of rainfall.
** NST = No sample taken.
*** TC = Shandaken Tunnel closed.
**** TO = Shandaken Tunnel open.

Table 56. Summary of hydrogen ion data (pH) taken from 2 April through 16 November 1981 in Schoharie Creek, Esopus Creek, and the STO.

Date	Station 2	1	21	20	19	31	37
02 Apr	7.8	7.5	7.8	7.8	7.6	7.7	7.4
10 Apr	8.0	7.4	7.4	7.4	7.3	7.2	7.6
16 Apr	7.3	7.8	7.6	7.4	7.2	7.2	7.2
24 Apr	8.3	7.2	7.8	7.8	7.5	7.4	7.3
28 Apr	8.6	7.6	7.6	7.5	7.4	7.3	7.3
Monthly $\bar{x}$	8.0	7.5	7.6	7.6	7.4	7.4	7.4
04 May	8.3	7.4	7.4	7.2	7.4	7.5	7.3
11 May	8.1	7.4	7.4	7.2	7.3	7.4	7.3
18 May	8.0	7.5	7.4	7.4	7.4	7.4	7.4
26 May	8.2	7.2	7.3	7.0	7.1	7.1	7.2
Monthly $\bar{x}$	8.2	7.4	7.4	7.2	7.3	7.4	7.3
02 Jun	8.0	7.2	7.4	7.4	7.4	7.4	7.5
08 Jun	8.0	6.7	7.2	7.2	7.2	7.2	7.2
15 Jun	8.0	6.7	7.0	7.1	7.1	7.2	7.1
22 Jun	8.0	6.8	6.6	6.7	6.8	7.0	7.1
29 Jun	8.0	6.9	7.0	6.7	6.8	6.6	7.2
Monthly $\bar{x}$	8.0	6.9	7.0	7.0	7.1	7.1	7.2
06 Jul	7.5	6.3	6.4	6.5	6.6	6.7	6.7
13 Jul	7.6	7.2	6.8	6.5	7.1	7.4	7.4
20 Jul	7.3	6.2	6.8	6.4	6.7	6.8	7.0
27 Jul	8.2	7.4	6.9	7.3	7.0	7.4	7.5
Monthly $\bar{x}$	7.7	6.8	6.7	6.7	6.9	7.1	7.2
08 Aug	7.2	6.4	6.5	6.4	6.6	6.7	6.8
10 Aug	8.3	7.1	6.9	6.4	6.9	7.0	7.1
17 Aug	7.8	6.8	7.2	6.4	6.6	6.4	7.2
24 Aug	7.9	7.3	7.4	7.5	7.6	7.5	7.4
31 Aug	7.8	7.2	7.2	7.2	7.2	7.2	7.1
Monthly $\bar{x}$	7.8	7.0	7.0	6.8	7.0	7.0	7.1
08 Sep	8.0	7.8	7.5	7.4	7.4	7.4	7.3
14 Sep	8.0	7.3	7.8	7.4	7.6	7.5	7.4
21 Sep	7.4	7.1	7.2	7.1	7.4	7.1	6.8
28 Sep	7.8	7.2	7.0	7.2	7.2	7.3	7.2
Monthly $\bar{x}$	7.8	7.4	7.4	7.3	7.4	7.3	7.2
05 Oct	7.8	6.8	7.1	6.8	6.7	6.8	6.7
14 Oct	7.9	7.3	7.3	7.3	7.3	7.3	7.4
18 Oct	7.8	7.0	7.2	7.1	7.2	6.8	6.8
26 Oct	7.7	6.5	6.8	TC**	6.8	6.8	6.7
Monthly $\bar{x}$	7.8	6.9	7.1	7.1	7.0	6.9	6.9
02 Nov	7.6	6.6	7.0	TC	7.0	7.1	6.6
09 Nov	7.6	7.2	7.2	7.1	7.1	7.2	7.1
16 Nov	7.6	6.8	7.2	7.2	7.3	7.3	7.3
Monthly $\bar{x}$	7.6	6.9	7.1	7.2	7.1	7.2	7.0
Grand $\bar{x}_{TO}$***	7.9	7.1	7.2	7.1	7.2	7.2	7.2
SD	.32	.40	.35	.40	.30	.31	.27
Minimum	7.3	6.3	6.4	6.4	6.6	6.6	6.7
Maximum	8.6	7.8	7.8	7.8	7.6	7.7	7.6
n	34	34	32	32	32	32	32
Grand $\bar{x}_{TC}$	-	-	6.9	-	6.9	6.9	6.7
SD	-	-	0.14	-	0.14	0.21	0.07
Minimum	-	-	6.8	-	6.8	6.8	6.6
Maximum	-	-	7.0	-	7.0	7.1	6.7
n	-	-	2	-	2	2	2

* Data taken after 1" of rainfall.
** TC = Shandaken Tunnel closed.
*** TO = Shandaken Tunnel open.

Table 57. Summary of daily discharge data* (cfs) measured in 1981 in Schoharie Creek at the USGS gaging station, Prattsville, New York.

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Mean and Range
						Mean Daily Values							
1	DNA**	177	752	451	356	214	86	DNA	31	169	433	206	
2	DNA	3400	620	1330	320	172	159	53	31	289	384	354	
3	DNA	1560	511	782	295	160	743	47	42	291	339	363	
4	DNA	731	416	608	270	165	659	47	43	246	304	306	
5	DNA	729	399	599	254	149	1080	50	38	221	279	280	
6	DNA	2720	348	683	244	137	977	47	34	205	323	260	
7	DNA	3540	316	569	232	129	645	40	35	214	349	273	
8	DNA	3700	290	538	213	113	438	40	46	210	301	259	
9	DNA	3830	261	502	197	103	331	37	878	190	285	232	
10	DNA	2520	246	506	189	96	264	33	324	172	257	208	
11	DNA	2530	237	445	335	97	212	DNA	198	160	245	250	
12	DNA	2420	223	411	4360	89	166	41	143	150	229	227	
13	DNA	2570	220	363	2250	108	150	42	116	135	210	230	
14	DNA	2110	221	371	1270	167	133	38	112	134	204	248	
15	199	1800	199	424	969	257	117	36	174	129	225	221	
16	207	2060	234	362	1170	455	102	55	150	123	302	204	
17	218	4330	189	337	840	278	91	68	135	118	279	231	
18	215	7670	185	324	670	193	81	48	120	113	274	DNA	
19	217	2250	210	293	570	154	76	40	112	133	264	DNA	
20	219	1170	173	275	495	135	84	35	108	134	317	DNA	
21	216	940	159	252	431	146	180	32	97	120	412	DNA	
22	220	754	148	234	380	178	141	30	99	112	352	DNA	
23	224	1680	150	234	333	257	99	32	125	122	314	DNA	
24	219	4080	136	291	293	186	80	36	179	302	295	DNA	
25	213	1990	143	274	251	160	70	40	209	261	269	DNA	
26	223	1350	136	246	224	167	DNA	36	165	259	248	DNA	
27	238	1010	163	225	199	146	93	31	147	483	268	DNA	
28	228	836	171	213	180	124	100	30	226	1310	263	DNA	
29	211	-	184	265	189	108	83	30	198	864	241	DNA	
30	184	-	279	452	218	95	87	29	162	627	220	DNA	
31	175	-	413	-	223	-	70	27	-	505	-	DNA	
Mean	-	2302	269	429	594	165	-	-	149	274	290	-	-
Min	-	177	136	213	180	89	-	-	31	112	204	-	-
Max	-	7670	752	1330	4360	455	-	-	878	1310	433	-	-

* Data are provisional and subject to change.
** DNA = data not available.

Table 58. Summary of daily discharge data* (cfs) measured in 1981 in Schoharie Creek at the USGS gaging station, Gilboa, New York.

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Mean and Range
						Mean Daily Values							
1	1.0	1.0	323	.36	.51	.41	.20	.29	.09	.17	.05	.05	
2	.94	6.0	132	.82	.41	.33	.41	.33	.10	.29	.04	.10	
3	.90	3.0	16	.67	.36	.33	.82	.33	.26	.24	.05	.08	
4	.88	1.5	1.0	.56	.33	.36	.62	.33	.26	.18	.04	.06	
5	.84	1.0	.72	.51	.29	.36	1.1	.36	.15	.12	.04	.05	
6	.80	.80	.72	.56	.29	.36	.94	.36	.12	.12	.07	.05	
7	.80	.80	.67	.46	.29	.36	.62	.29	.10	.14	.09	.05	
8	.80	.70	.67	.41	.29	.33	.51	.41	.20	.15	.07	.05	
9	.76	.70	.67	.45	.26	.33	.51	.36	.51	.13	.06	.05	
10	.76	.70	.67	.62	.26	.33	.51	.29	.23	.11	.05	.04	
11	.70	24	.67	.51	.33	.41	.41	.26	.15	.09	.05	.04	
12	.70	6.4	.62	.51	4.9	.33	.45	.26	.10	.07	.05	.04	
13	.70	1.9	.62	.41	2.1	.46	.41	.23	.10	.06	.04	.04	
14	.70	1.4	.62	.51	.94	.67	.41	.23	.29	.05	.04	.04	
15	.70	1.2	.56	.56	.72	.62	.41	.23	.62	.05	.05	.05	
16	.70	1.2	.56	.51	.77	.67	.41	.33	.26	.04	.06	.07	
17	.70	1.9	.51	.51	.67	.46	.41	.23	.18	.04	.05	.05	
18	.80	1.5	.51	.51	.56	.33	.41	.18	.13	.04	.06	.05	
19	.80	1.4	.41	.45	.51	.29	.41	.18	.15	.05	.06	.05	
20	.76	5.5	.41	.45	.50	.29	.62	.15	.13	.05	.10	.06	
21	.72	5700	.36	.41	.50	.36	.94	.13	.13	.03	.12	.08	
22	.70	3110	.36	.36	.46	.41	.77	.13	.23	.03	.08	.06	
23	.70	1560	.36	.36	.41	.29	.51	.12	.36	.05	.06	DNA**	
24	.68	4380	.36	.45	.36	.33	.41	.13	.36	.11	.06	DNA	
25	.64	2030	.36	.45	.36	.29	.41	.15	.36	.08	.05	DNA	
26	.70	1150	.33	.41	.36	.33	.41	.12	.29	.07	.04	DNA	
27	.80	686	.33	.36	.36	.26	.51	.10	.26	.22	.06	DNA	
28	.80	434	.33	.29	.36	.23	.41	.10	.41	1.7	.05	DNA	
29	.70	-	.33	.41	.41	.20	.41	.10	.29	.18	.05	DNA	
30	.64	-	.29	.56	.41	.20	.36	.10	.23	.08	.04	DNA	
31	.60	-	.36	-	.50	-	.33	.10	-	.05	-	DNA	
Mean	.76	683	15.7	.48	.64	.36	.52	.22	.24	.15	.058	-	63.8
Min	.60	.70	.29	.29	.26	.20	.20	.10	.09	.03	.04	-	.03
Max	1.0	5700	323	.82	4.9	.67	1.1	.41	.62	1.7	.12	-	5700

* Data are provisional and subject to change.
** DNA = data not available.

Table 59. Summary of daily discharge data* (cfs) measured in 1981 in Schoharie Creek at the USGS gaging station, North Blenheim, New York.

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Mean and Range
						Mean Daily Values							
1	12	DNA**	413	63	41	57	6.7	7.7	7.9	7.6	DNA	DNA	
2	11	DNA	177	105	37	25	6.9	7.0	7.1	7.7	DNA	DNA	
3	11	DNA	120	45	24	17	29	6.9	7.2	7.5	DNA	DNA	
4	14	DNA	95	50	14	13	34	6.5	6.4	7.1	DNA	DNA	
5	19	DNA	57	48	10	13	100	6.8	6.8	6.5	DNA	DNA	
6	24	DNA	19	60	18	12	40	6.7	6.4	4.7	DNA	DNA	
7	22	DNA	31	37	27	13	12	6.5	6.3	5.0	DNA	DNA	
8	15	DNA	99	39	22	21	7.5	6.8	6.9	5.0	DNA	DNA	
9	17	DNA	71	38	11	27	7.1	7.0	6.6	5.0	DNA	DNA	
10	17	DNA	20	37	10	18	7.0	7.3	6.2	5.2	DNA	DNA	
11	14	DNA	20	70	28	16	7.1	7.0	6.3	4.9	DNA	DNA	
12	83	DNA	45	35	532	12	7.0	7.2	6.5	6.8	DNA	DNA	
13	52	DNA	45	43	245	9.6	7.2	7.2	6.5	7.3	DNA	DNA	
14	DNA	DNA	43	29	136	56	6.8	7.2	6.5	7.4	DNA	DNA	
15	DNA	DNA	63	47	102	55	6.5	7.3	6.5	7.4	DNA	DNA	
16	DNA	DNA	75	26	212	45	6.7	7.0	6.2	7.5	DNA	DNA	
17	DNA	DNA	21	34	111	44	6.8	7.3	6.7	7.8	DNA	DNA	
18	DNA	DNA	19	63	70	31	6.9	7.2	6.9	8.5	DNA	DNA	
19	DNA	66	19	36	64	11	6.5	7.1	7.0	8.5	DNA	DNA	
20	DNA	891	19	24	55	12	7.1	7.6	6.6	8.5	DNA	DNA	
21	DNA	5010	19	16	51	26	6.8	7.0	5.5	9.1	DNA	DNA	
22	DNA	3120	25	14	40	66	7.4	7.0	4.7	9.4	DNA	DNA	
23	DNA	1860	45	15	32	20	6.4	7.6	4.8	10	DNA	DNA	
24	DNA	3930	42	60	28	13	6.6	8.2	5.3	DNA	DNA	DNA	
25	DNA	1910	27	54	25	10	6.7	7.3	4.8	DNA	DNA	DNA	
26	DNA	1240	23	32	47	11	6.9	7.7	4.8	DNA	DNA	DNA	
27	DNA	735	26	20	24	10	7.2	7.9	4.6	DNA	DNA	DNA	
28	DNA	455	23	19	15	12	7.0	7.9	5.7	DNA	DNA	DNA	
29	DNA	-	24	26	23	26	6.4	7.9	6.9	DNA	9.3	DNA	
30	DNA	-	33	73	30	12	6.4	7.9	7.0	DNA	DNA	DNA	
31	DNA	-	62	-	72	-	7.0	7.9	-	DNA	-	DNA	
Mean	-	-	58.7	41.9	69.5	23.8	12.7	7.28	6.25	-	-	-	-
Min	-	-	19	14	10	9.6	6.4	6.5	4.6	-	-	-	-
Max	-	-	413	105	532	66	100	8.2	7.9	-	-	-	-

* Data are provisional and subject to change.
** DNA = data not available.

Table 60. Summary of daily discharge data* (cfs) measured in 1981 in the Mine Kill at the USGS gaging station near North Blenheim, New York.

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Mean and Range
						Mean Daily Values							
1	22	92	44	17	19	20	2.2	1.2	.12	46	44	23	
2	13	610	31	63	15	13	6.5	.82	.12	107	40	76	
3	20	107	24	31	13	11	11	.68	4.2	98	34	55	
4	57	126	31	25	10	14	5.2	.48	3.9	90	29	42	
5	63	177	20	34	9.5	9.1	56	.68	.84	90	21	38	
6	16	311	16	35	8.5	7.9	24	1.1	.14	62	24	27	
7	40	323	8.8	27	8.5	6.6	11	.88	.14	99	30	32	
8	10	219	8.4	23	6.7	4.6	4.7	1.2	.40	81	23	29	
9	7.6	156	8.5	25	5.1	7.7	1.3	1.7	2.2	21	23	24	
10	8.7	155	7.7	29	4.2	7.4	2.3	1.0	.92	15	17	22	
11	5.2	560	7.3	21	7.4	12	.89	.49	.28	12	14	23	
12	3.0	273	6.1	19	246	6.0	.52	.26	.14	10	11	24	
13	2.0	152	5.1	13	105	14	.33	.19	.14	12	9.1	21	
14	1.5	156	9.4	20	58	46	.24	.18	.34	10	8.5	DNA**	
15	1.8	109	13	20	70	29	.15	.18	3.5	10	8.5	DNA	
16	2.2	87	11	13	90	29	.15	1.2	1.8	11	11	DNA	
17	2.9	127	8.0	13	53	14	.15	1.0	.85	17	11	DNA	
18	3.0	145	15	17	40	7.8	.15	.35	.61	20	16	DNA	
19	2.6	149	15	12	34	4.9	.14	.15	1.2	37	19	DNA	
20	2.4	344	5.2	10	30	6.1	5.6	.13	1.1	45	31	DNA	
21	2.0	163	4.7	8.3	24	18	11	.12	2.3	45	45	DNA	
22	1.8	104	3.9	8.2	19	17	6.0	.11	12	30	38	DNA	
23	1.8	69	3.9	10	16	11	2.7	.11	39	51	29	DNA	
24	1.6	120	4.1	34	13	5.9	1.5	.11	63	131	25	DNA	
25	1.5	81	3.8	24	11	8.1	1.2	.12	49	105	19	DNA	
26	1.5	69	4.6	17	10	20	1.2	.13	31	118	18	DNA	
27	2.3	51	5.3	13	10	9.0	2.5	.12	26	190	32	DNA	
28	2.2	43	5.0	11	8.5	4.6	1.7	.11	55	277	33	DNA	
29	1.7	-	5.3	21	12	3.0	1.9	.11	47	94	25	DNA	
30	1.8	-	8.0	33	19	2.6	2.2	.12	39	63	21	DNA	
31	8.6	-	14	-	53	-	1.7	.12	-	50	-	DNA	
Mean	10.0	181	11.5	21.6	33.2	12.3	5.36	.49	12.9	66.0	23.6	-	-
Min	1.5	43	3.8	8.2	4.2	2.6	.14	.11	.12	10	8.5	-	-
Max	63	610	44	63	246	46	56	1.7	63	277	45	-	-

* Data are provisional and subject to change.
** DNA = data not available.

Table 61. Summary of daily discharge data* (cfs) measured in 1981 in Esopus Creek at the USGS gaging station, Shandaken, New York.

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Mean and Range
1	124	60	249	74	96	72	30	24	12	49	160	103	
2	99	1020	212	161	96	69	82	21	12	77	140	132	
3	77	630	256	163	96	65	93	21	14	67	164	133	
4	95	417	230	163	95	70	58	26	13	66	182	130	
5	119	399	195	181	95	64	DNA**	23	11	66	164	130	
6	101	435	168	198	95	59	DNA	21	11	64	171	130	
7	89	338	158	184	90	55	DNA	18	11	72	164	130	
8	82	195	123	173	86	53	DNA	21	21	75	149	131	
9	79	153	106	171	83	52	96	20	78	72	138	129	
10	75	140	98	163	80	51	103	18	40	69	132	DNA	
11	69	591	95	149	153	48	106	18	21	66	127	DNA	
12	66	338	90	139	1180	45	86	17	12	63	119	DNA	
13	63	75	23	130	877	51	74	15	9.9	59	114	DNA	
14	77	31	83	139	580	62	74	12	14	57	112	DNA	
15	74	15	78	142	456	66	65	14	45	52	113	DNA	
16	72	8.7	75	133	471	59	55	47	26	49	116	DNA	
17	71	7.4	72	131	380	53	47	34	19	46	116	DNA	
18	68	7.1	70	126	324	44	39	25	13	45	115	DNA	
19	68	10	70	117	280	43	34	21	12	52	109	DNA	
20	65	1750	64	112	240	43	53	18	11	50	125	DNA	
21	60	1520	65	104	218	50	76	16	9.9	54	133	DNA	
22	60	935	58	100	173	57	48	15	12	53	127	DNA	
23	60	619	55	100	149	55	35	14	17	61	122	DNA	
24	59	827	53	104	131	48	29	17	26	95	121	DNA	
25	55	591	52	96	117	43	26	17	28	86	116	DNA	
26	58	456	50	92	111	35	26	13	25	94	115	DNA	
27	60	355	51	88	101	32	37	12	23	155	116	DNA	
28	59	294	51	85	92	30	26	11	27	303	112	DNA	
29	56	-	49	92	93	29	36	10	23	270	107	DNA	
30	56	-	51	103	85	32	35	11	21	204	104	DNA	
31	74	-	62	-	83	-	29	13	-	189	-	DNA	
Mean	73.9	436	100	130	232	51.2	-	18.8	20.6	89.7	130	-	-
Min	55	7.1	23	74	80	29	-	10	9.9	45	104	-	-
Max	124	1750	256	198	1180	72	-	47	78	303	182	-	-

* Data are provisional and subject to change.

** DNA = data not available.

Table 62. Summary of daily discharge data* (cfs) measured in 1981 in Esopus Creek at the USGS gaging station, Coldbrook, New York.

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Mean and Range
1	273	326	1740	1110	1100	568	345	313	248	310	567	668	
2	277	4140	1630	1360	1100	515	479	306	240	397	569	788	
3	252	2590	1520	1320	1090	508	854	308	247	368	882	781	
4	287	1870	1440	1300	1030	550	784	327	232	356	836	755	
5	343	1610	1400	1330	738	838	1490	320	228	349	804	746	
6	362	1550	1350	1380	562	1020	1220	309	225	348	817	735	
7	417	1480	1310	1350	550	1000	974	303	233	360	803	722	
8	400	1260	1280	1320	539	813	813	305	445	360	768	727	
9	453	1160	1270	1310	525	441	707	299	1020	351	749	716	
10	539	1040	1260	1300	516	428	626	289	466	343	730	695	
11	569	5380	1240	1270	1450	420	554	287	377	336	720	684	
12	647	3960	1210	1250	6880	412	501	282	338	331	706	672	
13	606	2380	1200	995	3350	432	470	276	312	357	695	662	
14	571	1920	1180	423	2240	511	441	296	308	373	686	651	
15	547	1670	1160	431	1970	560	414	414	408	367	693	653	
16	419	1530	1160	752	2230	464	394	429	355	361	696	654	
17	370	1510	1140	1240	1910	417	393	374	338	356	691	630	
18	379	1550	1130	1230	1660	391	492	282	324	360	688	623	
19	444	1680	1120	1200	1320	380	484	272	318	384	677	592	
20	332	13300	1110	1180	1210	377	474	267	306	365	715	586	
21	283	5980	1090	1160	1130	408	433	263	293	356	739	581	
22	342	3850	1090	1140	1020	439	378	257	300	352	720	595	
23	367	2920	1080	1150	894	439	358	255	320	368	711	679	
24	301	4820	1070	1160	844	405	354	256	328	309	707	716	
25	263	3060	1070	1130	798	408	348	255	323	236	699	672	
26	304	2480	1060	1110	758	403	344	246	298	303	693	653	
27	381	2100	1060	1090	741	386	366	242	295	501	698	652	
28	359	1890	1050	1080	710	370	343	239	323	1210	689	646	
29	304	-	1050	1100	733	361	356	233	304	939	677	639	
30	246	-	1160	1130	621	351	342	246	296	763	668	651	
31	278	-	1090	-	614	-	328	259	-	649	-	804	
Mean	384	2822	1214	1143	1317	501	544	291	335	423	716	678	864
Min	246	326	1050	423	516	351	328	233	225	236	567	581	225
Max	647	13300	1740	1380	6880	1020	1490	429	1020	1210	882	804	13300

* Data are provisional and subject to change.
** DNA = data not available.

Table 63. Summary of daily discharge data (cfs) measured in 1981 in the Shandaken Tunnel at Allaben, New York, by the New York City Department of Water Resources.

Day	Month												Yearly Mean and Range
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	164	119	938	862	806	255	221	220	227	186	0	481	
2	156	422	938	863	801	249	221	218	227	186	422	481	
3	150	795	938	865	798	249	226	243	226	186	495	483	
4	142	808	938	865	616	442	231	249	224	187	495	483	
5	135	803	936	866	271	859	244	248	224	190	495	483	
6	130	797	934	868	232	863	257	246	221	190	495	481	
7	128	792	934	868	232	852	260	246	220	190	495	478	
8	127	791	931	868	232	308	261	244	220	190	495	477	
9	125	787	951	866	232	249	265	243	221	190	495	475	
10	122	705	948	865	232	249	254	243	224	190	495	470	
11	116	156	944	865	240	248	254	241	224	190	494	466	
12	111	639	939	787	472	246	254	240	224	190	492	461	
13	105	856	936	115	528	246	254	240	224	190	492	456	
14	99	856	933	TC	549	246	254	368	224	190	492	452	
15	98	856	930	133	826	221	254	401	224	190	490	446	
16	98	856	925	753	869	217	254	398	224	190	489	439	
17	94	856	922	860	871	220	322	255	224	187	489	432	
18	93	857	917	857	637	224	348	249	221	186	489	425	
19	93	860	913	854	580	224	342	248	220	186	487	419	
20	93	91	908	849	580	224	209	246	220	186	487	415	
21	93	545	905	843	580	224	198	244	220	186	489	412	
22	93	938	902	839	433	224	204	243	218	186	489	410	
23	93	938	896	835	425	224	226	241	217	57	489	410	
24	93	938	891	831	425	224	227	240	217	0	489	416	
25	93	938	888	828	425	224	227	240	187	0	489	419	
26	94	938	883	825	425	224	226	237	186	0	487	421	
27	98	938	877	818	425	224	224	235	186	0	486	422	
28	98	938	873	814	424	224	224	235	186	0	486	422	
29	98	-	868	809	328	224	224	234	186	0	484	422	
30	98	-	863	808	300	224	221	232	186	0	483	557	
31	98	-	862	-	300	-	220	229	-	0	-	695	
Mean	111	743	915	766	487	304	245	255	215	136	472	458	426
Minimum	93	91	862	115	232	217	198	218	186	0	0	410	0
Maximum	164	938	951	868	871	863	348	401	227	190	495	695	951

Table 64. Description of water quality stations sampled by Partlow seven-day recording thermometers from May through September 1981 in Schoharie Creek, Esopus Creek, and the STO.

Station		Description
1	Schoharie Creek	Located along the west shore 0.2 mi upstream from Schoharie Reservoir, 110 ft upstream from the Prattsville iron bridge, and about 10 ft upstream from the USGS gaging station (installed in November 1902). The banks are steep and contain large pines and hardwoods, saplings, brush, and grasses. The bottom is boulders and bedrock (Roelofs 1944). The elevation is 1140 ft.
35	Esopus Creek	Located along the north shore 100 ft upstream from the STO. The south bank is gradual with mature deciduous trees. The north bank is steep with boulders. The bottom is gravel. The elevation is 980 ft.
20	STO	Located along the north shore of Esopus Creek at Allaben, New York. The bottom and sides are lined with cobblestone pavers. The south bank is flat with shrubs and grasses. The elevation is 980 ft.
36	Esopus Creek	Located along the north shore 120 ft downstream from the STO. The south bank is gradual with mature deciduous trees. The north bank is steep with boulders. The bottom is boulders and gravel. The elevation is 980 ft.
19	Esopus Creek	Located along the north shore 2.4 mi downstream from the STO. The banks are flat with shrubs and grasses. The bottom is rubble. The elevation is 900 ft.
31	Esopus Creek	Located along the south shore 7.6 mi downstream from the STO at Mount Pleasant, New York. The south bank is steep with boulders. The north bank is flat and has hardwoods and shrubs. The bottom is boulders and gravel. The elevation is 700 ft.
37	Esopus Creek	Located along the north shore 10.6 mi downstream from the STO at the USGS gaging station at Coldbrook (installed in January 1914). Both banks are steep with conifers and hardwoods. The bottom is rubble and gravel. The elevation is 640 ft.

Table 65. Summary of mean daily water temperature data (C) taken by Partlow seven-day recording thermometers from May through September 1981 in Schoharie Creek (SC), Esopus Creek (EC), and the STO.

Date		Station*						
		SC	EC	STO	EC			
		1	35	20	36	19	31	37
7 May	Mean	11.0	DNR**	11.5	10.0	11.5	DNR	11.0
	Minimum	8.0	DNR	11.0	10.0	11.0	DNR	8.5
	Maximum	13.5	DNR	11.5	11.0	12.5	DNR	14.5
8 May	Mean	12.0	10.5	11.5	10.5	11.0	11.5	12.0
	Minimum	9.0	7.5	10.5	10.0	10.0	9.0	9.0
	Maximum	15.0	13.0	11.5	11.5	13.0	14.5	16.0
9 May	Mean	13.0	10.0	10.5	11.0	10.5	11.5	12.0
	Minimum	10.5	7.0	10.5	10.0	9.5	9.5	9.5
	Maximum	15.5	12.5	11.0	12.0	12.0	13.5	15.0
10 May	Mean	14.5	11.0	10.5	10.5	11.5	12.0	13.0
	Minimum	11.5	8.0	10.5	10.0	9.5	10.0	10.5
	Maximum	17.5	13.5	11.5	11.0	12.5	14.5	16.0
11 May	Mean	15.5	12.0	11.0	11.0	12.0	12.0	12.5
	Minimum	14.0	11.0	10.5	10.0	11.0	11.0	12.0
	Maximum	16.5	12.5	11.5	12.0	12.0	12.5	13.5
12 May	Mean	11.0	10.0	RM***	RM	10.0	10.0	10.5
	Minimum	10.5	9.0	RM	RM	9.5	9.5	10.5
	Maximum	13.5	11.0	RM	RM	11.0	11.0	12.0
13 May	Mean	9.5	9.0	RM	RM	10.0	9.5	10.5
	Minimum	8.0	8.0	RM	RM	8.5	8.5	9.0
	Maximum	11.0	10.0	RM	RM	11.5	10.5	12.0
14 May	Mean	10.5	9.5	12.0	11.0	11.0	10.0	11.0
	Minimum	8.0	7.5	11.5	10.5	9.5	8.5	9.5
	Maximum	12.5	11.5	12.0	11.5	12.5	12.0	13.5
15 May	Mean	12.5	10.0	11.5	11.0	11.0	10.5	11.5
	Minimum	11.0	9.0	11.5	10.5	10.5	9.5	11.0
	Maximum	14.0	11.5	12.0	11.5	11.5	11.0	12.5
16 May	Mean	12.0	10.0	12.5	11.5	11.0	10.5	11.5
	Minimum	11.5	9.5	11.5	11.0	10.5	10.0	11.0
	Maximum	13.0	10.5	13.0	12.0	11.5	11.5	13.0
17 May	Mean	11.5	9.5	RM	12.0	11.5	11.0	11.5
	Minimum	10.0	8.5	RM	12.0	11.0	10.0	10.5
	Maximum	13.0	11.5	RM	12.5	13.0	12.5	13.5
18 May	Mean	10.5	9.0	RM	12.0	11.5	11.0	11.5
	Minimum	9.0	7.0	RM	11.5	10.5	9.5	10.0
	Maximum	12.0	11.0	RM	12.5	13.0	12.5	13.5
19 May	Mean	10.5	9.0	13.0	11.5	11.5	11.0	11.0
	Minimum	8.5	7.0	13.0	11.0	10.0	9.5	9.5
	Maximum	12.0	11.0	13.0	12.0	12.5	12.5	13.0
20 May	Mean	11.5	10.0	13.0	11.5	11.5	11.5	12.0
	Minimum	8.5	7.5	12.5	11.0	10.5	9.5	10.0
	Maximum	14.0	13.0	13.0	12.0	13.0	13.5	14.5
21 May	Mean	12.5	10.5	13.0	11.5	11.5	12.0	13.5
	Minimum	10.0	8.0	12.5	11.0	10.5	10.0	10.5
	Maximum	14.0	12.5	13.0	12.0	13.0	13.5	15.0
22 May	Mean	14.5	11.0	13.0	12.0	12.5	13.0	13.5
	Minimum	12.0	9.0	13.0	11.5	11.5	11.5	11.5
	Maximum	17.0	13.5	13.0	12.5	13.5	15.0	16.5
23 May	Mean	15.5	11.0	13.0	12.5	13.0	13.0	13.5
	Minimum	13.0	8.5	13.0	11.5	11.5	11.5	11.5
	Maximum	17.0	14.0	13.0	13.5	14.0	14.5	16.5
24 May	Mean	16.0	11.5	13.0	13.0	13.0	13.5	14.0
	Minimum	13.0	8.5	13.0	12.0	12.0	12.0	12.0
	Maximum	18.0	14.5	13.0	13.5	14.0	15.0	17.0

* Stations 1, 35, 20, and 36 sampled 7 May through 27 September; stations 19, 31 and 37 sampled 7 May through 22 September.
** DNR = data not recorded.
*** RM = recorder malfunction.

Table 65 - (Continued).

Date		Station						
		SC	EC	STO	EC			
		1	35	20	36	19	31	37
25 May	Mean	17.5	12.5	RM	13.0	13.5	14.0	15.0
	Minimum	15.0	10.0	RM	12.0	12.5	12.5	13.5
	Maximum	19.5	15.0	RM	13.5	14.5	15.5	17.5
26 May	Mean	19.0	14.0	RM	13.5	14.0	14.5	15.5
	Minimum	17.0	11.5	RM	13.0	13.0	13.0	13.5
	Maximum	21.0	16.5	RM	14.5	15.5	17.0	18.0
27 May	Mean	19.5	14.5	RM	13.5	14.5	15.0	15.5
	Minimum	18.0	13.0	RM	13.0	13.5	14.0	14.5
	Maximum	20.5	16.5	RM	14.0	15.5	16.5	17.5
28 May	Mean	19.0	14.5	RM	13.5	14.0	14.5	15.5
	Minimum	18.0	13.5	RM	13.0	13.5	14.0	14.5
	Maximum	20.5	15.0	RM	13.5	15.0	16.0	16.5
29 May	Mean	18.5	14.0	RM	13.5	14.0	14.5	15.0
	Minimum	17.0	13.0	RM	13.0	13.5	14.0	14.5
	Maximum	19.0	15.0	RM	14.5	15.0	15.0	16.0
30 May	Mean	18.0	15.0	RM	13.5	14.0	15.0	16.0
	Minimum	16.5	13.0	RM	13.0	13.0	13.5	14.0
	Maximum	19.5	16.5	RM	14.5	15.0	16.5	18.0
31 May	Mean	18.0	14.5	RM	14.5	14.5	15.0	16.0
	Minimum	17.0	13.5	RM	14.0	14.0	13.5	14.5
	Maximum	19.0	16.0	RM	14.5	15.0	16.0	17.5
Monthly	Mean	14.0	11.5	12.0	12.0	12.0	12.5	13.0
	Minimum	8.0	7.0	10.5	10.0	8.5	8.5	8.5
	Maximum	21.0	16.5	13.0	14.5	15.5	17.0	18.0
1 Jun	Mean	17.0	14.0	RM	13.5	14.0	14.5	15.0
	Minimum	14.5	10.5	RM	12.5	12.0	12.0	12.5
	Maximum	19.0	17.0	RM	14.0	15.5	17.0	18.5
2 Jun	Mean	16.5	13.0	13.0	13.0	13.5	14.0	13.0
	Minimum	15.5	12.0	12.5	12.5	13.0	13.5	11.0
	Maximum	17.0	14.0	13.5	14.0	14.0	14.5	15.5
3 Jun	Mean	16.0	12.5	13.5	13.5	13.5	13.5	14.5
	Minimum	15.5	12.0	12.5	12.5	13.0	13.0	13.0
	Maximum	16.5	12.5	14.5	14.0	14.0	14.0	16.0
4 Jun	Mean	18.0	14.5	14.5	14.0	14.5	15.0	19.5
	Minimum	16.0	12.0	13.5	13.0	13.0	13.0	14.5
	Maximum	20.0	17.0	16.0	15.5	16.5	18.0	25.0
5 Jun	Mean	19.0	16.0	16.0	16.0	16.0	16.5	16.5
	Minimum	17.0	13.5	15.0	14.5	14.5	14.5	15.0
	Maximum	21.5	19.0	17.0	17.0	17.5	18.5	19.0
6 Jun	Mean	19.5	16.0	17.0	17.0	17.0	17.0	17.5
	Minimum	18.0	14.0	16.5	16.5	16.0	16.5	16.5
	Maximum	21.5	17.5	17.5	17.5	18.0	18.5	19.5
7 Jun	Mean	18.0	15.0	17.5	17.5	17.0	17.0	17.5
	Minimum	16.5	14.0	17.0	17.0	16.5	16.5	16.5
	Maximum	19.5	18.5	18.0	18.0	17.5	18.5	19.5
8 Jun	Mean	18.5	15.5	RM	16.5	16.5	17.0	17.5
	Minimum	14.5	11.5	RM	15.0	15.5	16.0	15.5
	Maximum	22.0	18.5	RM	17.5	17.5	19.0	20.0
9 Jun	Mean	20.5	17.0	16.5	15.0	15.5	17.0	18.0
	Minimum	19.5	16.0	15.5	14.0	15.0	16.0	16.5
	Maximum	22.0	18.5	18.0	16.0	16.5	18.5	20.0
10 Jun	Mean	18.5	16.0	RM	15.0	15.5	16.0	17.0
	Minimum	17.5	14.0	RM	13.5	15.0	15.5	15.5
	Maximum	20.0	17.5	RM	16.5	16.5	17.5	18.0
11 Jun	Mean	18.0	16.0	15.0	15.0	15.5	16.5	17.0
	Minimum	16.0	13.5	14.5	14.0	14.5	14.5	14.5
	Maximum	20.0	19.0	16.5	16.0	17.5	19.0	20.0

Table 65 - (Continued).

		Station						
		SC	EC	STO	EC			
		1	35	20	36	19	31	37
12 Jun	Mean	18.5	16.0	15.0	15.0	15.5	16.5	17.0
	Minimum	16.5	13.5	13.5	13.0	14.0	15.5	15.0
	Maximum	20.0	18.0	17.0	16.0	17.0	18.5	19.0
13 Jun	Mean	19.5	17.0	15.5	15.5	16.0	17.0	17.5
	Minimum	17.0	14.0	15.0	15.0	15.0	15.0	15.0
	Maximum	22.0	20.0	16.0	16.0	17.5	19.5	21.0
14 Jun	Mean	19.0	15.5	15.0	15.0	15.0	16.0	16.5
	Minimum	18.0	14.5	14.5	14.5	14.5	15.5	15.5
	Maximum	21.0	17.5	16.0	16.0	16.0	17.0	18.0
15 Jun	Mean	20.0	17.0	16.0	16.5	17.0	18.0	18.5
	Minimum	17.0	14.5	15.0	15.0	15.0	15.0	15.5
	Maximum	23.0	20.0	17.0	17.5	19.5	21.5	22.0
16 Jun	Mean	22.0	19.5	15.0	16.0	17.0	19.0	20.5
	Minimum	20.0	17.0	14.0	15.5	16.0	17.0	18.0
	Maximum	24.0	22.5	15.5	16.5	18.5	22.0	23.5
17 Jun	Mean	21.0	18.5	15.5	16.5	16.5	18.0	19.0
	Minimum	19.0	17.0	14.5	15.5	15.0	16.0	18.0
	Maximum	23.0	20.0	16.0	16.5	18.0	19.0	21.0
18 Jun	Mean	19.5	17.0	15.0	15.5	16.0	17.0	18.0
	Minimum	17.0	14.0	14.5	15.0	14.5	14.0	15.0
	Maximum	22.5	20.0	16.5	17.0	18.0	20.0	21.5
19 Jun	Mean	21.0	18.0	15.5	16.5	16.5	18.0	18.5
	Minimum	18.5	15.5	15.0	16.0	15.0	15.5	16.0
	Maximum	23.5	20.5	17.0	17.0	18.5	21.0	21.5
20 Jun	Mean	21.0	17.5	16.0	16.5	16.5	17.0	17.5
	Minimum	20.5	17.0	15.0	15.5	15.5	16.5	17.0
	Maximum	22.5	18.5	17.0	17.0	17.0	17.5	18.5
21 Jun	Mean	21.0	17.0	15.5	16.5	16.5	17.0	17.5
	Minimum	19.5	15.5	15.0	15.5	15.5	15.5	16.0
	Maximum	22.5	18.0	16.5	17.0	17.5	19.0	19.5
22 Jun	Mean	20.5	17.5	15.5	16.5	16.5	RM	18.0
	Minimum	19.0	16.5	13.0	15.0	14.5	RM	17.0
	Maximum	21.5	18.5	17.5	17.5	18.0	RM	20.0
23 Jun	Mean	17.5	16.0	17.0	16.5	16.0	RM	16.5
	Minimum	17.0	15.5	14.0	15.0	14.5	RM	15.0
	Maximum	18.5	17.0	18.0	17.5	17.5	RM	18.0
24 Jun	Mean	17.5	16.0	16.5	16.0	16.0	RM	17.0
	Minimum	15.0	13.5	16.0	15.5	14.5	RM	14.5
	Maximum	20.0	19.0	17.0	16.5	17.5	RM	19.0
25 Jun	Mean	19.5	17.0	17.0	16.0	17.0	16.5	18.0
	Minimum	18.5	16.0	16.0	15.5	16.5	15.5	16.5
	Maximum	21.5	18.0	17.5	16.5	18.0	18.5	19.0
26 Jun	Mean	17.0	14.0	17.0	16.0	16.0	16.0	15.5
	Minimum	15.0	12.5	16.5	15.5	15.5	14.5	14.5
	Maximum	20.5	16.5	18.0	17.0	17.0	17.0	17.5
27 Jun	Mean	16.5	15.0	17.0	16.5	17.0	17.5	16.5
	Minimum	13.5	11.5	17.0	16.0	15.5	15.0	13.5
	Maximum	20.0	18.0	18.5	17.5	19.0	20.5	20.0
28 Jun	Mean	19.0	16.0	17.0	16.5	RM	18.5	17.5
	Minimum	16.0	12.5	16.5	16.0	RM	16.0	14.0
	Maximum	22.5	20.0	18.5	17.5	RM	22.0	21.5
29 Jun	Mean	20.0	17.0	17.0	17.0	RM	19.0	18.0
	Minimum	17.0	13.5	17.0	16.5	RM	16.0	14.5
	Maximum	22.5	20.5	17.5	17.5	RM	22.0	22.5
30 Jun	Mean	21.5	18.5	17.0	17.0	18.5	19.5	19.5
	Minimum	19.0	15.5	17.0	17.0	17.5	17.0	16.5
	Maximum	24.0	21.5	17.5	17.5	20.0	22.5	23.0

Table 65 - (Continued).

Date		Station						
		SC	EC	STO	EC			
		1	35	20	36	19	31	37
Monthly	Mean	19.0	16.0	16.0	16.0	16.0	17.0	17.5
	Minimum	13.5	10.5	12.5	12.5	12.0	12.0	11.0
	Maximum	24.0	22.5	18.5	18.0	20.0	22.5	25.0
1 Jul	Mean	21.5	18.0	17.5	17.0	18.0	19.0	19.0
	Minimum	20.0	17.0	16.0	16.5	17.5	18.0	17.5
	Maximum	22.5	18.5	18.0	17.5	19.5	20.0	20.0
2 Jul	Mean	21.5	17.5	17.0	17.0	18.0	19.0	19.0
	Minimum	20.5	17.0	16.5	16.5	17.5	18.0	18.0
	Maximum	22.5	18.0	17.5	17.5	19.0	20.0	20.5
3 Jul	Mean	19.5	16.5	17.0	17.0	18.0	18.0	18.0
	Minimum	18.5	16.0	16.0	16.0	17.0	17.0	17.5
	Maximum	20.5	17.0	18.0	17.5	18.5	18.5	19.0
4 Jul	Mean	18.0	15.5	17.5	16.5	17.0	16.5	17.0
	Minimum	17.5	15.0	16.5	16.0	16.5	16.0	16.5
	Maximum	18.5	16.0	18.0	17.0	18.0	17.5	17.5
5 Jul	Mean	18.0	15.0	17.5	16.5	16.5	16.5	17.0
	Minimum	17.5	14.5	17.0	16.0	16.0	16.0	16.5
	Maximum	18.5	15.5	18.0	17.0	17.5	17.0	17.5
6 Jul	Mean	18.0	15.5	17.5	16.5	17.0	17.0	17.5
	Minimum	16.5	14.0	17.0	16.0	16.0	15.5	15.5
	Maximum	20.0	17.0	18.0	17.5	19.0	19.0	20.5
7 Jul	Mean	19.0	16.0	17.5	16.5	RM	17.5	18.5
	Minimum	17.0	14.0	17.0	15.5	RM	15.5	16.5
	Maximum	21.0	18.0	18.0	18.0	RM	20.0	21.0
8 Jul	Mean	20.5	17.0	17.0	17.0	RM	18.5	19.5
	Minimum	18.5	14.5	16.5	15.5	RM	16.5	17.5
	Maximum	23.0	19.5	18.0	18.0	RM	21.0	22.5
9 Jul	Mean	22.5	18.0	17.0	17.5	18.5	19.5	21.0
	Minimum	21.0	16.5	16.5	16.5	17.5	18.0	19.0
	Maximum	24.0	19.5	18.0	18.0	20.0	21.5	23.5
10 Jul	Mean	23.5	18.5	17.0	17.5	19.0	20.0	21.0
	Minimum	22.0	17.0	16.5	16.5	17.5	18.5	19.5
	Maximum	25.0	21.0	18.0	18.5	20.5	22.0	23.5
11 Jul	Mean	22.5	18.5	17.5	17.5	18.5	19.0	20.0
	Minimum	20.5	16.0	17.0	16.5	16.5	17.0	17.5
	Maximum	24.5	20.5	18.0	19.0	20.5	21.5	23.0
12 Jul	Mean	22.5	18.5	17.5	17.5	18.5	19.0	20.5
	Minimum	21.0	16.5	16.5	16.5	17.0	17.5	18.5
	Maximum	24.0	20.5	18.0	18.5	20.5	21.0	22.5
13 Jul	Mean	23.0	19.0	18.0	18.0	19.0	19.5	20.5
	Minimum	21.5	17.0	17.5	17.0	17.5	18.0	18.5
	Maximum	24.0	21.0	18.0	18.5	20.5	22.0	23.5
14 Jul	Mean	21.5	18.5	18.0	18.0	18.5	19.0	20.0
	Minimum	20.5	17.5	17.0	17.0	17.5	18.5	18.5
	Maximum	23.0	20.0	19.0	18.5	20.0	20.5	22.0
15 Jul	Mean	20.5	17.5	17.5	17.5	18.0	18.5	19.5
	Minimum	18.5	16.0	17.0	16.5	16.5	17.0	17.5
	Maximum	22.0	20.0	18.5	18.5	19.5	20.5	22.0
16 Jul	Mean	21.0	17.5	17.5	17.5	18.5	19.0	19.5
	Minimum	18.5	15.0	17.0	16.5	16.5	17.0	17.0
	Maximum	23.5	20.0	18.5	18.0	20.0	21.5	22.5
17 Jul	Mean	21.5	18.5	18.0	17.5	18.5	19.5	20.0
	Minimum	19.0	15.5	17.0	16.5	17.0	17.5	17.5
	Maximum	24.0	21.0	19.5	19.0	19.5	22.0	23.0
18 Jul	Mean	22.0	18.0	19.5	19.0	19.0	19.5	20.0
	Minimum	20.0	16.0	19.0	18.5	18.0	18.5	18.5
	Maximum	23.0	19.5	20.0	19.5	19.5	21.0	22.0

Table 65 - (Continued).

Date		Station						
		SC	EC	STO	EC			
		1	35	20	36	19	31	37
19 Jul	Mean	22.5	18.5	19.5	19.5	19.5	20.5	20.5
	Minimum	21.0	16.5	19.0	19.0	18.5	19.0	19.0
	Maximum	24.0	20.0	20.0	19.5	20.0	21.5	22.5
20 Jul	Mean	21.5	RM	19.0	19.0	18.5	19.5	19.5
	Minimum	21.0	RM	18.5	18.5	18.0	18.5	18.5
	Maximum	23.5	RM	20.0	19.5	19.5	20.0	20.5
21 Jul	Mean	21.5	RM	18.5	18.5	18.5	19.5	20.0
	Minimum	20.5	RM	18.5	18.5	18.0	18.5	18.5
	Maximum	22.0	RM	19.0	19.0	20.0	21.0	21.5
22 Jul	Mean	21.5	RM	18.5	18.5	18.5	19.5	20.5
	Minimum	20.0	RM	18.0	17.5	17.5	18.0	18.5
	Maximum	22.5	RM	19.0	19.0	19.5	22.0	23.5
23 Jul	Mean	21.0	18.0	18.5	18.5	18.5	19.0	19.5
	Minimum	18.5	15.0	18.0	17.5	17.0	17.0	17.0
	Maximum	23.0	20.5	19.5	19.0	20.0	22.0	22.5
24 Jul	Mean	20.5	17.5	18.5	18.5	18.5	19.0	19.5
	Minimum	18.5	15.0	18.0	18.0	17.5	17.0	17.0
	Maximum	22.5	19.5	19.5	19.0	19.5	21.0	22.0
25 Jul	Mean	20.5	17.0	19.0	19.0	18.5	19.0	19.5
	Minimum	19.5	16.0	18.5	18.5	18.0	18.0	18.5
	Maximum	21.5	18.0	19.0	19.0	19.0	19.5	20.5
26 Jul	Mean	20.5	17.0	19.5	19.0	18.5	19.0	19.5
	Minimum	19.5	16.5	18.5	18.5	18.0	18.0	18.5
	Maximum	21.0	17.5	20.0	19.5	19.5	19.5	20.0
27 Jul	Mean	22.0	19.0	20.0	19.5	20.0	20.5	21.0
	Minimum	20.5	17.0	19.0	18.5	18.5	18.5	19.0
	Maximum	24.0	21.5	21.5	20.5	21.5	23.0	24.0
28 Jul	Mean	20.0	17.5	19.5	19.0	18.5	19.0	19.0
	Minimum	19.5	16.5	19.5	19.0	18.5	18.5	18.5
	Maximum	22.0	18.5	20.5	20.0	20.0	20.0	20.0
29 Jul	Mean	19.0	18.5	20.0	19.5	19.5	19.5	19.5
	Minimum	17.5	17.0	19.5	19.0	18.5	18.0	18.5
	Maximum	19.5	20.5	20.5	20.0	21.0	20.5	22.0
30 Jul	Mean	18.0	18.5	20.0	20.0	20.0	20.0	20.0
	Minimum	15.5	16.0	20.0	19.5	19.5	18.0	17.5
	Maximum	20.5	20.5	20.5	20.0	21.0	22.5	23.5
31 Jul	Mean	20.5	19.0	20.0	20.0	20.5	20.5	21.0
	Minimum	17.5	16.5	19.5	19.5	19.0	18.5	18.0
	Maximum	23.5	21.5	20.5	20.0	22.0	24.0	25.0
Monthly	Mean	21.0	17.5	18.5	19.5	18.5	19.0	19.5
	Minimum	15.5	14.0	16.0	15.5	16.0	15.5	15.5
	Maximum	25.0	21.5	21.5	20.5	22.0	24.0	25.0
1 Aug	Mean	22.0	19.0	20.0	20.0	20.5	21.0	21.5
	Minimum	19.5	16.5	20.0	20.0	19.5	18.5	18.5
	Maximum	24.0	20.5	20.0	20.0	22.0	24.0	25.0
2 Aug	Mean	22.0	19.0	20.0	20.0	20.5	21.0	21.5
	Minimum	20.0	16.5	20.0	20.0	19.5	29.0	19.0
	Maximum	23.0	20.5	20.0	20.0	22.0	23.5	24.0
3 Aug	Mean	22.0	18.5	20.0	20.0	20.5	20.5	21.0
	Minimum	20.5	17.0	20.0	20.0	20.0	19.5	19.5
	Maximum	23.5	20.5	20.0	20.0	21.0	22.5	23.0
4 Aug	Mean	23.0	20.0	20.5	20.5	21.0	21.5	22.0
	Minimum	21.0	17.5	20.0	20.0	20.0	20.0	19.5
	Maximum	25.0	22.5	20.5	20.5	22.5	24.0	25.0
5 Aug	Mean	23.0	21.0	20.5	20.5	21.0	21.5	22.0
	Minimum	22.0	19.0	20.0	20.0	20.0	20.5	20.5
	Maximum	24.0	22.5	20.5	20.5	22.0	23.0	24.5

Table 65 - (Continued).

Date		Station						
		SC	EC	STO	EC			
		1	35	20	36	19	31	37
6 Aug	Mean	22.5	21.0	20.5	20.5	21.0	21.5	22.0
	Minimum	20.5	19.0	20.0	20.5	20.5	19.5	19.5
	Maximum	24.0	23.0	21.0	20.5	22.0	24.0	25.0
7 Aug	Mean	23.5	20.5	20.5	20.0	21.0	21.0	22.0
	Minimum	21.0	18.5	20.0	20.0	20.0	19.5	19.5
	Maximum	25.0	22.0	21.0	20.5	22.0	23.5	24.5
8 Aug	Mean	22.5	18.5	20.5	20.0	20.5	20.0	20.5
	Minimum	21.5	18.0	19.5	19.5	20.0	20.0	20.0
	Maximum	24.0	19.5	20.5	20.0	21.0	20.5	21.0
9 Aug	Mean	22.5	19.5	21.0	20.5	21.5	21.5	22.0
	Minimum	20.0	17.5	20.0	19.5	20.0	19.5	19.5
	Maximum	25.0	21.5	21.5	21.0	23.0	23.5	25.0
10 Aug	Mean	24.0	20.5	21.0	20.5	21.5	22.0	22.5
	Minimum	22.0	17.5	20.5	20.5	20.5	20.0	20.0
	Maximum	25.0	22.5	21.0	20.5	23.0	24.5	25.5
11 Aug	Mean	23.5	19.5	21.0	20.5	21.5	21.5	22.0
	Minimum	22.0	17.5	20.0	20.0	20.5	20.0	20.0
	Maximum	25.0	21.5	21.0	20.5	22.5	23.5	24.0
12 Aug	Mean	23.0	19.5	21.0	21.0	21.5	21.5	22.0
	Minimum	22.0	17.5	20.0	20.0	20.5	20.0	20.0
	Maximum	24.0	21.0	21.5	21.5	23.0	23.5	24.0
13 Aug	Mean	22.0	19.5	21.0	21.0	21.5	21.5	22.0
	Minimum	20.5	18.0	21.0	21.0	20.5	20.0	20.0
	Maximum	23.0	21.5	21.5	21.0	22.5	23.5	24.0
14 Aug	Mean	23.5	20.0	21.5	21.5	21.5	22.0	22.0
	Minimum	21.5	18.5	21.0	21.0	21.0	20.5	20.5
	Maximum	25.0	21.5	22.0	21.5	23.0	23.5	25.0
15 Aug	Mean	22.5	20.0	21.5	21.5	22.0	22.0	22.0
	Minimum	22.0	19.0	21.5	21.5	21.5	21.5	21.5
	Maximum	24.0	20.5	22.0	22.0	22.0	22.5	23.0
16 Aug	Mean	22.0	19.5	22.0	22.0	22.0	22.0	22.0
	Minimum	20.5	18.0	21.5	22.0	21.5	20.5	20.5
	Maximum	22.5	21.0	22.0	22.0	23.0	23.5	24.0
17 Aug	Mean	18.5	18.0	21.5	21.5	21.5	21.0	20.5
	Minimum	17.0	16.0	21.5	21.0	21.0	19.5	19.0
	Maximum	20.0	20.5	22.0	22.0	22.5	22.5	23.0
18 Aug	Mean	18.5	18.5	21.0	20.0	21.0	20.5	20.5
	Minimum	16.0	15.5	21.0	20.0	20.0	18.5	17.5
	Maximum	20.5	21.5	21.5	21.0	22.5	24.0	24.5
19 Aug	Mean	20.0	18.0	21.0	20.5	21.0	21.0	21.0
	Minimum	17.0	16.0	21.0	20.0	20.0	18.5	18.0
	Maximum	22.0	21.0	21.0	20.5	22.5	24.0	24.5
20 Aug	Mean	20.0	17.5	21.0	20.5	21.0	20.5	20.5
	Minimum	17.5	14.5	21.0	20.5	20.0	18.0	18.0
	Maximum	21.5	20.5	21.0	20.5	22.0	23.5	24.0
21 Aug	Mean	20.5	18.5	20.5	20.5	20.5	20.5	21.0
	Minimum	17.5	14.5	20.5	20.5	20.0	18.5	18.0
	Maximum	21.5	22.0	21.0	20.5	22.0	23.0	24.0
22 Aug	Mean	19.5	18.0	21.0	20.5	20.0	20.0	20.5
	Minimum	19.0	17.5	20.5	20.5	20.0	19.0	18.5
	Maximum	20.5	19.0	21.0	20.5	20.5	21.0	21.5
23 Aug	Mean	20.5	19.0	20.5	20.5	20.5	21.0	21.0
	Minimum	18.5	16.0	20.5	20.5	19.5	19.0	18.5
	Maximum	23.5	21.5	20.5	20.5	22.0	24.0	24.5
24 Aug	Mean	20.0	18.0	20.5	20.5	19.5	20.0	20.0
	Minimum	19.0	17.5	20.0	20.0	19.5	19.0	18.5
	Maximum	22.0	18.5	21.0	20.5	20.5	21.5	21.5

Table 65 - (Continued).

Date		Station						
		SC	EC	STO	EC			
		1	35	20	36	19	31	37
25 Aug	Mean	19.5	18.5	20.0	20.0	20.0	20.5	20.5
	Minimum	18.0	17.0	20.0	20.0	19.5	19.5	19.0
	Maximum	21.0	20.0	20.5	20.0	21.0	22.0	22.5
26 Aug	Mean	20.5	19.5	20.5	20.5	20.5	21.0	21.0
	Minimum	18.0	17.0	20.0	20.0	19.5	19.5	18.5
	Maximum	22.5	22.0	20.5	20.5	22.0	23.5	24.5
27 Aug	Mean	19.5	18.5	20.0	20.5	20.0	20.0	20.0
	Minimum	18.0	16.5	20.0	20.0	19.5	18.5	18.0
	Maximum	20.5	21.0	20.0	20.5	21.5	22.0	22.0
28 Aug	Mean	21.0	19.5	20.0	20.5	20.5	21.0	21.0
	Minimum	18.5	17.5	20.0	20.0	20.0	19.5	12.0
	Maximum	23.5	22.0	20.0	20.5	22.0	23.5	24.5
29 Aug	Mean	21.0	19.0	20.0	20.5	20.0	20.0	20.5
	Minimum	20.5	18.5	20.0	20.5	20.0	20.0	20.5
	Maximum	22.5	19.5	20.0	20.5	20.5	20.5	21.0
30 Aug	Mean	20.5	19.0	20.0	20.0	20.0	20.5	20.5
	Minimum	20.0	18.5	20.0	20.0	20.0	20.0	20.0
	Maximum	21.5	20.5	20.0	20.5	21.0	21.0	21.5
31 Aug	Mean	20.0	18.5	19.5	20.0	20.0	20.0	20.0
	Minimum	19.5	17.5	19.5	20.0	19.5	20.0	20.0
	Maximum	21.0	19.5	20.0	20.0	20.0	20.5	20.5
Monthly	Mean	21.5	19.0	20.5	20.5	21.0	21.0	21.0
	Minimum	16.0	14.5	19.5	19.5	19.5	18.5	12.0
	Maximum	25.0	23.0	22.0	22.0	23.0	24.5	25.5
1 Sep	Mean	19.5	18.0	19.5	20.0	20.0	19.5	19.5
	Minimum	18.5	17.0	19.5	20.0	19.5	19.5	19.5
	Maximum	21.0	19.0	19.5	20.0	20.0	20.0	20.0
2 Sep	Mean	19.5	18.0	19.5	19.5	19.5	20.0	20.0
	Minimum	19.0	17.5	19.0	19.5	19.5	19.5	19.0
	Maximum	20.5	18.5	19.5	19.5	20.0	21.0	21.0
3 Sep	Mean	19.0	17.5	19.5	19.5	19.5	19.5	19.0
	Minimum	18.5	17.0	19.0	19.5	19.5	19.5	18.5
	Maximum	19.5	18.0	19.5	19.5	19.5	19.5	19.5
4 Sep	Mean	17.5	16.5	19.5	19.5	19.5	19.0	18.5
	Minimum	17.5	16.5	19.5	19.5	19.5	19.0	18.0
	Maximum	18.0	17.0	19.5	19.5	19.5	19.5	19.0
5 Sep	Mean	18.5	16.5	19.5	19.5	19.5	19.5	19.0
	Minimum	17.0	15.5	19.5	19.5	19.0	18.5	18.0
	Maximum	20.0	18.5	19.5	19.5	20.5	21.0	21.0
6 Sep	Mean	19.0	16.5	19.5	19.5	19.5	19.5	18.5
	Minimum	18.5	16.0	19.5	19.5	19.0	18.5	17.5
	Maximum	19.5	17.0	19.5	19.5	20.0	20.0	19.5
7 Sep	Mean	19.0	17.0	19.5	19.5	19.5	20.0	19.0
	Minimum	18.5	16.5	19.5	19.5	19.5	19.5	18.5
	Maximum	19.5	18.0	19.5	19.5	20.0	20.5	20.0
8 Sep	Mean	19.0	17.5	19.5	19.5	19.5	19.5	18.5
	Minimum	18.5	16.5	19.0	18.5	18.5	17.5	17.5
	Maximum	19.5	18.5	19.5	19.5	19.5	19.5	19.0
9 Sep	Mean	16.5	17.0	19.0	18.5	18.0	16.5	16.5
	Minimum	16.0	16.0	18.5	18.0	17.0	16.0	16.0
	Maximum	18.5	18.5	19.0	18.5	19.0	17.0	17.5
10 Sep	Mean	15.0	16.0	18.0	18.0	17.5	16.5	16.0
	Minimum	13.5	13.5	17.0	17.0	16.5	14.5	14.0
	Maximum	16.5	18.5	18.5	18.0	18.5	18.5	18.5
11 Sep	Mean	17.0	17.0	17.5	17.0	18.0	17.5	17.5
	Minimum	15.0	15.0	17.0	16.5	16.5	15.5	15.5
	Maximum	19.0	19.0	18.0	17.5	19.5	19.5	20.5

Table 65 - (Continued).

Date		Station						
		SC	EC	STO	EC			
		1	35	20	36	19	31	37
12 Sep	Mean	17.5	16.5	18.0	18.0	18.5	18.0	18.0
	Minimum	16.0	15.0	18.0	17.5	18.0	16.5	16.5
	Maximum	19.5	18.0	18.5	18.0	20.0	20.0	20.5
13 Sep	Mean	18.0	16.5	18.5	18.0	19.0	18.5	18.5
	Minimum	16.0	14.5	18.0	18.0	18.0	16.5	16.5
	Maximum	20.0	18.5	18.5	18.0	20.5	21.0	21.5
14 Sep	Mean	18.5	17.0	18.0	18.0	19.0	18.5	18.5
	Minimum	17.0	15.0	18.0	18.0	18.5	17.0	17.0
	Maximum	19.5	19.0	18.5	18.0	20.5	20.5	20.5
15 Sep	Mean	18.0	17.0	18.0	17.5	18.5	17.5	17.5
	Minimum	17.5	16.5	18.0	17.5	18.0	17.5	17.5
	Maximum	18.5	17.5	18.0	18.0	18.5	18.0	18.0
16 Sep	Mean	16.5	15.5	18.5	18.5	18.5	17.5	17.0
	Minimum	16.0	15.0	18.0	18.0	18.0	17.0	16.5
	Maximum	17.0	16.5	19.0	18.5	19.0	18.0	18.0
17 Sep	Mean	15.5	15.0	18.5	18.5	18.0	17.0	17.0
	Minimum	15.5	14.5	18.0	18.0	17.5	17.0	16.5
	Maximum	16.0	15.0	18.5	18.5	18.5	17.5	17.5
18 Sep	Mean	15.0	15.0	17.5	17.5	17.5	17.0	17.0
	Minimum	13.5	14.0	17.0	17.0	17.0	16.5	16.0
	Maximum	16.0	16.5	18.0	18.0	18.0	18.5	18.5
19 Sep	Mean	14.5	14.5	17.0	17.0	17.0	16.0	16.0
	Minimum	14.0	14.0	17.0	17.0	16.5	16.0	15.5
	Maximum	15.0	15.0	17.5	17.0	17.0	16.5	16.5
20 Sep	Mean	13.5	14.0	17.0	17.0	17.0	16.0	16.0
	Minimum	12.5	13.0	17.0	17.0	16.5	15.5	15.0
	Maximum	14.5	15.0	17.5	17.0	17.5	17.5	17.5
21 Sep	Mean	13.0	13.0	17.0	16.5	16.5	15.5	15.0
	Minimum	11.0	11.0	16.5	16.5	15.5	14.0	13.5
	Maximum	14.5	15.0	17.0	17.0	17.5	17.0	16.5
22 Sep	Mean	14.0	14.0	17.0	16.5	16.5	15.5	15.0
	Minimum	13.5	13.5	16.5	16.0	16.5	15.0	14.5
	Maximum	14.0	14.0	17.0	16.5	16.5	16.0	15.5
23 Sep	Mean	12.5	12.0	16.0	15.5	DNR	DNR	DNR
	Minimum	11.0	11.0	15.5	14.5	DNR	DNR	DNR
	Maximum	13.5	13.5	16.5	16.0	DNR	DNR	DNR
24 Sep	Mean	10.5	10.5	14.5	14.0	DNR	DNR	DNR
	Minimum	10.0	10.5	14.0	13.5	DNR	DNR	DNR
	Maximum	11.0	11.0	15.0	14.5	DNR	DNR	DNR
25 Sep	Mean	11.0	12.5	14.0	13.5	DNR	DNR	DNR
	Minimum	9.0	10.5	13.5	13.0	DNR	DNR	DNR
	Maximum	13.0	14.5	14.0	14.0	DNR	DNR	DNR
26 Sep	Mean	12.0	12.5	14.5	14.5	DNR	DNR	DNR
	Minimum	11.0	12.0	14.0	14.0	DNR	DNR	DNR
	Maximum	12.5	13.0	14.5	14.5	DNR	DNR	DNR
27 Sep	Mean	14.0	14.0	14.5	14.5	DNR	DNR	DNR
	Minimum	12.0	12.0	14.5	14.5	DNR	DNR	DNR
	Maximum	16.5	15.5	14.5	15.0	DNR	DNR	DNR
Monthly	Mean	16.0	15.5	17.5	17.5	18.5	18.0	17.5
	Minimum	9.0	10.5	13.5	13.0	9.0	14.0	13.5
	Maximum	21.0	19.0	19.5	20.0	20.5	21.0	21.5
Grand	Mean	18.5	16.0	17.5	17.0	17.5	17.5	18.0
	Minimum	8.0	7.0	10.5	10.0	8.5	8.5	8.5
	Maximum	25.0	23.0	22.0	22.0	23.0	24.5	25.5

Table 66. Summary of mean daily air temperature data (C) taken by Partlow seven-day recording thermometers from May through September 1981 at the STO and Esopus Creek (EC).

Date		Station* STO 20	Station* EC 37
7 May	Mean	10.0	9.0
	Minimum	3.5	1.0
	Maximum	19.0	16.0
8 May	Mean	RM**	RM
	Minimum	RM	RM
	Maximum	RM	RM
9 May	Mean	10.5	13.0
	Minimum	1.0	1.5
	Maximum	20.0	20.0
10 May	Mean	13.5	14.5
	Minimum	4.0	5.0
	Maximum	21.0	25.0
11 May	Mean	14.0	15.0
	Minimum	13.5	14.5
	Maximum	15.0	15.0
12 May	Mean	12.5	14.5
	Minimum	7.5	8.5
	Maximum	15.0	18.0
13 May	Mean	10.5	13.0
	Minimum	5.5	7.5
	Maximum	17.5	19.0
14 May	Mean	13.5	15.5
	Minimum	3.5	5.0
	Maximum	25.5	22.5
15 May	Mean	14.5	14.5
	Minimum	12.0	13.0
	Maximum	21.0	19.0
16 May	Mean	13.0	13.5
	Minimum	10.0	10.5
	Maximum	16.5	16.5
17 May	Mean	11.0	11.0
	Minimum	7.0	7.0
	Maximum	17.5	15.0
18 May	Mean	RM	10.0
	Minimum	RM	3.5
	Maximum	RM	15.0
19 May	Mean	RM	11.0
	Minimum	RM	4.0
	Maximum	RM	17.0
20 May	Mean	RM	13.0
	Minimum	RM	5.5
	Maximum	RM	19.5
21 May	Mean	RM	14.5
	Minimum	RM	7.5
	Maximum	RM	20.5
22 May	Mean	RM	18.5
	Minimum	RM	10.5
	Maximum	RM	24.5
23 May	Mean	RM	17.0
	Minimum	RM	10.5
	Maximum	RM	24.0
24 May	Mean	RM	18.0
	Minimum	RM	9.5
	Maximum	RM	26.5
25 May	Mean	RM	21.5
	Minimum	RM	15.0
	Maximum	RM	28.5
26 May	Mean	RM	22.0
	Minimum	RM	17.0
	Maximum	RM	26.5
27 May	Mean	RM	21.0
	Minimum	RM	17.5
	Maximum	RM	25.0
28 May	Mean	20.0	20.0
	Minimum	17.5	18.0
	Maximum	25.5	22.5
29 May	Mean	18.0	18.0
	Minimum	17.0	17.0
	Maximum	20.0	19.0
30 May	Mean	20.5	20.0
	Minimum	16.0	15.5
	Maximum	27.5	24.0
31 May	Mean	17.5	18.5
	Minimum	10.5	13.0
	Maximum	23.0	21.5
Monthly	Mean	14.0	15.5
	Minimum	1.0	1.0
	Maximum	27.5	28.5
1 Jun	Mean	15.0	14.5
	Minimum	6.5	7.0
	Maximum	26.5	21.0
2 Jun	Mean	13.5	14.0
	Minimum	10.5	13.5
	Maximum	16.0	15.0
3 Jun	Mean	14.5	14.0
	Minimum	14.0	13.0
	Maximum	15.5	14.0
4 Jun	Mean	19.0	15.5
	Minimum	14.5	13.5
	Maximum	27.0	19.0
5 Jun	Mean	20.5	19.5
	Minimum	15.5	15.0
	Maximum	30.0	24.5
6 Jun	Mean	20.0	20.5
	Minimum	14.0	16.5
	Maximum	29.5	27.5
7 Jun	Mean	16.5	18.5
	Minimum	12.5	15.0
	Maximum	22.0	21.0
8 Jun	Mean	16.5	17.5
	Minimum	7.5	8.0
	Maximum	27.0	23.5

* Station 20 sampled 7 May through 27 September; station 37 sampled 7 May through 22 September.
** RM = recorder malfunction.
*** DNR = data not recorded.

Table 66 - (Continued).

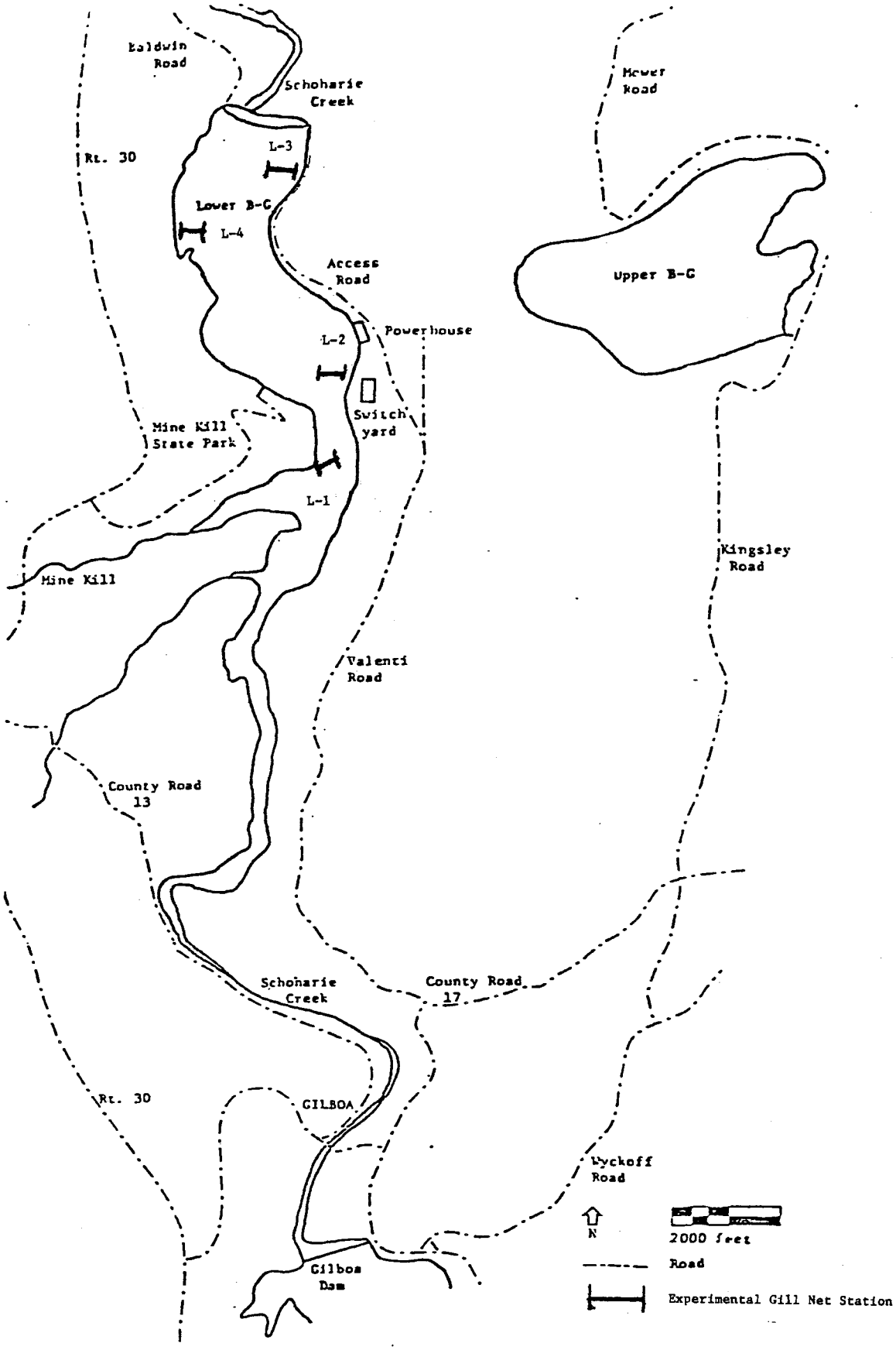
Date		Station STO 20	Station EC 37	Date		Station STO 20	Station EC 37
9 Jun	Mean	19.5	21.5	28 Jun	Mean	16.5	18.5
	Minimum	17.0	19.5		Minimum	8.5	11.6
	Maximum	23.0	24.0		Maximum	27.0	25.0
10 Jun	Mean	17.0	18.5	29 Jun	Mean	18.0	20.0
	Minimum	12.5	15.5		Minimum	9.0	13.0
	Maximum	25.0	21.5		Maximum	29.5	27.0
11 Jun	Mean	17.0	18.5	30 Jun	Mean	19.0	21.0
	Minimum	12.0	13.5		Minimum	11.5	15.5
	Maximum	24.5	23.0		Maximum	28.5	26.5
12 Jun	Mean	16.5	18.5	Monthly	Mean	17.5	19.0
	Minimum	11.0	11.0		Minimum	6.5	7.0
	Maximum	24.5	25.5		Maximum	33.5	32.0
13 Jun	Mean	17.5	19.5	1 Jul	Mean	18.5	20.5
	Minimum	12.0	14.5		Minimum	15.5	18.0
	Maximum	26.0	24.0		Maximum	23.0	23.5
14 Jun	Mean	15.0	18.0	2 Jul	Mean	19.5	21.0
	Minimum	14.5	17.0		Minimum	18.5	19.5
	Maximum	16.5	20.0		Maximum	22.0	24.5
15 Jun	Mean	21.5	21.5	3 Jul	Mean	20.0	21.5
	Minimum	14.5	17.0		Minimum	17.5	20.0
	Maximum	30.0	20.0		Maximum	23.0	24.0
16 Jun	Mean	24.5	26.0	4 Jul	Mean	18.5	20.0
	Minimum	19.5	21.0		Minimum	16.5	19.0
	Maximum	33.5	32.0		Maximum	21.5	22.0
17 Jun	Mean	19.5	23.0	5 Jul	Mean	20.0	21.0
	Minimum	12.0	17.5		Minimum	17.5	19.0
	Maximum	24.0	28.0		Maximum	25.5	24.5
18 Jun	Mean	17.0	20.0	6 Jul	Mean	21.0	23.5
	Minimum	9.5	14.0		Minimum	17.0	18.5
	Maximum	25.0	25.5		Maximum	28.0	28.5
19 Jun	Mean	19.0	20.5	7 Jul	Mean	22.0	25.0
	Minimum	11.0	14.5		Minimum	16.0	20.5
	Maximum	27.0	25.5		Maximum	30.0	31.0
20 Jun	Mean	18.5	19.5	8 Jul	Mean	24.0	27.5
	Minimum	16.5	18.5		Minimum	17.0	22.5
	Maximum	19.5	20.5		Maximum	32.0	32.5
21 Jun	Mean	18.0	19.0	9 Jul	Mean	26.0	29.5
	Minimum	14.0	15.5		Minimum	21.0	25.0
	Maximum	21.0	23.0		Maximum	32.5	33.5
22 Jun	Mean	19.5	21.5	10 Jul	Mean	23.0	RM
	Minimum	16.5	18.5		Minimum	15.0	RM
	Maximum	25.0	26.0		Maximum	28.5	RM
23 Jun	Mean	16.0	18.5	11 Jul	Mean	20.0	22.0
	Minimum	11.0	14.0		Minimum	12.5	15.0
	Maximum	20.0	21.5		Maximum	29.5	29.5
24 Jun	Mean	16.5	18.0	12 Jul	Mean	20.5	22.5
	Minimum	8.5	12.0		Minimum	15.5	17.0
	Maximum	26.0	24.0		Maximum	29.5	28.5
25 Jun	Mean	18.5	21.0	13 Jul	Mean	20.0	23.0
	Minimum	15.0	18.5		Minimum	15.5	19.0
	Maximum	24.5	24.5		Maximum	27.5	30.0
26 Jun	Mean	13.0	16.5	14 Jul	Mean	16.5	20.5
	Minimum	11.5	14.0		Minimum	14.0	18.0
	Maximum	16.0	20.5		Maximum	20.0	23.0
27 Jun	Mean	15.5	18.0	15 Jul	Mean	RM	21.5
	Minimum	8.5	12.5		Minimum	RM	16.0
	Maximum	24.5	24.0		Maximum	RM	27.5

Table 66 - (Continued).

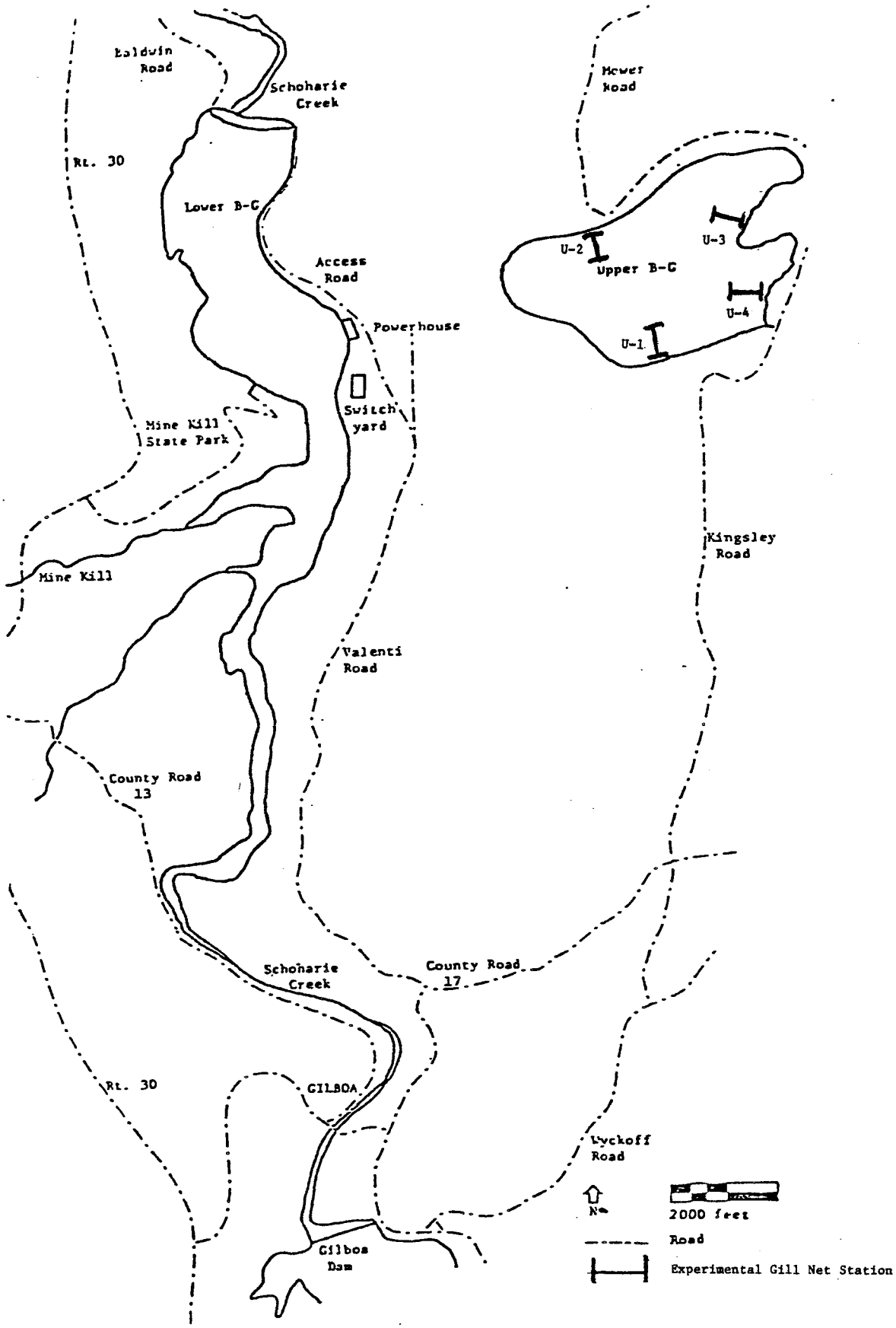
Date		Station STO 20	Station EC 37
16 Jul	Mean	19.5	22.0
	Minimum	12.5	15.0
	Maximum	29.0	29.0
17 Jul	Mean	20.0	21.5
	Minimum	13.5	17.0
	Maximum	28.5	25.5
18 Jul	Mean	21.0	22.0
	Minimum	15.0	17.0
	Maximum	27.5	27.0
19 Jul	Mean	22.5	22.0
	Minimum	16.5	18.0
	Maximum	28.5	25.0
20 Jul	Mean	20.0	20.5
	Minimum	19.0	19.5
	Maximum	21.0	21.5
21 Jul	Mean	22.5	23.0
	Minimum	19.5	20.5
	Maximum	28.0	26.5
22 Jul	Mean	19.0	20.0
	Minimum	13.0	16.0
	Maximum	24.5	24.5
23 Jul	Mean	16.5	17.5
	Minimum	10.0	13.0
	Maximum	26.5	22.5
24 Jul	Mean	16.5	17.0
	Minimum	10.0	13.0
	Maximum	24.0	21.0
25 Jul	Mean	17.5	17.0
	Minimum	13.5	14.5
	Maximum	21.0	19.0
26 Jul	Mean	18.5	18.0
	Minimum	16.0	16.0
	Maximum	21.5	19.5
27 Jul	Mean	19.0	20.0
	Minimum	12.5	17.5
	Maximum	23.5	24.0
28 Jul	Mean	14.5	17.0
	Minimum	11.5	14.5
	Maximum	17.5	19.5
29 Jul	Mean	16.0	18.0
	Minimum	12.5	15.0
	Maximum	21.0	21.5
30 Jul	Mean	16.5	17.5
	Minimum	12.0	13.0
	Maximum	24.0	24.0
31 Jul	Mean	18.5	19.0
	Minimum	10.5	13.5
	Maximum	28.5	25.0
Monthly	Mean	19.5	21.0
	Minimum	10.0	13.0
	Maximum	32.5	33.5
1 Aug	Mean	19.0	19.5
	Minimum	12.5	15.0
	Maximum	26.5	26.5
2 Aug	Mean	19.5	20.5
	Minimum	13.0	16.0
	Maximum	28.0	25.5
3 Aug	Mean	20.0	21.0
	Minimum	14.5	17.5
	Maximum	29.0	25.0
4 Aug	Mean	23.0	22.0
	Minimum	18.0	18.5
	Maximum	31.5	25.5
5 Aug	Mean	20.0	22.5
	Minimum	18.0	19.5
	Maximum	24.5	26.5
6 Aug	Mean	21.0	23.5
	Minimum	16.0	18.5
	Maximum	28.5	29.0
7 Aug	Mean	19.0	21.5
	Minimum	13.0	18.0
	Maximum	25.0	25.0
8 Aug	Mean	17.5	20.5
	Minimum	16.5	20.0
	Maximum	19.5	21.0
9 Aug	Mean	21.0	23.0
	Minimum	16.5	19.0
	Maximum	28.5	29.0
10 Aug	Mean	21.5	RM
	Minimum	15.0	RM
	Maximum	30.0	RM
11 Aug	Mean	20.0	20.5
	Minimum	15.0	17.5
	Maximum	28.5	25.0
12 Aug	Mean	19.0	RM
	Minimum	15.5	RM
	Maximum	25.5	RM
13 Aug	Mean	19.5	22.5
	Minimum	14.5	19.0
	Maximum	26.5	26.5
14 Aug	Mean	20.5	23.0
	Minimum	16.5	19.5
	Maximum	25.0	28.0
15 Aug	Mean	19.5	23.0
	Minimum	17.5	21.5
	Maximum	24.0	26.0
16 Aug	Mean	18.5	22.5
	Minimum	12.0	18.0
	Maximum	23.5	25.0
17 Aug	Mean	14.5	18.0
	Minimum	11.5	15.0
	Maximum	20.0	21.5
18 Aug	Mean	14.5	17.0
	Minimum	6.5	11.5
	Maximum	26.0	25.0
19 Aug	Mean	16.0	18.0
	Minimum	7.5	12.5
	Maximum	26.0	26.0
20 Aug	Mean	16.5	19.0
	Minimum	9.0	13.5
	Maximum	27.0	26.0
21 Aug	Mean	17.0	20.0
	Minimum	10.0	14.0
	Maximum	26.5	26.0

Table 66 - (Continued).

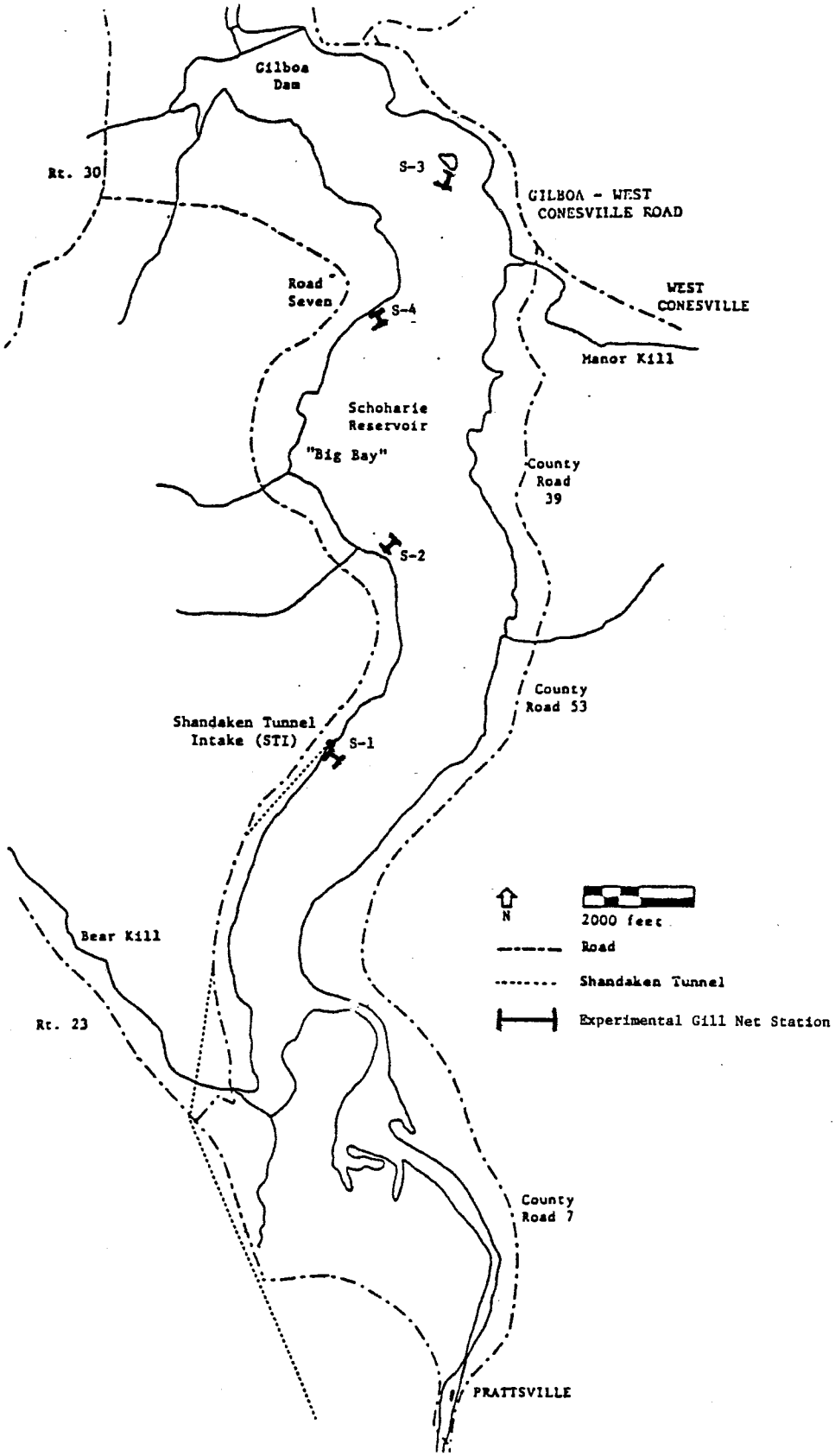
Date		Station STO 20	Station EC 37
22 Aug	Mean	16.0	20.0
	Minimum	12.0	17.5
	Maximum	22.0	23.0
23 Aug	Mean	18.0	21.0
	Minimum	11.0	15.5
	Maximum	28.5	28.5
24 Aug	Mean	15.0	19.0
	Minimum	12.0	17.0
	Maximum	21.0	22.5
25 Aug	Mean	17.5	19.0
	Minimum	14.5	16.5
	Maximum	24.0	22.5
26 Aug	Mean	17.5	19.0
	Minimum	11.5	15.0
	Maximum	26.5	25.0
27 Aug	Mean	17.0	18.5
	Minimum	10.0	14.0
	Maximum	25.5	24.0
28 Aug	Mean	19.0	21.0
	Minimum	14.0	17.5
	Maximum	26.5	25.5
29 Aug	Mean	18.0	19.5
	Minimum	16.0	18.5
	Maximum	20.0	21.0
30 Aug	Mean	19.0	20.0
	Minimum	17.0	18.5
	Maximum	23.5	23.0
31 Aug	Mean	17.5	19.0
	Minimum	16.0	18.5
	Maximum	19.0	20.5
Monthly	Mean	18.5	20.5
	Minimum	6.5	11.5
	Maximum	31.5	29.0
1 Sep	Mean	18.0	18.5
	Minimum	16.5	18.0
	Maximum	20.5	19.0
2 Sep	Mean	17.5	18.5
	Minimum	16.0	17.0
	Maximum	19.0	20.5
3 Sep	Mean	15.5	18.0
	Minimum	15.0	17.0
	Maximum	17.0	18.5
4 Sep	Mean	16.0	17.0
	Minimum	15.0	16.5
	Maximum	17.5	18.0
5 Sep	Mean	17.0	17.5
	Minimum	13.5	15.0
	Maximum	24.5	21.5
6 Sep	Mean	17.0	18.0
	Minimum	14.0	16.0
	Maximum	20.0	19.5
7 Sep	Mean	18.5	18.5
	Minimum	17.0	17.5
	Maximum	20.5	20.5
8 Sep	Mean	17.5	18.0
	Minimum	15.0	17.0
	Maximum	19.0	19.0
9 Sep	Mean	14.0	15.5
	Minimum	9.0	13.5
	Maximum	18.0	18.5
10 Sep	Mean	13.5	15.0
	Minimum	6.0	9.0
	Maximum	22.0	21.0
11 Sep	Mean	19.0	19.5
	Minimum	13.5	14.0
	Maximum	28.0	26.0
12 Sep	Mean	19.5	20.5
	Minimum	14.0	16.5
	Maximum	27.0	26.5
13 Sep	Mean	19.0	19.5
	Minimum	13.5	14.5
	Maximum	29.0	27.5
14 Sep	Mean	18.5	21.0
	Minimum	14.0	16.5
	Maximum	27.5	27.0
15 Sep	Mean	16.0	19.5
	Minimum	14.0	17.5
	Maximum	17.0	20.5
16 Sep	Mean	14.0	17.5
	Minimum	13.0	16.5
	Maximum	17.5	19.0
17 Sep	Mean	13.5	17.0
	Minimum	12.0	16.0
	Maximum	15.0	18.0
18 Sep	Mean	14.0	17.0
	Minimum	11.0	15.0
	Maximum	19.5	19.5
19 Sep	Mean	12.5	14.5
	Minimum	11.0	13.5
	Maximum	15.5	17.5
20 Sep	Mean	12.0	14.5
	Minimum	7.0	11.5
	Maximum	17.0	17.5
21 Sep	Mean	11.0	12.5
	Minimum	5.0	8.0
	Maximum	17.5	17.5
22 Sep	Mean	13.5	14.5
	Minimum	11.0	13.5
	Maximum	16.0	16.5
23 Sep	Mean	8.5	DNR***
	Minimum	5.0	DNR
	Maximum	11.0	DNR
24 Sep	Mean	8.0	DNR
	Minimum	6.5	DNR
	Maximum	10.0	DNR
25 Sep	Mean	12.5	DNR
	Minimum	7.0	DNR
	Maximum	21.0	DNR
26 Sep	Mean	11.5	DNR
	Minimum	9.5	DNR
	Maximum	15.0	DNR
27 Sep	Mean	15.0	DNR
	Minimum	8.0	DNR
	Maximum	23.5	DNR
Monthly	Mean	15.0	17.5
	Minimum	5.0	8.0
	Maximum	29.0	27.5
Grand	Mean	17.5	19.0
	Minimum	1.0	1.0
	Maximum	33.5	33.5



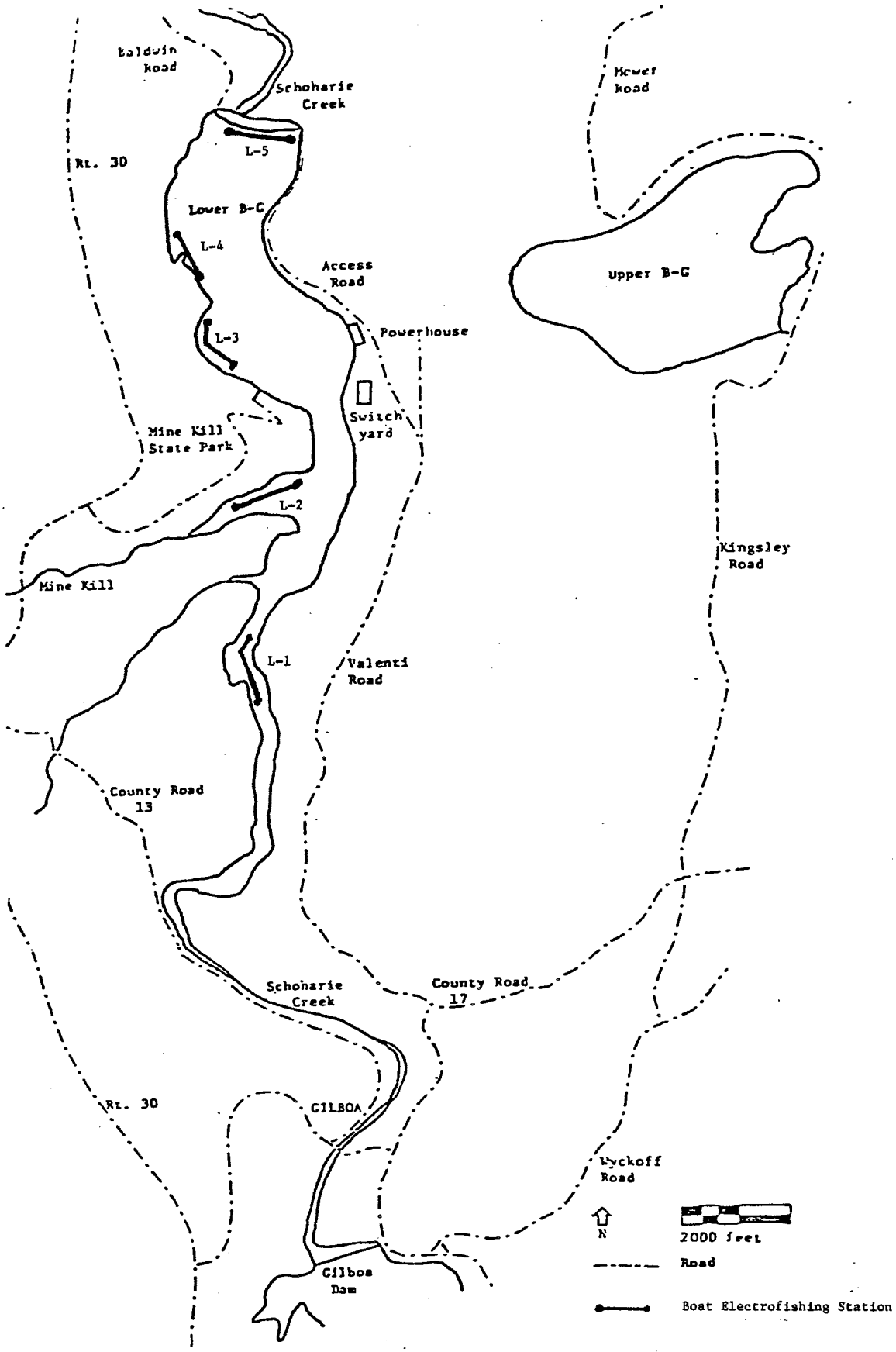
Map 1. Experimental gill net stations L-1 through L-4 sampled in 88 hours on 14 and 15 October 1981 on Lower B-G.



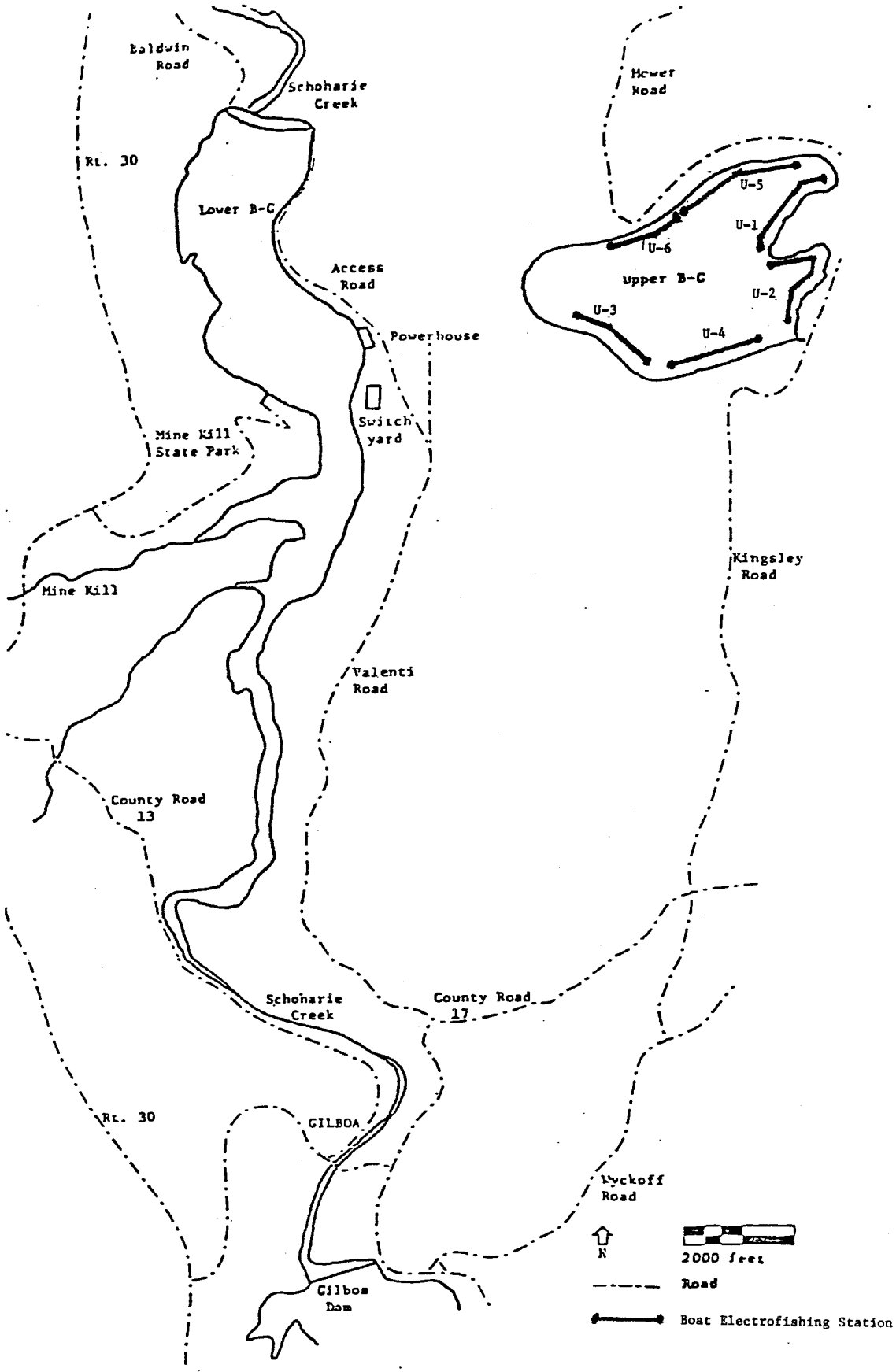
Map 2. Experimental gill net stations U-1 through U-4 sampled in 86 hours on 13 and 14 October 1981 on Upper B-G.



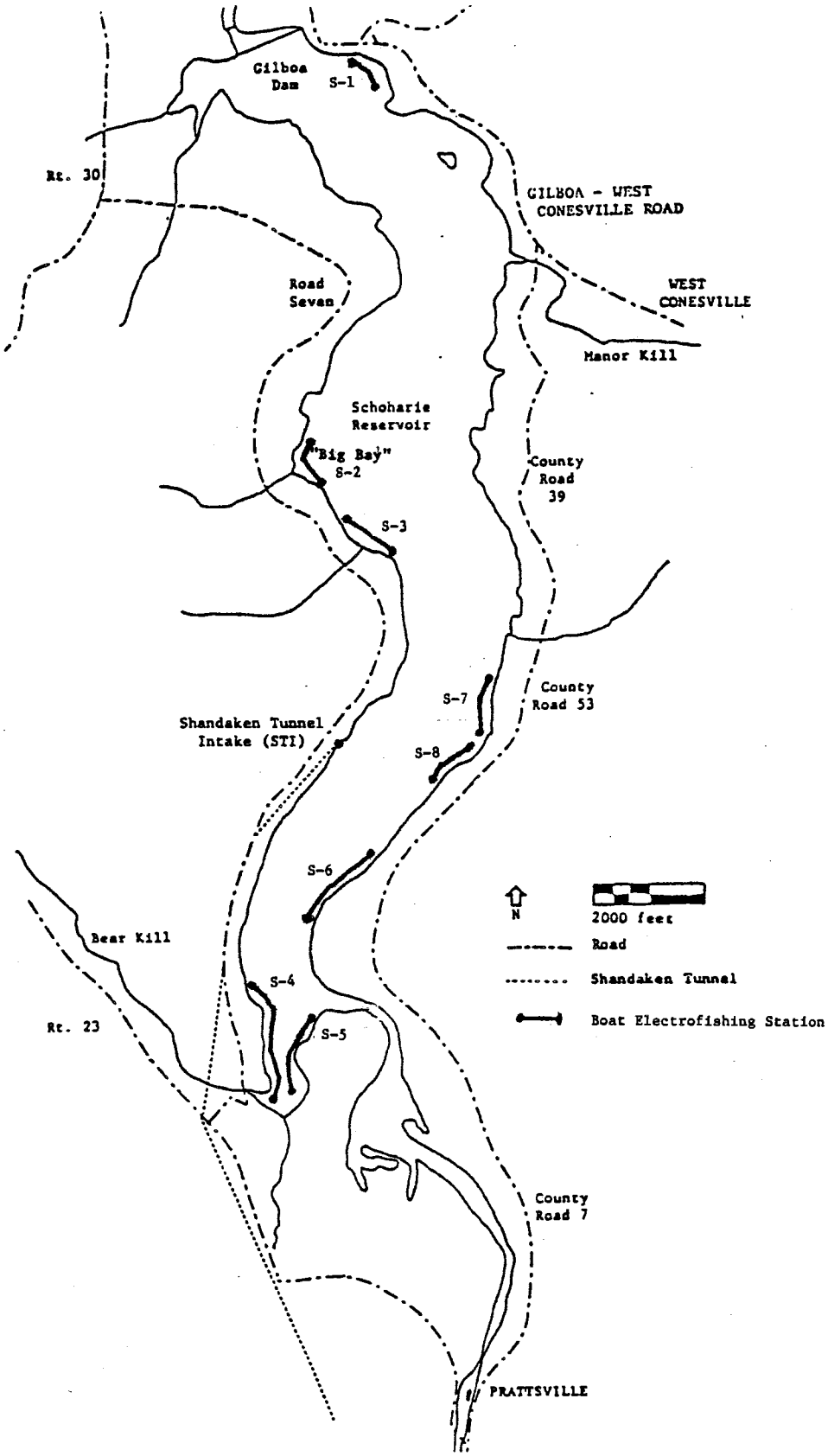
Map 3. Experimental gill net stations S-1 through S-4 sampled in 95 hours on 8 and 9 October 1981 on Schoharie Reservoir.



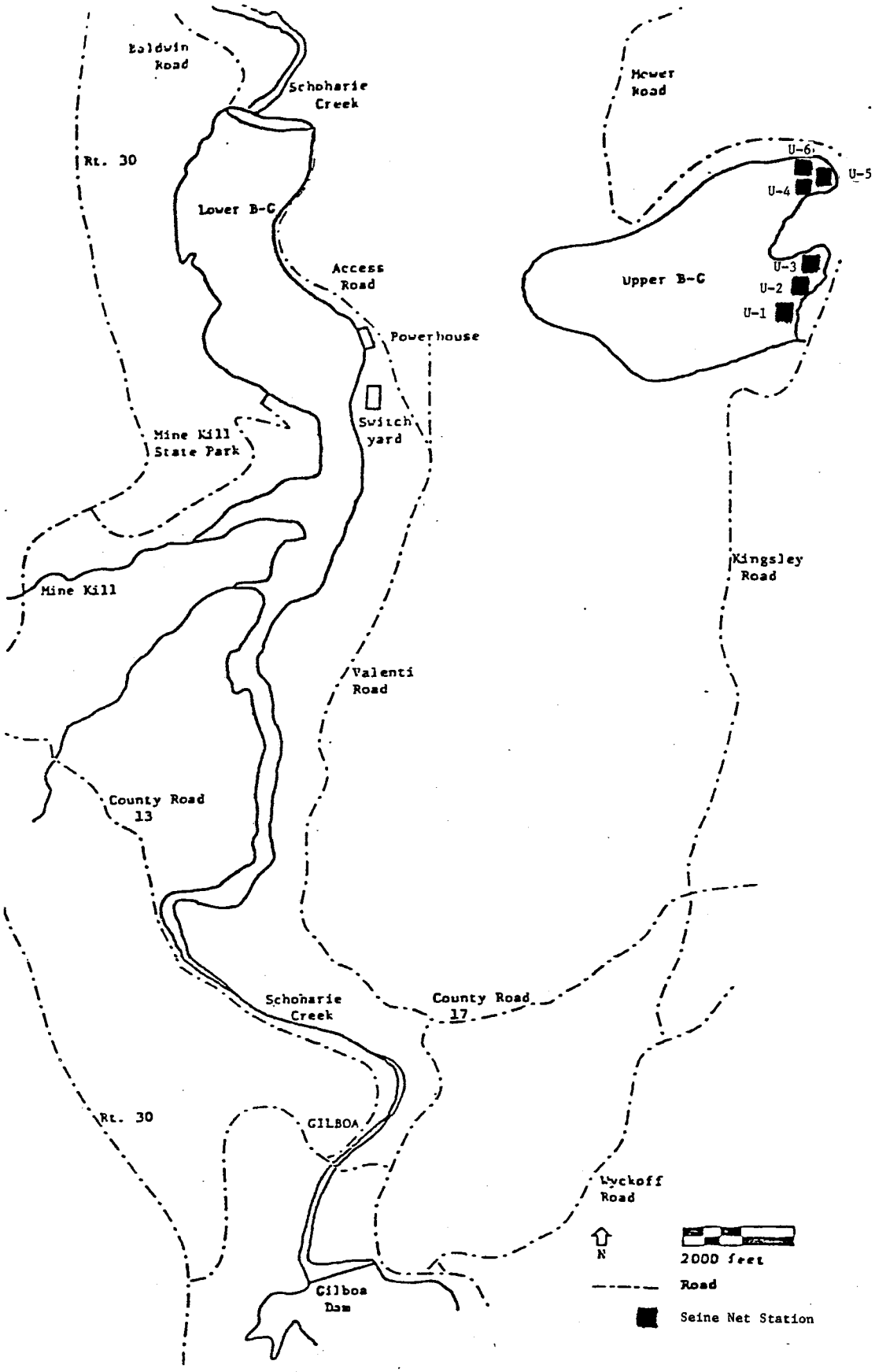
Map 4. Boat electrofishing stations L-1 through L-5 sampled in 90 minutes on 20 October 1981 on Lower B-G.



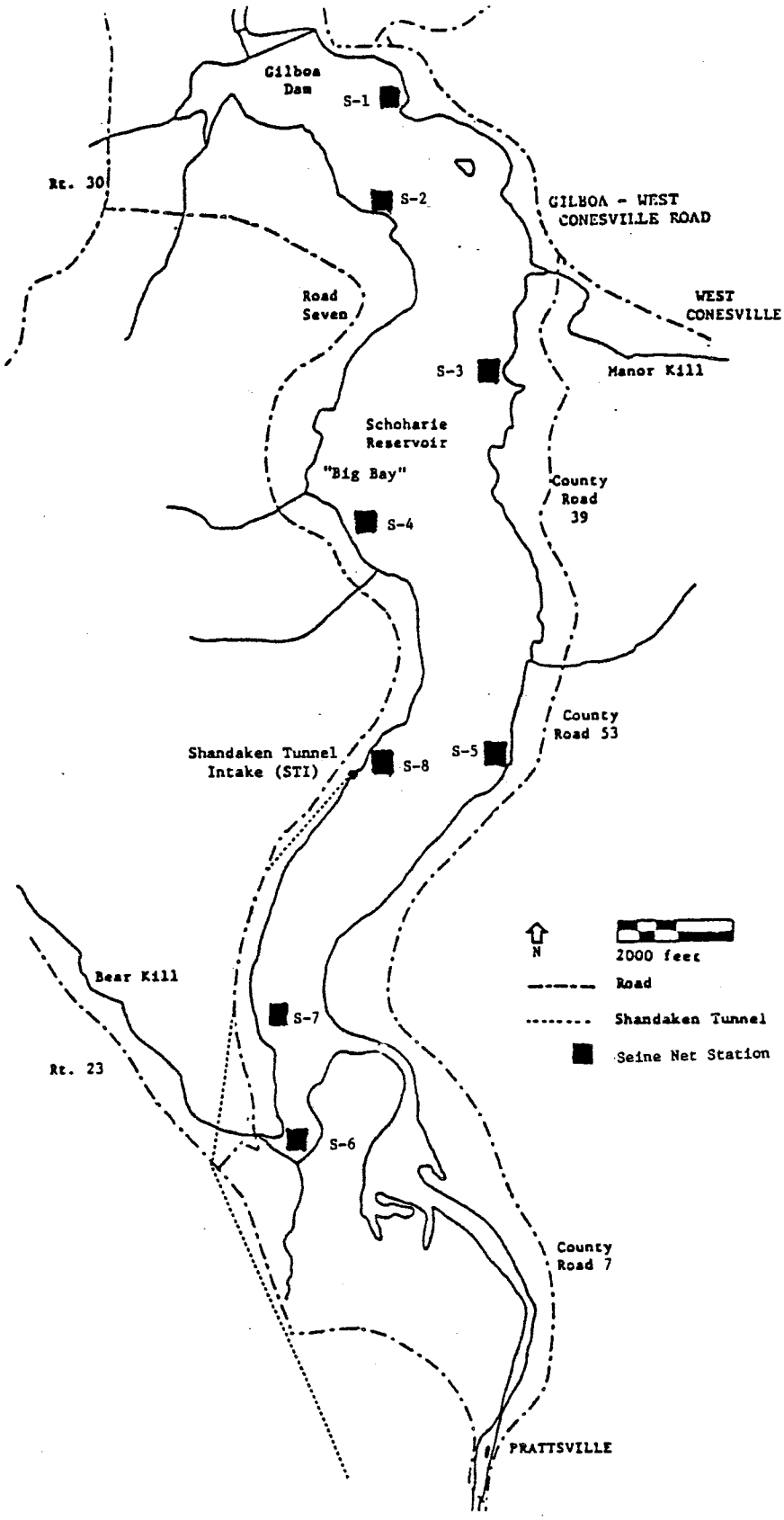
Map 5. Boat electrofishing stations U-1 through U-6 sampled in 120 minutes on 21 October 1981 on Upper B-G.



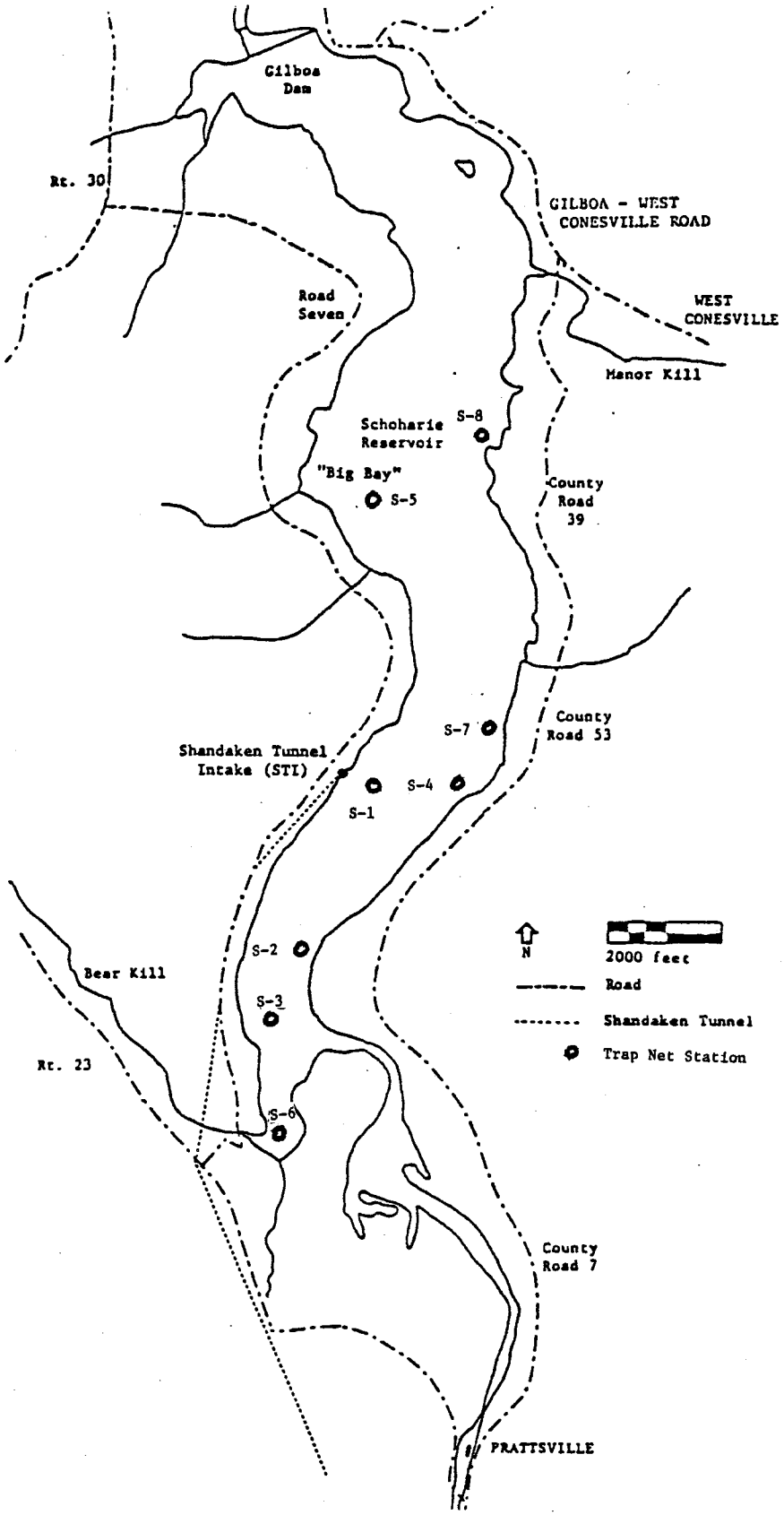
Map 6. Boat electrofishing stations S-1 through S-8 sampled in 130 minutes on 22 October 1981 on Schoharie Reservoir.



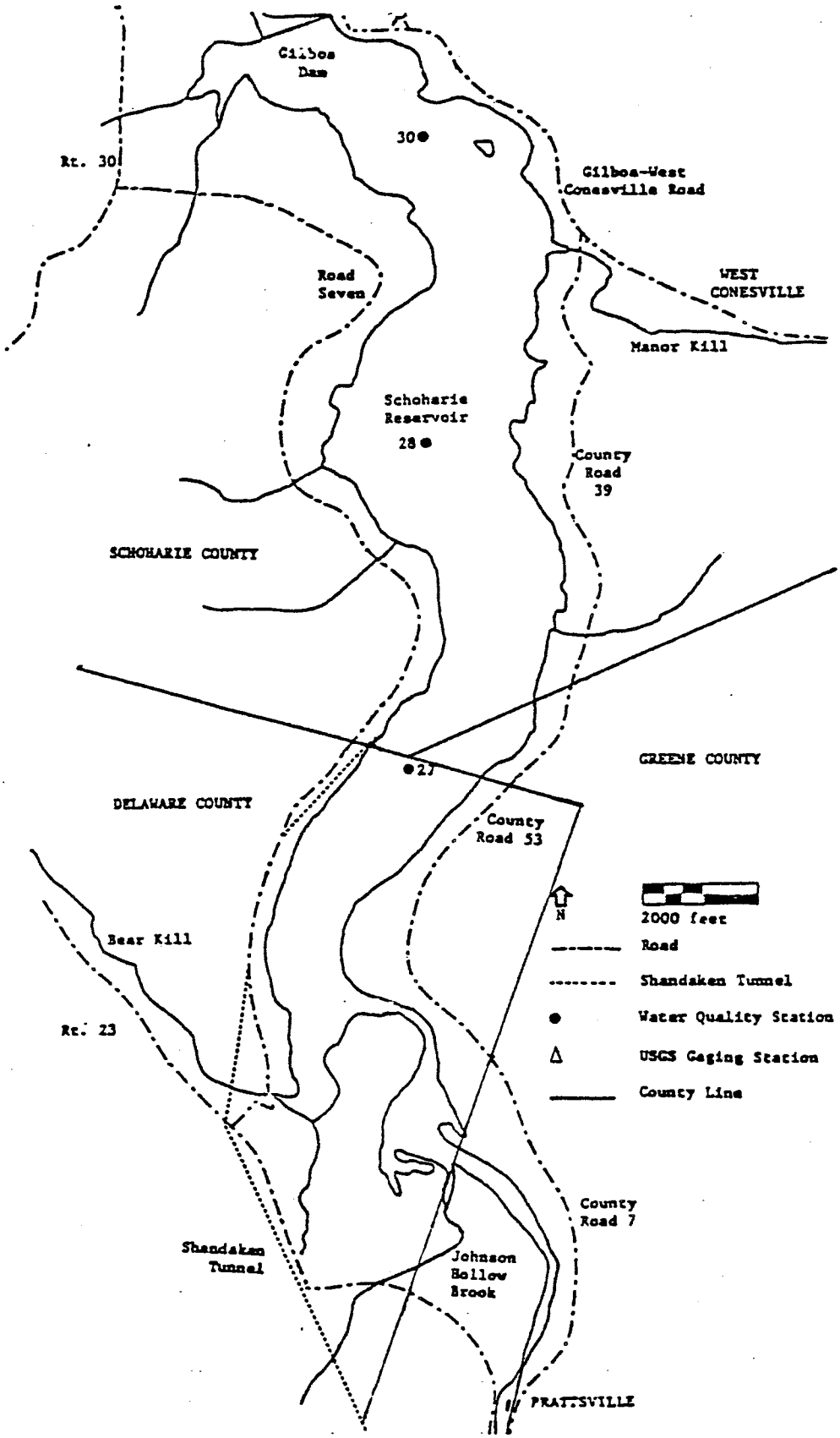
Map 7. Seine net stations U-1 through U-6 sampled in 595 ft on 16 October 1981 in Upper B-G.



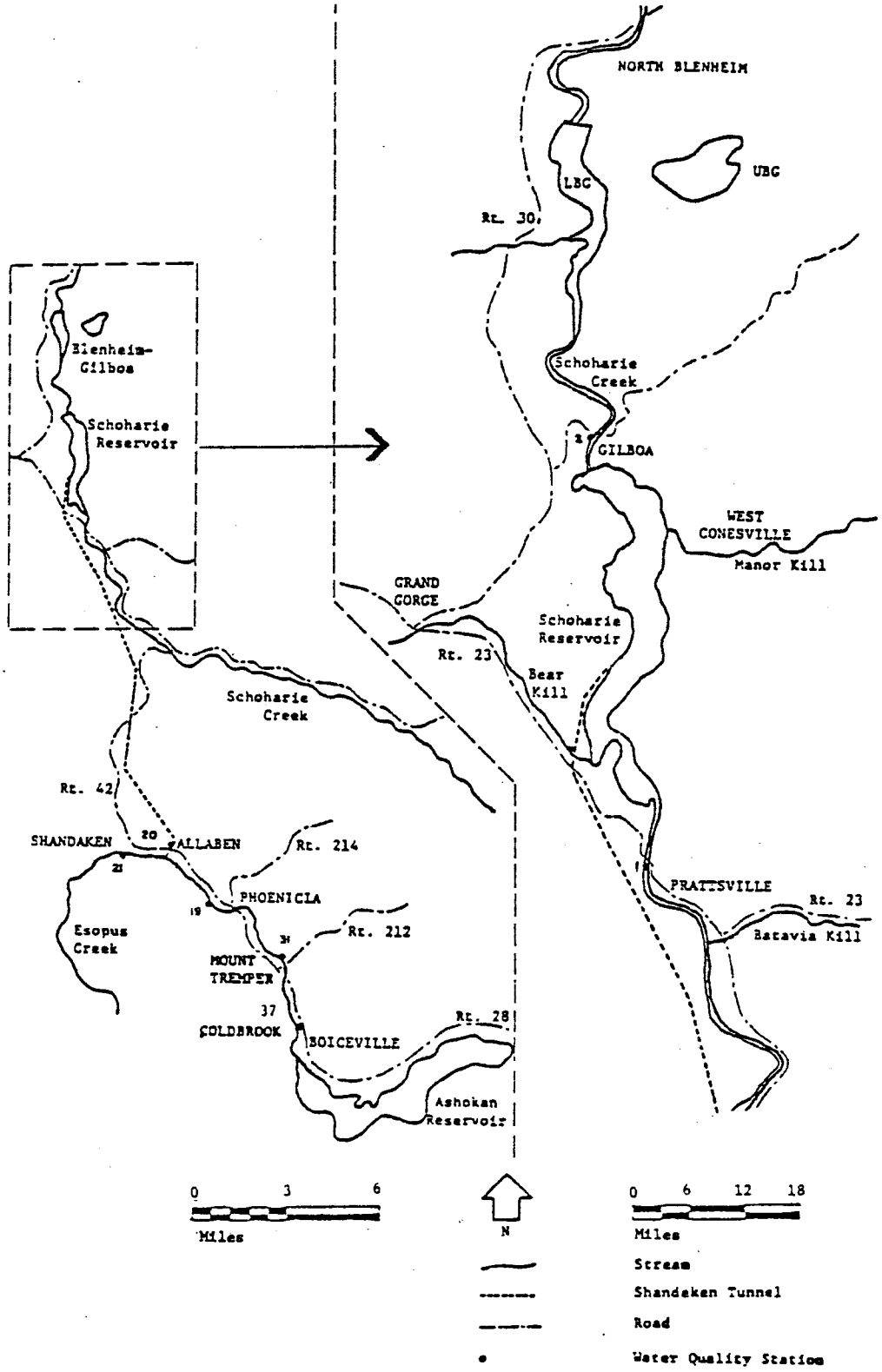
Map 8. Seine net stations S-1 through S-8 sampled in 950 ft on 8 and 14 October 1981 on Schoharie Reservoir.



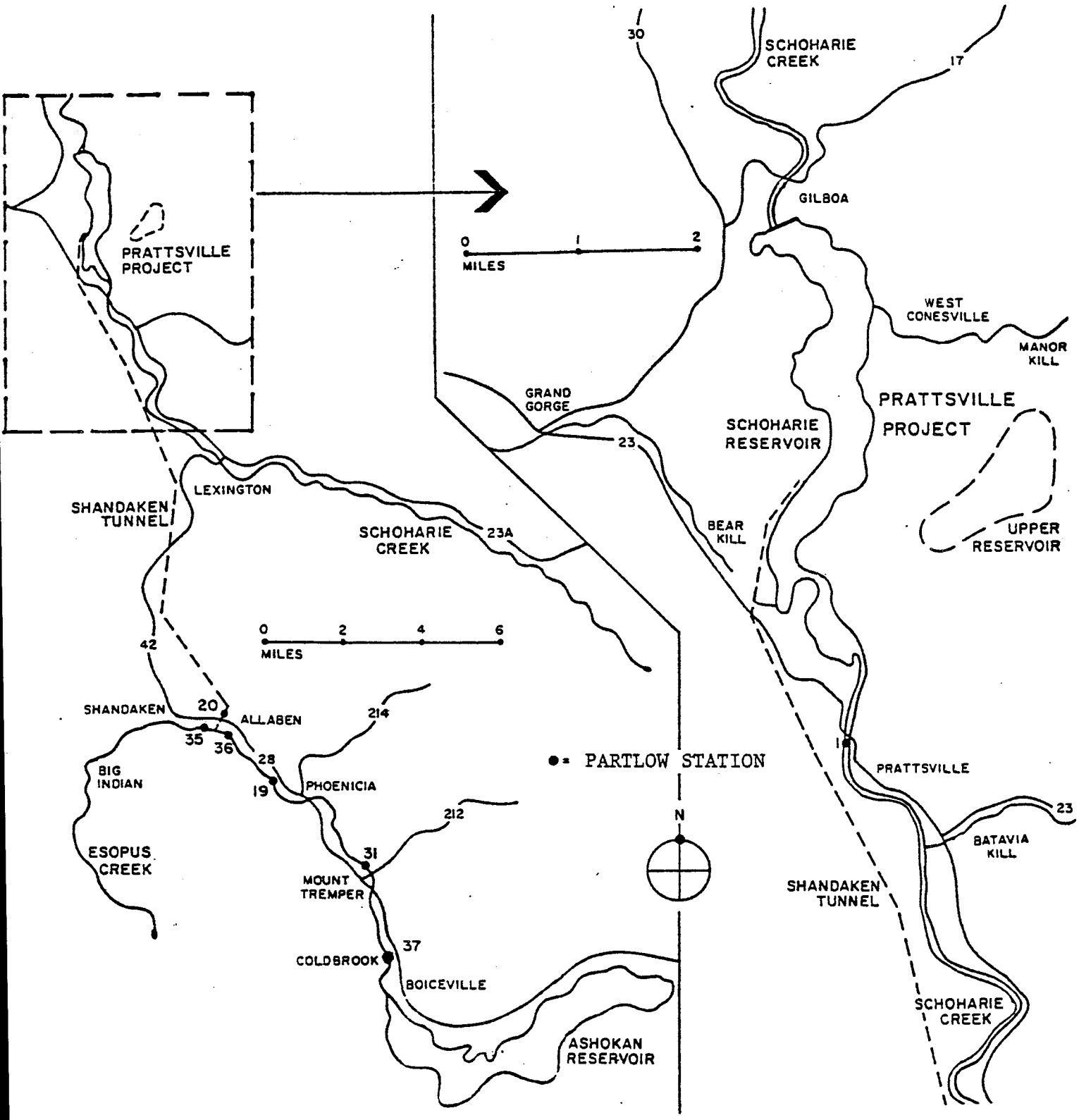
Map 9. Trap net stations S-1 through S-8 sampled in 164 hours on 13 and 14 October 1981 on Schoharie Reservoir.



Map 10. Water quality stations sampled from April through November 1981 in Schoharie Reservoir (27, 28, 30).



Map 11. Water quality stations sampled from February through November 1981 in Schoharie Creek (1, 2), Esopus Creek (21, 19, 31, 37), and the STO (20).



Map 12. Stations sampled by Partlow seven-day recording thermometers from May through September 1981 in Schoharie Creek, Esopus Creek, and the STO.

LOWER B-G CREEL CENSUS 1981

Air Temp. _____
Water Temp. _____
Weather _____
Water Clarity _____

Number of Anglers Counted Instantaneously

Date: _____ Census Taker: _____

Run 1: Time _____ # Cars _____
Boat Ramp _____
Nickerson's _____
Total Shore _____
Total Boat _____

Run 2: Time _____ # Cars _____
Boat Ramp _____
Nickerson's _____
Total Shore _____
Total Boat _____

Run 3: Time _____ # Cars _____
Boat Ramp _____
Nickerson's _____
Total Shore _____
Total Boat _____

Run 4: Time _____ # Cars _____
Boat Ramp _____
Nickerson's _____
Total Shore _____
Total Boat _____

UPPER B-G CREEL CENSUS 1981

Air Temp. _____
Water Temp. _____
Weather _____
Water Clarity _____

Number of Anglers Counted Instantaneously

Date: _____ Census Taker: _____

Run 1: Time _____ # Cars _____
South Dike _____
Nat. Shore _____
North Dike _____
Total Shore _____
Total Boat _____

Run 2: Time _____ # Cars _____
South Dike _____
Nat. Shore _____
North Dike _____
Total Shore _____
Total Boat _____

Run 3: Time _____ # Cars _____
South Dike _____
Nat. Shore _____
North Dike _____
Total Shore _____
Total Boat _____

Run 4: Time _____ # Cars _____
South Dike _____
Nat. Shore _____
North Dike _____
Total Shore _____
Total Boat _____

Fig. 1. Forms used to record instantaneous angler counts from April through September 1981 on Lower and Upper B-G.

LOWER B-G CREEL CENSUS 1981

Census Taker _____

Date_____ Run # _____

Location_____

Residence_____

Distance Traveled (mi)_____

Bait Used_____

No. of Poles Used_____

No. in Party_____ No. of Cars _____

Time Start_____

Time Checked_____

Time Finish_____

Hours Fished_____

Total Effort (# ang x hrs)_____

Fish Creeled:

	Rainbow Trout			Brown Trout			Walleye			Other			
	L	W	Mark	L	W	Mark	L	W	Mark	Species	L	W	Mark
1.													
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													

How does party rate the fishing? ____Exc ____Good ____Fair ____Poor ____No Opinion

What is party fishing for? _____

UPPER B-G CREEL CENSUS 1981

Census Taker _____

Date_____ Run # _____

Location_____

Residence_____

Distance Traveled (mi)_____

Bait Used_____

No. of Poles Used_____

No. in Party_____ No. of Cars _____

Time Start_____

Time Checked_____

Time Finish_____

Hours Fished_____

Total Effort (# ang x hrs)_____

Fish Creeled:

	Rainbow Trout			Brown Trout			Walleye			Other			
	L	W	Mark	L	W	Mark	L	W	Mark	Species	L	W	Mark
1.													
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													

How does party rate the fishing? ____Exc ____Good ____Fair ____Poor ____No Opinion

What is party fishing for? _____

Fig. 2. Forms used to record creel census data from April through September 1981 on Lower and Upper B-G.