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SUMMARY OF WATER QUALITY DATA COLLECTED FROM JANUARY THROUGH DECEMBER 1976 IN SCHOHARIE RESERVOIR, ITS TRIBUTARIES, BLENHEIM-GILBOA RESERVOIRS, SCHOHARIE CREEK, AND ESOPUS CREEK

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INTRODUCTION

Twenty-five physical and chemical parameters important to raw water supply and aquatic life were measured by Ichthyological Associates, Inc. (IA), from samples routinely collected at seven stations on Schoharie Reservoir, six stations on Esopus Creek, four stations on tributaries of Schoharie Reservoir, three stations on Schoharie Creek, one station on a tributary of Lower Blenheim-Gilboa (B-G), three stations on Lower B-G, and two stations on Upper B-G.

Analysis of water samples was first begun by IA in May 1973 at one station on Lower B-G; subsequently, stations were added and sampling frequency was increased to better define present water quality conditions (Table 1). Water quality data collected by IA from 1 January through 30 December 1976 and additional water quality data collected by the New York City Department of Water Resources (NYCDWR) and the United States Geological Survey (USGS) are presented in this report.

MATERIALS AND METHODS

Description and location of all stations are given in Table 2 and shown on Map 1. Time period sampled, frequency of sampling, and location of sample collection at each station from January through December 1976 are described in Table 3. Time of day samples were collected at each station depended upon personnel availability, weather conditions, and equipment reliability (Table 4).

Methods of collection and analysis, except for collection of air temperature and water temperature at stations 20, 35, and 36; turbidity

and water temperature at stations 32, 33, and 34; sediment composition from Schoharie Reservoir and Lower and Upper B-G; and analysis of alkalinity, total hardness, calcium hardness, air temperature, water temperature, and complete water quality at all stations, are presented in Culp 1976a and Culp et al. 1976 and 1977. Since 15 June at stations 20 and 35 and 25 June at station 36, air temperature and water temperature have been measured continuously using spring wound seven-day recording thermometers (Partlow Corporation). Turbidity samples and water temperature were collected at stations 32 and 33, 3 ft below the surface using a 3.3-lb, 18-inch by 1.5-inch end-capped galvanized metal pipe and at station 34 by a 1.3-qt brass Kemmerer bottle.

On 28 September sediment samples were taken from Schoharie Reservoir at stations 26, 27, and 30 and from Lower B-G at stations 13 and 14 to determine particle settling velocity and size composition. Sediments were dried at 33 C for eight hours, hand ground to separate aggregates, and sent to Dr. Robert W. Arnold at Cornell University for analysis. Percent sand was determined by the dry sieve method, percent silt and clay by the pipette method (Black 1965).

Since 2 June 1976 ethylenediamine tetracetic acid (EDTA) titrations have been used to determine alkalinity, total hardness, and calcium hardness concentrations. Since 24 May 1976 field thermometers for air temperature and water temperature have been calibrated against a National Bureau of Standards certified thermometer (Fisher 75A-446 NBS 76).

Methods for complete water quality analysis follow those of APHA 1976, EPA 1974, Golterman 1969, and Orion 1967 (Table 5).

On 18 May 1976 samples were collected from the Bear Kill above and

below the Grand Gorge Sewage Treatment Plant (ASTP and BSTP, respectively) (Map 2).

RESULTS AND DISCUSSION

Present Water Quality

Results of all water quality analysis conducted by IA prior to January 1976 are contained in Culp 1974a, 1974b, 1975, 1976a, and 1976b and Culp et al. 1976 and 1977. Results of water quality analysis from 6 January through 30 December 1976 at seven stations on Schoharie Reservoir, six stations on Esopus Creek, four stations on tributaries of Schoharie Reservoir, three stations on Schoharie Creek, one station on a tributary of Lower B-G, three stations on Lower B-G, and two stations on Upper B-G are presented in Tables 6 through 34. Mean concentrations of all parameters for which standards have been set, except for iron (Fe) at station 23 and nitrate (NO_3) at BSTP, fall within "limits that support a good fish fauna" and, except for iron (Fe) at stations 23, 24, 25, 4, and BSTP and manganese (Mn) at stations 27, 30, 20, 24, 25, and 4, fall within "permissible criteria" for public water supplies (McKee and Wolf 1971, FWPCA 1972) (Tables 35-37).

Factors Affecting Present Water Quality

Schoharie Reservoir

Schoharie Reservoir at full pool (elevation 1130.00 ft) has a surface area of 1145 ac and is 5.8 mi long and 0.7 mi in maximum width (NYCBWS 1950). The 314-sq-mi drainage area is located on the northern slopes of the Catskill Mountains in the counties of Schoharie, Delaware, and Greene. The original storage capacity was 20.8 billion gal, of which 18.8 billion gal were

available for New York City water supply.

Flushing rate of Schoharie Reservoir is very rapid (55 days at elevation 1130.00 ft and average inflows) (Llewellyn Cross, Chas. T. Main, Inc., personal communication). Flushing generally occurs through the Shandaken Tunnel from late spring through early fall and primarily over Gilboa Dam during the remainder of the year (Tables 38 and 39).

Schoharie Reservoir stratified thermally (temperature) and chemically (dissolved oxygen) in 1975 and 1976 (Tables 13 and 14) (Culp et al. 1976). In the hypolimnion, water temperature is low and dissolved oxygen concentration high. As the elevation decreases, epilimnic volume remains about the same and the hypolimnic volume decreases. Since maximum depth when full (1130.00 ft) is 150 ft, there would still be a depth of 70 ft and a substantial volume of hypolimnic water would remain at the northern end if maximum drawdown occurred (1050 ft). Except in 1964 when Schoharie Reservoir was drained to remove silt from the channel leading to the Shandaken Tunnel intake chamber, minimum elevation rarely drops below 1060 ft (Table 40, Fig. 1).

When Schoharie Reservoir is stratified, oxygen levels decrease with depth until the thermocline, then increase. Ruttner (1968) defines this type of oxygen stratification as oxygen "minima" in the thermocline (heterograde oxygen curve) caused by accumulation of oxidizable materials (respiring and decomposing plankton) in and above the thermocline and the presence of the thermocline below the depth of effective photosynthesis. The greater density of the cold hypolimnic waters acts as a thermal barrier and restricts oxidizable materials, which are able to settle through the warmer and less dense epilimnion, from entering.

Extreme fluctuations in turbidity are common in Schoharie Reservoir (Figs. 2 and 3). As turbid water enters from Schoharie Creek, it moves northward in discrete density currents depending on water temperature in Schoharie Reservoir. When Schoharie Reservoir is stratified and large volumes of turbid water enter, suspended particles settle to the thermocline and concentrate above the colder, denser hypolimnion. Consequently, turbidity will increase with depth until the thermocline, then decrease. During a 24-hour period beginning at 0900 on 9 August 1976, tropical storm Belle dropped 5.69 inches of rain on the upper watershed at Windham, New York, and subsequent large volumes of turbid water entered Schoharie Reservoir (Edward Proper, NYCDWR, personal communication). Temperature and turbidity profiles recorded on 21 August 1976 at stations 27 (southern end of Schoharie Reservoir in front of the Shandaken Tunnel intake structure) and 30 (northern end of Schoharie Reservoir) depict the presence of turbidity in discrete density dependent layers (Table 41).

Sources of turbidity that enter Schoharie Reservoir were determined by Moore and Ferris (1951). They calculated that 94.2% of the sediment reaching the reservoir was derived from sheet erosion, 3.7% from streambank erosion, 1.5% from roadside erosion, and 0.6% from shorebank erosion. Severe erosion was occurring on about 0.5% of the watershed area and moderate erosion on about 46% of the area. Nearly all of the severe erosion was occurring on soils derived from lacustrine silts and clays lying on moderate to steep slopes immediately adjacent to the reservoir.

Sediment analysis indicates that percent sand was greatest at station 26 (greatest settling velocity) and decreased northward (stations 27 and 30) with a subsequent increase in percent silt and clay (station 26, 83.2% sand,

14.4% silt, and 2.4% clay; station 27, 7.6% sand, 84.4% silt, and 8.0% clay; and station 30, 0.7% sand, 86.7% silt, and 13.1% clay)(Table 42).

From 1926 through 1951 Moore and Ferris estimated that 1119 ac-ft. of sediment had accumulated in Schoharie Reservoir, 112 ac-ft. had passed out through the Shandaken Tunnel, and 56 ac-ft. had been carried out of the reservoir over Gilboa Dam. The greatest sediment accumulation occurred behind a 1000-ft. long dam (maximum height 12 ft.) located just north of the Shandaken Tunnel intake structure, which was built to divert water from Schoharie Creek into the Shandaken Tunnel before Gilboa Dam was completed. The small dam was breached when it was no longer needed, but the opening filled with sediments and an 8-ft. bar of sediments accumulated behind the dam a short distance from the Shandaken Tunnel entrance.

Lower and Upper B-G

Because of pumped storage operations, which began in June, 1973, the surface area of Lower B-G varied between 220 ac. at minimum elevation 860.0 ft. and 420 ac. at maximum elevation 900.0 ft. and Upper B-G between 260 ac. at minimum elevation 1965.0 ft. and 390 ac. at maximum elevation 2003.0 ft. The drainage area of the B-G reservoirs is 354 sq.mi. when water flows over Gilboa Dam (Table 39). During this time the flushing rate of the B-G reservoirs is extremely rapid. When water ceases to flow over Gilboa Dam, the drainage area is reduced to 40 sq.mi. and little flushing occurs. Maximum storage capacity of Lower B-G is 16,300 ac-ft. at elevation 900.0 ft. and is reduced to 3600 ac-ft. at elevation 860.0 ft. Storage capacity in Upper B-G varies between 18,400 ac-ft. at elevation 2003.0 ft. and 5700 ac-ft. at 1965.0 ft.

Turbidity (Secchi disc) in Lower B-G increased with the initiation of pumped storage operations in June 1973 as sediments in the vicinity of the powerhouse were redistributed (Fig. 4). Once sediments were redistributed to other areas, maximum levels and weekly fluctuations in turbidity generally declined. In 1976 average turbidity at station 14 was 0.7 nephelometer turbidity units (NTU) higher than at station 13, and station 16 was 0.2 NTU higher than station 17 (Table 6, Figs. 5 and 6).

Sediment analysis indicates that percent sand (greatest settling velocity) was highest at station 14 (area most affected by pumped storage operations) and was less at station 13 (spillway) with a subsequent increase in silt and clay (station 14, 85.8% sand, 7.5% silt, and 6.7% clay; station 13, 6.9% sand, 60.3% silt, and 32.7% clay) (Table 42).

There was no thermal or chemical stratification in either Lower or Upper B-G during 1976 (Tables 13 and 14). During 1975 partial thermal and chemical stratification occurred for a short time (mid-July through early August) in deep areas furthest away from the inlet and outlet structures. During 1976 oxygen levels throughout Lower B-G tended to be at or near saturation and water temperatures at or near those that would normally occur at the surface (Tables 13 and 14, Figs. 7 and 8).

Schoharie Reservoir vs Lower B-G (Stations 33 and 27 vs 34 and 14)

During April and May, when surface runoff from tributaries was high and Gilboa Dam was spilling, mean monthly turbidity was generally higher in Lower B-G (Table 15, Figs. 9-11). When flow over Gilboa Dam ceased (mid-July) and flow into Lower B-G became minimal, turbidity was generally lower in Lower B-G.

Because of constant turnover from pumped storage operations, surface water temperature in Lower B-G took longer to warm in the spring (May and June) and cool in the fall (September and October) than in Schoharie Reservoir (Table 13, Fig. 12).

Esopus Creek

From its headwaters to Ashokan Reservoir, Esopus Creek drains 257 sq mi in the south central portion of the Catskill Mountains in the counties of Greene and Ulster (NYCBWS 1936). Present water quality in Esopus Creek from the portal to Ashokan Reservoir (11.9 mi) varies with flow through the Shandaken Tunnel. Mean monthly flow data were recorded during the last 12 years from the portal (NYCDWR) and in Esopus Creek (USGS) 1.0 mi above Ashokan Reservoir (Coldbrook) and just above the portal (Shandaken) (Tables 43-45, Fig. 13). At times (August 1966) water released from Schoharie Reservoir through the Shandaken Tunnel can contribute up to 97.7% of the flow in Esopus Creek at Allaben, New York (Table 46). Consequently, water quality in Esopus Creek below the portal is similar to that in Schoharie Reservoir when large volumes of water are released through the Shandaken Tunnel. As the flow from tributaries entering below the portal increases, the effect of portal releases on water quality in Esopus Creek is rapidly diminished. At times (February 1968) tributaries entering Esopus Creek between the portal and Ashokan Reservoir can contribute up to 77.9% of the flow at Coldbrook (Tables 47 and 48).

The seasonal drawdown of Schoharie Reservoir for water supply and the location of the Shandaken Tunnel intake at the southern end of Schoharie Reservoir (between elevation 1050 ft and 1065 ft) affect the quality of water entering Esopus Creek. When water is discharged through the Shandaken

Tunnel the levels of turbidity, iron and manganese (adsorbed by particulate matter), and hardness (possible leaching of calcium carbonate from the tunnel) are generally greater in Esopus Creek below the Shandaken Tunnel outlet than above (Tables 18 and 35, Fig. 14). Suspended particles (turbidity) that enter Schoharie Reservoir via Schoharie Creek and the Bear Kill during periods of heavy runoff have little distance in which to settle out before entering the Shandaken Tunnel. As the elevation of Schoharie Reservoir drops below 1070 ft, sediments near the Shandaken Tunnel intake are drawn into the Shandaken Tunnel (Edward Proper, NYCDWR, personal communication). Even when Schoharie Reservoir is at or near maximum elevation, large amounts of turbid water entering Schoharie Reservoir can cause highly turbid water to be discharged into Esopus Creek, even though surface water in Schoharie Reservoir contains very little turbidity (Table 41).

Except when Schoharie Reservoir is homothermous (late fall through early spring) the temperature of water entering the Shandaken Tunnel varies with reservoir elevation. During the period when Schoharie Reservoir elevation is generally high (late spring and early summer) water entering the Shandaken Tunnel is drawn off the cold bottom waters (hypolimnion) (Fig. 1). As the elevation drops (generally late summer and early fall), the hypolimnic layer in front of the intake disappears and water entering the Shandaken Tunnel is drawn off the lower, warmer layers of the epilimnion (Fig. 15).

The 18.1-mi Shandaken Tunnel, buried between 350 ft and 1000 ft below the surface, affects water quality as it flows from Schoharie Reservoir to Esopus Creek (NYCBWS 1936). A maximum of 650 MGD can pass through the

tunnel and regardless of Schoharie Reservoir elevation or volume discharged, water takes about 3 hours and 40 minutes to pass through the tunnel (Jerry Mestyanek, NYCDWR, personal communication).

Temperature and turbidity of water are generally reduced by passage through the tunnel; the magnitude of cooling is inversely related to flow through the tunnel (Tables 18 and 23, Figs. 16 and 17).

Tributaries of Schoharie Reservoir

The Bear Kill (station 24) and Manor Kill (station 25) are a major source of nutrients to Schoharie Reservoir (Tables 35 and 36, Map 2). Both flow through agricultural land; in addition, the Bear Kill receives discharge from the Grand Gorge Sewage Treatment Plant (secondary treatment serving a community of 600).

Water quality analysis at two stations on the Bear Kill on 18 May 1976 revealed that the Grand Gorge Sewage Treatment Plant may be a point source of nutrients to Schoharie Reservoir (Table 36). Concentrations of total phosphate, nitrate, and major cations were much greater below the sewage treatment plant (BSTP) than above (ASTP).

Turbidity in all tributaries of Schoharie Reservoir increases during periods of heavy runoff, with the Batavia Kill (station 23) showing the greatest increase (Table 26).

Schoharie Creek and a Tributary of Lower B-G (the Mine Kill)

Water quality in Schoharie Creek at the Prattsville iron bridge (station 1) differs from that at the Gilboa iron bridge (station 2) and the USGS gaging station about 0.75 mi below Lower B-G (station 4) because flow is continuous throughout the year at station 1 and decreases drastically at

stations 2 and 4 when flow over Gilboa Dam ceases. Consequently, stagnation and evaporation occur at stations 2 and 4, resulting in increased ionic concentrations (Tables 27 and 28).

Turbidity in the Mine Kill (station MK) is generally less than at station 23 and greater than at stations 24 and 25 (Table 26). Water temperature is similar to other tributary stations sampled (Table 31).

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Table 1. Dates sampling initiated at 26 water quality stations sampled from May 1973 through December 1976.

Station	Location	Date Sampling Initiated
26	Schoharie Reservoir	24 Jul 1975
27	Schoharie Reservoir	24 Jul 1975
32	Schoharie Reservoir	10 Mar 1976
33	Schoharie Reservoir	12 Apr 1976
28	Schoharie Reservoir	24 Jul 1975
29	Schoharie Reservoir	24 Jul 1975
30	Schoharie Reservoir	14 Aug 1975
31	Esopus Creek	6 Jan 1976
19	Esopus Creek	19 Jun 1975
36	Esopus Creek	25 Jun 1976
20	Esopus Creek	19 Jun 1975
35	Esopus Creek	15 Jun 1976
21	Esopus Creek	19 Jun 1975
22	Tributary of Schoharie Reservoir	19 Jun 1975
23	Tributary of Schoharie Reservoir	19 Jun 1975
24	Tributary of Schoharie Reservoir	19 Jun 1975
25	Tributary of Schoharie Reservoir	19 Jun 1975
1	Schoharie Creek	4 Apr 1974
2	Schoharie Creek	4 Apr 1974
4	Schoharie Creek	4 Apr 1974
MK	Tributary of Lower B-G	10 Aug 1976
13	Lower B-G	3 May 1973
14	Lower B-G	15 Apr 1974
34	Lower B-G	10 Mar 1976
16	Upper B-G	16 Aug 1973
17	Upper B-G	15 Apr 1974

Table 2. Description of water quality stations sampled from May 1973 through December 1976 in Schoharie Reservoir, Lower and Upper B-G, Esopus Creek, the Shandaken Tunnel intake, the Shandaken Tunnel outlet, tributaries of Schoharie Reservoir, Schoharie Creek, and a tributary of Lower B-G.

Station		Description
26	Schoharie Reservoir	Located 1800 m downstream from the entrance of Schoharie Creek into Schoharie Reservoir. The bottom is sandy silt (Roelofs 1944). The depth is 4 m at elevation 1130.00 ft. High rock ledges are on either side of the channel. Overhanging vegetation is conifers and hardwoods.
27	Schoharie Reservoir	Located 230 m southeast of the Shandaken Tunnel intake. The bottom is sandy silt. The depth is 18 m at elevation 1130.00 ft. Shoreline vegetation consists of conifers and hardwoods.
28	Schoharie Reservoir	Located 580 m from the east shore, 1370 m south of the entrance of the Manor Kill into Schoharie Reservoir, and 460 m from the west shore. The depth is 23 m at elevation 1130.00 ft. The bottom is sandy silt. Shoreline vegetation is conifers and hardwoods.
29	Schoharie Reservoir	Located 30 m south of the west wall of Gilboa Dam. The depth is 13 m at elevation 1130.00 ft. The bottom is sandy silt. Shoreline vegetation is conifers and hardwoods.
30	Schoharie Reservoir	Located 270 m northwest of the island and 820 m southeast of the east end of Gilboa Dam. The depth is 34 m at elevation 1130.00 ft. The bottom is sandy silt. The shoreline vegetation is conifers and hardwoods.
13	Lower B-G	Located on the north end of the reservoir 60 m from the spillway and 25 m from the west shore. The west shore has a rock cliff of about 3 m with a steep, grass-covered slope above. Depth varies because of pumped storage operation and is 17 m at reservoir elevation 875.00 ft.
14	Lower B-G	Located 90 m in front of the powerhouse on the east shore of the reservoir. The east shore is predominantly rocks and boulders, with sparse vegetation. Depth is 9 m at reservoir elevation 875.00 ft.
16	Upper B-G	Located 90 m from the west shore bay of the reservoir near the manifold. The west shore consists of large boulders forming a dike, beyond which grasses occur. Depth is 21 m at reservoir elevation 2000.00 ft.
17	Upper B-G	Located 90 m from the south shore bay of the reservoir. The south shore consists of large boulders and gravel forming a dike, beyond which grasses occur. Depth is 21 m at reservoir elevation 2000.00 ft.
33	Schoharie Reservoir	Surface site off middle of deck at Shandaken Tunnel intake building.
34	Lower B-G	Surface site off middle of deck at B-G pump-generator house.
21	Esopus Creek (run)	Located 2.6 km upstream from the Shandaken Tunnel outlet at bridge on Rt. 42. The west bank is steep with shrubs and grasses. The east bank is flat with some hardwoods. The bottom is rubble. The elevation is 1060.00 ft.
35	Esopus Creek (run)	Located 3 m upstream from the Shandaken Tunnel outlet from 15 June through 3 August and 1.6 km upstream from 4 August through 3 November (Partlow seven-day water temperature recorder). The south bank is gradual with mature deciduous trees. The north bank is steep with boulders. The bottom is gravel. Elevation is 980.00 ft.
32	Schoharie Reservoir	Shandaken Tunnel intake chamber.

Table 2 - (Continued).

Station		Description
20	Esopus Creek (run)	Outlet of Shandaken Tunnel into Esopus Creek. The bottom is brick. The banks are flat with shrubs and grasses. The elevation is 980.00 ft.
36	Esopus Creek (run)	Located 36 m downstream from the Shandaken Tunnel outlet (Partlow seven-day water temperature recorder). The south bank is gradual with mature deciduous trees. The north bank is steep with boulders. The bottom is boulders and gravel. Elevation is 980.00 ft.
19	Esopus Creek (run)	Located 3.9 km downstream from the Shandaken Tunnel outlet. The banks are flat with shrubs and grasses. The bottom is rubble. The elevation is 900.00 ft.
31	Esopus Creek (run)	Located 12.2 km downstream from the Shandaken Tunnel outlet at Mt. 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. Elevation is 700.00 ft.
22	Schoharie Creek (pool)	Located 3 m upstream from the bridge at Mosquito Point on Route 23A. The banks are steep with rocky ledges. Shrubs, hardwoods, and conifers are present. The bottom is rubble and bedrock. The elevation is 1260.00 ft.
23	Batavia Kill (run)	Located at the bridge at the junction of Routes 23 and 23A. The banks are flat with grasses present. Extensive farming and clay banks upstream influence stream turbidity. The bottom is rubble. The elevation is 1180.00 ft.
1	Schoharie Creek (run)	Located 20 m upstream from the Prattsville iron bridge about 2 m upstream from the USGS gaging station. The banks are steep and contain large pines and hardwoods, saplings, brush, and grasses. The bottom is boulders. The elevation is 1240.00 ft.
24	Bear Kill (run)	Located 8 m upstream from Schoharie Reservoir at Hardenburgh Falls. The banks are flat with bedrock ledges and contain hardwoods and conifers. The bottom is bedrock. The Grand Gorge Sewage Treatment Plant is located 4.2 km upstream. The elevation is 1140.00 ft.
25	Manor Kill (run)	Located 3 m upstream from a wood and metal bridge east of West Conesville. Extensive upstream farming is present. The banks are relatively flat and contain shrubs, grasses, and some conifers. The bottom is gravel, large rubble, and boulders. The elevation is 1280.00 ft.
2	Schoharie Creek (pool)	Located 15 m upstream from the Gilboa iron bridge on the south shore. The banks on the north side are steep and heavily forested with mixed hardwoods. The south shore is a gradual incline heavily forested with mixed hardwoods, with some open areas of grass. The bottom is boulders. The elevation is 970.00 ft.
MK	Mine Kill (run)	Located 10 m west of the bridge on Route 30. The north shore consists of hardwoods and conifers and the south shore has shrubs and grasses. The bottom is rubble. The elevation is 1050.00 ft.
4	Schoharie Creek (run)	Located near the USGS gaging station on the west shore about 1.2 km downstream from the Lower B-G spillway. The east bank contains mixed hardwoods with a few conifers, brush, and grasses on a flat plain. The west bank is lined with hardwoods only near the shore. Behind the trees are grasses leading up to a blacktop road. The bottom is gravel. The elevation is 800.00 ft.

Table 3. Location and sampling schedule for parameters measured in 1976 in Schoharie Reservoir (SR), Lower and Upper B-G (LBG and UBG), Esopus Creek (EC), the Shandaken Tunnel intake (STI) the Shandaken Tunnel outlet (STO), tributaries of Schoharie Reservoir, Schoharie Creek (SC), and a tributary of Lower B-G.

	Parameter*	Period of Sampling	Sampling Frequency	Location Sample Collected
SR, LBG, and UBG				
26-30, 13, 14, 16, 17	TURB, AT, SD	6 Jan- 6 Apr 3 Nov-15 Dec	Semimonthly	Surface
26-30, 13, 14, 16, 17	TURB, AT, SD	13 Apr-27 Oct	Weekly	Surface
26-30, 13, 14, 16, 17	WT, DO	6 Jan- 6 Apr 3 Nov-15 Dec	Semimonthly	Surface, mid-depth, bottom
26-30, 13, 14, 16, 17	WT, DO	13 Apr-27 Oct	Weekly	2-m intervals
26-30, 13, 14, 16, 17	ALK, TH, CH, pH	6 Jan- 1 Dec	Monthly	Surface, mid-depth, bottom
27, 30, 14, 16	Sedimentation water samples	28 Jan-21 Oct	>2.51 cm rainfall in 24-hour period	Mid-depth
27, 30, 14, 16	Complete water quality analysis	19 Jan-15 Dec	Monthly	Mid-depth
26, 27, 30, 13, 14	Sediment composition, settling velocity	28 Sep	-	Bottom sediment
SR and LBG				
33	TURB, AT, WT	12 Apr-30 Dec	2-5/wk	Surface
34	TURB, AT, WT	10 Mar-30 Dec	2-5/wk	Surface

* TURB = turbidity, AT = air temperature, WT = water temperature, DO = dissolved oxygen, ALK = alkalinity, TH = total hardness, CH = calcium hardness, SD = Secchi disc transparency.

Table 3 - (Continued).

	Parameter	Period of Sampling	Sampling Frequency	Location Sample Collected
EC, STI, and STO				
21, 20, 19, 31	TURB, AT, WT	6 Jan-17 Feb	Semimonthly	Flowing water, 15 cm depth
21, 20, 19, 31	TURB, AT, WT	10 Mar-30 Dec	2-5/wk	Flowing water, 15 cm depth
21, 20, 19, 31	ALK, TH, CH, pH	6 Jan- 1 Dec	Monthly	Flowing water, 15 cm depth
21, 20, 19, 31	DO	6 Jan-17 Feb 3 Nov-15 Dec	Semimonthly	Flowing water, 15 cm depth
21, 20, 19, 31	DO	10 Mar-27 Oct	Weekly	Flowing water, 15 cm depth
20	WT, AT	15 Jun-13 Aug	Continuous	Flowing water, 15 cm depth
35	WT	15 Jun- 3 Nov	Continuous	Flowing water, 15 cm depth
36	WT	25 Jun-18 Aug	Continuous	Flowing water, 15 cm depth
32	TURB, AT, WT	10 Mar-30 Dec	2-5/wk	Surface
21, 20, 19, 31	Sedimentation water samples	28 Jan-28 Oct	>2.51 cm rainfall in a 24-hour period	Flowing water, 15 cm depth
21, 20, 19, 31	Complete water quality analysis	19 Jan-15 Dec	Monthly	Flowing water, 15 cm depth
Tribs of SR and SC and Trib of LBG				
22-25, 1, 4	TURB, AT, WT, DO	6 Jan-17 Feb 3 Nov-15 Dec	Semimonthly	Flowing water, 15 cm depth
22-25, 1, 4	TURB, AT, WT, DO	10 Mar-27 Oct	Weekly	Flowing water, 15 cm depth
22-25, 1, 4	ALK, TH, CH, pH	6 Jan- 1 Dec	Monthly	Flowing water, 15 cm depth
2	TURB, AT, WT, DO	26 Mar-27 Oct	Weekly	Flowing water, 15 cm depth
2	TURB, AT, WT, DO	3 Nov-15 Dec	Semimonthly	Flowing water, 15 cm depth
2	ALK, TH, CH, pH	11 May- 1 Dec	Monthly	Flowing water, 15 cm depth
MK	TURB, AT, WT	10 Aug-27 Oct	Weekly	Flowing water, 15 cm depth
MK	TURB, AT, WT	3 Nov-15 Dec	Semimonthly	Flowing water, 15 cm depth
22-25, 1, 4	Sedimentation water samples	28 Jan-21 Oct	>2.51 cm rainfall in 24-hour period	Flowing water, 15 cm depth
22-25, 1, 4	Complete water quality analysis	19 Jan-15 Dec	Monthly	Flowing water, 15 cm depth
ASTP, BSTP	Complete water quality analysis	18 May	-	Flowing water, 15 cm depth

Table 4. Time of day water quality samples were collected from 6 January through 30 December 1976 in Schoharie Reservoir, Lower and Upper B-G, Esopus Creek, the Shandaken Tunnel intake, the Shandaken Tunnel outlet, tributaries of Schoharie Reservoir, Schoharie Creek, and a tributary of Lower B-G.

Station	Date																							
	Jan		Feb		Mar			Apr																
	6	19	10	17	10	26	30	1	2	3	4	5	6	9	12	13	14	16	17	19	20	22	23	25
26	-	-	-	-	-	1130	0940	-	-	-	-	-	0915	-	-	0950	-	-	-	-	1005	-	-	-
27	-	-	-	-	-	1115	1000	-	-	-	-	-	0935	-	-	1025	-	-	-	-	1030	-	-	-
28	-	-	-	-	-	1030	1030	-	-	-	-	-	0955	-	-	1045	-	-	-	-	1045	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	1055	1100	-	-	-	-	-	1010	-	-	1120	-	-	-	-	1105	-	-	-
13	-	-	-	-	-	1320	1340	-	-	-	-	-	1250	-	-	1330	-	-	-	-	1305	-	-	-
14	-	-	-	-	1300	1335	1400	-	-	-	-	-	1310	-	-	1345	-	-	-	-	1320	-	-	-
16	-	-	-	-	-	1220	1225	-	-	-	-	-	1130	-	-	0820	-	-	-	-	1205	-	-	-
17	-	-	-	-	-	1235	1250	-	-	-	-	-	1150	-	-	0825	-	-	-	-	1220	-	-	-
33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1205	1215	1315	1010	1100	1030	1000	1025	1010	1113
34	-	-	-	-	1300	1335	1400	1400	1420	1210	1150	1320	1310	1330	1030	1400	-	1335	1150	1250	1315	1245	1230	1155
21	-	-	-	1005	1115	1110	1345	1135	1130	1120	1120	1130	1320	1230	1125	1220	1126	1225	1132	1155	1310	1200	1135	1110
32	-	-	-	-	-	0940	0920	-	-	-	-	-	-	-	-	-	-	1005	1415	1030	0945	1020	1005	1110
20	-	-	-	-	-	1050	1325	-	-	-	-	-	-	-	-	-	-	1210	1145	1145	1300	1145	1125	1131
19	1030	-	-	0950	1100	1120	1205	1125	1130	1145	1200	1145	1230	1215	1105	1155	1145	1155	1200	1135	1245	1140	1115	1145
31	-	-	-	0930	1030	1100	1240	1115	1130	1200	1240	1220	1210	1200	1055	1135	1221	1140	1225	1120	1230	1120	1100	1210
22	-	-	-	-	-	1015	1155	-	-	-	-	-	1115	-	-	1045	-	-	-	-	1145	-	-	-
23	-	-	-	1035	1200	1000	1130	-	-	-	-	-	1050	-	-	1030	-	-	-	-	1125	-	-	-
1	-	-	-	-	0845	0930	1100	-	-	-	-	-	1030	-	-	1010	-	-	-	-	1110	-	-	-
24	-	-	-	0840	0920	0915	1030	-	-	-	-	-	0945	-	-	0925	-	-	-	-	1055	-	-	-
25	-	-	-	1100	1215	1332	1450	-	-	-	-	-	1420	-	-	1312	-	-	-	-	1405	-	-	-
2	-	-	-	-	-	-	1515	-	-	-	-	-	1445	-	-	1335	-	-	-	-	1425	-	-	-
MK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	1140	1415	1410	1545	-	-	-	-	-	1510	-	-	1355	-	-	-	-	1440	-	-	-

Table 4 - (Continued).

Station	Date																							
	Apr				May																			
	26	27	29	30	2	3	4	6	7	10	11	12	13	14	18	19	20	21	24	25	26	27	28	31
26	-	1005	-	-	-	-	1130	-	-	-	-	1020	-	-	1440	-	-	-	-	1130	-	-	-	-
27	-	1025	-	-	-	-	1155	-	-	-	-	1100	-	-	1505	-	-	-	-	1145	-	-	-	-
28	-	1050	-	-	-	-	1210	-	-	-	-	1140	-	-	1550	-	-	-	-	1155	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	1110	-	-	-	-	1255	-	-	-	-	1315	-	-	1600	-	-	-	-	1205	-	-	-	-
13	-	1430	-	-	-	-	1030	-	-	-	-	1610	-	-	1315	-	-	-	-	1030	-	-	-	-
14	-	1445	-	-	-	-	1035	-	-	-	-	1620	-	-	1330	-	-	-	-	1040	-	-	-	-
16	-	1320	-	-	-	-	0930	-	-	-	-	1455	-	-	0950	-	-	-	-	0935	-	-	-	-
17	-	1335	-	-	-	-	0935	-	-	-	-	1505	-	-	1015	-	-	-	-	0945	-	-	-	-
33	1000	0945	1145	1030	1040	1045	1110	0945	1035	1035	1210	-	1130	1220	1650	1050	1245	1050	0915	1110	0950	1020	1010	1020
34	1330	-	1215	1000	1105	1230	1040	-	1255	-	0930	-	1200	-	1100	-	-	1020	1200	1045	1500	-	1255	1040
21	1205	1235	1111	1155	1107	1113	1220	1120	1200	1205	1245	-	1120	1340	1405	1210	1205	1200	1220	1225	1120	1230	1140	1115
32	0950	0930	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	1155	1215	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	1145	1200	1135	1145	1124	1136	1200	1105	1145	1150	1245	-	1245	1320	1340	1200	1155	1150	1205	1140	1145	1220	1125	1138
31	1130	1135	1217	1130	1149	1158	1140	1050	1130	1125	1150	-	1225	1300	1320	1150	1145	1140	1150	1125	1230	1210	1115	1220
22	-	1045	-	-	-	-	1100	-	-	-	1100	-	-	-	1240	-	-	-	-	1045	-	-	-	-
23	-	1020	-	-	-	-	1040	-	-	-	1050	-	-	-	1215	-	-	-	-	1025	-	-	-	-
1	-	1000	-	-	-	-	1025	-	-	-	1030	-	-	-	1140	-	-	-	-	1005	-	-	-	-
24	-	0920	-	-	-	-	1000	-	-	-	1000	-	-	-	1115	-	-	-	-	0950	-	-	-	-
25	-	1335	-	-	-	-	1310	-	-	-	1330	-	-	-	1455	-	-	-	-	1330	-	-	-	-
2	-	1340	-	-	-	-	1330	-	-	-	1345	-	-	-	1515	-	-	-	-	1350	-	-	-	-
MK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	1405	-	-	-	-	1355	-	-	-	1400	-	-	-	1545	-	-	-	-	1410	-	-	-	-

Station	Date																							
	Jun																		Jul					
	1	2	5	6	7	8	11	13	14	15	16	17	21	22	23	25	28	29	1	2	6	7	9	12
26	-	1205	-	-	-	1320	-	-	-	1010	-	-	-	1010	-	-	-	1255	-	-	-	0955	-	-
27	-	1230	-	-	-	1340	-	-	-	1020	-	-	-	1030	-	-	-	1315	-	-	-	1005	-	-
28	-	1245	-	-	-	1345	-	-	-	1035	-	-	-	1035	-	-	-	1330	-	-	-	1020	-	-
29	-	-	-	-	-	1415	-	-	-	1100	-	-	-	1100	-	-	-	1410	-	-	-	-	-	-
30	-	1305	-	-	-	1400	-	-	-	1045	-	-	-	1050	-	-	-	1355	-	-	-	1030	-	-
13	-	1045	-	-	-	1205	-	-	-	1420	-	-	-	1435	-	-	-	1115	-	-	-	1300	-	-
14	-	1055	-	-	-	1220	-	-	-	1430	-	-	-	1440	-	-	-	1130	-	-	-	1320	-	-
16	-	0930	-	-	-	1035	-	-	-	1215	-	-	-	1310	-	-	-	0955	-	-	-	1200	-	-
17	-	0945	-	-	-	1055	-	-	-	1225	-	-	-	1320	-	-	-	1010	-	-	-	1210	-	-
33	1315	1130	1230	1105	1015	1445	1100	1230	1330	0945	1040	1100	1108	1145	1630	1515	0910	1445	1435	1020	1400	0940	1315	0950
34	1115	-	1320	1140	1145	1225	-	-	1445	1440	1010	1130	1320	1445	1645	1600	1215	1125	1200	1235	1320	1315	1245	1205
21	1150	1225	1115	1130	1200	1055	1120	1130	1255	1525	1305	1250	1255	1315	1220	1315	1310	1320	1645	1245	1155	1230	1130	1120
32	-	-	1235	1100	1010	1435	-	1225	1325	1240	1035	1100	1105	1145	1630	1510	0900	1445	1430	1015	-	-	-	-
20	-	-	1145	1150	1150	1155	-	1141	1250	1505	1355	1235	1250	1300	1210	1310	1300	1255	1635	1140	-	-	-	-
19	1205	1205	1135	1200	1140	1135	1145	1148	1240	1445	1240	1225	1245	1240	1200	1255	1250	1200	1620	1130	1115	1205	1120	1055
31	1210	1135	1159	1235	1125	1115	1225	1210	1230	1415	1220	1215	1230	1230	1240	1245	1240	1143	1605	1120	1100	1140	1105	1045
22	-	1050	-	-	-	1025	-	-	-	1310	-	-	-	1000	-	-	-	1100	-	-	-	1055	-	-
23	-	1030	-	-	-	1005	-	-	-	1250	-	-	-	0940	-	-	-	1030	-	-	-	1040	-	-
1	-	1010	-	-	-	0940	-	-	-	1230	-	-	-	0930	-	-	-	1005	-	-	-	1020	-	-
24	-	0950	-	-	-	0925	-	-	-	1210	-	-	-	0915	-	-	-	0950	-	-	-	1000	-	-
25	-	1320	-	-	-	1000	-	-	-	1620	-	-	-	1400	-	-	-	1425	-	-	-	1330	-	-
2	-	1340	-	-	-	0950	-	-	-	1640	-	-	-	1420	-	-	-	1440	-	-	-	1350	-	-
MK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	1405	-	-	-	1035	-	-	-	1705	-	-	-	1510	-	-	-	1500	-	-	-	1405	-	-

Table 4 - (Continued).

Station	Date																							
	Jul											Aug												
	13	15	16	19	20	22	23	26	27	29	30	3	4	5	6	9	10	12	13	16	17	19	20	23
26	0955	-	-	-	1210	-	-	-	0930	-	-	1050	-	-	-	-	1220	-	-	-	0945	-	-	-
27	1010	-	-	-	1225	-	-	-	0942	-	-	1105	-	-	-	-	1255	-	-	-	1000	-	-	-
28	1025	-	-	-	1242	-	-	-	0953	-	-	1115	-	-	-	-	1315	-	-	-	1010	-	-	-
29	-	-	-	-	1322	-	-	-	1027	-	-	1140	-	-	-	-	1415	-	-	-	1028	-	-	-
30	1040	-	-	-	1300	-	-	-	1010	-	-	1128	-	-	-	-	1350	-	-	-	1021	-	-	-
13	1310	-	-	-	1045	-	-	-	1240	-	-	1345	-	-	-	-	1050	-	-	-	1250	-	-	-
14	1325	-	-	-	1050	-	-	-	1252	-	-	1355	-	-	-	-	1100	-	-	-	1303	-	-	-
16	1200	-	-	-	0934	-	-	-	1131	-	-	1248	-	-	-	-	0940	-	-	-	1143	-	-	-
17	1210	-	-	-	0950	-	-	-	1140	-	-	1255	-	-	-	-	0955	-	-	-	1150	-	-	-
33	1105	1035	1045	0955	1350	1210	1035	0925	1050	1005	1040	1020	1155	1020	1055	0930	1140	1111	1125	1125	0920	1030	1410	1310
34	1320	1240	1245	1205	1050	1140	1250	1230	1251	0940	1300	1350	1430	0933	1020	1135	1100	1035	1148	1110	1300	1005	1425	1150
21	1230	1120	1155	1220	1300	1255	1200	1445	1230	1135	1210	1216	1340	1217	1245	1140	1433	1150	1245	1247	1210	1220	1255	1248
32	-	1030	1045	0950	1345	1200	1030	0920	1050	1005	1035	1015	1150	1010	1050	0930	1140	0900	0900	0900	0915	0900	0900	0900
20	-	1110	1150	1210	1210	1245	1150	1235	1155	1125	1200	1205	1330	1142	1225	1130	1357	1240	1238	1240	1225	1240	1240	1240
19	1145	1055	1135	1200	1150	1240	1140	1225	1135	1115	1150	1124	1325	1133	1212	1115	1317	1225	1230	1223	1135	1152	1230	1259
31	1130	1045	1120	1150	1135	1230	1125	1215	1115	1100	1140	1110	1315	1125	1200	1100	1300	1255	1215	1209	1123	1135	1220	1307
22	1050	-	-	-	1045	-	-	-	1035	-	-	1027	-	-	-	-	1130	-	-	-	1840	-	-	-
23	1035	-	-	-	1025	-	-	-	1018	-	-	1014	-	-	-	-	1113	-	-	-	1022	-	-	-
1	1020	-	-	-	1000	-	-	-	0955	-	-	0955	-	-	-	-	1040	-	-	-	1005	-	-	-
24	1005	-	-	-	0940	-	-	-	0940	-	-	1040	-	-	-	-	1020	-	-	-	0945	-	-	-
25	1315	-	-	-	1355	-	-	-	1325	-	-	1312	-	-	-	-	1520	-	-	-	1345	-	-	-
2	1330	-	-	-	1415	-	-	-	1340	-	-	1327	-	-	-	-	1536	-	-	-	1400	-	-	-
MK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1626	-	-	-	1450	-	-	-
4	1350	-	-	-	1435	-	-	-	1400	-	-	1345	-	-	-	-	1607	-	-	-	1430	-	-	-

Station	Date																							
	Aug				Sep															Oct				
	24	26	27	30	1	2	3	7	9	10	13	14	16	17	21	22	28	29	30	4	5	6	7	10
26	0930	-	-	0955	-	-	-	1015	-	-	-	1005	-	-	-	1305	1000	-	-	-	-	1225	-	-
27	0940	-	-	1005	-	-	-	1025	-	-	-	1025	-	-	-	1320	1020	-	-	-	-	1310	-	-
28	1050	-	-	1045	-	-	-	1040	-	-	-	1035	-	-	-	1325	1040	-	-	-	-	1325	-	-
29	1015	-	-	1125	-	-	-	1107	-	-	-	1010	-	-	-	-	-	-	-	-	-	-	-	-
30	1000	-	-	1105	-	-	-	1055	-	-	-	1050	-	-	-	1340	1055	-	-	-	-	1340	-	-
13	1155	-	-	1245	-	-	-	1345	-	-	-	1400	-	-	-	1040	1235	-	-	-	-	0920	-	-
14	1205	-	-	1300	-	-	-	1355	-	-	-	1410	-	-	-	1005	1315	-	-	-	-	0940	-	-
16	1105	-	-	1400	-	-	-	1220	-	-	-	1445	-	-	-	1130	1425	-	-	-	-	1105	-	-
17	1110	-	-	1410	-	-	-	1352	-	-	-	1300	-	-	-	1200	1435	-	-	-	-	1130	-	-
33	0910	1055	1055	1200	1030	1110	1110	1120	1330	1145	1330	1245	1145	1350	1715	1230	1200	1630	1345	1405	1130	1245	1455	1420
34	1205	1335	1330	1255	1055	1335	1335	1355	1150	1215	1400	1405	1100	1055	1715	1045	1250	1650	1110	1115	1100	0930	1010	1007
21	1300	1250	1215	1400	1235	1250	1255	1415	1250	1310	1250	1205	1255	1245	1300	1240	1245	1247	1245	1250	1300	1250	1250	1330
32	0800	0900	0900	1200	0900	0900	0900	0900	0900	0900	0900	0900	0900	0900	0900	-	0900	0900	0900	0800	0900	0800	0800	0800
20	1240	1240	1240	1235	1215	1240	1240	1235	1240	1240	1240	1225	1240	1240	1240	-	1230	1240	1235	1240	1240	1240	1240	-
19	1155	1155	1200	1330	1155	1215	1220	1335	1258	1250	1300	1125	1230	1250	1325	1200	1205	1255	1250	1259	1310	1300	1300	1315
31	1145	1145	1145	1305	1140	1205	1210	1310	1310	1300	1310	1105	1220	1300	1345	1130	1155	1310	1300	1315	1330	1310	1310	1345
22	1055	-	-	1120	-	-	-	1150	-	-	-	1015	-	-	-	1045	1035	-	-	-	-	1020	-	-
23	1045	-	-	1105	-	-	-	1130	-	-	-	1000	-	-	-	1025	1015	-	-	-	-	1005	-	-
1	1020	-	-	1040	-	-	-	1100	-	-	-	0940	-	-	-	1005	0955	-	-	-	-	0950	-	-
24	1000	-	-	1000	-	-	-	1045	-	-	-	0925	-	-	-	0945	0940	-	-	-	-	0940	-	-
25	1350	-	-	1450	-	-	-	1515	-	-	-	1315	-	-	-	1325	1330	-	-	-	-	1400	-	-
2	1410	-	-	1510	-	-	-	1530	-	-	-	1330	-	-	-	1350	1345	-	-	-	-	1410	-	-
MK	1455	-	-	1550	-	-	-	1600	-	-	-	1415	-	-	-	1445	1430	-	-	-	-	1425	-	-
4	1435	-	-	1535	-	-	-	1545	-	-	-	1350	-	-	-	1420	1410	-	-	-	-	1430	-	-

Table 4 - (Continued).

Station	Date																							
	Oct											Nov												
	12	13	14	18	19	20	21	25	26	27	28	2	3	4	8	9	11	15	16	17	18	22	23	30
26	-	0940	-	-	-	1025	-	-	-	1305	-	-	0930	-	-	-	-	1000	-	-	-	-	-	-
27	-	0955	-	-	-	1015	-	-	-	1325	-	-	0950	-	-	-	-	1015	-	-	-	-	-	-
28	-	1010	-	-	-	1010	-	-	-	1335	-	-	1005	-	-	-	-	1030	-	-	-	-	-	-
29	-	1040	-	-	-	1000	-	-	-	1430	-	-	1100	-	-	-	-	-	-	-	-	-	-	-
30	-	1025	-	-	-	0945	-	-	-	1400	-	-	1020	-	-	-	-	1045	-	-	-	-	-	-
13	-	1315	-	-	-	1235	-	-	-	0955	-	-	1315	-	-	-	-	1310	-	-	-	-	-	-
14	-	1330	-	-	-	1230	-	-	-	1010	-	-	1330	-	-	-	-	1325	-	-	-	-	-	-
16	-	1205	-	-	-	1135	-	-	-	1132	-	-	1210	-	-	-	-	1210	-	-	-	-	-	-
17	-	1220	-	-	-	1145	-	-	-	1140	-	-	1125	-	-	-	-	1225	-	-	-	-	-	-
33	1305	1105	1410	1311	1420	1050	1410	1252	1345	1455	1245	1255	1125	1422	1315	1310	1405	1115	1235	1300	1422	1300	1240	1245
34	1025	1325	0950	1020	1030	1245	1015	1030	1030	1005	1045	1025	1325	1035	1020	1030	1025	1115	1050	1030	1030	1020	1025	1010
21	1150	1145	1350	1145	1150	1200	1155	1150	1145	1200	1132	1150	1145	1155	1215	1150	1155	1250	1145	1150	1148	1150	1145	1145
32	0800	0800	1410	0800	0800	0800	0800	0800	1345	0800	-	0800	0800	0800	0800	0800	0800	0800	0800	1255	0800	0800	0800	0800
20	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	-	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
19	1200	1200	1205	1155	1200	1215	1220	1159	1200	1210	1140	1200	1205	1208	1220	1200	1207	1300	1155	1205	1205	1205	1150	1150
31	1210	1215	1210	1210	1210	1245	1305	1207	1210	1230	1145	1207	1215	1216	1225	1210	1215	1330	1200	1210	1217	1215	1200	1155
22	-	1040	-	-	-	1035	-	-	-	1105	-	-	1012	-	-	-	-	1105	-	-	-	-	-	-
23	-	1025	-	-	-	1020	-	-	-	1155	-	-	1000	-	-	-	-	1045	-	-	-	-	-	-
1	-	1015	-	-	-	1010	-	-	-	1145	-	-	0950	-	-	-	-	1035	-	-	-	-	-	-
24	-	1005	-	-	-	0955	-	-	-	1030	-	-	0940	-	-	-	-	1015	-	-	-	-	-	-
25	-	1330	-	-	-	1340	-	-	-	1315	-	-	1250	-	-	-	-	1445	-	-	-	-	-	-
2	-	1340	-	-	-	1350	-	-	-	1330	-	-	1300	-	-	-	-	1500	-	-	-	-	-	-
MK	-	1400	-	-	-	1420	-	-	-	1400	-	-	1330	-	-	-	-	1530	-	-	-	-	-	-
4	-	1350	-	-	-	1410	-	-	-	1345	-	-	1315	-	-	-	-	1515	-	-	-	-	-	-

Station	Date																
	Dec																
	1	2	6	7	8	9	13	14	15	16	20	22	23	27	28	29	30
26	-	-	-	-	-	-	-	-	1450	-	-	-	-	-	-	-	-
27	1000	-	-	-	-	-	-	-	1345	-	-	-	-	-	-	-	-
28	1020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	1045	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	1310	-	-	-	-	-	-	-	1225	-	-	-	-	-	-	-	-
14	1330	-	-	-	-	-	-	-	1250	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-	-	0950	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	0945	-	-	-	-	-	-	-	-
33	1120	1310	1305	1300	1250	1345	1305	1305	1320	1325	1300	1240	1255	1305	1000	1005	1300
34	1325	1055	1025	1040	1025	1050	1030	1030	1200	1045	1020	1020	1020	1045	1040	1040	1005
21	1150	1155	1150	1145	1145	1150	1152	1155	1200	1152	1150	1145	1145	1155	1145	1155	1150
32	0800	0800	0800	1300	0800	0800	0800	0800	0800	0800	0800	0800	0800	0800	0830	0800	0800
20	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
19	1205	1215	1205	1150	1155	1210	1208	1205	1215	1210	1200	1155	1200	1208	1150	1207	1200
31	1215	1225	1212	1200	1205	1220	1220	1215	1225	1220	1215	1200	1205	1215	1155	1215	1210
22	-	-	-	-	-	-	-	-	1115	-	-	-	-	-	-	-	-
23	1005	-	-	-	-	-	-	-	1055	-	-	-	-	-	-	-	-
1	0955	-	-	-	-	-	-	-	1035	-	-	-	-	-	-	-	-
24	0945	-	-	-	-	-	-	-	0955	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	1315	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	1330	-	-	-	-	-	-	-	-
MK	-	-	-	-	-	-	-	-	1400	-	-	-	-	-	-	-	-
4	1325	-	-	-	-	-	-	-	1345	-	-	-	-	-	-	-	-

Table 5. Procedures used for complete water quality determinations in 1976.

Parameter	Procedure	Unit
pH	Glass electrode[1,2]	-
Specific Conductance	Line operated conductivity meter[1,2]	umhos
Carbonate	Potentiometric titration[1]	mg/l CO_3
Bicarbonate	Potentiometric titration[1]	mg/l HCO_3
Sodium	Atomic absorption spectrophotometry[2]	mg/l Na
Potassium	Atomic absorption spectrophotometry[2]	mg/l K
Total Hardness	EDTA titration[1]	mg/l $CaCO_3$
Calcium Hardness	EDTA titration[1]	mg/l $CaCO_3$
Sulfate	Barium sulfate precipitate[1,2]	mg/l SO_4
Chloride	Specific ion electrode[3]	mg/l Cl
Nitrate	Ultra-violet spectrophotometry[1]	mg/l NO_3
Nitrite	Diazotization[1,2]	mg/l NO_2
Silica, Reactive	Molybdate-blue complexation[4]	mg/l SiO_2-Si
Phosphate, Total	Persulfate digestion, single reagent[1,2]	mg/l PO_4
Iron	Atomic absorption spectrophotometry[2]	mg/l Fe
Manganese	Atomic absorption spectrophotometry[2]	mg/l Mn
Carbon dioxide	Phenolphthalein titration[1]	mg/l CO_2
Magnesium hardness	Calcium subtration from EDTA titration for total hardness[1]	mg/l $CaCO_3$
Five-day BOD	Oxygen electrode, five day at 20 C[1,2]	ppm

[1]APHA 1976.
[2]EPA 1974.
[3]Orion 1967.
[4]Golterman 1969.

Table 6. Summary of turbidity data (nephelometer turbidity units) taken from 6 January through 15 December 1976 in Schoharie Reservoir and Lower and Upper B-G.

Date	Station								
	Schoharie Reservoir					Lower B-G		Upper B-G	
	26	27	28	29	30	13	14	16	17
6 Jan	ICE*	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE
19 Jan	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE
$\bar{x}$	-	-	-	-	-	-	-	-	-
10 Feb	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE
17 Feb	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE
$\bar{x}$	-	-	-	-	-	-	-	-	-
10 Mar	ICE	ICE	ICE	ICE	ICE	ICE	16	ICE	ICE
26 Mar	6.0	10	11	FGD**	11	17	17	18	17
30 Mar	6.0	9.1	7.9	FGD	9.0	12	13	20	16
$\bar{x}$	6.0	9.6	9.5	-	10	15	15	19	17
6 Apr	4.3	11	11	FGD	9.4	13	14	13	14
13 Apr	2.8	4.8	8.2	FGD	7.6	12	13	12	12
20 Apr	5.0	4.9	5.5	FGD	6.8	10	10	8.8	8.9
27 Apr	6.6	4.4	5.7	FGD	5.7	14	12	13	12
$\bar{x}$	4.7	6.3	7.6	-	7.4	12	12	12	12
4 May	6.8	5.3	5.2	FGD	3.7	5.8	8.5	6.6	5.4
12 May	11	2.5	2.7	FGD	2.7	5.7	5.0	4.1	4.5
18 May	7.9	4.5	4.3	FGD	3.6	3.8	4.5	4.8	3.6
25 May	4.1	3.7	3.6	FGD	3.2	3.7	4.3	3.4	4.1
$\bar{x}$	7.5	4.0	4.0	-	3.3	4.8	5.6	4.7	4.4
2 Jun	4.7	3.2	3.3	FGD	2.3	2.6	3.4	2.3	2.3
8 Jun	4.2	2.8	1.7	1.8	1.4	2.3	3.1	2.3	2.7
15 Jun	2.8	1.7	1.6	1.5	1.3	2.7	3.7	2.6	2.6
22 Jun	3.2	1.5	2.3	2.3	2.1	3.4	3.9	3.4	3.4
29 Jun	2.7	1.3	1.2	1.3	1.6	2.9	3.7	3.0	3.1
$\bar{x}$	3.5	2.1	2.0	1.7	1.7	2.8	3.6	2.7	2.8
7 Jul	4.6	1.4	1.2	FGD	2.3	2.9	3.7	3.1	3.3
13 Jul	2.4	0.78	0.70	FGD	0.88	2.4	3.5	2.3	2.8
20 Jul	6.2	1.0	1.1	1.2	0.86	1.7	2.3	2.4	2.5
27 Jul	2.5	1.3	1.1	1.2	1.2	1.9	3.2	2.6	2.5
$\bar{x}$	3.9	1.1	1.0	1.2	1.3	2.2	3.2	2.6	2.8
3 Aug	2.4	0.78	0.76	1.2	1.2	2.1	3.2	2.3	2.5
10 Aug	432	2.2	1.8	3.1	2.0	2.5	3.2	2.8	3.2
17 Aug	4.4	3.5	3.3	6.8	7.3	1.8	2.6	2.0	2.3
24 Aug	3.7	4.2	2.7	2.4	3.7	1.8	2.2	3.0	2.2
30 Aug	4.6	3.6	4.3	4.5	4.4	3.2	3.5	2.8	3.2
$\bar{x}$	89	2.9	2.6	3.6	3.7	2.3	2.9	2.6	2.7
7 Sep	5.0	6.3	5.9	8.5	7.3	3.7	3.3	2.7	2.9
14 Sep	4.8	4.8	4.8	5.7	4.6	3.3	3.5	3.1	2.9
22 Sep	6.7	7.5	4.8	LWL***	4.6	4.7	3.2	4.5	3.6
28 Sep	5.8	5.3	6.3	LWL	8.7	5.1	4.5	4.3	4.6
$\bar{x}$	5.6	6.0	5.5	7.1	6.3	4.2	3.6	3.7	3.5
6 Oct	1.5	4.7	4.2	LWL	3.6	2.0	2.4	2.3	2.4
13 Oct	4.7	15	12	14	13	3.8	4.1	3.5	3.7
20 Oct	4.5	5.3	5.8	6.7	5.6	3.4	3.7	3.0	3.0
27 Oct	4.4	8.2	8.7	9.7	9.7	3.0	3.9	3.6	3.0
$\bar{x}$	3.8	8.3	7.7	10	8.0	3.1	3.5	3.1	3.0
3 Nov	4.1	2.7	5.8	6.8	6.6	4.8	3.2	4.2	3.3
15 Nov	2.1	3.9	4.4	FGD	5.2	3.8	4.3	3.8	3.7
$\bar{x}$	3.1	3.3	5.1	6.8	5.9	4.3	3.8	4.0	3.5
1 Dec	ICE	4.6	5.4	FGD	3.8	4.7	5.0	ICE	ICE
15 Dec	4.1	6.0	ICE	ICE	ICE	6.9	7.2	6.5	6.3
$\bar{x}$	4.1	5.3	5.4	-	3.8	5.8	6.1	6.5	6.3
Grand $\bar{x}$	17	4.6	4.6	4.6	4.8	5.0	5.7	5.2	5.0
Standard Deviation	72.3	3.12	3.01	3.71	3.18	3.92	4.14	4.54	4.09
Minimum	1.5	0.78	0.70	1.2	0.86	1.7	2.2	2.0	2.2
Maximum	432	15	12	14	13	17	17	20	17

* ICE = no samples taken because of ice cover.
** FGD = no samples taken because of flow over Gilboa Dam.
*** LWL = no samples taken because of low water levels.

Table 7. Summary of Secchi disc transparency data (cm) taken from 6 January through 15 December 1976 in Schoharie Reservoir and Lower and Upper B-G.

Date	Station								
	Schoharie Reservoir					Lower B-G		Upper B-G	
	26	27	28	29	30	13	14	16	17
6 Jan	ICE*	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE
19 Jan	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE
$\bar{x}$	-	-	-	-	-	-	-	-	-
10 Feb	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE
17 Feb	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE
$\bar{x}$	-	-	-	-	-	-	-	-	-
10 Mar	ICE	ICE	ICE	ICE	ICE	ICE	51	ICE	ICE
26 Mar	114	74	76	FGD**	94	48	48	18	41
30 Mar	142	79	94	FGD	79	61	71	58	56
$\bar{x}$	128	77	85	-	87	55	57	38	49
6 Apr	170	74	64	FGD	79	56	53	51	61
13 Apr	249	140	104	FGD	86	66	69	DNR#	DNR
20 Apr	137	135	99	FGD	97	74	84	86	84
27 Apr	160	157	114	FGD	152	61	76	89	91
$\bar{x}$	179	127	95	-	104	64	71	75	79
4 May	71	109	152	FGD	203	132	99	122	152
12 May	30	231	254	FGD	226	147	127	196	183
18 May	117	257	249	FGD	274	183	157	163	183
25 May	165	152	183	FGD	178	140	132	165	150
$\bar{x}$	96	187	210	-	220	151	129	162	167
2 Jun	94	231	305	FGD	376	183	145	208	213
8 Jun	155	406	457	396	549	218	157	246	196
15 Jun	221	292	312	396	381	198	152	168	155
22 Jun	191	391	404	287	373	206	163	193	165
29 Jun	142	427	650	630	640	175	157	173	142
$\bar{x}$	161	344	426	427	464	196	155	198	174
7 Jul	122	391	427	FGD	366	168	152	183	152
13 Jul	185	549	737	FGD	612	300	163	224	216
20 Jul	112	396	610	579	518	264	185	152	157
27 Jul	264	447	541	493	528	213	165	152	175
$\bar{x}$	172	446	579	536	506	236	166	178	175
3 Aug	135	686	732	488	457	274	196	183	183
10 Aug	3	246	320	193	325	239	163	206	206
17 Aug	183	198	183	102	122	226	145	193	157
24 Aug	241	178	366	371	351	203	196	241	267
30 Aug	122	254	165	213	244	213	183	234	330
$\bar{x}$	137	312	353	273	300	231	177	211	229
6 Sep	168	107	107	91	89	150	152	180	183
14 Sep	191	175	201	127	165	152	160	188	157
22 Sep	122	122	208	LWL##	185	132	155	188	145
28 Sep	170	170	180	LWL	191	137	152	183	183
$\bar{x}$	163	144	174	109	158	143	155	185	167
6 Oct	183	150	160	LWL	173	170	152	185	170
13 Oct	135	48	56	61	56	152	147	135	135
20 Oct	160	155	147	152	160	150	160	178	178
27 Oct	147	79	81	84	79	142	112	135	150
$\bar{x}$	156	108	111	99	117	155	142	157	157
3 Nov	135	137	132	132	150	178	175	157	191
15 Nov	320	234	218	FGD	160	157	157	157	163
$\bar{x}$	228	186	175	132	155	168	168	157	178
1 Dec	ICE	229	236	FGD	236	145	132	ICE	ICE
15 Dec	ICE	ICE	ICE	ICE	ICE	99	122	94	102
$\bar{x}$	-	229	236	-	236	122	127	94	102
Grand $\bar{x}$	155	231	266	282	256	161	137	161	161
Standard deviation	61.5	146.5	192.9	187.6	167.0	62.5	40.9	54.0	56.2
Minimum	3	48	56	61	56	48	48	18	41
Maximum	320	686	737	630	640	300	196	246	330

* ICE = no samples taken because of ice cover.
** FGD = no samples taken because of flow over Gilboa Dam.
\# DNR = data not taken because of inclement weather.
\#\# LWL = no samples taken because of low water levels.

Table 8. Summary of alkalinity data (mg/l) taken from 6 January through 1 December 1976 in Schoharie Reservoir and Lower and Upper B-G.

Station		Date															
		6 Jan	10 Feb	10 Mar	6 Apr	12 May	2 Jun	13 Jul	10 Aug	14 Sep	13 Oct	3 Nov##	1 Dec	Mean	S.D.	Minimum	Maximum
26	Surface	ICE*	ICE	ICE	-**	10	16.1	18.2	8.3	22.9	14.6	15	ICE	15.0	4.90	8.3	22.9
	Mid-depth	-	-	-	-	10	13.7	21.1	8.8	24.2	14.2	10	-	14.6	5.93	8.8	24.2
	Bottom	-	-	-	-	10	13.7	14.4	10.7	23.4	14.2	10	-	13.8	4.68	10	23.4
27	Surface	ICE	ICE	ICE	-	10	17.6	19.2	21.5	20.0	17.6	10	16.1	16.5	4.34	10	21.5
	Mid-depth	-	-	-	10	10	11.2	17.5	14.4	19.3	20.0	15	16.6	14.9	3.82	10	20.0
	Bottom	-	-	-	-	10	14.2	18.2	11.5	16.4	16.6	15	15.1	14.6	2.71	10	18.2
28	Surface	ICE	ICE	ICE	-	10	14.2	14.4	21.0	19.5	22.0	15	19.0	16.9	4.12	10	22.0
	Mid-depth	-	-	-	-	10	13.2	14.9	21.2	19.5	18.1	15	15.1	15.9	3.59	10	21.2
	Bottom	-	-	-	-	10	12.7	17.5	15.6	15.9	14.2	15	15.1	14.5	2.28	10	17.5
29	Surface	ICE	ICE	ICE	FGD#	FGD	FGD	FGD	21.0	22.0	18.5	10	FGD	17.9	5.45	10	22.0
	Mid-depth	-	-	-	-	-	-	-	21.2	19.5	18.5	15	-	18.6	2.62	15	21.2
	Bottom	-	-	-	-	-	-	-	22.7	14.9	18.1	15	-	17.7	3.66	14.9	22.7
30	Surface	ICE	ICE	ICE	-	10	13.7	17.5	20.2	19.5	20.5	10	15.6	15.9	4.30	10	20.5
	Mid-depth	-	-	-	10	10	14.6	13.0	15.9	12.7	17.6	10	15.1	13.2	2.81	10	17.6
	Bottom	-	-	-	-	10	13.2	14.2	14.9	15.9	18.1	10	16.1	14.1	2.89	10	18.1
13	Surface	ICE	ICE	ICE	-	15	16.6	19.9	26.6	48.8	37.1	25	33.7	27.8	11.48	15	48.8
	Mid-depth	-	-	-	-	20	17.6	24.0	27.3	33.9	35.1	30	32.7	27.6	6.53	17.6	35.1
	Bottom	-	-	-	-	20	17.1	20.6	27.3	29.3	35.6	30	34.2	26.8	6.84	17.1	35.6
14	Surface	ICE	ICE	15	-	20	22.0	22.8	27.8	32.2	34.2	25	32.7	25.7	6.49	15	34.2
	Mid-depth	-	-	15	15	20	18.1	23.5	26.6	33.7	35.1	25	35.1	24.7	7.86	15	35.1
	Bottom	-	-	15	-	20	16.8	24.2	26.4	31.2	35.1	30	33.7	25.8	7.33	15	35.1
16	Surface	ICE	ICE	ICE	-	20	17.6	22.3	26.8	25.6	34.6	25	ICE	24.6	5.50	17.6	34.6
	Mid-depth	-	-	-	15	20	17.6	24.7	26.4	31.2	35.1	25	-	24.4	6.75	15	35.1
	Bottom	-	-	-	-	20	18.5	17.8	26.4	31.0	37.6	25	-	25.2	7.25	17.8	37.6
17	Surface	ICE	ICE	ICE	-	20	17.6	24.5	27.3	29.8	34.2	25	ICE	25.5	5.65	17.6	34.2
	Mid-depth	-	-	-	-	20	17.6	23.0	27.1	31.2	35.1	30	-	26.3	6.35	17.6	35.1
	Bottom	-	-	-	-	20	16.6	22.8	26.6	31.0	36.6	25	-	25.5	6.73	16.6	36.6

* ICE = no samples taken because of ice cover.
** 6 April data from complete water quality analysis only.
\# FGD = no samples taken because of flow over Gilboa Dam.
3 November determinations by Hach DR-EL because of broken pH electrode.

Table 9. Summary of total hardness data (mg/l) taken from 6 January through 1 December 1976 in Schoharie Reservoir and Lower and Upper B-G.

Station		Date															
		6 Jan	10 Feb	10 Mar	6 Apr	12 May	2 Jun	13 Jul	10 Aug	14 Sep	13 Oct	3 Nov	1 Dec	Mean	S.D.	Minimum	Maximum
26	Surface	ICE*	ICE	ICE	-**	15	35.7	22.7	34.9	44.6	20.2	20.6	ICE	27.7	10.76	15	44.6
	Mid-depth	-	-	-	-	15	40.0	21.3	19.4	41.1	19.4	18.6	-	25.0	10.81	15	41.1
	Bottom	-	-	-	-	15	22.5	21.0	18.2	39.2	19.0	19.4	-	22.0	7.92	15	39.2
27	Surface	ICE	ICE	ICE	-	15	26.0	23.7	22.9	40.7	22.1	19.8	20.6	23.9	7.54	15	40.7
	Mid-depth	-	-	-	15	15	26.4	20.6	20.6	37.3	21.3	20.6	20.2	21.9	6.72	15	37.3
	Bottom	-	-	-	-	15	32.2	20.6	15.1	33.8	21.0	21.0	21.7	22.6	6.98	15	33.8
28	Surface	ICE	ICE	ICE	-	15	25.6	22.9	23.9	34.1	22.0	20.2	19.8	22.9	5.53	15	34.1
	Mid-depth	-	-	-	-	15	25.6	19.4	24.4	35.3	23.3	20.6	21.0	23.1	5.94	15	35.3
	Bottom	-	-	-	-	15	33.4	20.2	21.7	34.7	20.2	21.3	22.9	23.7	6.82	15	34.7
29	Surface	ICE	ICE	ICE	FGD#	FGD	FGD	FGD	25.2	41.9	23.3	21.3	FGD	27.9	9.45	21.3	41.9
	Mid-depth	-	-	-	-	-	-	-	24.2	37.3	22.5	21.0	-	26.3	7.48	21.0	37.3
	Bottom	-	-	-	-	-	-	-	28.3	37.3	26.0	20.6	-	28.1	6.96	20.6	37.3
30	Surface	ICE	ICE	ICE	-	15	24.1	23.3	24.8	36.9	22.1	20.6	21.7	23.6	6.18	15	36.9
	Mid-depth	-	-	-	15	15	26.0	20.2	21.0	31.8	21.7	22.1	21.3	21.6	5.16	15	31.8
	Bottom	-	-	-	-	15	32.6	20.6	21.0	35.6	22.5	21.7	21.7	23.8	6.79	15	35.6
13	Surface	ICE	ICE	ICE	-	20	21.7	27.9	28.7	45.9	36.5	38.4	36.1	31.9	8.86	20	45.9
	Mid-depth	-	-	-	-	20	22.9	26.4	30.6	41.9	35.3	37.6	37.6	31.5	7.84	20	41.9
	Bottom	-	-	-	-	15	25.2	28.6	29.1	46.2	37.2	37.2	33.8	31.5	9.35	15	46.2
14	Surface	ICE	ICE	20	-	15	27.2	28.3	28.7	53.5	34.9	36.9	35.3	31.1	11.06	15	53.5
	Mid-depth	-	-	20	20	15	48.5	27.5	29.5	43.7	36.9	37.2	35.3	31.4	10.91	15	48.5
	Bottom	-	-	20	-	15	31.2	24.8	29.1	48.3	34.9	36.9	36.1	30.7	9.96	15	48.3
16	Surface	ICE	ICE	ICE	-	15	29.1	27.2	29.1	32.2	35.3	37.2	ICE	29.3	7.25	15	37.2
	Mid-depth	-	-	-	20	15	24.1	27.5	29.3	32.6	34.9	36.5	-	27.5	7.46	15	36.5
	Bottom	-	-	-	-	15	22.1	26.0	28.9	39.4	36.5	36.1	-	29.1	8.83	15	39.4
17	Surface	ICE	ICE	ICE	-	15	24.1	27.5	29.5	33.8	35.3	37.2	ICE	28.9	7.66	15	37.2
	Mid-depth	-	-	-	-	15	23.3	28.3	29.1	32.4	35.3	37.2	-	28.7	7.60	15	37.2
	Bottom	-	-	-	-	15	23.3	27.9	30.3	33.4	35.3	36.5	-	28.8	7.60	15	36.5

* ICE = no samples taken because of ice cover.
** 6 April data from complete water quality analysis only.
\# FGD = no samples taken because of flow over Gilboa Dam.

Table 10. Summary of calcium hardness data (mg/l) taken from 6 January through 1 December 1976 in Schoharie Reservoir and Lower and Upper B-G.

Station		Date															
		6 Jan	10 Feb	10 Mar	6 Apr	12 May	2 Jun	13 Jul	10 Aug	14 Sep	13 Oct	3 Nov	1 Dec	Mean	S.D.	Minimum	Maximum
26	Surface	ICE*	ICE	ICE	-**	10	14.7	20.6	12.8	23.3	14.4	15.1	ICE	15.8	4.57	10	23.3
	Mid-depth	-	-	-	-	10	15.1	19.8	11.6	21.7	15.5	13.2	-	15.3	4.23	10	21.7
	Bottom	-	-	-	-	10	14.7	16.1	12.4	23.3	15.5	14.0	-	15.1	4.14	10	23.3
27	Surface	ICE	ICE	ICE	-	10	16.3	17.3	16.7	19.8	16.3	16.3	15.5	16.0	2.76	10	19.8
	Mid-depth	-	-	-	15	10	15.5	15.9	15.1	21.0	15.5	13.2	15.9	15.2	2.87	10	21.0
	Bottom	-	-	-	-	10	14.7	15.9	12.8	20.2	16.3	14.7	17.1	15.2	3.01	10	20.2
28	Surface	ICE	ICE	ICE	-	10	16.5	17.3	17.1	19.0	19.0	16.3	15.5	16.3	2.84	10	19.0
	Mid-depth	-	-	-	-	10	16.1	16.1	17.8	21.3	19.4	16.7	15.9	16.7	3.29	10	21.3
	Bottom	-	-	-	-	10	17.7	18.0	15.3	17.1	14.4	16.3	14.7	15.4	2.57	10	18.0
29	Surface	ICE	ICE	ICE	FGD#	FGD	FGD	FGD	19.4	19.8	18.2	16.3	FGD	18.4	1.57	16.3	19.8
	Mid-depth	-	-	-	-	-	-	-	19.4	20.2	19.0	16.3	-	18.7	1.69	16.3	20.2
	Bottom	-	-	-	-	-	-	-	21.0	22.1	17.5	15.9	-	19.1	2.91	15.9	22.1
30	Surface	ICE	ICE	ICE	-	10	15.2	18.0	19.4	19.8	20.2	15.5	17.1	16.9	3.36	10	20.2
	Mid-depth	-	-	-	15	10	16.3	16.3	16.3	19.4	18.2	17.1	17.1	16.2	2.64	10	19.4
	Bottom	-	-	-	-	10	14.6	16.7	16.3	17.5	17.1	15.9	16.7	15.6	2.43	10	17.5
13	Surface	ICE	ICE	ICE	-	15	19.8	19.2	24.1	25.6	28.3	28.3	29.5	23.7	5.22	15	29.5
	Mid-depth	-	-	-	-	15	18.0	21.9	24.8	26.8	30.3	30.3	27.9	24.4	5.65	15	30.3
	Bottom	-	-	-	-	15	17.9	22.3	25.0	25.2	28.3	28.7	28.3	23.8	5.10	15	28.7
14	Surface	ICE	ICE	20	-	15	23.3	21.3	24.4	29.7	29.7	28.7	29.1	24.6	5.18	15	29.7
	Mid-depth	-	-	15	15	10	26.8	23.9	23.5	25.6	28.7	27.9	27.9	22.4	6.64	10	28.7
	Bottom	-	-	15	-	15	19.0	22.1	25.8	30.7	27.9	27.9	28.7	23.6	6.02	15	30.7
16	Surface	ICE	ICE	ICE	-	10	15.5	22.1	25.2	28.7	28.3	27.9	ICE	22.5	7.23	10	28.7
	Mid-depth	-	-	-	20	15	16.3	25.8	25.2	29.1	26.4	27.9	-	23.2	5.39	15	29.1
	Bottom	-	-	-	-	15	17.5	22.1	23.7	28.7	28.3	27.5	-	23.3	5.41	15	28.7
17	Surface	ICE	ICE	ICE	-	15	19.0	23.9	24.4	30.7	29.5	27.5	ICE	24.3	5.67	15	30.7
	Mid-depth	-	-	-	-	15	19.0	21.5	23.7	26.0	33.4	29.9	-	24.1	6.32	15	33.4
	Bottom	-	-	-	-	10	18.2	20.4	23.9	29.1	27.2	26.8	-	22.2	6.64	10	29.1

* ICE = no samples taken because of ice cover.
** 6 April data from complete water quality analysis only.
\# FGD = no samples taken because of flow over Gilboa Dam.

Table 11. Summary of hydrogen ion data (pH) taken from 6 January through 1 December 1976 in Schoharie Reservoir and Lower and Upper B-G.

Station		Date												Mean	S.D.	Minimum	Maximum
		6 Jan	10 Feb	10 Mar	6 Apr	12 May	2 Jun	13 Jul	10 Aug	14 Sep	13 Oct	3 Nov##	1 Dec				
26	Surface	ICE*	ICE	ICE	-**	7.5	7.2	6.8	6.3	7.2	7.6	6.5	ICE	7.0	0.49	6.3	7.6
	Mid-depth	-	-	-	-	7.2	6.8	7.2	6.4	7.1	7.6	6.5	-	7.0	0.43	6.4	7.6
	Bottom	-	-	-	-	6.9	7.1	6.8	6.4	7.2	7.6	6.4	-	6.9	0.43	6.4	7.6
27	Surface	ICE	ICE	ICE	-	7.5	7.2	7.2	6.8	7.1	7.6	6.4	6.8	7.1	0.40	6.4	7.6
	Mid-depth	-	-	-	6.9	7.5	7.0	7.0	6.6	7.0	7.7	6.4	6.7	7.0	0.41	6.4	7.7
	Bottom	-	-	-	-	7.4	6.8	6.8	6.5	6.7	7.5	6.7	6.8	6.9	0.35	6.5	7.5
28	Surface	ICE	ICE	ICE	-	7.3	6.8	7.3	6.8	7.3	7.6	6.5	6.7	7.0	0.39	6.5	7.6
	Mid-depth	-	-	-	-	7.4	7.0	7.0	7.1	7.4	7.5	6.4	6.8	7.1	0.37	6.4	7.5
	Bottom	-	-	-	-	7.0	6.8	6.7	6.7	6.7	7.6	6.5	6.7	6.8	0.34	6.5	7.6
29	Surface	ICE	ICE	ICE	FGD#	FGD	FGD	FGD	6.9	7.1	7.6	6.5	FGD	7.0	0.46	6.5	7.6
	Mid-depth	-	-	-	-	-	-	-	6.9	7.2	7.8	6.5	-	7.1	0.55	6.5	7.8
	Bottom	-	-	-	-	-	-	-	6.4	7.2	7.8	6.7	-	7.0	0.61	6.4	7.8
30	Surface	ICE	ICE	ICE	-	7.5	7.1	7.2	6.6	7.2	7.7	6.5	6.8	7.1	0.42	6.5	7.7
	Mid-depth	-	-	-	6.9	7.5	7.0	6.8	6.9	7.2	7.6	6.4	6.8	7.0	0.37	6.4	7.6
	Bottom	-	-	-	-	7.5	6.8	6.7	6.9	6.6	7.6	6.7	6.8	7.0	0.38	6.6	7.6
13	Surface	ICE	ICE	ICE	-	7.6	6.8	7.2	7.2	7.6	7.6	6.9	6.9	7.2	0.34	6.8	7.6
	Mid-depth	-	-	-	-	7.4	7.2	7.4	7.2	7.3	7.6	6.7	6.9	7.2	0.29	6.7	7.6
	Bottom	-	-	-	-	7.3	7.2	7.2	6.8	7.4	7.6	6.5	6.9	7.1	0.36	6.5	7.6
14	Surface	ICE	ICE	6.7	-	7.6	7.4	7.2	7.2	7.5	7.6	6.7	7.0	7.2	0.35	6.7	7.6
	Mid-depth	-	-	6.8	7.1	7.5	7.2	7.2	7.1	7.4	7.7	6.8	7.1	7.2	0.28	6.8	7.7
	Bottom	-	-	6.8	-	7.4	7.2	7.3	7.0	7.5	7.6	6.7	6.8	7.1	0.33	6.7	7.6
16	Surface	ICE	ICE	ICE	-	7.5	7.2	7.2	7.2	7.0	7.6	6.6	ICE	7.2	0.33	6.6	7.6
	Mid-depth	-	-	-	7.2	7.4	7.2	7.3	7.1	7.5	7.7	6.5	-	7.2	0.35	6.5	7.7
	Bottom	-	-	-	-	7.2	7.2	7.0	6.9	7.3	7.7	6.7	-	7.1	0.32	6.7	7.7
17	Surface	ICE	ICE	ICE	-	7.6	7.2	7.3	7.2	7.5	7.6	6.7	ICE	7.3	0.32	6.7	7.6
	Mid-depth	-	-	-	-	7.5	7.2	7.2	7.2	7.4	7.6	6.8	-	7.3	0.26	6.8	7.6
	Bottom	-	-	-	-	7.3	7.2	7.3	7.0	7.4	7.6	6.8	-	7.2	0.26	6.8	7.6

* ICE = no samples taken because of ice cover.
** 6 April data from complete water quality analysis only.
\# FGD = no samples taken because of flow over Gilboa Dam.
3 November determinations by Hach DR-EL because of broken pH electrode.

Table 12. Summary of air temperature data (C) taken from 6 January through 15 December 1976 in Schoharie Reservoir and Lower and Upper B-G.

Date	Station								
	Schoharie Reservoir					Lower B-G		Upper B-G	
	26	27	28	29	30	13	14	16	17
6 Jan	ICE*	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE
19 Jan	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE
10 Feb	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE
17 Feb	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE
10 Mar	ICE	ICE	ICE	ICE	ICE	ICE	-2	ICE	ICE
26 Mar	11	11	8	FGD**	8	15	15	10	10
30 Mar	10	10	10	FGD	10	16	16	12	12
6 Apr	11	11	11	FGD	11	13	13	8	8
13 Apr	7	5	6	FGD	5	11	10	7	7
20 Apr	24	24	20	FGD	20	22	22	19	19
27 Apr	4	5	5	FGD	5	5	5	4	4
4 May	6	5	5	FGD	7	6	6	3	3
12 May	10	9	9	FGD	9	8	8	5	6
18 May	9	9	9	FGD	9	10	10	17	17
25 May	12	12	12	FGD	14	14	13	10	11
2 Jun	16	16	14	FGD	16	16	16	12	12
8 Jun	25	25	27	27	27	26	26	21	21
15 Jun	24	25	25	28	26	32	32	27	27
22 Jun	25	23	23	25	25	23	23	25	25
29 Jun	27	27	27	29	27	24	24	21	21
7 Jul	23	24	23	FGD	23	25	23	24	24
13 Jul	15	15	15	FGD	15	18	18	13	13
20 Jul	25	26	26	30	28	28	28	24	24
27 Jul	24	22	21	23	25	29	28	24	24
3 Aug	21	21	21	23	23	26	26	24	24
10 Aug	17	18	17	18	18	19	19	16	16
17 Aug	20	18	19	21	20	21	22	21	21
24 Aug	20	22	23	23	25	24	24	22	22
30 Aug	13	12	13	13	13	16	14	13	13
7 Sep	17	17	16	17	17	19	18	18	18
14 Sep	20	20	21	21	21	22	22	24	24
22 Sep	15	15	15	LWL#	15	15	15	10	10
28 Sep	11	11	10	LWL	10	13	11	11	11
6 Oct	18	18	18	LWL	18	18	19	16	16
13 Oct	16	16	16	18	18	21	19	17	18
20 Oct	5	5	5	5	5	9	9	8	8
27 Oct	2	1	1	2	2	2	1	1	0
3 Nov	8	8	8	9	8	9	7	7	7
15 Nov	5	5	5	FGD	3	5	4	3	4
1 Dec	ICE	-6	-5	FGD	-5	-1	-2	ICE	ICE
15 Dec	5	6	ICE	ICE	ICE	6	7	3	3
Minimum	2	-6	-5	2	-5	-1	-2	1	0
Maximum	27	27	27	30	28	32	32	27	27

* ICE = no samples taken because of ice cover.
** FGD = no samples taken because of flow over Gilboa Dam.
\# LWL = no samples taken because of low water levels.

Table 13. Summary of water temperature data (C) taken from 6 January through 15 December 1976 in Schoharie Reservoir and Lower and Upper B-G.

Station & Date	Surface	Depth (m) 2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
26																		
6 Jan	ICE*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	7	-	-	-	7	-	-	-	7	-	-	-	-	-	-	-	-	-
30 Mar	7	-	-	-	7	-	-	-	7	-	-	-	-	-	-	-	-	-
6 Apr	4	-	-	-	4	-	-	-	4(15)**	-	-	-	-	-	-	-	-	-
13 Apr	2.5	2.3	2.3	2.5	2.6	2.8	2.8	3.0	3.1	-	-	-	-	-	-	-	-	-
20 Apr	16.2	14.0	9.0	7.9	7.0	6.5	6.2	5.8	-	-	-	-	-	-	-	-	-	-
27 Apr	10.0	10.0	10.0	9.5	7.0	6.5	6.2	6.0	6.0(15)	-	-	-	-	-	-	-	-	-
4 May	9.5	9.5	9.2	8.5	7.5	7.2	7.0	7.0	6.8(15)	-	-	-	-	-	-	-	-	-
12 May	11.0	11.0	10.8	9.5	8.2	7.5	7.2	6.8	6.8(15)	-	-	-	-	-	-	-	-	-
18 May	14.3	14.3	14.3	12.8	12.2	12.0	11.5	11.2	-	-	-	-	-	-	-	-	-	-
25 May	12.0	11.8	10.8	10.2	10.0	8.8	8.0	7.8	7.5	-	-	-	-	-	-	-	-	-
2 Jun	15.0	14.2	13.3	12.2	9.0	8.5	8.2	8.0	7.9	-	-	-	-	-	-	-	-	-
8 Jun	20.1	17.8	17.0	16.0	14.2	11.2	10.5	8.5	8.2	-	-	-	-	-	-	-	-	-
15 Jun	18.2	18.2	17.0	17.0	12.5	9.8	9.2	8.8	-	-	-	-	-	-	-	-	-	-
22 Jun	23.0	22.0	21.8	19.8	17.2	13.8	10.5	10.0(13)	-	-	-	-	-	-	-	-	-	-
29 Jun	25.2	23.8	23.2	22.5	19.2	12.2	10.2	9.8(13)	-	-	-	-	-	-	-	-	-	-
7 Jul	23.8	22.2	21.5	20.0	17.5	15.0	11.2	9.8	-	-	-	-	-	-	-	-	-	-
13 Jul	20.8	20.8	20.2	19.5	15.5	13.0	11.0	9.2	-	-	-	-	-	-	-	-	-	-
20 Jul	24.0	22.0	21.2	19.5	17.8	16.5	12.0	10.8(13)	-	-	-	-	-	-	-	-	-	-
27 Jul	21.8	21.5	21.2	21.0	20.5	18.5	11.8	-	-	-	-	-	-	-	-	-	-	-
3 Aug	22.2	22.0	22.0	20.8	20.2	14.2	10.8(11)	-	-	-	-	-	-	-	-	-	-	-
10 Aug	16.5	16.5	16.2	16.2	16.2	16.2	16.2	16.2	16.2	-	-	-	-	-	-	-	-	-
17 Aug	21.0	20.8	20.8	20.8	19.2	18.2	17.8	17.0(13)	-	-	-	-	-	-	-	-	-	-
24 Aug	23.0	21.0	20.5	19.8	18.8	18.2	-	-	-	-	-	-	-	-	-	-	-	-
30 Aug	22.0	22.0	22.0	21.8	21.0	20.2	-	-	-	-	-	-	-	-	-	-	-	-
7 Sep	18.8	18.8	18.5	18.0	17.5	-	-	-	-	-	-	-	-	-	-	-	-	-
14 Sep	18.2	18.0	18.0	17.8(5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	17.0	16.5	15.8(3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 Sep	13.2	12.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 Oct	14.4	14.3(1)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	8.2	8.2	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	7.9	7.0	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Oct	3.2	3.1	3.0	2.9	2.9	2.9	-	-	-	-	-	-	-	-	-	-	-	-
3 Nov	6.0	-	-	-	4.2(7)	-	-	4.0(13)	-	-	-	-	-	-	-	-	-	-
15 Nov	1.0	-	-	-	3.0(7)	-	-	3.0	-	-	-	-	-	-	-	-	-	-
1 Dec	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Dec	1.5	-	-	-	1.5(7)	-	-	2.0	-	-	-	-	-	-	-	-	-	-

* ICE = no samples taken because of ice cover.
** Depth in parentheses.
# FGD = no samples taken because of flow over Gilboa Dam.
LWL = no samples taken because of low water level.

Table 13 - (Continued).

Station & Date	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
		Depth (m)																
27																		
6 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	3	-	-	-	3(7)	-	-	3	-	-	-	-	-	-	-	-	-	-
30 Mar	6	-	-	-	7	-	-	-	7	-	-	-	-	-	-	-	-	-
6 Apr	5	-	-	-	-	5(9)	-	-	-	5(17)	-	-	-	-	-	-	-	-
13 Apr	5.5	5.2	5.1	5.1	5.1	5.0	5.0	4.9	4.9	-	-	-	-	-	-	-	-	-
20 Apr	16.2	12.3	8.8	7.2	6.8	6.0	6.0	5.8	5.2	5.0	-	-	-	-	-	-	-	-
27 Apr	10.0	10.0	10.0	10.0	9.5	7.5	7.2	6.5	5.8	-	-	-	-	-	-	-	-	-
4 May	9.5	9.5	9.5	9.2	9.2	7.8	7.5	5.8	5.5	5.5	-	-	-	-	-	-	-	-
12 May	10.5	10.2	9.8	9.8	9.6	9.2	9.2	8.8	7.5	-	-	-	-	-	-	-	-	-
18 May	13.1	13.1	13.0	12.9	12.2	11.5	10.7	9.2	9.0	7.2	-	-	-	-	-	-	-	-
25 May	11.8	11.5	11.2	10.5	8.8	8.5	8.1	7.8	7.2	7.0(17)	-	-	-	-	-	-	-	-
2 Jun	15.7	14.7	14.5	12.2	10.2	9.7	9.0	8.2	7.8	7.5	-	-	-	-	-	-	-	-
8 Jun	19.8	17.0	16.9	14.0	12.8	11.8	10.9	9.5	8.8	8.2(17)	-	-	-	-	-	-	-	-
15 Jun	18.2	17.5	17.5	15.2	12.0	10.0	9.2	8.2	7.5	7.2(17)	-	-	-	-	-	-	-	-
22 Jun	22.2	22.2	22.0	20.5	15.2	12.0	10.2	9.2	8.5	8.0(17)	-	-	-	-	-	-	-	-
29 Jun	24.5	23.8	23.2	22.0	19.5	13.0	10.8	9.8	8.5	8.0(17)	-	-	-	-	-	-	-	-
7 Jul	22.2	22.2	20.2	18.8	17.2	15.8	12.0	9.8	8.2	8.0(17)	-	-	-	-	-	-	-	-
13 Jul	21.8	21.8	21.8	19.5	17.5	15.2	11.8	10.0	8.8	8.2(17)	-	-	-	-	-	-	-	-
20 Jul	22.5	22.2	21.5	20.2	18.5	16.8	13.5	10.8	8.8	8.2(17)	-	-	-	-	-	-	-	-
27 Jul	21.8	21.8	21.5	21.5	20.5	18.0	13.2	10.2	8.5	-	-	-	-	-	-	-	-	-
3 Aug	23.0	23.2	23.0	22.5	21.2	17.8	15.0	10.5	-	-	-	-	-	-	-	-	-	-
10 Aug	20.8	20.8	20.2	19.5	19.0	17.8	17.2	17.2	17.0	-	-	-	-	-	-	-	-	-
17 Aug	21.0	21.0	20.8	20.8	18.8	18.2	17.5	16.5	16.0(15)	-	-	-	-	-	-	-	-	-
24 Aug	23.2	23.0	21.0	20.2	19.2	18.2	17.5	16.5	-	-	-	-	-	-	-	-	-	-
30 Aug	22.0	22.0	22.0	22.0	19.5	17.8	16.2	-	-	-	-	-	-	-	-	-	-	-
7 Sep	18.8	18.8	18.8	18.8	18.8	16.0	-	-	-	-	-	-	-	-	-	-	-	-
14 Sep	18.8	18.5	18.2	18.0	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	17.5	17.5	17.5	17.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 Sep	14.5	14.8	14.9	14.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 Oct	15.0	15.0	14.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	11.4	11.1	11.0	10.8	10.7(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	9.0	9.0	9.0	8.9	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Oct	6.8	6.9	7.0	7.0	7.0	6.9	6.8	6.2(13)	-	-	-	-	-	-	-	-	-	-
3 Nov	6.1	-	-	-	-	6.1(9)	-	-	-	4.6(17)	-	-	-	-	-	-	-	-
15 Nov	4.0	-	-	-	-	3.9(9)	-	-	-	3.6	-	-	-	-	-	-	-	-
1 Dec	2.2	-	-	-	-	2.5(9)	-	-	-	2.8(17)	-	-	-	-	-	-	-	-
15 Dec	1.0	-	-	-	-	2.0(9)	-	-	-	2.0	-	-	-	-	-	-	-	-

Table 13 - (Continued).

Station & Date	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
		Depth (m)																
28																		
6 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	3	-	-	-	-	-	3(11)	-	-	-	-	3	-	-	-	-	-	-
30 Mar	4	-	-	-	-	-	5	-	-	-	-	-	5(23)	-	-	-	-	-
6 Apr	5	-	-	-	-	-	5(11)	-	-	-	-	5	-	-	-	-	-	-
13 Apr	5.2	5.2	5.0	4.9	4.8	4.8	4.7	4.7	4.7	4.6	4.7	4.7	-	-	-	-	-	-
20 Apr	15.9	13.7	10.5	10.5	6.5	6.0	5.8	5.5	5.5	5.2	5.0	4.9	-	-	-	-	-	-
27 Apr	9.5	9.5	9.5	9.5	7.8	7.5	6.1	5.8	5.7	5.5	5.2	5.1(21)	-	-	-	-	-	-
4 May	9.4	9.5	9.2	9.2	9.1	8.5	6.8	6.1	6.0	5.8	5.3	5.2	-	-	-	-	-	-
12 May	10.8	10.8	10.7	9.5	9.2	9.0	8.8	8.7	7.2	6.8	6.2	5.8	-	-	-	-	-	-
18 May	12.8	12.9	12.9	12.8	12.2	9.5	8.2	8.2	7.5	7.2	7.0	6.8	-	-	-	-	-	-
25 May	11.3	11.3	11.2	10.9	9.8	9.0	8.2	7.9	7.2	7.0	6.5	6.2	-	-	-	-	-	-
2 Jun	15.2	14.5	14.0	12.5	10.9	10.2	9.9	9.2	8.8	8.2	7.8	7.5(21)	-	-	-	-	-	-
8 Jun	19.5	17.8	16.5	14.2	12.1	11.0	9.8	9.2	8.8	8.2	7.8	7.2(21)	-	-	-	-	-	-
15 Jun	21.0	20.2	19.8	17.5	12.8	11.5	10.2	9.8	9.2	8.5	7.8	7.5	-	-	-	-	-	-
22 Jun	22.2	22.2	21.8	19.8	14.5	11.5	10.5	9.2	8.5	8.2	7.8	7.2	-	-	-	-	-	-
29 Jun	23.8	23.5	23.2	21.8	17.2	12.8	11.5	10.0	9.2	8.2	7.5	7.5	-	-	-	-	-	-
7 Jul	23.0	22.8	22.2	20.2	18.0	15.8	12.8	10.5	9.8	9.0	8.0	7.5	-	-	-	-	-	-
13 Jul	21.3	21.5	21.5	19.2	17.5	15.8	12.0	10.0	8.5	7.8	7.2	7.0	-	-	-	-	-	-
20 Jul	22.0	21.8	21.2	21.0	19.2	16.0	12.5	11.0	9.0	8.2	7.5	7.2	-	-	-	-	-	-
27 Jul	21.2	21.2	21.2	21.2	20.2	17.2	13.5	10.5	8.8	7.5	7.0	-	-	-	-	-	-	-
3 Aug	22.0	21.5	21.5	21.2	20.8	19.2	14.0	11.2	8.8	7.5	-	-	-	-	-	-	-	-
10 Aug	20.8	20.8	20.8	20.8	20.8	19.9	15.2	12.8	12.0	8.0	-	-	-	-	-	-	-	-
17 Aug	21.0	20.8	20.8	20.5	19.0	18.2	17.5	17.0	15.5	10.8	8.0	-	-	-	-	-	-	-
24 Aug	23.0	22.8	21.5	20.2	19.0	18.0	17.5	16.0	12.8	9.0	8.2(19)	-	-	-	-	-	-	-
30 Aug	21.8	21.8	21.8	21.8	19.8	18.5	17.2	14.8	9.0	-	-	-	-	-	-	-	-	-
7 Sep	18.8	18.8	18.8	18.8	18.5	16.5	13.8	11.0	-	-	-	-	-	-	-	-	-	-
14 Sep	18.5	18.5	18.2	18.2	17.5	14.5	10.2	-	-	-	-	-	-	-	-	-	-	-
22 Sep	17.5	17.5	17.5	17.5	16.5(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
28 Sep	15.0	15.0	15.0	15.0	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-
6 Oct	14.5	14.5	14.0	13.0	9.5	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	11.8	11.5	11.4	11.3	11.2	10.6	9.6	-	-	-	-	-	-	-	-	-	-	-
20 Oct	8.6	8.8	8.9	8.9	8.9	8.9	8.8	8.8(13)	-	-	-	-	-	-	-	-	-	-
27 Oct	7.0	7.1	7.2	7.3	7.3	7.2	7.2	7.2	7.2	7.2	-	-	-	-	-	-	-	-
3 Nov	6.2	-	-	-	-	-	6.2(11)	-	-	-	-	5.9(21)	-	-	-	-	-	-
15 Nov	4.4	-	-	-	-	-	4.5(11)	-	-	-	-	4.3	-	-	-	-	-	-
1 Dec	2.3	-	-	-	-	-	2.7(11)	-	-	-	-	3.0	-	-	-	-	-	-
15 Dec	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 13 - (Continued).

Station & Date	Surface	Depth (m) 2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
29																		
6 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	FGD #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 Mar	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 Apr	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Apr	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Apr	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Apr	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4 May	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 May	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 May	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 May	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 Jun	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 Jun	18.8	17.1	15.8	13.5	11.8	10.0	9.2	-	-	-	-	-	-	-	-	-	-	-
15 Jun	21.8	21.2	21.0	19.0	13.8	12.2	10.2	9.8(13)	-	-	-	-	-	-	-	-	-	-
22 Jun	23.0	23.0	22.8	19.8	15.2	11.8	10.2	-	-	-	-	-	-	-	-	-	-	-
29 Jun	24.2	23.8	23.5	20.8	17.0	13.0	10.8	9.7(13)	-	-	-	-	-	-	-	-	-	-
7 Jul	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Jul	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Jul	22.2	22.0	21.1	21.2	21.0	17.2	12.8	13.6	-	-	-	-	-	-	-	-	-	-
27 Jul	22.0	22.0	22.0	21.0	20.5	-	-	-	-	-	-	-	-	-	-	-	-	-
3 Aug	21.2	21.0	20.8	20.5	20.5	20.5	-	-	-	-	-	-	-	-	-	-	-	-
10 Aug	20.2	20.2	20.0	19.8	19.5	19.2	-	-	-	-	-	-	-	-	-	-	-	-
17 Aug	20.2	19.5	19.5	19.2	19.2	18.5	17.5	-	-	-	-	-	-	-	-	-	-	-
24 Aug	22.0	21.8	21.5	21.5	20.2	19.2	-	-	-	-	-	-	-	-	-	-	-	-
30 Aug	20.0	20.0	19.8	19.2	18.2	-	-	-	-	-	-	-	-	-	-	-	-	-
7 Sep	18.5	18.2	18.0	18.0(5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 Sep	18.8	18.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	LWL##	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 Sep	LWL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 Oct	LWL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	12.9	12.3	12.1(3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	8.9	8.9	8.9(3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Oct	6.8	6.4	6.4	6.3	6.3	6.2(9)	-	-	-	-	-	-	-	-	-	-	-	-
3 Nov	6.0	-	-	6.0(5)	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-
15 Nov	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 Dec	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Dec	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 13 - (Continued).

Station & Date	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
		Depth (m)																
30																		
6 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	3	-	-	-	-	-	-	-	-	3(17)	-	-	-	-	-	-	-	3
30 Mar	3	-	-	-	-	-	-	-	-	3(17)	-	-	-	-	-	-	-	3
6 Apr	4	-	-	-	-	-	-	-	-	4(17)	-	-	-	-	-	-	-	4
13 Apr	4.3	4.3	4.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	-
20 Apr	15.2	14.5	10.9	7.9	6.5	6.2	5.9	5.7	5.2	5.2	5.1	5.0	5.0	5.0	4.9	4.8	4.8	-
27 Apr	6.8	6.8	7.0	7.0	7.0	7.0	6.8	6.5	5.8	5.5	5.5	5.2	5.2	5.0	5.0	4.9	4.8	-
4 May	8.0	8.0	8.0	8.0	7.8	7.5	6.9	6.5	6.0	5.9	5.8	5.2	5.2	5.2	5.1	5.0	5.0	5.0
12 May	10.0	10.0	9.8	9.0	8.5	8.2	7.9	7.1	7.0	6.8	6.5	6.2	6.0	5.6	5.5	5.5	5.6	-
18 May	12.5	12.5	12.5	11.8	10.2	9.2	8.8	8.2	7.5	7.2	7.1	6.9	6.7	6.5	6.0	6.5	6.2	-
25 May	11.2	11.0	10.8	10.8	10.0	9.5	9.2	8.8	8.5	8.0	7.5	7.0	6.8	6.5	6.2	6.0	5.8	-
2 Jun	15.2	14.7	13.8	12.8	11.8	10.0	9.2	8.8	8.5	8.0	7.2	7.0	6.8	6.8	6.8	6.8	6.5	-
8 Jun	18.5	17.2	16.5	14.5	11.2	9.5	8.8	8.2	8.0	7.5	7.5	7.2	7.2	6.8	6.5	6.5	6.5	6.2
15 Jun	21.5	21.0	20.5	17.5	14.0	12.5	10.5	9.2	8.8	8.2	8.0	7.8	7.5	7.0	7.0	6.8	6.8	6.8
22 Jun	23.0	22.8	22.5	19.8	13.8	12.2	11.0	9.8	8.8	8.2	8.0	7.8	7.2	7.0	6.8	6.5	6.5	6.2
29 Jun	24.5	24.2	23.8	22.2	17.5	13.2	11.0	9.5	8.5	7.8	7.2	7.0	6.8	6.8	6.5	6.2	6.2	6.2
7 Jul	22.5	22.5	22.5	20.0	18.5	16.2	12.0	10.0	9.0	8.5	8.0	7.8	7.2	7.0	7.0	6.8	6.5	6.2
13 Jul	21.2	21.2	21.2	20.0	17.8	14.5	11.8	10.2	8.5	8.0	7.5	7.2	6.8	6.5	6.5	6.2	6.2	6.2
20 Jul	22.2	22.0	22.0	21.5	19.8	16.8	13.8	10.0	9.0	8.2	7.5	7.0	6.8	6.5	6.5	6.2	6.2	6.0
27 Jul	21.8	21.8	21.8	21.2	20.2	17.5	15.2	10.8	8.5	8.0	7.2	7.0	6.8	6.5	6.5	6.2	6.2	6.2(33)
3 Aug	21.5	21.2	21.0	21.0	20.8	20.8	14.5	9.2	8.5	8.0	7.5	7.2	7.0	6.8	6.5	6.5	6.2(31)	-
10 Aug	20.5	20.5	20.5	20.5	20.2	19.5	17.8	14.8	9.0	8.2	7.5	7.0	6.8	6.5	6.2	6.2	-	-
17 Aug	20.2	19.8	19.8	19.8	19.0	18.5	17.8	16.5	14.5	10.2	8.0	7.5	7.0	6.8	6.5	6.2	6.2	6.0(33)
24 Aug	22.5	22.2	22.2	21.1	20.2	18.8	17.5	14.2	11.0	8.2	7.8	7.5	7.2	7.0	6.8	6.8	-	-
30 Aug	20.0	20.2	20.2	20.0	19.0	16.0	14.5	11.2	8.8	8.5	7.2	6.8	6.8	6.8	6.6	5.7	-	-
7 Sep	18.5	18.5	18.5	18.5	18.5	18.2	12.8	8.5	7.8	7.2	7.0	6.8	6.5	6.5	6.2(27)	-	-	-
14 Sep	18.8	18.5	18.2	18.2	18.2	18.5	10.0	7.8	7.2	6.8	6.5	6.5	6.2	6.2	-	-	-	-
22 Sep	17.5	17.5	17.5	17.5	16.8	9.5	7.8	7.2	7.0	6.8	6.5	6.5	6.2	-	-	-	-	-
28 Sep	14.8	14.9	15.0	15.0	13.5	9.5	7.6	7.0	6.7	6.4	6.4	6.2	6.1(23)	-	-	-	-	-
6 Oct	15.0	15.0	15.0	14.0	12.5	8.5	7.5	7.0	6.5	6.5	6.5	6.0	-	-	-	-	-	-
13 Oct	12.4	11.9	11.8	11.8	11.6	10.3	10.0	8.9	7.9	7.2	7.1	6.8	6.8(23)	-	-	-	-	-
20 Oct	9.0	9.0	9.0	9.1	9.1	9.1	9.1	9.0	8.6	7.8	7.4	7.1	6.8	-	-	-	-	-
27 Oct	6.6	6.7	6.8	6.9	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.5	6.5	6.5	6.5	6.3	-	-
3 Nov	6.2	-	-	-	-	-	-	-	6.2	-	-	-	-	-	-	-	5.9	-
15 Nov	4.8	-	-	-	-	-	-	-	-	4.6(17)	-	-	-	-	-	-	-	4.5
1 Dec	2.3	-	-	-	-	-	-	-	-	3.0(17)	-	-	-	-	-	-	-	3.2
15 Dec	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 13 - (Continued).

Station & Date	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
		Depth (m)																
13																		
6 Jan	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	3	-	-	-	-	3(9)	-	-	-	3(17)	-	-	-	-	-	-	-	-
30 Mar	5	-	-	-	5	-	-	-	5	-	-	-	-	-	-	-	-	-
6 Apr	5	-	-	5	-	-	5	-	-	-	-	-	-	-	-	-	-	-
13 Apr	5.5	4.8	4.5	4.5	4.5	4.5	4.5	-	-	-	-	-	-	-	-	-	-	-
20 Apr	9.5	8.7	8.2	8.0	7.5	7.5	7.2	-	-	-	-	-	-	-	-	-	-	-
27 Apr	9.2	9.1	9.0	8.8	8.5	8.2	8.2(11)	-	-	-	-	-	-	-	-	-	-	-
4 May	8.8	8.8	8.8	8.7	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-
12 May	9.9	9.9	9.8	9.8	9.8	9.8	-	-	-	-	-	-	-	-	-	-	-	-
18 May	13.8	13.2	12.8	12.5	12.1	11.2	-	-	-	-	-	-	-	-	-	-	-	-
25 May	11.0	10.9	10.8	10.5	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
2 Jun	14.9	14.2	13.8	13.5	13.2	12.0	-	-	-	-	-	-	-	-	-	-	-	-
8 Jun	17.0	15.8	15.5	14.5	14.2	14.1	14.0(11)	-	-	-	-	-	-	-	-	-	-	-
15 Jun	22.2	20.2	18.9	18.5	18.2	18.2	17.5	-	-	-	-	-	-	-	-	-	-	-
22 Jun	21.5	21.2	20.8	20.5	19.5	19.2	-	-	-	-	-	-	-	-	-	-	-	-
29 Jun	22.2	22.0	21.8	21.8	21.0	20.8	20.2(11)	-	-	-	-	-	-	-	-	-	-	-
7 Jul	22.5	22.5	22.5	22.0	21.9	21.8	-	-	-	-	-	-	-	-	-	-	-	-
13 Jul	22.0	22.2	22.2	22.2	22.2	22.2	22.0(11)	-	-	-	-	-	-	-	-	-	-	-
20 Jul	23.0	22.8	22.8	22.2	22.0	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Jul	22.5	22.2	22.0	21.8	21.5	21.5	-	-	-	-	-	-	-	-	-	-	-	-
3 Aug	23.5	23.0	21.8	21.7	21.5	21.5	21.5(11)	-	-	-	-	-	-	-	-	-	-	-
10 Aug	20.0	21.2	21.2	21.2	21.2	21.2(9)	-	-	-	-	-	-	-	-	-	-	-	-
17 Aug	22.0	21.8	21.8	21.5	21.5	21.5	-	-	-	-	-	-	-	-	-	-	-	-
24 Aug	22.8	22.8	22.5	22.5	22.2	22.0	21.5(11)	-	-	-	-	-	-	-	-	-	-	-
30 Aug	22.0	22.0	22.0	22.0	22.0	21.8(9)	-	-	-	-	-	-	-	-	-	-	-	-
7 Sep	20.5	20.5	20.5	20.2	20.2	20.2(9)	-	-	-	-	-	-	-	-	-	-	-	-
14 Sep	22.2	20.8	20.0	19.8	19.8	19.8	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	19.0	19.0	19.0	19.0	19.0	19.0	19.0(11)	-	-	-	-	-	-	-	-	-	-	-
28 Sep	17.0	17.0	17.0	17.0	17.0	17.0	17.1(11)	-	-	-	-	-	-	-	-	-	-	-
6 Oct	16.4	16.3	16.3	16.2	16.2	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	15.4	15.1	15.0	15.0	15.0	14.9	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	11.8	11.9	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	-	-	-	-	-	-	-	-
27 Oct	9.0	9.0	9.2	9.2	9.4	9.4	-	-	-	-	-	-	-	-	-	-	-	-
3 Nov	8.0	-	-	8.0(5)	-	-	-	-	8.0	-	-	-	-	-	-	-	-	-
15 Nov	5.6	-	-	5.6(5)	-	-	-	-	5.4	-	-	-	-	-	-	-	-	-
1 Dec	2.5	-	-	2.6(5)	-	2.6	-	-	-	-	-	-	-	-	-	-	-	-
15 Dec	1.5	-	1.5	-	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 13 - (Continued).

Station & Date	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
		Depth (m)																
14																		
6 Jan	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	2	-	-	2(5)	-	2	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	3	-	3(3)	-	3(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
30 Mar	5	-	5	-	5(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
6 Apr	5	-	5(3)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Apr	4.8	4.7	4.7	4.6	4.5	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Apr	8.0	7.9	7.8	7.8	7.8(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Apr	8.1	8.1	8.2	8.0	8.2(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
4 May	8.1	8.0	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 May	10.0	9.9	9.9	9.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 May	12.7	12.2	12.5	12.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 May	10.8	10.8	10.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 Jun	13.8	13.8	13.7	13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 Jun	15.5	15.2	15.2	15.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Jun	18.7	18.5	18.5	18.5	18.5	18.5	-	-	-	-	-	-	-	-	-	-	-	-
22 Jun	20.0	20.0	19.8	19.8	20.0	19.8	-	-	-	-	-	-	-	-	-	-	-	-
29 Jun	21.2	21.2	21.2	21.2	21.2(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
7 Jul	21.8	21.8	21.8	21.5	21.5	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Jul	22.0	22.0	22.1	22.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Jul	22.0	22.0	22.0	21.8(5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Jul	22.2	22.2	22.0	22.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 Aug	22.0	22.0	22.0	22.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Aug	21.0	21.0	21.0	21.0(5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Aug	21.5	21.5	21.5	21.5	21.5(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
24 Aug	22.5	22.5	22.5	22.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 Aug	22.0	22.0	22.0	22.0(5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 Sep	20.2	20.0	20.0	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 Sep	20.5	20.0	19.8	19.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	19.0	19.0	19.0	19.0	19.0(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
28 Sep	16.7	16.7	16.8	16.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 Oct	16.2	16.2	16.2	16.2	16.2(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	14.9	14.8	14.8	14.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	11.9	11.9	11.9	11.9	11.9	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Oct	9.0	9.2	9.2	9.4(5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 Nov	7.9	-	-	7.9(5)	-	7.9(9)	-	-	-	-	-	-	-	-	-	-	-	-
15 Nov	4.9	-	4.9	-	4.9(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
1 Dec	2.5	-	2.7	-	2.8(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Dec	2.0	-	2.0(3)	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 13 - (Continued).

Station & Date	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
16																		
6 Jan	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	3	-	-	-	-	3(9)	-	-	-	3(17)	-	-	-	-	-	-	-	-
30 Mar	5	-	-	-	-	5(9)	-	-	-	5	-	-	-	-	-	-	-	-
6 Apr	4	-	-	-	-	4(9)	-	-	-	5	-	-	-	-	-	-	-	-
13 Apr	4.3	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	-	-	-	-	-	-	-	-	-
20 Apr	10.5	10.2	9.7	8.7	8.2	7.8	6.8	6.0	5.7	5.5	-	-	-	-	-	-	-	-
27 Apr	9.0	9.0	9.0	9.0	9.0	9.0	8.9	8.8	8.5	7.0(17)	-	-	-	-	-	-	-	-
4 May	8.0	8.2	8.2	8.2	8.2	8.0	8.0	8.0	8.0	8.0	7.8	-	-	-	-	-	-	-
12 May	10.0	10.0	10.0	10.1	10.0	9.9	9.2	9.0	8.9	8.8	-	-	-	-	-	-	-	-
18 May	13.0	13.2	13.3	13.3	13.2	13.2	13.2	13.2	13.2	-	-	-	-	-	-	-	-	-
25 May	11.0	11.0	10.9	10.9	10.8	10.7	10.5	10.2	10.2	10.0	-	-	-	-	-	-	-	-
2 Jun	14.2	14.2	14.0	13.8	13.6	13.5	13.0	12.8	11.5	11.2	-	-	-	-	-	-	-	-
8 Jun	13.5	13.0	12.5	12.5	12.2	12.2	12.0	11.5	11.0	10.0	-	-	-	-	-	-	-	-
15 Jun	20.0	19.3	18.5	18.2	18.2	18.0	17.8	17.5	17.2	13.8	-	-	-	-	-	-	-	-
22 Jun	21.2	21.0	20.5	20.2	20.0	19.8	19.5	19.5	18.0	14.5(17)	-	-	-	-	-	-	-	-
29 Jun	21.2	21.5	21.5	21.5	21.5	21.0	21.0	20.8	20.5	14.8	-	-	-	-	-	-	-	-
7 Jul	22.5	22.5	22.2	22.0	22.0	21.5	21.5	21.2	20.8	18.8(17)	-	-	-	-	-	-	-	-
13 Jul	21.5	21.5	21.5	21.5	21.8	21.8	21.8	21.5	21.2	19.0	-	-	-	-	-	-	-	-
20 Jul	22.0	21.8	21.5	21.5	21.5	21.2	21.5	21.2	21.0	20.8	20.2(19)	-	-	-	-	-	-	-
27 Jul	20.2	20.2	21.2	21.2	21.2	21.0	21.0	21.0	20.8	20.5	-	-	-	-	-	-	-	-
3 Aug	22.5	22.0	21.8	21.8	21.5	21.5	21.5	21.5	21.5	21.2(17)	-	-	-	-	-	-	-	-
10 Aug	21.2	21.2	21.2	21.2	21.2	21.2	21.0	20.8	20.8	20.5	-	-	-	-	-	-	-	-
17 Aug	21.5	21.5	21.5	21.5	21.2	21.0	21.0	21.0	21.0	20.8	-	-	-	-	-	-	-	-
24 Aug	22.8	22.5	22.2	22.2	22.2	22.2	22.2	21.8	21.5	-	-	-	-	-	-	-	-	-
30 Aug	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	21.5	-	-	-	-	-	-	-	-
7 Sep	20.0	20.0	20.0	20.0	19.8	19.8	19.8	19.8	19.5	19.5	-	-	-	-	-	-	-	-
14 Sep	20.8	20.0	19.8	19.8	19.5	19.5	19.5	19.2	19.0	19.0	-	-	-	-	-	-	-	-
22 Sep	18.5	18.5	18.5	18.8	18.8	18.8	18.8	18.8	18.8	-	-	-	-	-	-	-	-	-
28 Sep	16.6	16.5	16.8	16.8	17.0	17.0	17.0	16.9	16.8	16.8(17)	-	-	-	-	-	-	-	-
6 Oct	16.5	16.5	16.5	16.4	16.3	16.3	16.2	16.2	16.2	16.1	-	-	-	-	-	-	-	-
13 Oct	15.0	14.9	14.7	14.7	14.6	14.6	14.5	14.5	14.5	14.5	-	-	-	-	-	-	-	-
20 Oct	11.5	11.6	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.8(17)	-	-	-	-	-	-	-	-
27 Oct	8.7	8.8	9.0	9.0	9.1	9.1	9.1	9.1	9.2	-	-	-	-	-	-	-	-	-
3 Nov	7.6	-	-	-	-	7.6(9)	-	-	-	7.4	-	-	-	-	-	-	-	-
15 Nov	4.8	-	-	-	-	4.7(9)	-	-	-	-	4.6(19)	-	-	-	-	-	-	-
1 Dec	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Dec	1.0	-	-	-	-	1.5(9)	-	-	-	1.5	-	-	-	-	-	-	-	-

Table 13 - (Continued).

Station & Date	Surface	Depth (m) 2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
17																		
6 Jan	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ice	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	3	-	-	-	-	3	-	-	-	-	3(19)	-	-	-	-	-	-	-
30 Mar	5	-	-	-	-	5(9)	-	-	-	5	-	-	-	-	-	-	-	-
6 Apr	4	-	-	-	-	4(9)	-	-	-	4	-	-	-	-	-	-	-	-
13 Apr	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	-	-	-	-	-	-	-	-
20 Apr	9.8	9.2	8.2	8.1	8.0	8.0	7.8	6.5	5.8	5.5	-	-	-	-	-	-	-	-
27 Apr	8.8	8.9	9.0	9.0	9.0	9.0	9.0	9.0	-	-	-	-	-	-	-	-	-	-
4 May	8.5	8.5	8.5	8.8	8.8	8.8	8.2	8.2	8.1	8.1	-	-	-	-	-	-	-	-
12 May	10.1	10.1	10.1	10.1	10.2	10.2	10.2	9.3	9.1	8.8	-	-	-	-	-	-	-	-
18 May	13.2	12.9	12.8	12.8	12.5	12.0	11.8	11.5	-	-	-	-	-	-	-	-	-	-
25 May	10.8	10.8	10.8	10.8	10.8	10.7	10.5	10.5	10.2	-	-	-	-	-	-	-	-	-
2 Jun	14.0	14.0	14.0	13.9	13.8	12.9	12.5	12.2	12.0	-	-	-	-	-	-	-	-	-
8 Jun	13.0	12.9	12.5	12.2	12.1	12.0	12.0	11.5	11.2	10.8	10.8(19)	-	-	-	-	-	-	-
15 Jun	19.0	18.5	18.2	18.2	18.0	18.0	17.8	17.5	16.8	13.5(17)	-	-	-	-	-	-	-	-
22 Jun	20.5	20.2	20.0	19.8	19.8	19.8	19.5	19.2	18.5(15)	-	-	-	-	-	-	-	-	-
29 Jun	21.2	21.2	21.0	21.0	21.0	21.0	21.0	20.8	20.5	15.5	-	-	-	-	-	-	-	-
7 Jul	21.9	21.9	21.8	21.8	21.5	21.2	21.2	21.0	20.8	16.2	-	-	-	-	-	-	-	-
13 Jul	21.8	21.8	22.0	22.0	22.0	22.0	22.0	22.0	21.8	-	-	-	-	-	-	-	-	-
20 Jul	22.0	21.8	21.8	21.8	21.8	21.8	21.8	21.5	21.2	-	-	-	-	-	-	-	-	-
27 Jul	21.8	21.5	21.5	21.5	21.5	21.5	21.5	21.3	21.3	-	-	-	-	-	-	-	-	-
3 Aug	22.5	22.5	21.8	21.8	21.8	21.7	21.5	21.5(13)	-	-	-	-	-	-	-	-	-	-
10 Aug	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	-	-	-	-	-	-	-	-	-
17 Aug	21.5	21.5	21.5	21.5	21.5	21.5	21.2	-	-	-	-	-	-	-	-	-	-	-
24 Aug	22.5	22.5	22.2	22.2	22.2	22.0	22.0	21.5	-	-	-	-	-	-	-	-	-	-
30 Aug	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	21.2	-	-	-	-	-	-	-	-
7 Sep	20.0	20.0	20.0	20.0	20.0	20.0	20.0	19.8(13)	-	-	-	-	-	-	-	-	-	-
14 Sep	20.5	19.8	19.8	19.5	19.5	19.5	19.2	19.2(13)	-	-	-	-	-	-	-	-	-	-
22 Sep	17.2	18.5	18.5	18.5	18.5	18.5	18.5	-	-	-	-	-	-	-	-	-	-	-
28 Sep	16.8	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	-	-	-	-	-	-	-	-	-
6 Oct	16.3	16.4	16.3	16.3	16.3	16.2	16.1	16.1	16.1(15)	-	-	-	-	-	-	-	-	-
13 Oct	14.8	14.7	14.6	14.6	14.6	14.6	14.5	14.5	14.5	14.8	-	-	-	-	-	-	-	-
20 Oct	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9(17)	-	-	-	-	-	-	-	-
27 Oct	8.9	9.0	9.0	9.0	9.0	9.1	9.1	9.1	9.1	9.2(17)	-	-	-	-	-	-	-	-
3 Nov	7.4	-	-	-	-	7.6	-	-	-	-	7.6(19)	-	-	-	-	-	-	-
15 Nov	4.7	-	-	-	-	4.6(9)	-	-	-	-	4.6(19)	-	-	-	-	-	-	-
1 Dec	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Dec	1.5	-	-	-	1.5	-	-	-	1.5	-	-	-	-	-	-	-	-	-

Table 14. Summary of dissolved oxygen data (ppm) taken from 6 January through 15 December 1976 in Schoharie Reservoir and Lower and Upper B-G.

Station & Date	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
		Depth (m)																
26																		
6 Jan	ICE*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	12.1	-	-	-	12.6	-	-	-	12.0	-	-	-	-	-	-	-	-	-
30 Mar	12.6	-	-	-	12.1	-	-	-	12.6	-	-	-	-	-	-	-	-	-
6 Apr	14.1	-	-	-	12.2	-	-	-	12.4(15)**		-	-	-	-	-	-	-	-
13 Apr	13.6	13.6	13.8	13.8	13.9	13.9	13.6	13.8	13.3	-	-	-	-	-	-	-	-	-
20 Apr	9.0	9.3	10.5	10.8	11.1	11.3	11.3	11.2	-	-	-	-	-	-	-	-	-	-
27 Apr	12.3	12.2	12.2	12.1	12.6	12.6	12.7	12.8	12.7(15)	-	-	-	-	-	-	-	-	-
4 May	10.9	11.0	10.8	10.9	11.0	11.2	11.3	11.4	11.3(15)	-	-	-	-	-	-	-	-	-
12 May	11.2	10.9	10.8	10.8	10.8	10.8	10.7	10.5	10.2(15)	-	-	-	-	-	-	-	-	-
18 May	9.7	9.8	9.9	9.9	9.9	10.0	10.0	10.0	-	-	-	-	-	-	-	-	-	-
25 May	11.1	11.3	11.2	11.2	11.2	11.0	10.8	10.7	10.2	-	-	-	-	-	-	-	-	-
2 Jun	10.1	10.4	10.2	9.8	9.1	9.2	9.2	9.6	9.6	-	-	-	-	-	-	-	-	-
8 Jun	9.2	8.7	8.6	8.5	8.5	8.5	8.5	7.4	7.5	-	-	-	-	-	-	-	-	-
15 Jun	9.5	10.5	10.5	9.4	9.0	8.2	7.9	7.8	-	-	-	-	-	-	-	-	-	-
22 Jun	9.4	10.6	10.6	10.6	10.3	9.7	8.0	7.8	-	-	-	-	-	-	-	-	-	-
29 Jun	8.9	8.8	8.0	7.5	7.5	7.1	5.3	4.4(13)	-	-	-	-	-	-	-	-	-	-
7 Jul	9.2	9.6	9.5	8.2	8.1	7.7	7.0	5.6	-	-	-	-	-	-	-	-	-	-
13 Jul	11.4	11.1	11.2	10.5	9.6	9.1	8.9	6.4	-	-	-	-	-	-	-	-	-	-
20 Jul	9.2	9.2	7.2	7.0	6.5	6.1	6.2	5.3(13)	-	-	-	-	-	-	-	-	-	-
27 Jul	10.4	10.5	10.4	9.6	9.1	7.2	4.6	-	-	-	-	-	-	-	-	-	-	-
3 Aug	8.5	8.4	8.4	7.4	7.4	6.6	3.9(11)	-	-	-	-	-	-	-	-	-	-	-
10 Aug	10.8	10.6	10.6	10.6	10.6	10.8	10.7	-	-	-	-	-	-	-	-	-	-	-
17 Aug	8.6	8.6	8.6	8.5	8.4	8.4	8.2	7.1(13)	-	-	-	-	-	-	-	-	-	-
24 Aug	10.2	8.9	8.8	7.7	7.0	7.1	-	-	-	-	-	-	-	-	-	-	-	-
30 Aug	9.6	9.6	9.6	9.6	9.5	9.5	-	-	-	-	-	-	-	-	-	-	-	-
								-										
7 Sep	9.5	9.6	9.5	9.6	9.6	-	-	-	-	-	-	-	-	-	-	-	-	-
14 Sep	8.6	8.6	9.0	8.6(5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	8.9	8.9	9.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 Sep	10.5	11.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 Oct	10.4	10.4(1)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	12.4	12.4	12.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	10.1	10.6	11.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Oct	12.9	13.0	13.2	13.3	13.3	13.3	-	-	-	-	-	-	-	-	-	-	-	-
3 Nov	12.9	-	-	-	14.1(7)	-	-	14.4(13)	-	-	-	-	-	-	-	-	-	-
15 Nov	16.9	-	-	-	15.9(7)	-	-	15.8	-	-	-	-	-	-	-	-	-	-
1 Dec	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Dec	13.4	-	-	-	13.1(7)	-	-	12.8	-	-	-	-	-	-	-	-	-	-

* ICE = no samples taken because of ice cover.
** Depth in parentheses.
\# FGD = no samples taken because of flow over Gilboa Dam.
\#\# LWL = no samples taken because of low water levels.

Table 14 - (Continued).

Station & Date	Surface	Depth (m) 2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
27																		
6 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	12.6	-	-	-	12.8(7)	-	-	13.0	-	-	-	-	-	-	-	-	-	-
30 Mar	12.1	-	-	-	12.1	-	-	-	12.1	-	-	-	-	-	-	-	-	-
6 Apr	12.3	-	-	-	-	12.3	-	-	-	12.6(17)	-	-	-	-	-	-	-	-
13 Apr	12.8	12.8	12.7	12.9	12.6	12.8	12.6	12.5	12.4	-	-	-	-	-	-	-	-	-
20 Apr	10.0	10.8	11.1	11.3	11.3	11.4	11.4	11.4	11.4	11.2	-	-	-	-	-	-	-	-
27 Apr	12.1	12.1	12.0	11.9	11.9	12.2	12.2	12.2	12.0	-	-	-	-	-	-	-	-	-
4 May	11.3	11.2	11.1	11.0	10.9	10.8	10.8	10.7	10.6	10.7	-	-	-	-	-	-	-	-
12 May	11.8	11.7	11.7	11.7	11.7	11.6	11.6	11.5	11.3	-	-	-	-	-	-	-	-	-
18 May	10.3	10.2	10.2	10.1	10.2	10.1	10.1	9.9	9.7	9.7	-	-	-	-	-	-	-	-
25 May	11.6	11.6	11.6	11.4	11.4	11.3	11.2	11.1	10.9	10.4(17)	-	-	-	-	-	-	-	-
2 Jun	10.0	10.2	10.2	10.6	10.7	10.6	10.5	10.4	10.3	9.9	-	-	-	-	-	-	-	-
8 Jun	9.4	9.4	9.5	9.4	9.4	9.3	9.3	9.2	8.4	8.2(17)	-	-	-	-	-	-	-	-
15 Jun	10.4	10.6	10.5	10.2	10.6	10.2	9.6	9.5	9.1	8.5(17)	-	-	-	-	-	-	-	-
22 Jun	10.6	10.5	10.5	10.5	11.1	10.1	9.8	9.5	9.2	8.5	-	-	-	-	-	-	-	-
29 Jun	8.4	8.4	8.4	8.1	7.7	8.3	8.1	8.0	6.6	6.6(17)	-	-	-	-	-	-	-	-
7 Jul	9.8	9.8	8.9	8.6	8.4	8.6	8.9	8.2	7.6	6.8(17)	-	-	-	-	-	-	-	-
13 Jul	11.7	11.7	11.6	9.2	9.8	10.8	10.6	10.3	8.6	8.1(17)	-	-	-	-	-	-	-	-
20 Jul	9.2	9.2	8.9	7.4	6.8	6.9	8.1	8.0	5.8	5.5(17)	-	-	-	-	-	-	-	-
27 Jul	10.8	10.5	10.8	10.5	9.4	7.8	8.8	8.6	7.0	-	-	-	-	-	-	-	-	-
3 Aug	8.2	8.2	8.2	8.2	6.0	5.6	6.4	4.8	-	-	-	-	-	-	-	-	-	-
10 Aug	9.8	9.6	9.7	9.7	10.1	10.2	10.4	10.4	10.5	-	-	-	-	-	-	-	-	-
17 Aug	8.8	8.6	8.6	8.7	8.0	7.9	7.9	7.4	6.0(15)	-	-	-	-	-	-	-	-	-
24 Aug	10.2	10.3	10.0	8.5	8.1	7.8	7.8	7.4	-	-	-	-	-	-	-	-	-	-
30 Aug	9.8	10.0	9.8	9.8	6.7	6.5	4.2	-	-	-	-	-	-	-	-	-	-	-
7 Sep	9.5	9.5	9.5	9.5	9.4	5.3	-	-	-	-	-	-	-	-	-	-	-	-
14 Sep	9.1	8.7	8.7	8.2	6.4	-	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	8.5	8.4	8.4	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 Sep	9.6	8.6	9.5	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 Oct	9.2	9.2	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	10.2	10.4	10.4	10.5	10.4(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	9.5	9.8	9.8	9.8	10.0	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Oct	11.2	11.1	11.0	11.0	10.9	10.9	11.0	11.1(13)	-	-	-	-	-	-	-	-	-	-
3 Nov	12.8	-	-	-	-	12.9(9)	-	-	-	12.7(17)	-	-	-	-	-	-	-	-
15 Nov	14.8	-	-	-	-	15.2(9)	-	-	-	15.3	-	-	-	-	-	-	-	-
1 Dec	12.7	-	-	-	-	12.6(9)	-	-	-	12.4(17)	-	-	-	-	-	-	-	-
15 Dec	14.1	-	-	-	-	13.0(9)	-	-	-	12.8	-	-	-	-	-	-	-	-

Table 14 - (Continued).

Station & Date	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
		Depth (m)																
28																		
6 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	13.0	-	-	-	-	-	12.9(11)	-	-	-	-	13.2	-	-	-	-	-	-
30 Mar	12.8	-	-	-	-	-	12.6	-	-	-	-	-	12.8(23)	-	-	-	-	-
6 Apr	12.0	-	-	-	-	-	12.9(11)	-	-	-	-	12.0	-	-	-	-	-	-
13 Apr	12.7	12.8	12.8	12.8	12.7	12.8	12.8	12.9	12.9	12.7	12.7	12.7	-	-	-	-	-	-
20 Apr	9.6	11.2	11.2	11.2	11.3	11.4	11.4	11.5	11.5	11.6	11.5	11.5	-	-	-	-	-	-
27 Apr	12.2	12.2	12.2	12.2	12.1	12.1	12.5	12.6	12.7	12.8	12.8	12.4(21)	-	-	-	-	-	-
4 May	11.3	11.3	11.3	11.3	11.2	10.9	10.9	10.9	10.8	10.8	10.8	10.7	-	-	-	-	-	-
12 May	11.7	11.8	11.8	11.6	11.6	11.6	11.6	11.5	11.4	11.3	11.1	11.1	-	-	-	-	-	-
18 May	10.5	10.5	10.5	10.5	10.4	10.2	10.1	10.0	10.0	9.8	9.8	9.9	-	-	-	-	-	-
25 May	11.5	11.4	11.5	11.4	11.3	11.3	11.2	10.9	10.9	10.9	10.7	10.5	-	-	-	-	-	-
2 Jun	11.1	11.0	11.0	10.8	10.7	10.8	10.8	10.7	10.6	10.6	10.5	10.1(21)	-	-	-	-	-	-
8 Jun	9.7	9.7	9.8	9.4	9.5	9.5	9.4	9.5	9.3	8.9	8.8	8.4(21)	-	-	-	-	-	-
15 Jun	10.3	10.6	10.6	10.8	10.6	10.2	10.2	10.1	10.2	9.1	9.0	9.0	-	-	-	-	-	-
22 Jun	10.4	10.6	10.7	10.7	11.3	10.5	10.4	10.2	9.5	9.2	9.0	8.7	-	-	-	-	-	-
29 Jun	8.4	8.2	8.2	8.1	8.8	8.7	8.7	8.5	8.5	7.4	7.2	5.8	-	-	-	-	-	-
7 Jul	9.5	9.6	9.6	8.3	8.4	9.4	9.7	9.6	9.6	8.2	7.6	7.5	-	-	-	-	-	-
13 Jul	11.6	11.7	11.7	9.6	9.9	10.4	11.9	11.6	10.8	9.5	9.2	7.6	-	-	-	-	-	-
20 Jul	8.9	9.0	9.0	8.8	7.0	7.6	8.4	8.5	6.8	6.6	6.5	5.5	-	-	-	-	-	-
27 Jul	11.1	11.1	11.1	11.0	9.4	8.2	9.5	10.2	10.3	7.9	7.8	-	-	-	-	-	-	-
3 Aug	8.2	8.1	8.3	8.2	7.3	5.8	6.9	7.4	7.8	5.4	-	-	-	-	-	-	-	-
10 Aug	9.7	9.5	9.6	9.6	9.5	9.0	7.6	7.8	8.2	7.2	-	-	-	-	-	-	-	-
17 Aug	8.9	8.8	8.8	8.8	7.3	7.3	7.3	7.2	7.0	6.4	5.2	-	-	-	-	-	-	-
24 Aug	10.2	10.6	10.4	8.7	7.6	7.5	7.6	7.4	6.1	5.9	4.6(19)	-	-	-	-	-	-	-
30 Aug	10.1	9.9	9.9	9.9	7.5	7.1	6.8	6.4	5.6	-	-	-	-	-	-	-	-	-
7 Sep	9.4	9.6	9.6	9.4	9.3	6.2	5.7	5.7	-	-	-	-	-	-	-	-	-	-
14 Sep	8.8	8.9	8.8	8.7	7.3	4.6	5.1	-	-	-	-	-	-	-	-	-	-	-
22 Sep	9.0	8.9	8.9	8.7	6.5(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
28 Sep	9.6	9.6	9.5	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 Oct	9.5	9.5	9.4	7.8	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	9.8	9.8	9.8	9.6	9.4	9.4	9.8	-	-	-	-	-	-	-	-	-	-	-
20 Oct	9.2	9.3	9.3	9.3	9.2	9.2	8.0	7.5(13)	-	-	-	-	-	-	-	-	-	-
27 Oct	10.9	10.9	10.7	10.5	10.5	10.5	10.3	10.3	10.3	10.3	-	-	-	-	-	-	-	-
3 Nov	12.7	-	-	-	-	-	12.6(11)	-	-	-	-	12.5(21)	-	-	-	-	-	-
15 Nov	14.8	-	-	-	-	-	14.9(11)	-	-	-	-	14.8	-	-	-	-	-	-
1 Dec	12.3	-	-	-	-	-	12.2(11)	-	-	-	-	11.8	-	-	-	-	-	-
15 Dec	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 14 - (Continued).

Station & Date	Surface	Depth (m) 2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
29																		
6 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	FGD#	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 Mar	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 Apr	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Apr	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Apr	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Apr	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4 May	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 May	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 May	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 May	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 Jun	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 Jun	9.7	9.7	9.9	9.8	9.6	9.4	9.4	-	-	-	-	-	-	-	-	-	-	-
15 Jun	10.1	10.4	10.4	10.4	10.8	10.7	10.2	10.0(13)	-	-	-	-	-	-	-	-	-	-
22 Jun	10.5	10.6	10.5	10.9	11.7	10.8	9.3	-	-	-	-	-	-	-	-	-	-	-
29 Jun	8.4	8.4	8.4	8.2	9.2	9.0	8.9	8.8(13)	-	-	-	-	-	-	-	-	-	-
7 Jul	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Jul	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Jul	9.1	9.1	9.1	9.0	8.9	7.2	8.6	8.6	-	-	-	-	-	-	-	-	-	-
27 Jul	11.1	10.9	11.0	10.9	10.7	-	-	-	-	-	-	-	-	-	-	-	-	-
3 Aug	8.4	8.3	8.2	8.2	8.0	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Aug	9.0	8.7	8.3	7.4	6.8	6.9	-	-	-	-	-	-	-	-	-	-	-	-
17 Aug	8.1	8.0	7.8	7.3	7.2	6.3	6.2	-	-	-	-	-	-	-	-	-	-	-
24 Aug	10.6	10.6	10.6	10.5	9.4	7.8	-	-	-	-	-	-	-	-	-	-	-	-
30 Aug	9.4	9.2	9.2	7.5	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-
7 Sep	8.8	8.8	8.6	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14 Sep	9.1	9.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	LWL##	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28 Sep	LWL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 Oct	LWL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	9.8	9.7	9.7(3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	9.0	9.1	9.1(3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Oct	10.6	10.6	10.5	10.4	10.3	10.5(9)	-	-	-	-	-	-	-	-	-	-	-	-
3 Nov	12.6	-	-	12.5(5)	-	12.5	-	-	-	-	-	-	-	-	-	-	-	-
15 Nov	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 Dec	FGD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Dec	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 14 - (Continued).

Station & Date	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
		Depth (m)																
30																		
6 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	12.8	-	-	-	-	-	-	-	-	13.4(17)	-	-	-	-	-	-	-	12.3
30 Mar	12.3	-	-	-	-	-	-	-	-	12.3(17)	-	-	-	-	-	-	-	12.5
6 Apr	12.2	-	-	-	-	-	-	-	-	12.1(17)	-	-	-	-	-	-	-	12.0
13 Apr	12.8	13.0	12.9	12.9	12.9	13.0	13.0	12.8	12.9	12.9	12.9	13.0	12.7	12.0	12.0	12.0	12.0	-
20 Apr	11.1	11.2	11.0	11.1	11.4	11.6	11.5	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	-
27 Apr	12.7	12.7	12.6	12.7	12.5	12.6	12.6	12.6	12.8	12.7	12.8	12.8	12.7	12.6	12.6	12.6	12.6	-
4 May	11.4	11.4	11.3	11.3	11.3	11.3	11.2	11.1	11.1	11.2	11.1	11.1	11.2	11.2	11.2	11.1	11.1	11.0
12 May	11.3	11.3	11.2	11.2	11.2	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.0	11.0	11.1	11.0	11.0	-
18 May	10.3	10.3	10.3	10.3	10.3	10.2	10.2	10.1	10.1	10.2	10.2	10.2	10.3	10.3	10.2	10.4	10.2	-
25 May	11.4	11.4	11.4	11.4	11.3	11.2	11.3	11.3	11.2	11.1	10.9	10.9	11.0	11.0	10.9	10.8	10.5	-
2 Jun	11.1	11.2	11.2	11.0	10.9	10.7	10.7	10.7	10.7	10.7	10.4	10.5	10.5	10.6	10.5	10.6	10.5	-
8 Jun	9.6	9.8	9.8	9.8	9.6	9.4	9.3	9.4	9.4	9.3	9.4	9.2	9.2	9.2	9.1	9.1	9.0	9.0
15 Jun	10.4	10.4	10.4	10.8	10.8	10.6	10.3	10.2	10.1	10.0	9.8	9.8	9.8	9.6	9.6	9.6	9.6	9.6
22 Jun	10.2	10.3	10.1	10.6	10.6	10.7	10.6	10.4	10.3	10.2	10.1	10.1	10.0	10.0	10.0	9.9	9.8	9.6
29 Jun	8.2	8.3	8.2	8.2	8.9	9.3	9.0	8.7	8.7	8.8	8.8	8.8	8.7	8.8	8.7	8.6	8.6	8.4
7 Jul	9.5	9.7	9.7	8.6	8.2	9.4	9.6	9.6	9.6	9.6	9.6	9.6	9.5	9.4	9.2	9.0	8.6	8.5
13 Jul	11.6	11.6	11.6	10.1	10.0	11.7	12.0	12.1	12.1	12.1	12.1	11.9	11.9	11.6	11.4	10.8	10.8	10.5
20 Jul	9.0	9.1	9.1	9.0	7.5	7.8	9.0	8.8	8.9	9.0	8.8	8.5	8.5	8.7	8.7	8.5	8.6	6.7
27 Jul	10.9	10.8	11.2	11.0	10.0	8.0	9.2	10.4	10.7	10.7	9.9	10.0	10.2	10.3	10.3	9.8	9.5	9.1
3 Aug	8.3	8.2	8.4	8.3	8.2	8.2	6.8	7.6	7.7	7.8	7.6	7.4	6.5	6.5	6.5	6.1	5.0(31)	-
10 Aug	9.5	9.5	9.1	9.4	9.1	8.1	6.6	8.8	8.8	8.9	9.2	8.7	8.6	8.6	8.6	8.6	-	-
17 Aug	8.2	8.2	8.0	8.0	6.9	6.6	6.6	6.6	6.6	7.4	7.3	7.2	7.3	6.1	6.0	5.9	5.8	5.2(33)
24 Aug	10.6	10.6	10.6	9.6	9.0	7.6	7.2	7.1	7.9	7.9	7.9	7.8	7.3	7.0	6.2	5.9	-	-
30 Aug	9.4	9.4	9.2	8.6	7.0	6.5	6.5	6.3	6.4	6.5	7.6	7.9	7.4	7.0	6.6	5.7	-	-
7 Sep	9.2	9.2	9.0	9.1	9.0	9.0	6.0	6.9	7.0	7.1	6.2	6.1	5.5	5.2	4.3(27)	-	-	-
14 Sep	9.1	9.0	8.9	8.8	8.7	5.3	6.0	6.1	7.0	6.6	6.0	5.4	4.8	4.5	-	-	-	-
22 Sep	9.2	9.1	9.1	9.0	6.2	5.6	6.4	5.4	5.2	5.4	4.8	4.2	3.7	-	-	-	-	-
28 Sep	9.5	9.6	9.6	9.5	6.0	5.0	6.3	6.6	6.4	5.2	4.1	3.4	3.2(23)	-	-	-	-	-
6 Oct	10.0	10.0	9.8	9.4	5.0	5.2	5.8	5.8	5.6	4.4	3.9	3.0	-	-	-	-	-	-
13 Oct	9.5	9.5	9.5	9.5	9.3	9.5	8.6	5.9	3.6	3.5	3.3	3.5	3.6(23)	-	-	-	-	-
20 Oct	9.4	9.4	9.5	9.5	9.5	9.5	8.9	8.7	7.3	4.9	4.4	3.8	3.6	-	-	-	-	-
27 Oct	10.5	10.3	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.3	10.5	10.4	10.2	10.2	10.2	10.2	-	-
3 Nov	12.4	-	-	-	-	-	-	-	12.5	-	-	-	-	-	-	-	11.0	-
15 Nov	14.7	-	-	-	-	-	-	-	-	14.6(17)	-	-	-	-	-	-	-	13.9
1 Dec	12.2	-	-	-	-	-	-	-	-	12.0(17)	-	-	-	-	-	-	-	11.9
15 Dec	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 14 - (Continued).

Station & Date	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
		Depth (m)																
13																		
6 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	13.2	-	-	-	-	13.2(9)	-	-	-	13.4(17)	-	-	-	-	-	-	-	-
30 Mar	12.8	-	-	-	12.3	-	-	-	12.4	-	-	-	-	-	-	-	-	-
6 Apr	12.5	-	-	12.0	-	-	12.9	-	-	-	-	-	-	-	-	-	-	-
13 Apr	12.4	12.5	12.5	12.5	12.4	12.4	12.2	-	-	-	-	-	-	-	-	-	-	-
20 Apr	11.6	11.7	11.7	11.7	11.6	11.8	11.8(11)	-	-	-	-	-	-	-	-	-	-	-
27 Apr	11.8	11.8	11.7	11.8	11.8	11.9	12.0	-	-	-	-	-	-	-	-	-	-	-
4 May	11.4	11.4	11.3	11.2	11.0	-	-	-	-	-	-	-	-	-	-	-	-	-
12 May	11.1	11.0	11.0	10.9	10.9	10.9	-	-	-	-	-	-	-	-	-	-	-	-
18 May	11.0	11.1	10.9	10.9	10.8	10.7	-	-	-	-	-	-	-	-	-	-	-	-
25 May	11.1	11.1	11.1	11.1	11.1	-	-	-	-	-	-	-	-	-	-	-	-	-
2 Jun	11.7	11.6	11.5	11.4	11.3	11.3	-	-	-	-	-	-	-	-	-	-	-	-
8 Jun	10.6	10.7	10.9	10.3	10.4	10.4	10.2(11)	-	-	-	-	-	-	-	-	-	-	-
15 Jun	9.5	9.5	9.4	9.3	9.2	9.3	9.2	-	-	-	-	-	-	-	-	-	-	-
22 Jun	9.6	9.4	9.3	9.2	8.6	8.5	-	-	-	-	-	-	-	-	-	-	-	-
29 Jun	9.1	9.2	9.2	9.2	8.7	8.4	7.4(11)	-	-	-	-	-	-	-	-	-	-	-
7 Jul	9.8	9.6	9.9	9.4	8.8	8.6	-	-	-	-	-	-	-	-	-	-	-	-
13 Jul	8.6	8.6	8.6	8.6	8.6	8.5	7.1(11)	-	-	-	-	-	-	-	-	-	-	-
20 Jul	9.6	9.7	9.6	9.5	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Jul	11.4	11.4	11.2	10.8	10.5	9.9	-	-	-	-	-	-	-	-	-	-	-	-
3 Aug	9.0	8.8	9.2	8.9	8.7	8.6	8.4(11)	-	-	-	-	-	-	-	-	-	-	-
10 Aug	12.1	12.1	12.1	12.1	11.9	10.9(9)	-	-	-	-	-	-	-	-	-	-	-	-
17 Aug	7.7	7.7	7.7	7.3	7.2	6.3	-	-	-	-	-	-	-	-	-	-	-	-
24 Aug	11.1	11.0	11.2	11.2	10.6	10.3	9.0(11)	-	-	-	-	-	-	-	-	-	-	-
30 Aug	9.4	9.4	9.2	9.1	8.9	7.8(9)	-	-	-	-	-	-	-	-	-	-	-	-
7 Sep	9.6	9.7	9.6	9.4	9.3	9.2	-	-	-	-	-	-	-	-	-	-	-	-
14 Sep	9.1	9.1	8.8	8.8	8.7	8.6	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	7.9	8.0	8.0	7.8	7.9	7.9	7.7(11)	-	-	-	-	-	-	-	-	-	-	-
28 Sep	8.5	8.3	8.3	8.3	8.3	8.2	8.1(11)	-	-	-	-	-	-	-	-	-	-	-
6 Oct	8.0	8.0	7.9	7.6	7.6	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	9.2	9.3	9.3	9.3	9.3	9.2	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	9.4	9.6	9.6	9.6	9.5	9.5	9.5	9.5	9.5	9.5	-	-	-	-	-	-	-	-
27 Oct	10.6	10.6	10.7	10.6	10.7	10.7	-	-	-	-	-	-	-	-	-	-	-	-
3 Nov	13.0	-	-	12.8(5)	-	12.8	-	-	-	-	-	-	-	-	-	-	-	-
15 Nov	12.7	-	-	12.8(5)	-	12.8	-	-	-	-	-	-	-	-	-	-	-	-
1 Dec	13.4	-	-	13.4(5)	-	13.2	-	-	-	-	-	-	-	-	-	-	-	-
15 Dec	13.2	-	13.7	-	13.8	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 14 - (Continued).

Station & Date	Surface	Depth (m) 2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
14																		
6 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	13.0	-	-	14.0(5)	-	13.5	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	12.8	-	12.8	-	13.1(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
30 Mar	12.8	-	12.8	-	12.8(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
6 Apr	12.7	-	12.5(3)	12.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Apr	12.3	12.4	12.4	12.4	12.3	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Apr	11.6	11.8	11.7	11.7	11.7	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Apr	12.2	12.1	12.1	12.2	12.1	-	-	-	-	-	-	-	-	-	-	-	-	-
4 May	11.4	11.4	11.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12 May	10.9	11.0	10.9	10.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18 May	10.8	10.8	10.7	10.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25 May	11.0	11.0	11.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 Jun	11.6	11.7	11.7	11.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8 Jun	10.5	10.5	10.6	10.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Jun	9.4	9.4	9.4	9.4	9.4	9.2	-	-	-	-	-	-	-	-	-	-	-	-
22 Jun	9.1	8.8	8.6	8.5	8.8	8.6	-	-	-	-	-	-	-	-	-	-	-	-
29 Jun	8.7	8.7	8.7	8.4	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-
7 Jul	8.8	8.7	8.6	8.4	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Jul	8.5	8.5	8.4	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Jul	9.0	8.9	8.9	8.9(5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Jul	10.6	10.8	10.6	10.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 Aug	8.6	8.6	8.6	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Aug	11.6	11.7	11.6	11.7(5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Aug	7.4	7.4	7.4	7.4	7.4(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
24 Aug	10.7	10.7	10.8	10.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30 Aug	9.2	9.2	9.1	9.1(5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 Sep	10.0	9.9	9.8	9.8	9.8	-	-	-	-	-	-	-	-	-	-	-	-	-
14 Sep	8.9	8.8	8.8	8.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22 Sep	8.2	8.2	8.2	8.2	8.2(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
28 Sep	8.3	8.5	8.5	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 Oct	7.8	8.0	8.0	8.0	7.9(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
13 Oct	9.1	9.1	9.1	9.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 Oct	9.6	9.6	9.6	9.6	9.6	-	-	-	-	-	-	-	-	-	-	-	-	-
27 Oct	11.0	11.0	10.8	10.8(5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3 Nov	12.8	-	-	12.8(5)	-	12.8(9)	-	-	-	-	-	-	-	-	-	-	-	-
15 Nov	13.0	-	12.8	-	12.5(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
1 Dec	13.4	-	13.3	-	13.2(7)	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Dec	13.2	-	13.6(3)	13.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 14 - (Continued).

Station & Date	Surface	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
		Depth (m)																
16																		
6 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	13.9	-	-	-	-	13.0(9)	-	-	-	13.1(17)	-	-	-	-	-	-	-	-
30 Mar	12.5	-	-	-	-	12.3(9)	-	-	-	12.7	-	-	-	-	-	-	-	-
6 Apr	12.4	-	-	-	-	12.6(9)	-	-	-	12.4	-	-	-	-	-	-	-	-
13 Apr	11.8	11.8	11.9	11.9	11.9	11.9	11.9	11.9	11.9	-	-	-	-	-	-	-	-	-
20 Apr	10.7	10.7	10.7	10.9	11.0	11.0	11.0	11.2	11.2	11.0	-	-	-	-	-	-	-	-
27 Apr	10.8	10.8	10.8	10.8	10.8	10.8	10.9	11.0	11.1	10.8(17)	-	-	-	-	-	-	-	-
4 May	11.2	11.1	11.2	11.1	11.1	11.2	11.3	11.4	11.4	11.2	11.2	-	-	-	-	-	-	-
12 May	10.8	10.7	10.7	10.7	10.7	10.6	10.6	10.4	10.5	10.5	-	-	-	-	-	-	-	-
18 May	9.8	9.9	9.8	9.9	9.8	9.9	9.9	9.9	9.9	-	-	-	-	-	-	-	-	-
25 May	12.5	12.7	12.7	12.7	12.7	12.9	12.7	12.6	12.7	12.7	-	-	-	-	-	-	-	-
2 Jun	10.3	10.2	10.2	10.1	10.0	10.1	9.9	10.1	9.8	9.5	-	-	-	-	-	-	-	-
8 Jun	10.0	9.9	9.8	9.8	9.6	9.7	9.6	9.5	9.4	9.1	-	-	-	-	-	-	-	-
15 Jun	9.7	9.7	9.6	9.5	9.5	9.5	9.5	9.5	9.4	8.2	-	-	-	-	-	-	-	-
22 Jun	9.4	9.2	8.8	9.3	8.9	8.8	8.8	8.9	8.9	8.2	-	-	-	-	-	-	-	-
29 Jun	9.0	9.1	8.9	8.8	8.8	8.8	8.7	8.6	8.3	6.4	-	-	-	-	-	-	-	-
7 Jul	8.4	8.4	8.4	8.3	8.2	7.8	7.6	7.6	7.4	5.2(17)	-	-	-	-	-	-	-	-
13 Jul	9.4	9.3	9.3	9.3	9.2	9.2	9.2	9.1	8.9	5.3	-	-	-	-	-	-	-	-
20 Jul	9.4	9.3	9.4	9.4	9.3	9.4	9.0	9.1	8.8	8.6	7.5(19)	-	-	-	-	-	-	-
27 Jul	9.4	9.4	9.2	9.1	9.2	9.1	8.9	9.1	8.8	8.2	-	-	-	-	-	-	-	-
3 Aug	8.7	8.7	8.7	8.4	8.3	8.2	8.4	8.4	8.2	7.3(17)	-	-	-	-	-	-	-	-
10 Aug	9.4	9.6	9.4	9.5	9.4	9.4	8.8	8.9	8.5	8.4	-	-	-	-	-	-	-	-
17 Aug	8.6	8.6	8.7	8.6	8.5	8.5	8.4	8.2	8.0	8.1	-	-	-	-	-	-	-	-
24 Aug	10.4	10.5	10.5	10.4	10.3	10.2	10.2	9.9	9.4	-	-	-	-	-	-	-	-	-
30 Aug	9.2	9.2	9.1	9.2	9.2	9.1	9.1	9.0	8.9	7.4	-	-	-	-	-	-	-	-
7 Sep	10.0	10.1	10.1	10.0	9.9	9.8	9.9	9.9	9.9	9.8	-	-	-	-	-	-	-	-
14 Sep	8.2	8.2	8.1	8.1	8.2	8.2	7.8	7.7	7.6	7.6	-	-	-	-	-	-	-	-
22 Sep	8.2	8.6	8.2	8.2	8.2	7.9	8.1	8.1	8.1	-	-	-	-	-	-	-	-	-
28 Sep	8.5	8.8	8.5	8.6	8.5	8.5	8.5	8.5	8.5	8.4(17)	-	-	-	-	-	-	-	-
6 Oct	8.8	8.8	8.9	8.8	8.8	8.7	8.6	8.2	8.5	8.4	-	-	-	-	-	-	-	-
13 Oct	9.8	9.8	9.9	9.9	10.0	10.0	10.0	9.9	9.9	9.9	-	-	-	-	-	-	-	-
20 Oct	10.0	10.0	10.1	10.0	10.0	10.0	10.0	10.0	9.9	9.9(17)	-	-	-	-	-	-	-	-
27 Oct	10.4	10.4	10.4	10.2	10.2	10.2	10.2	10.2	10.1	-	-	-	-	-	-	-	-	-
3 Nov	11.0	-	-	-	-	11.0(9)	-	-	-	10.8	-	-	-	-	-	-	-	-
15 Nov	12.2	-	-	-	-	12.2(9)	-	-	-	-	12.0(19)	-	-	-	-	-	-	-
1 Dec	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Dec	14.2	-	-	-	-	14.2(9)	-	-	-	14.6	-	-	-	-	-	-	-	-

Table 14 - (Continued).

Station & Date	Surface	Depth (m) 2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
17																		
6 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19 Jan	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17 Feb	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 Mar	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26 Mar	12.8	-	-	-	-	13.2	-	-	-	-	13.2(19)	-	-	-	-	-	-	-
30 Mar	12.7	-	-	-	-	12.8(9)	-	-	-	12.7	-	-	-	-	-	-	-	-
6 Apr	12.5	-	-	-	-	12.9(9)	-	-	-	12.3	-	-	-	-	-	-	-	-
13 Apr	12.0	11.8	11.9	11.9	12.0	12.0	12.0	12.0	11.9	11.9	-	-	-	-	-	-	-	-
20 Apr	11.2	11.2	11.0	11.3	11.2	11.2	11.2	11.2	11.2	11.2	-	-	-	-	-	-	-	-
27 Apr	11.0	10.9	10.8	10.7	10.6	10.9	10.8	10.9	-	-	-	-	-	-	-	-	-	-
4 May	11.0	10.8	10.8	10.9	10.9	10.9	10.9	11.0	11.0	11.1	-	-	-	-	-	-	-	-
12 May	10.7	10.7	10.7	10.7	10.6	10.6	10.6	10.6	10.6	10.5	-	-	-	-	-	-	-	-
18 May	9.7	9.9	9.9	9.9	9.9	9.5	9.5	10.0	-	-	-	-	-	-	-	-	-	-
25 May	12.8	12.7	12.7	12.8	12.8	12.8	12.7	12.6	12.7	-	-	-	-	-	-	-	-	-
2 Jun	10.3	10.4	10.4	10.4	10.2	10.1	10.0	9.8	9.8	-	-	-	-	-	-	-	-	-
8 Jun	9.7	9.6	9.6	9.6	9.6	9.6	9.5	9.4	9.2	8.8	8.2(19)	-	-	-	-	-	-	-
15 Jun	9.8	9.6	9.7	9.7	9.6	9.6	9.6	9.5	9.4	8.4(17)	-	-	-	-	-	-	-	-
22 Jun	9.4	9.4	9.2	9.0	8.9	8.9	8.8	8.7	8.6(15)	-	-	-	-	-	-	-	-	-
29 Jun	8.8	8.8	8.7	8.6	8.6	8.6	8.5	8.4	8.1	6.0	-	-	-	-	-	-	-	-
7 Jul	8.0	8.1	8.0	7.9	7.8	7.6	7.6	7.5	7.1	6.6	-	-	-	-	-	-	-	-
13 Jul	9.3	9.2	9.2	9.2	9.1	9.1	9.0	8.9	-	-	-	-	-	-	-	-	-	-
20 Jul	9.4	9.3	9.3	9.2	9.2	9.2	9.2	9.1	8.8	-	-	-	-	-	-	-	-	-
27 Jul	9.4	9.2	8.9	9.1	9.2	8.8	9.1	8.9	8.8	-	-	-	-	-	-	-	-	-
3 Aug	8.7	8.6	8.6	8.4	8.3	8.3	8.0	7.8	-	-	-	-	-	-	-	-	-	-
10 Aug	9.3	9.6	9.5	9.5	9.6	9.6	9.6	9.6	9.4	-	-	-	-	-	-	-	-	-
17 Aug	8.6	8.6	8.7	8.6	8.6	8.5	8.3	-	-	-	-	-	-	-	-	-	-	-
24 Aug	10.4	10.5	10.6	10.4	10.2	10.2	10.0	9.0	-	-	-	-	-	-	-	-	-	-
30 Aug	9.2	9.3	9.3	9.3	9.2	9.2	9.2	9.2	9.2	7.0	-	-	-	-	-	-	-	-
7 Sep	10.0	10.2	10.3	10.2	10.2	10.2	10.2	9.9(13)	-	-	-	-	-	-	-	-	-	-
14 Sep	8.2	8.2	8.0	8.0	8.0	8.0	7.9	7.8(13)	-	-	-	-	-	-	-	-	-	-
22 Sep	8.4	8.2	8.2	8.2	8.1	8.1	8.0	-	-	-	-	-	-	-	-	-	-	-
28 Sep	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	-	-	-	-	-	-	-	-	-
6 Oct	8.8	8.8	8.7	8.6	8.6	8.6	8.5	8.5	8.6(15)	-	-	-	-	-	-	-	-	-
13 Oct	10.1	10.0	10.0	10.0	10.0	9.9	10.0	9.9	9.9	9.8	-	-	-	-	-	-	-	-
20 Oct	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.8	9.8(17)	-	-	-	-	-	-	-	-
27 Oct	10.3	10.4	10.3	10.3	10.3	10.3	10.2	10.2	10.2	10.2(17)	-	-	-	-	-	-	-	-
3 Nov	10.8	-	-	-	-	10.9	-	-	-	-	10.9(19)	-	-	-	-	-	-	-
15 Nov	12.3	-	-	-	-	12.2(9)	-	-	-	-	12.0(19)	-	-	-	-	-	-	-
1 Dec	ICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15 Dec	14.2	-	-	-	14.4	-	-	-	14.5	-	-	-	-	-	-	-	-	-

Table 15. Summary of turbidity data (nephelometer turbidity units) taken from 10 March through 30 December 1976 in Schoharie Reservoir (SR) and Lower B-G.

Date	Station SR 33*	Station Lower B-G 34
10 Mar	-	16
26 Mar	-	17
30 Mar	-	13
Monthly $\bar{x}$	-	15
1 Apr	-	27
2 Apr	-	15
3 Apr	-	12
Weekly $\bar{x}$**	-	17
4 Apr	-	11
5 Apr	-	14
6 Apr	-	14
9 Apr	-	12
Weekly $\bar{x}$	-	13
12 Apr	1.3	10
13 Apr	7.7	18
14 Apr	7.5	13
16 Apr	8.2	16
17 Apr	12	12
Weekly $\bar{x}$	7.3	14
19 Apr	11	12
20 Apr	4.7	12
22 Apr	8.1	13
23 Apr	6.7	13
Weekly $\bar{x}$	7.6	13
25 Apr	7.2	14
26 Apr	5.9	14
27 Apr	8.0	DNR***
29 Apr	5.4	9.7
30 Apr	5.6	10
Weekly $\bar{x}$	6.4	12
Monthly $\bar{x}$	7.1	14
2 May	8.7	6.3
3 May	8.3	5.8
4 May	5.9	9.2
6 May	11	DNR
7 May	4.8	5.8
Weekly $\bar{x}$	7.7	6.8
10 May	10	DNR
11 May	6.8	4.5
13 May	9.6	6.1
14 May	6.0	DNR
Weekly $\bar{x}$	7.5	5.3
18 May	3.3	4.7
19 May	5.9	DNR
20 May	4.6	DNR
21 May	5.7	11
Weekly $\bar{x}$	4.9	7.9
24 May	4.9	4.6
25 May	3.7	4.2
26 May	6.7	4.5
27 May	4.5	DNR
28 May	4.6	6.6
Weekly $\bar{x}$	4.9	5.1
31 May	2.5	12
Monthly $\bar{x}$	6.2	6.6

* Sampling not begun until 12 April.
** Based on Sunday through Saturday.
*** DNR = data not recorded.

Table 15 - (Continued).

Date	Station SR 33	Station Lower B-G 34
1 Jun	7.9	3.4
2 Jun	6.5	DNR
5 Jun	12	5.8
Weekly $\bar{x}$	7.2	7.1
6 Jun	4.8	4.8
7 Jun	3.3	3.9
8 Jun	4.5	3.0
11 Jun	5.2	DNR
Weekly $\bar{x}$	4.5	3.9
13 Jun	4.4	DNR
14 Jun	2.5	3.2
15 Jun	2.3	3.8
16 Jun	3.0	4.6
17 Jun	2.9	5.0
Weekly $\bar{x}$	3.0	4.2
21 Jun	3.1	4.7
22 Jun	2.9	4.3
23 Jun	4.2	4.5
25 Jun	2.6	4.4
Weekly $\bar{x}$	3.2	4.5
28 Jun	2.3	4.5
29 Jun	3.6	3.7
Monthly $\bar{x}$	4.3	4.2
1 Jul	1.8	4.5
2 Jul	3.2	5.7
Weekly $\bar{x}$	2.7	4.6
6 Jul	2.0	4.2
7 Jul	2.4	3.5
9 Jul	1.7	3.5
Weekly $\bar{x}$	2.0	3.7
12 Jul	1.8	2.3
13 Jul	1.6	4.6
15 Jul	1.5	2.8
16 Jul	1.5	3.5
Weekly $\bar{x}$	1.6	3.3
19 Jul	1.6	2.4
20 Jul	2.5	4.2
22 Jul	2.2	3.4
23 Jul	3.6	3.5
Weekly $\bar{x}$	2.5	3.4
26 Jul	2.6	3.3
27 Jul	4.0	2.4
29 Jul	2.0	3.1
30 Jul	2.7	2.8
Weekly $\bar{x}$	2.8	2.9
Monthly $\bar{x}$	2.3	3.5
3 Aug	1.7	3.2
4 Aug	2.6	2.8
5 Aug	2.7	2.6
6 Aug	2.3	2.8
Weekly $\bar{x}$	2.3	2.9
9 Aug	1.8	3.2
10 Aug	4.0	4.0
12 Aug	29	3.4
13 Aug	4.1	3.1
Weekly $\bar{x}$	9.7	3.4
16 Aug	4.1	2.8
17 Aug	6.2	2.8
19 Aug	5.5	3.2
20 Aug	5.9	3.1
Weekly $\bar{x}$	5.4	3.0

Table 15 - (Continued).

Date	Station SR 33	Station Lower B-G 34
23 Aug	4.8	9.0
24 Aug	4.1	2.8
26 Aug	3.3	2.6
27 Aug	3.8	2.8
Weekly $\bar{x}$	4.0	4.3
30 Aug	7.0	3.7
Monthly $\bar{x}$	5.5	3.4
1 Sep	5.9	3.6
2 Sep	5.2	3.8
3 Sep	6.2	3.8
Weekly $\bar{x}$	6.1	3.7
7 Sep	7.8	3.4
9 Sep	7.3	3.2
10 Sep	13	3.5
Weekly $\bar{x}$	9.4	3.4
13 Sep	7.4	3.7
14 Sep	6.6	3.7
16 Sep	5.0	3.5
17 Sep	4.7	3.2
Weekly $\bar{x}$	5.9	3.5
21 Sep	5.8	4.0
22 Sep	8.4	3.8
Weekly $\bar{x}$	7.1	3.9
28 Sep	5.7	4.4
29 Sep	8.1	4.5
30 Sep	7.9	4.0
Weekly $\bar{x}$	7.2	4.3
Monthly $\bar{x}$	7.0	3.7
4 Oct	6.1	3.7
5 Oct	6.5	3.0
6 Oct	5.8	2.3
7 Oct	6.1	2.3
Weekly $\bar{x}$	6.1	2.8
10 Oct	52	4.8
12 Oct	18	4.1
13 Oct	18	3.8
14 Oct	15	4.2
Weekly $\bar{x}$	26	4.2
18 Oct	7.4	2.7
19 Oct	5.8	2.7
20 Oct	5.4	3.1
21 Oct	6.5	4.2
Weekly $\bar{x}$	6.3	3.2
25 Oct	9.0	3.5
26 Oct	9.5	4.3
27 Oct	9.5	3.8
28 Oct	8.4	3.8
Weekly $\bar{x}$	9.1	3.9
Monthly $\bar{x}$	12	3.5
2 Nov	8.0	3.7
3 Nov	6.7	3.6
4 Nov	7.1	3.2
Weekly $\bar{x}$	7.3	3.5
8 Nov	5.5	4.1
9 Nov	7.8	4.5
11 Nov	5.2	3.8
Weekly $\bar{x}$	6.2	4.1
15 Nov	4.4	4.1
16 Nov	4.7	4.1
17 Nov	4.7	5.0
18 Nov	4.4	4.1
Weekly $\bar{x}$	4.6	4.3

Table 15 - (Continued).

Date	Station SR 33	Station Lower B-G 34
22 Nov	3.5	4.1
23 Nov	2.9	4.7
Weekly $\bar{x}$	3.2	4.4
30 Nov	3.7	4.5
Monthly $\bar{x}$	5.3	4.1
1 Dec	4.5	6.3
2 Dec	4.0	5.9
Weekly $\bar{x}$	4.1	5.6
6 Dec	4.2	4.9
7 Dec	3.7	5.5
8 Dec	52	9.8
9 Dec	22	8.0
Weekly $\bar{x}$	20	7.1
13 Dec	6.8	7.4
14 Dec	9.0	7.4
15 Dec	6.2	7.5
16 Dec	5.0	6.6
Weekly $\bar{x}$	6.8	7.2
20 Dec	3.5	7.0
22 Dec	2.8	6.6
23 Dec	3.3	6.5
Weekly $\bar{x}$	3.2	6.7
27 Dec	4.0	7.0
28 Dec	3.0	7.0
29 Dec	4.0	5.9
30 Dec	3.5	6.1
Weekly $\bar{x}$	3.6	6.5
Monthly $\bar{x}$	8.3	6.8
Grand $\bar{x}$	6.4	5.9
Standard Deviation	6.59	4.03
Minimum	1.3	2.3
Maximum	52	27

Table 16. Summary of air temperature data (C) taken from 10 March through 30 December 1976 in Schoharie Reservoir (SR) and Lower B-G.

Date	Station	
	SR	Lower B-G
	33*	34
10 Mar	-	-2
26 Mar	-	15
30 Mar	-	16
1 Apr	-	7
2 Apr	-	6
3 Apr	-	5
4 Apr	-	6
5 Apr	-	9
6 Apr	-	13
9 Apr	-	9
12 Apr	1	-3
13 Apr	8	10
14 Apr	17	10
16 Apr	16	22
17 Apr	22	24
19 Apr	26	31
20 Apr	24	23
22 Apr	18	19
23 Apr	15	14
25 Apr	10	7
26 Apr	6	8
27 Apr	3	DNR**
29 Apr	10	12
30 Apr	16	17
2 May	15	20
3 May	10	5
4 May	5	6
6 May	23	DNR
7 May	13	19
10 May	18	DNR
11 May	20	19
13 May	33	13
14 May	23	DNR
18 May	7	17
19 May	4	DNR
20 May	9	DNR
21 May	18	17
24 May	17	15
25 May	12	14
26 May	12	13
27 May	17	DNR
28 May	20	24
31 May	18	22
1 Jun	15	16
2 Jun	15	DNR
5 Jun	24	22
6 Jun	18	21
7 Jun	15	18
8 Jun	25	26
11 Jun	28	DNR
13 Jun	25	DNR
14 Jun	23	24
15 Jun	21	32
16 Jun	24	27
17 Jun	21	19
21 Jun	23	23
22 Jun	24	23
23 Jun	23	26
25 Jun	22	28
28 Jun	20	23
29 Jun	30	24
1 Jul	23	23
2 Jul	19	25
6 Jul	25	27
7 Jul	22	23
9 Jul	22	23
12 Jul	21	23

* First sampled 12 April 1976
** DNR = data not recorded.

Table 16 - (Continued).

Date	Station SR 33	Station Lower B-G 34
13 Jul	15	18
15 Jul	19	22
16 Jul	21	24
19 Jul	23	23
20 Jul	28	28
22 Jul	22	20
23 Jul	20	20
26 Jul	17	23
27 Jul	24	28
29 Jul	17	17
30 Jul	22	23
3 Aug	19	26
4 Aug	24	23
5 Aug	22	22
6 Aug	22	22
9 Aug	19	22
10 Aug	18	19
12 Aug	22	22
13 Aug	24	24
16 Aug	18	22
17 Aug	19	22
19 Aug	22	21
20 Aug	26	26
23 Aug	25	26
24 Aug	18	24
26 Aug	24	28
27 Aug	23	23
30 Aug	12	14
1 Sep	20	20
2 Sep	15	16
3 Sep	17	18
7 Sep	19	19
9 Sep	26	20
10 Sep	17	17
13 Sep	27	30
14 Sep	24	22
16 Sep	19	19
17 Sep	20	21
21 Sep	15	16
22 Sep	14	15
28 Sep	14	14
29 Sep	15	17
30 Sep	16	15
4 Oct	16	16
5 Oct	20	17
6 Oct	20	20
7 Oct	20	19
10 Oct	6	9
12 Oct	15	7
13 Oct	19	21
14 Oct	13	10
18 Oct	7	4
19 Oct	11	6
20 Oct	5	9
21 Oct	7	7
25 Oct	9	9
26 Oct	7	5
27 Oct	3	2
28 Oct	5	3
2 Nov	5	4
3 Nov	8	8
4 Nov	9	10
8 Nov	1	1
9 Nov	0	0
11 Nov	7	6
15 Nov	3	3
16 Nov	5	2
17 Nov	5	5
18 Nov	5	6
22 Nov	2	0
23 Nov	2	1
30 Nov	-5	-5

Table 16 - (Continued).

Date	Station SR 33	Station Lower B-G 34
1 Dec	-4	-2
2 Dec	-1	2
6 Dec	-2	-2
7 Dec	6	6
8 Dec	-4	-9
9 Dec	-5	-10
13 Dec	-4	-9
14 Dec	-1	-4
15 Dec	4	6
16 Dec	4	-1
20 Dec	7	7
22 Dec	-2	-6
23 Dec	0	0
27 Dec	-7	-6
28 Dec	-7	-7
29 Dec	2	2
30 Dec	-7	-7
Minimum	-7	-10
Maximum	33	32

Table 17. Summary of water temperature data (C) taken from 10 March through 30 December 1976 in Schoharie Reservoir (SR) and Lower B-G.

Date	Station: SR 33*	Station: Lower B-G 34
10 Mar	-	2
26 Mar	-	3
30 Mar	-	5
Monthly $\bar{x}$	-	3
1 Apr	-	6
2 Apr	-	5
3 Apr	-	4
Weekly $\bar{x}$**	-	5
4 Apr	-	5
5 Apr	-	4
6 Apr	-	5
9 Apr	-	7
Weekly $\bar{x}$	-	5
12 Apr	6	4
13 Apr	9	5
14 Apr	10	5
16 Apr	9	11
17 Apr	14	14
Weekly $\bar{x}$	10	8
19 Apr	16	11
20 Apr	12	9
22 Apr	13	12
23 Apr	13	12
Weekly $\bar{x}$	14	11
25 Apr	12	10
26 Apr	11	11
27 Apr	10	DNR***
29 Apr	11	10
30 Apr	12	11
Weekly $\bar{x}$	11	11
Monthly $\bar{x}$	11	8
2 May	12	11
3 May	12	10
4 May	11	8
6 May	11	DNR
7 May	11	11
Weekly $\bar{x}$	11	10
10 May	12	DNR
11 May	12	10
13 May	14	12
14 May	15	DNR
Weekly $\bar{x}$	13	11
18 May	13	14
19 May	10	DNR
20 May	12	DNR
21 May	13	13
Weekly $\bar{x}$	12	14
24 May	14	11
25 May	13	12
26 May	12	12
27 May	14	DNR
28 May	16	14
Weekly $\bar{x}$	14	12
31 May	15	17
Monthly $\bar{x}$	13	12

* Sampling not begun until 12 April.
** Based on Sunday through Saturday.
*** DNR = data not recorded.

Table 17 - (Continued).

Date	Station SR 33	Station Lower B-G 34
1 Jun	15	13
2 Jun	15	DNR
5 Jun	18	16
Weekly $\bar{x}$	16	15
6 Jun	16	17
7 Jun	15	15
8 Jun	20	15
11 Jun	22	DNR
Weekly $\bar{x}$	18	16
13 Jun	18	DNR
14 Jun	20	18
15 Jun	20	18
16 Jun	19	18
17 Jun	20	18
Weekly $\bar{x}$	19	18
21 Jun	22	21
22 Jun	22	20
23 Jun	23	21
25 Jun	23	21
Weekly $\bar{x}$	23	21
28 Jun	23	21
29 Jun	24	22
Monthly $\bar{x}$	20	18
1 Jul	23	22
2 Jul	21	22
Weekly $\bar{x}$	23	22
6 Jul	27	23
7 Jul	23	22
9 Jul	23	23
Weekly $\bar{x}$	24	23
12 Jul	22	22
13 Jul	20	21
15 Jul	20	22
16 Jul	22	22
Weekly $\bar{x}$	21	22
19 Jul	22	22
20 Jul	22	22
22 Jul	22	22
23 Jul	21	22
Weekly $\bar{x}$	22	22
26 Jul	21	22
27 Jul	21	22
29 Jul	21	21
30 Jul	21	22
Weekly $\bar{x}$	21	22
Monthly $\bar{x}$	22	22
3 Aug	20	21
4 Aug	21	22
5 Aug	21	22
6 Aug	21	22
Weekly $\bar{x}$	21	22
9 Aug	21	22
10 Aug	20	21
12 Aug	20	21
13 Aug	22	22
Weekly $\bar{x}$	21	22

Table 17 - (Continued).

Date	Station SR 33	Station Lower B-G 34
16 Aug	21	20
17 Aug	20	21
19 Aug	21	22
20 Aug	24	22
Weekly $\bar{x}$	22	21
23 Aug	24	22
24 Aug	23	23
26 Aug	22	23
27 Aug	22	22
Weekly $\bar{x}$	23	23
30 Aug	22	22
Monthly $\bar{x}$	21	22
1 Sep	21	21
2 Sep	19	20
3 Sep	20	21
Weekly $\bar{x}$	20	21
7 Sep	20	20
9 Sep	21	21
10 Sep	18	20
Weekly $\bar{x}$	20	20
13 Sep	21	20
14 Sep	20	20
16 Sep	19	20
17 Sep	20	20
Weekly $\bar{x}$	20	20
21 Sep	19	20
22 Sep	12	19
Weekly $\bar{x}$	16	20
28 Sep	15	18
29 Sep	16	18
30 Sep	16	17
Weekly $\bar{x}$	16	18
Monthly $\bar{x}$	18	20
4 Oct	17	17
5 Oct	15	17
6 Oct	15	17
7 Oct	16	17
Weekly $\bar{x}$	16	17
10 Oct	13	15
12 Oct	15	15
13 Oct	13	15
14 Oct	12	13
Weekly $\bar{x}$	13	15
18 Oct	11	13
19 Oct	11	12
20 Oct	10	12
21 Oct	10	12
Weekly $\bar{x}$	11	12
25 Oct	9	12
26 Oct	9	10
27 Oct	9	10
28 Oct	9	10
Weekly $\bar{x}$	9	11
Monthly $\bar{x}$	12	14
2 Nov	8	9
3 Nov	8	8
4 Nov	8	9
Weekly $\bar{x}$	8	9

Table 17 - (Continued).

Date	Station SR 33	Station Lower B-G 34
8 Nov	7	7
9 Nov	5	6
11 Nov	7	6
Weekly $\bar{x}$	6	6
15 Nov	6	5
16 Nov	6	5
17 Nov	6	5
18 Nov	5	5
Weekly $\bar{x}$	6	5
22 Nov	4	5
23 Nov	4	5
Weekly $\bar{x}$	4	5
30 Nov	4	4
Monthly $\bar{x}$	6	6
1 Dec	4	4
2 Dec	5	5
Weekly $\bar{x}$	4	4
6 Dec	4	3
7 Dec	4	2
8 Dec	2	2
9 Dec	1	1
Weekly $\bar{x}$	3	2
13 Dec	1	1
14 Dec	2	2
15 Dec	2	2
16 Dec	2	1
Weekly $\bar{x}$	2	2
20 Dec	2	2
22 Dec	3	0
23 Dec	3	2
Weekly $\bar{x}$	3	1
27 Dec	2	1
28 Dec	2	2
29 Dec	1	0
30 Dec	1	2
Weekly $\bar{x}$	2	1
Monthly $\bar{x}$	2	2
Grand $\bar{x}$	14	13
Standard Deviation	6.8	7.3
Minimum	1	0
Maximum	27	23

Table 18. Summary of turbidity data (nephelometer turbidity units) taken from 6 January through 30 December 1976 in Esopus Creek, the Shandaken Tunnel intake, and the Shandaken Tunnel outlet.

Date	Station 21	32*	20	19	31
6 Jan	ICE**	-	ICE	7.1	ICE
19 Jan	ICE	-	ICE	ICE	ICE
$\bar{x}_{TC}$***	-	-	-	-	-
S.D.	-	-	-	-	-
Minimum	-	-	-	-	-
Maximum	-	-	-	-	-
n (days)	-	-	-	-	-
$\bar{x}_{TO}$#	-	-	-	7.1	-
S.D.	-	-	-	-	-
Minimum	-	-	-	7.1	-
Maximum	-	-	-	7.1	-
n	-	-	-	1	-
$\bar{x}$	-	-	-	7.1	-
S.D.	-	-	-	-	-
10 Feb	ICE	-	TC##	ICE	ICE
17 Feb	12	-	TC	13	24
$\bar{x}_{TC}$	12	-	-	13	24
S.D.	-	-	-	-	-
Minimum	12	-	-	13	24
Maximum	12	-	-	13	24
n	1	-	-	1	1
$\bar{x}_{TO}$	-	-	-	-	-
S.D.	-	-	-	-	-
Minimum	-	-	-	-	-
Maximum	-	-	-	-	-
n	-	-	-	-	-
$\bar{x}$	12	-	-	13	24
S.D.	-	-	-	-	-
10 Mar	3.3	TC	TC	2.0	2.8
26 Mar	2.0	19	15	6.3	DNR###
30 Mar	2.7	15	4.3	5.5	6.6
$\bar{x}_{TC}$	3.3	-	-	2.0	2.8
S.D.	-	-	-	-	-
Minimum	3.3	-	-	2.0	2.8
Maximum	3.3	-	-	2.0	2.8
n	1	-	-	1	1
$\bar{x}_{TO}$	2.4	17	9.7	5.9	6.6
S.D.	0.49	2.8	7.57	0.57	-
Minimum	2.0	15	4.3	5.5	6.6
Maximum	2.7	19	15	6.3	6.6
n	2	2	2	2	1
$\bar{x}$	2.7	17	9.7	4.6	4.7
S.D.	0.65	2.8	7.57	2.29	2.69
1 Apr	35	TC	TC	22	44
2 Apr	5.0	TC	TC	5.9	6.8
3 Apr	3.8	TC	TC	3.1	5.5
Weekly $\bar{x}$@	15	-	-	10	19

* First sampled 10 March 1976.
** ICE = no samples taken because of ice cover.
*** Data determined when Shandaken Tunnel closed.
\# Data determined when Shandaken Tunnel open.
TC = Shandaken Tunnel closed.
DNR = data not recorded.
@ Based on Sunday through Saturday.
@@ TNO = Shandaken Tunnel not open at time of sampling.
@@@ ND = Shandaken Tunnel open but not yet discharging.

Table 18 - (Continued).

Date	Station 21	32	20	19	31
4 Apr	3.0	TC	TC	2.5	3.0
5 Apr	2.2	TC	TC	1.6	2.0
6 Apr	3.0	TC	TC	3.5	4.4
9 Apr	3.3	TC	TC	1.6	3.3
Weekly $\bar{x}$	2.9	-	-	2.3	3.2
12 Apr	1.8	TC	TC	1.4	2.2
13 Apr	1.7	TC	TC	1.6	2.1
14 Apr	1.2	TC	TC	1.3	2.0
16 Apr	3.9	18	7.4	5.5	9.2
17 Apr	2.3	14	5.6	5.6	6.1
Weekly $\bar{x}$	2.2	16	6.5	3.1	4.3
19 Apr	2.1	18	5.9	5.0	5.2
20 Apr	3.0	12	6.0	4.0	5.0
22 Apr	1.9	16	5.7	3.6	4.1
23 Apr	1.7	13	4.9	3.3	4.0
Weekly $\bar{x}$	2.2	15	5.6	4.0	4.6
25 Apr	2.3	7.7	4.2	3.6	5.2
26 Apr	4.6	12	5.5	7.0	6.7
27 Apr	5.7	18	8.9	3.8	6.2
29 Apr	1.4	TC	TC	1.6	3.0
30 Apr	1.9	TC	TC	1.7	3.7
Weekly $\bar{x}$	3.2	13	6.2	3.5	5.0
$\bar{x}_{TC}$	5.3	-	-	4.0	6.8
S.D.	9.43	-	-	5.83	11.80
Minimum	1.2	-	-	1.3	2.0
Maximum	35	-	-	22	44
n	12	-	-	12	12
$\bar{x}_{TO}$	3.1	14	6.0	4.6	5.7
S.D.	1.38	3.5	1.38	1.25	1.58
Minimum	1.7	7.7	4.2	3.3	4.0
Maximum	5.7	18	8.9	7.0	9.2
n	9	9	9	9	9
$\bar{x}$	4.3	14	6.0	4.2	6.4
S.D.	7.13	3.5	1.38	4.40	8.82
2 May	6.5	TC	TC	8.2	9.3
3 May	4.3	TC	TC	4.5	4.8
4 May	3.2	TC	TC	2.5	5.2
6 May	2.3	TC	TC	1.9	4.2
7 May	1.7	TC	TC	2.2	3.7
Weekly $\bar{x}$	3.6	-	-	3.9	5.4
10 May	1.6	TC	TC	2.3	3.1
11 May	1.6	TC	TC	1.6	3.1
13 May	1.4	TC	TC	1.4	2.8
14 May	1.5	TC	TC	1.4	2.7
Weekly $\bar{x}$	1.5	-	-	1.7	2.9
18 May	2.8	TC	TC	2.6	7.1
19 May	4.0	TC	TC	3.6	11
20 May	4.0	TC	TC	2.8	7.0
21 May	3.9	TC	TC	2.9	6.0
Weekly $\bar{x}$	3.7	-	-	3.0	7.8
24 May	1.8	TC	TC	1.8	3.8
25 May	1.4	TC	TC	DNR	2.9
26 May	1.3	TC	TC	1.7	2.8
27 May	1.6	TC	TC	1.6	2.7
28 May	1.1	TC	TC	1.2	2.5
Weekly $\bar{x}$	1.4	-	-	1.6	2.9
31 May	1.3	TC	TC	1.3	2.5
$\bar{x}_{TC}$	2.5	-	-	2.5	4.6
S.D.	1.46	-	-	1.66	2.46
Minimum	1.1	-	-	1.2	2.5
Maximum	6.5	-	-	8.2	11
n	19	-	-	18	19

Table 18 - (Continued).

Date	Station 21	32	20	19	31
$\bar{x}_{TO}$	-	-	-	-	-
S.D.	-	-	-	-	-
Minimum	-	-	-	-	-
Maximum	-	-	-	-	-
n	-	-	-	-	-
$\bar{x}$	2.5	-	-	2.5	4.6
S.D.	1.46	-	-	1.66	2.46
1 Jun	1.4	TC	TC	2.5	3.3
2 Jun	1.8	TC	TC	1.6	4.8
5 Jun	1.0	9.2	2.8	2.1	2.5
Weekly $\bar{x}$	1.4	9.2	2.8	1.9	3.3
6 Jun	1.4	23	2.7	2.0	2.5
7 Jun	1.9	18	5.1	2.8	3.2
8 Jun	2.5	6.1	3.2	2.0	5.0
11 Jun	1.4	TNO@@	TNO	1.6	1.6
Weekly $\bar{x}$	1.8	16	3.7	2.1	3.1
13 Jun	1.0	24	2.1	2.2	1.8
14 Jun	1.4	8.2	2.6	2.0	2.7
15 Jun	1.8	8.7	1.4	2.0	2.5
16 Jun	1.4	3.4	1.9	1.5	2.1
17 Jun	1.3	5.9	2.3	1.5	2.3
Weekly $\bar{x}$	1.4	5.7	2.1	1.8	2.3
21 Jun	1.4	21	2.2	2.3	9.3
22 Jun	1.7	3.5	2.0	1.6	4.9
23 Jun	1.2	5.5	1.7	1.3	3.0
25 Jun	1.1	7.6	1.8	1.6	2.6
Weekly $\bar{x}$	1.4	9.4	1.9	1.7	5.0
28 Jun	1.1	6.9	3.6	1.5	1.9
29 Jun	1.1	5.3	2.1	2.0	2.5
$\bar{x}_{TC}$	1.5	-	-	1.9	3.2
S.D.	0.23	-	-	0.52	1.60
Minimum	1.4	-	-	1.6	1.6
Maximum	1.8	-	-	2.5	4.8
n	3	-	-	3	3
$\bar{x}_{TO}$	1.4	10	2.5	1.9	3.3
S.D.	0.41	7.2	0.93	0.39	1.92
Minimum	1.0	3.4	1.4	1.3	1.8
Maximum	2.5	2.4	5.1	2.8	9.3
n	15	15	15	15	15
$\bar{x}$	1.4	10	2.5	1.9	3.3
S.D.	0.38	7.2	0.93	0.40	1.83
1 Jul	1.8	4.9	3.3	2.7	7.7
2 Jul	1.3	8.9	2.5	2.2	4.3
Weekly $\bar{x}$	1.3	6.5	2.9	2.1	4.1
6 Jul	1.1	TC	TC	1.4	2.4
7 Jul	0.70	TC	TC	1.2	3.0
9 Jul	0.70	TC	TC	0.90	2.1
Weekly $\bar{x}$	0.83	-	-	1.2	2.5
12 Jul	1.1	TC	TC	1.2	2.0
13 Jul	0.60	TC	TC	1.0	1.7
15 Jul	1.1	4.3	2.6	1.8	2.4
16 Jul	0.68	5.1	2.7	1.7	2.0
Weekly $\bar{x}$	0.87	4.7	2.7	1.4	2.0
19 Jul	0.78	6.8	2.4	1.7	2.0
20 Jul	1.0	4.4	2.6	1.9	4.5
22 Jul	1.0	4.8	2.6	1.9	2.3
23 Jul	1.3	14	3.7	2.8	3.3
Weekly $\bar{x}$	1.0	7.5	2.8	2.1	3.0

Table 18 - (Continued).

Date	Station 21	32	20	19	31
26 Jul	0.80	6.9	2.8	1.9	2.1
27 Jul	0.64	13	2.8	2.3	2.4
29 Jul	0.73	3.2	3.0	2.5	2.7
30 Jul	0.85	4.2	2.7	1.8	2.2
Weekly $\bar{x}$	0.80	6.8	2.8	2.1	2.4
$\bar{x}_{TC}$	0.84	-	-	1.1	2.2
S.D.	0.241	-	-	0.19	0.49
Minimum	0.60	-	-	0.90	1.7
Maximum	1.1	-	-	1.4	3.0
n	5	-	-	5	5
$\bar{x}_{TO}$	1.0	6.7	2.8	2.1	3.2
S.D.	0.34	3.53	0.37	0.39	1.67
Minimum	0.64	3.2	2.4	1.7	2.0
Maximum	1.8	14	3.7	2.8	7.7
n	12	12	12	12	12
$\bar{x}$	0.95	6.7	2.8	1.8	2.9
S.D.	0.313	3.53	0.37	0.56	1.47
3 Aug	0.75	4.4	2.6	2.0	2.0
4 Aug	0.73	5.6	3.2	2.5	2.4
5 Aug	0.73	3.2	2.5	2.1	2.2
6 Aug	0.70	4.8	3.4	2.7	3.4
Weekly $\bar{x}$	0.73	4.5	2.9	2.3	2.5
9 Aug	0.73	4.5	3.3	2.5	3.3
10 Aug	4.3	112	4.6	7.8	23
12 Aug	1.5	105	120	90	70
13 Aug	1.3	78	75	61	55
Weekly $\bar{x}$	2.0	74	51	40	38
16 Aug	1.2	40	37	34	30
17 Aug	2.8	33	33	30	24
19 Aug	1.1	46	37	33	30
20 Aug	1.0	33	31	28	24
Weekly $\bar{x}$	1.5	38	35	31	27
23 Aug	1.3	37	25	23	22
24 Aug	1.1	26	22	21	19
26 Aug	1.0	26	18	18	17
27 Aug	2.2	23	19	17	15
Weekly $\bar{x}$	1.4	28	21	20	18
30 Aug	1.1	18	16	14	16
$\bar{x}_{TC}$	-	-	-	-	-
S.D.	-	-	-	-	-
Minimum	-	-	-	-	-
Maximum	-	-	-	-	-
n	-	-	-	-	-
$\bar{x}_{TO}$	1.4	35	27	23	21
S.D.	0.93	33.6	30.5	23.4	18.6
Minimum	0.70	3.2	2.5	2.0	2.0
Maximum	4.3	112	120	90	70
n	17	17	17	17	17
$\bar{x}$	1.4	35	27	23	21
S.D.	0.93	33.6	30.5	23.4	18.6
1 Sep	1.2	23	14	14	13
2 Sep	2.3	32	13	12	10
3 Sep	1.3	16	14	12	12
Weekly $\bar{x}$	1.5	22	14	13	13
7 Sep	1.3	15	12	11	8.4
9 Sep	1.3	14	12	8.9	8.3
10 Sep	1.7	14	12	10	8.9
Weekly $\bar{x}$	1.4	14	12	10	8.5

Table 18 - (Continued).

Date	Station 21	32	20	19	31
13 Sep	1.1	13	11	8.6	7.6
14 Sep	1.6	12	9.5	7.4	6.9
16 Sep	0.75	11	9.3	7.1	6.1
17 Sep	1.4	13	7.7	6.7	7.4
Weekly $\bar{x}$	1.2	12	9.4	7.5	7.0
21 Sep	1.0	14	9.3	6.3	6.7
22 Sep	0.82	TC	TC	1.8	2.3
Weekly $\bar{x}$	0.91	14	9.3	4.1	4.5
28 Sep	1.4	8.0	6.4	5.1	4.9
29 Sep	1.0	13	7.6	5.2	4.8
30 Sep	1.4	8.8	6.5	5.3	5.0
Weekly $\bar{x}$	1.3	9.9	6.8	5.2	4.9
$\bar{x}_{TC}$	0.82	-	-	1.8	2.3
S.D.	-	-	-	-	-
Minimum	0.82	-	-	1.8	2.3
Maximum	0.82	-	-	1.8	2.3
n	1	-	-	1	1
$\bar{x}_{TO}$	1.3	15	10	8.5	7.9
S.D.	0.37	6.1	2.6	2.87	2.51
Minimum	0.75	8.0	6.4	5.1	4.8
Maximum	2.3	32	14	14	13
n	14	14	14	14	14
$\bar{x}$	1.3	15	10	8.1	7.5
S.D.	0.38	6.1	2.6	3.27	2.81
4 Oct	1.3	7.5	7.2	5.0	5.3
5 Oct	1.1	7.6	6.6	5.3	4.5
6 Oct	1.0	7.7	7.0	4.8	4.3
7 Oct	0.68	8.1	6.7	5.2	4.2
Weekly $\bar{x}$	1.0	7.7	6.9	5.1	4.5
10 Oct	7.9	42	ND@@@	6.6	8.8
12 Oct	2.7	28	19	11	8.8
13 Oct	2.2	22	21	12	8.1
14 Oct	2.6	15	13	8.7	7.6
Weekly $\bar{x}$	3.9	27	18	9.6	8.3
18 Oct	1.1	7.2	6.0	4.6	4.6
19 Oct	0.80	5.8	5.5	4.1	4.2
20 Oct	1.5	5.6	4.8	3.9	4.0
21 Oct	7.8	12	7.9	7.5	13
Weekly $\bar{x}$	2.8	7.7	6.1	5.0	6.6
25 Oct	2.5	9.5	12	5.5	5.9
26 Oct	3.3	9.5	8.9	5.6	6.5
27 Oct	2.5	9.9	9.0	3.8	5.4
28 Oct	1.7	TC	TC	1.4	2.6
Weekly $\bar{x}$	2.5	9.6	10	4.1	5.1
$\bar{x}_{TC}$	4.8	-	-	4.0	5.7
S.D.	4.38	-	-	3.68	4.38
Minimum	1.7	-	-	1.4	2.6
Maximum	7.9	-	-	6.6	8.8
n	2	-	-	2	2
$\bar{x}_{TO}$	2.2	13	9.6	6.2	6.2
S.D.	1.81	10.1	4.98	2.61	2.51
Minimum	0.68	5.6	4.8	3.8	4.0
Maximum	7.8	42	21	12	13
n	14	15	14	14	14
$\bar{x}$	2.5	13	9.6	5.9	6.1
S.D.	2.21	10.1	4.98	2.72	2.60
2 Nov	2.0	8.5	6.4	3.5	3.5
3 Nov	1.5	7.8	6.6	4.1	3.4
4 Nov	3.8	7.1	6.6	4.8	6.3
Weekly $\bar{x}$	2.4	7.8	6.5	4.1	4.4

Table 18 - (Continued).

Date	Station 21	32	20	19	31
8 Nov	1.5	5.5	5.6	3.4	3.3
9 Nov	1.2	5.5	5.0	3.8	3.1
11 Nov	1.1	6.4	4.6	3.3	3.4
Weekly $\bar{x}$	1.3	5.8	5.1	3.5	3.3
15 Nov	1.0	5.1	5.0	3.2	3.5
16 Nov	0.85	6.2	4.5	3.0	2.8
17 Nov	0.60	5.9	4.6	3.0	3.0
18 Nov	0.70	5.0	3.9	3.1	2.5
Weekly $\bar{x}$	0.79	5.6	4.5	3.1	3.0
22 Nov	0.60	5.1	4.0	4.5	2.8
23 Nov	0.60	4.7	4.1	3.0	2.9
Weekly $\bar{x}$	0.60	4.9	4.1	3.8	2.9
30 Nov	0.68	6.0	3.7	2.9	2.6
$\bar{x}_{TC}$	-	-	-	-	-
S.D.	-	-	-	-	-
Minimum	-	-	-	-	-
Maximum	-	-	-	-	-
n	-	-	-	-	-
$\bar{x}_{TO}$	1.2	6.1	5.0	3.5	3.3
S.D.	0.88	1.14	1.03	0.62	0.96
Minimum	0.60	4.7	3.7	2.9	2.5
Maximum	3.8	8.5	6.6	4.8	6.3
n	13	13	13	13	13
$\bar{x}$	1.2	6.1	5.0	3.5	3.3
S.D.	0.88	1.14	1.03	0.62	0.96
1 Dec	1.2	6.2	4.7	3.3	3.3
2 Dec	1.2	5.8	3.7	2.8	3.4
Weekly $\bar{x}$	1.0	6.0	4.0	3.0	3.1
6 Dec	1.3	4.5	4.2	3.1	2.6
7 Dec	20	4.8	3.8	21	30
8 Dec	4.1	8.5	4.7	4.1	6.0
9 Dec	2.8	14	15	6.8	5.8
Weekly $\bar{x}$	7.1	8.0	6.9	8.8	11
13 Dec	2.0	9.4	9.2	6.0	4.8
14 Dec	5.0	12	12	6.7	5.6
15 Dec	3.0	11	11	6.7	4.9
16 Dec	1.4	9.8	7.8	5.6	4.2
Weekly $\bar{x}$	2.9	11	10	6.3	4.9
20 Dec	1.4	10	9.0	5.0	4.4
22 Dec	1.1	11	7.5	5.3	4.5
23 Dec	1.3	9.0	7.6	5.1	4.3
Weekly $\bar{x}$	1.3	9.3	8.0	5.1	4.4
27 Dec	1.2	7.8	7.6	5.1	4.6
28 Dec	1.3	7.5	6.7	5.0	4.7
29 Dec	1.5	7.6	6.4	5.2	4.2
30 Dec	1.2	7.0	6.4	4.9	4.2
Weekly $\bar{x}$	1.3	7.5	6.8	5.1	4.4
$\bar{x}_{TC}$	-	-	-	-	-
S.D.	-	-	-	-	-
Minimum	-	-	-	-	-
Maximum	-	-	-	-	-
n	-	-	-	-	-
$\bar{x}_{TO}$	1.9	8.6	7.5	6.0	6.0
S.D.	1.14	2.58	3.08	4.05	6.25
Minimum	1.1	4.5	3.7	2.8	2.6
Maximum	5.0	14	15	21	30
n	17	17	17	17	17
$\bar{x}$	1.9	8.6	7.5	6.0	6.0
S.D.	1.14	2.58	3.08	4.05	6.25

Table 18 - (Continued).

Date	Station 21	32	20	19	31
Grand $\bar{x}_{TC}$	3.3	-	-	3.0	5.2
S.D.	5.27	-	-	3.70	7.04
Minimum	0.60	-	-	0.90	1.6
Maximum	35	-	-	22	44
n	44	-	-	43	44
Grand $\bar{x}_{TO}$	1.7	14	9.5	7.5	7.6
S.D.	1.12	16.6	14.10	11.16	9.70
Minimum	0.60	2.4	1.4	1.3	1.8
Maximum	7.8	112	120	90	70
n	113	114	113	114	112
Grand $\bar{x}$	2.1	14	9.5	6.3	6.9
S.D.	3.04	16.6	14.10	10.01	9.04

Table 19. Summary of alkalinity data (mg/l) taken from 6 January through 1 December 1976 in Esopus Creek and the Shandaken Tunnel outlet.

Date	Station 21	20	19	31
6 Jan	ICE*	ICE	10	ICE
10 Feb	ICE	TC**	ICE	ICE
10 Mar	10	TC	10	10
6 Apr	10	TC	10	10
11 May	10	TC	10	10
2 Jun	11.2	TC	11.7	12.2
13 Jul	19.2	TC	18.5	16.1
10 Aug	14.6	18.5	17.8	14.2
14 Sep	17.1	20.3	18.5	19.0
13 Oct	10.2	17.6	19.0	13.7
3 Nov#	10	15	15	10
1 Dec	10.2	15.6	14.6	14.2
Mean	12.3	17.4	14.1	12.9
S.D.	3.45	2.16	3.88	3.08
Minimum	10	15	10	10
Maximum	19.2	20.3	19.0	19.0

* ICE = no samples taken because of ice cover.
** TC = Shandaken Tunnel closed.
\# 3 November determinations by Hach DR-EL because of broken pH electrode.

Table 20. Summary of total hardness and calcium hardness data (mg/l) taken from 6 January through 1 December 1976 in Esopus Creek and the Shandaken Tunnel outlet.

Date	Station 21 Total Hardness	Station 21 Calcium Hardness	Station 20 Total Hardness	Station 20 Calcium Hardness	Station 19 Total Hardness	Station 19 Calcium Hardness	Station 31 Total Hardness	Station 31 Calcium Hardness
6 Jan	ICE*	ICE	ICE	ICE	15	10	ICE	ICE
10 Feb	ICE	ICE	TC**	TC	ICE	ICE	ICE	ICE
10 Mar	15	10	TC	TC	15	10	15	10
6 Apr	15	10	TC	TC	15	10	15	15
11 May	15	10	TC	TC	15	10	15	10
2 Jun	28.3	13.2	TC	TC	30.3	14.0	27.6	24.4
13 Jul	28.3	14.6	TC	TC	31.8	17.1	42.7	17.1
10 Aug	19.4	15.7	21.7	16.7	23.3	16.9	19.0	17.5
14 Sep	21.3	17.5	23.9	17.9	22.5	18.4	21.9	18.6
13 Oct	16.7	12.8	21.7	17.8	19.8	14.0	23.7	17.1
3 Nov	14.0	10.5	20.2	15.5	17.8	13.2	17.5	12.4
1 Dec	17.8	12.0	20.6	15.5	19.4	15.5	19.8	15.1
Mean	19.1	12.6	21.6	16.7	20.4	13.6	21.7	15.7
S.D.	5.36	2.65	1.44	1.18	6.05	3.20	8.45	4.32
Minimum	14.0	10	20.2	15.5	15	10	15	10
Maximum	28.3	17.5	23.9	17.9	31.8	18.4	42.7	24.4

* ICE = no samples taken because of ice cover.
** TC = Shandaken Tunnel closed.

Table 21. Summary of hydrogen ion data (pH) taken from 6 January through 1 December 1976 in Esopus Creek and the Shandaken Tunnel outlet.

Date	Station			
	21	20	19	31
6 Jan	ICE*	ICE	8.0	ICE
10 Feb	ICE	TC**	ICE	ICE
10 Mar	7.1	TC	7.0	6.8
6 Apr	7.1	TC	7.1	7.1
11 May	7.4	TC	7.4	7.4
2 Jun	7.1	TC	7.2	7.2
13 Jul	7.6	TC	7.6	7.4
10 Aug	6.9	6.1	7.0	6.7
14 Sep	8.1	7.4	7.4	7.4
13 Oct	7.6	7.4	7.5	7.5
3 Nov#	6.7	6.9	6.7	6.7
1 Dec	7.0	7.0	7.6	7.2
Mean	7.1	7.3	7.1	7.3
S.D.	0.32	0.33	0.64	0.40
Minimum	6.7	6.9	6.1	6.7
Maximum	7.6	8.0	7.6	8.1

* ICE = no samples taken because of ice cover.
** TC = Shandaken Tunnel closed.
\# 3 November determinations by Hach DR-EL because of broken pH electrode.

Table 22. Summary of air temperature data (C) taken from 6 January through 30 December 1976 in Esopus Creek and the Shandaken Tunnel outlet.

Date	Station 21	Station 20	Station 19	Station 31
6 Jan	ICE*	ICE	-9	ICE
19 Jan	ICE	TC**	ICE	ICE
10 Feb	ICE	TC	ICE	ICE
17 Feb	10	TC	10	5
10 Mar	0	TC	0	0
26 Mar	15	15	15	15
30 Mar	17	17	18	16
1 Apr	8	TC	8	8
2 Apr	11	TC	12	11
3 Apr	11	TC	11	11
4 Apr	10	TC	10	10
5 Apr	14	TC	13	13
6 Apr	15	TC	14	16
9 Apr	10	TC	9	9
12 Apr	3	TC	1	-1
13 Apr	13	TC	14	12
14 Apr	17	TC	17	18
16 Apr	25	24	24	18
17 Apr	24	24	24	23
19 Apr	31	31	31	29
20 Apr	26	27	26	26
22 Apr	16	16	14	15
23 Apr	16	16	18	16
25 Apr	10	10	9	10
26 Apr	7	8	8	8
27 Apr	5	5	6	6
29 Apr	14	TC	14	14
30 Apr	17	TC	19	18
2 May	19	TC	19	20
3 May	10	TC	9	8
4 May	9	TC	12	11
6 May	25	TC	24	24
7 May	15	TC	16	12
10 May	19	TC	20	20
11 May	21	TC	19	21
13 May	15	TC	19	17
14 May	25	TC	25	24
18 May	10	TC	10	13
19 May	6	TC	6	5
20 May	9	TC	10	12
21 May	14	TC	17	18
24 May	21	TC	19	18
25 May	12	TC	13	11
26 May	18	TC	18	16
27 May	20	TC	21	20
28 May	19	TC	24	18
31 May	25	TC	25	25

* ICE = no samples taken because of ice cover.
** TC = Shandaken Tunnel closed.
\# TNO = Shandaken Tunnel not open at time of sampling.
\#\# ND = Shandaken Tunnel open but not yet discharging.

Table 22 - (Continued).

Date	Station 21	20	19	31
1 Jun	20	TC	20	20
2 Jun	18	TC	18	17
5 Jun	20	20	20	19
6 Jun	22	22	22	22
7 Jun	18	19	19	18
8 Jun	23	24	25	25
11 Jun	28	TNO#	28	27
13 Jun	23	23	23	22
14 Jun	22	20	22	20
15 Jun	28	26	27	27
16 Jun	26	28	28	26
17 Jun	23	23	25	25
21 Jun	20	20	20	21
22 Jun	23	24	24	26
23 Jun	27	23	23	22
25 Jun	25	27	25	24
28 Jun	26	29	26	26
29 Jun	27	28	25	25
1 Jul	22	24	22	23
2 Jul	21	21	19	19
6 Jul	26	TC	25	25
7 Jul	21	TC	20	20
9 Jul	21	TC	21	21
12 Jul	21	TC	20	21
13 Jul	17	TC	16	17
15 Jul	22	21	20	19
16 Jul	22	22	22	23
19 Jul	26	25	24	25
20 Jul	27	26	26	26
22 Jul	24	23	23	23
23 Jul	17	18	16	20
26 Jul	23	23	22	21
27 Jul	23	22	23	23
29 Jul	17	17	17	17
30 Jul	22	22	20	20
3 Aug	20	19	18	19
4 Aug	20	20	20	20
5 Aug	22	22	22	22
6 Aug	23	23	22	22
9 Aug	21	21	21	20
10 Aug	19	21	21	21
12 Aug	22	22	22	23
13 Aug	26	26	26	25
16 Aug	19	19	19	19
17 Aug	22	24	22	21
19 Aug	22	23	21	20
20 Aug	26	26	26	26
23 Aug	25	20	25	28
24 Aug	25	24	21	20
26 Aug	25	27	22	22
27 Aug	21	22	20	20
30 Aug	16	15	16	16
1 Sep	22	22	22	22
2 Sep	15	16	17	18
3 Sep	18	20	18	18
7 Sep	19	19	21	20
9 Sep	22	24	22	21
10 Sep	17	18	18	18
13 Sep	27	28	28	27
14 Sep	23	25	22	22
16 Sep	19	19	19	19
17 Sep	22	22	22	22
21 Sep	15	15	16	16
22 Sep	13	TC	15	15
28 Sep	13	12	11	11
29 Sep	16	17	16	16
30 Sep	15	16	15	15

Table 22 - (Continued).

Date	Station 21	20	19	31
4 Oct	16	16	16	16
5 Oct	20	19	20	20
6 Oct	17	17	17	17
7 Oct	19	21	19	20
10 Oct	10	ND##	11	12
12 Oct	10	13	13	12
13 Oct	19	19	18	18
14 Oct	9	11	11	11
18 Oct	6	6	6	6
19 Oct	5	6	6	4
20 Oct	7	7	7	7
21 Oct	10	11	10	10
25 Oct	9	9	9	9
26 Oct	5	6	6	7
27 Oct	7	7	7	3
28 Oct	2	TC	3	2
2 Nov	5	6	5	5
3 Nov	7	6	6	7
4 Nov	9	10	10	12
8 Nov	0	0	0	1
9 Nov	-1	-1	-1	-1
11 Nov	4	6	5	5
15 Nov	5	6	5	6
16 Nov	5	5	5	5
17 Nov	5	5	5	5
18 Nov	4	6	7	5
22 Nov	2	5	2	2
23 Nov	3	3	2	2
30 Nov	-4	-4	-4	-4
1 Dec	-4	-4	-4	-4
2 Dec	0	1	0	1
6 Dec	-1	-1	-1	-1
7 Dec	3	3	3	3
8 Dec	-5	-5	-5	-5
9 Dec	-6	-5	-4	-3
13 Dec	-11	-10	-10	-9
14 Dec	-2	-2	-2	-2
15 Dec	5	5	5	9
16 Dec	3	2	5	3
20 Dec	7	7	7	7
22 Dec	-5	-3	-3	-2
23 Dec	0	0	0	0
27 Dec	-9	-11	-7	-9
28 Dec	-8	-8	-7	-6
29 Dec	1	0	0	1
30 Dec	-7	-7	-7	-7
Minimum	-11	-11	-10	-9
Maximum	31	31	31	29

Table 23. Summary of water temperature data (C) taken from 6 January through 30 December 1976 in Esopus Creek, the Shandaken Tunnel intake, and the Shandaken Tunnel outlet.

Date	Station 21	32*	20	19	31
6 Jan	ICE**	–	ICE	1	ICE
19 Jan	ICE	–	ICE	ICE	ICE
$\bar{x}_{TC}$***	–	–	–	–	–
S.D.	–	–	–	–	–
Minimum	–	–	–	–	–
Maximum	–	–	–	–	–
n (days)	–	–	–	–	–
$\bar{x}_{TO}$#	–	–	–	1	–
S.D.	–	–	–	–	–
Minimum	–	–	–	1	–
Maximum	–	–	–	1	–
n	–	–	–	1	–
$\bar{x}$	–	–	–	1	–
S.D.	–	–	–	–	–
10 Feb	ICE	–	TC##	ICE	ICE
17 Feb	3	–	TC	3	3
$\bar{x}_{TC}$	3	–	–	3	3
S.D.	–	–	–	–	–
Minimum	3	–	–	3	3
Maximum	3	–	–	3	3
n	1	–	–	1	1
$\bar{x}_{TO}$	–	–	–	–	–
S.D.	–	–	–	–	–
Minimum	–	–	–	–	–
Maximum	–	–	–	–	–
n	–	–	–	–	–
$\bar{x}$	3	–	–	3	3
S.D.	–	–	–	–	–
10 Mar	2	TC	TC	0	0
26 Mar	7	4	7	7	6
30 Mar	11	6	9	9	9
$\bar{x}_{TC}$	2	–	–	0	0
S.D.	–	–	–	–	–
Minimum	2	–	–	0	0
Maximum	2	–	–	0	0
n	1	–	–	1	1
$\bar{x}_{TO}$	9	5	8	8	8
S.D.	2.8	1.4	1.4	1.4	2.1
Minimum	7	4	7	7	6
Maximum	11	6	9	9	9
n	2	2	2	2	2
$\bar{x}$	7	5	8	5	5
S.D.	4.5	1.4	1.4	4.7	4.6
1 Apr	6	TC	TC	6	7
2 Apr	5	TC	TC	5	5
3 Apr	5	TC	TC	5	5
Weekly $\bar{x}$###	5	–	–	5	6

* First sampled 10 March 1976.
** ICE = no samples taken because of ice cover.
*** Data determined when Shandaken Tunnel closed.
# Data determined when Shandaken Tunnel open.
TC = Shandaken Tunnel closed.
Based on Sunday through Saturday.
@ TNO = Shandaken Tunnel not open at time of sampling.
@@ ND = Shandaken Tunnel open but not yet discharging.

Table 23 - (Continued).

Date	Station 21	32	20	19	31
4 Apr	5	TC	TC	5	5
5 Apr	6	TC	TC	6	6
6 Apr	8	TC	TC	7	6
9 Apr	8	TC	TC	8	8
Weekly $\bar{x}$	7	-	-	7	6
12 Apr	5	TC	TC	5	3
13 Apr	9	TC	TC	8	6
14 Apr	9	TC	TC	9	10
16 Apr	12	8	7	10	10
17 Apr	13	8	6	8	11
Weekly $\bar{x}$	10	8	7	8	8
19 Apr	16	8	8	11	11
20 Apr	16	9	7	12	13
22 Apr	12	8	7	10	11
23 Apr	15	8	7	13	11
Weekly $\bar{x}$	15	8	7	12	12
25 Apr	8	8	6	7	7
26 Apr	8	8	7	13	12
27 Apr	6	8	6	7	7
29 Apr	8	TC	TC	8	8
30 Apr	10	TC	TC	11	9
Weekly $\bar{x}$	8	8	6	9	9
$\bar{x}_{TC}$	7	-	-	7	7
S.D.	1.9	-	-	1.9	2.0
Minimum	5	-	-	5	3
Maximum	10	-	-	11	10
n	12	-	-	12	11
$\bar{x}_{TO}$	12	8	7	10	10
S.D.	3.7	0.3	0.7	2.4	2.1
Minimum	6	8	6	7	7
Maximum	16	9	8	13	13
n	9	9	9	9	9
$\bar{x}$	9	8	7	8	8
S.D.	3.6	0.3	0.7	2.6	2.8
2 May	10	TC	TC	10	10
3 May	8	TC	TC	8	8
4 May	9	TC	TC	9	8
6 May	12	TC	TC	12	10
7 May	11	TC	TC	11	10
Weekly $\bar{x}$	10	-	-	10	9
10 May	13	TC	TC	12	11
11 May	13	TC	TC	13	13
13 May	11	TC	TC	12	11
14 May	15	TC	TC	15	13
Weekly $\bar{x}$	13	-	-	13	12
18 May	12	TC	TC	13	15
19 May	8	TC	TC	7	7
20 May	8	TC	TC	8	8
21 May	10	TC	TC	10	10
Weekly $\bar{x}$	10	-	-	10	10
24 May	12	TC	TC	12	11
25 May	9	TC	TC	10	9
26 May	10	TC	TC	10	10
27 May	13	TC	TC	12	12
28 May	14	TC	TC	13	12
Weekly $\bar{x}$	12	-	-	11	11
31 May	15	TC	TC	15	15

Table 23 - (Continued).

Date	Station 21	32	20	19	31
$\bar{x}_{TC}$	11	-	-	11	11
S.D.	2.3	-	-	2.2	3.0
Minimum	8	-	-	7	7
Maximum	15	-	-	15	15
n	19	-	-	19	19
$\bar{x}_{TO}$	-	-	-	-	-
S.D.	-	-	-	-	-
Minimum	-	-	-	-	-
Maximum	-	-	-	-	-
n	-	-	-	-	-
$\bar{x}$	11	-	-	11	11
S.D.	2.3	-	-	2.2	2.3
1 Jun	12	TC	TC	13	13
2 Jun	16	TC	TC	14	14
5 Jun	14	11	9	11	13
Weekly $\bar{x}$	14	11	9	13	14
6 Jun	13	11	9	11	12
7 Jun	14	9	9	10	11
8 Jun	16	9	9	14	14
11 Jun	18	TNO@	TNO	18	19
Weekly $\bar{x}$	15	10	9	13	14
13 Jun	17	12	9	13	14
14 Jun	18	10	9	13	15
15 Jun	23	11	9	15	17
16 Jun	18	9	9	16	21
17 Jun	20	10	9	13	15
Weekly $\bar{x}$	19	10	9	14	16
21 Jun	18	10	9	14	14
22 Jun	20	10	9	14	17
23 Jun	18	10	9	15	16
25 Jun	20	11	8	13	15
Weekly $\bar{x}$	19	10	9	14	16
28 Jun	22	11	9	15	16
29 Jun	22	10	9	15	16
$\bar{x}_{TC}$	15	-	-	15	15
S.D.	3.1	-	-	2.6	3.2
Minimum	12	-	-	13	13
Maximum	18	-	-	18	19
n	3	-	-	3	3
$\bar{x}_{TO}$	18	10	9	14	15
S.D.	3.1	0.9	0.3	1.7	2.4
Minimum	13	9	8	11	11
Maximum	23	12	9	16	21
n	15	15	15	15	15
$\bar{x}$	18	10	9	14	15
S.D.	3.2	0.9	0.3	1.9	2.4
1 Jul	21	11	9	17	17
2 Jul	19	9	9	15	14
Weekly $\bar{x}$	21	10	9	16	16
6 Jul	21	TC	TC	19	17
7 Jul	18	TC	TC	18	18
9 Jul	21	TC	TC	19	18
Weekly $\bar{x}$	20	-	-	19	18

Table 23 - (Continued).

Date	Station 21	32	20	19	31
12 Jul	20	TC	TC	21	19
13 Jul	16	TC	TC	17	16
15 Jul	20	10	8	14	14
16 Jul	18	10	8	14	15
Weekly $\bar{x}$	19	10	8	17	16
19 Jul	22	10	9	15	15
20 Jul	22	10	10	14	15
22 Jul	22	11	9	15	16
23 Jul	19	11	10	11	12
Weekly $\bar{x}$	21	11	10	14	15
26 Jul	20	12	11	13	14
27 Jul	19	12	11	12	13
29 Jul	16	12	12	12	12
30 Jul	19	13	12	13	14
Weekly $\bar{x}$	19	12	12	13	13
$\bar{x}_{TC}$	19	-	-	19	18
S.D.	2.2	-	-	1.5	1.1
Minimum	16	-	-	17	16
Maximum	21	-	-	21	19
n	5	-	-	5	5
$\bar{x}_{TO}$	20	11	10	14	14
S.D.	1.8	1.2	1.4	1.7	1.5
Minimum	16	9	8	11	12
Maximum	22	13	12	17	17
n	12	12	12	12	12
$\bar{x}$	20	11	10	15	15
S.D.	1.9	1.2	1.4	2.8	2.1
3 Aug	20	13	13	14	14
4 Aug	22	15	14	16	17
5 Aug	21	15	14	15	16
6 Aug	20	15	15	15	16
Weekly $\bar{x}$	21	18	14	15	16
9 Aug	18	16	15	16	17
10 Aug	18	16	17	18	17
12 Aug	17	17	16	17	17
13 Aug	22	18	17	18	18
Weekly $\bar{x}$	19	17	16	17	17
16 Aug	18	18	16	17	17
17 Aug	19	17	17	18	19
19 Aug	18	17	17	18	18
20 Aug	21	17	17	18	18
Weekly $\bar{x}$	19	17	17	18	18
23 Aug	22	18	17	19	19
24 Aug	22	18	17	18	18
26 Aug	21	18	17	18	17
27 Aug	19	18	17	18	18
Weekly $\bar{x}$	21	18	17	18	18
30 Aug	19	19	18	19	18
$\bar{x}_{TC}$	-	-	-	-	-
S.D.	-	-	-	-	-
Minimum	-	-	-	-	-
Maximum	-	-	-	-	-
n	-	-	-	-	-
$\bar{x}_{TO}$	20	17	16	17	17
S.D.	1.7	1.6	1.4	1.5	1.2
Minimum	17	13	13	14	14
Maximum	22	19	18	19	19
n	17	17	17	17	17
$\bar{x}$	20	17	16	17	17
S.D.	1.7	1.6	1.4	1.5	1.2

Table 23 - (Continued).

Date	Station 21	32	20	19	31
1 Sep	17	18	19	18	18
2 Sep	16	18	17	18	18
3 Sep	18	18	18	19	18
Weekly $\bar{x}$	18	18	18	19	18
7 Sep	16	18	17	19	19
9 Sep	20	18	18	19	20
10 Sep	16	18	17	17	18
Weekly $\bar{x}$	17	18	17	18	19
13 Sep	19	18	18	19	20
14 Sep	19	18	18	20	19
16 Sep	17	18	18	18	18
17 Sep	18	18	18	18	18
Weekly $\bar{x}$	18	18	18	19	19
21 Sep	17	18	17	19	18
22 Sep	14	TC	TC	15	14
Weekly $\bar{x}$	16	18	17	17	16
28 Sep	13	15	16	16	15
29 Sep	13	15	15	17	16
30 Sep	13	15	15	15	15
Weekly $\bar{x}$	13	15	15	16	15
$\bar{x}_{TC}$	14	-	-	15	14
S.D.	-	-	-	-	-
Minimum	-	-	-	-	-
Maximum	14	-	-	15	14
n	1	-	-	1	1
$\bar{x}_{TO}$	17	17	17	18	18
S.D.	2.3	1.3	1.2	1.4	1.6
Minimum	13	15	15	15	15
Maximum	20	18	19	20	20
n	14	14	14	14	14
$\bar{x}$	16	17	17	18	18
S.D.	2.3	1.3	1.2	1.4	1.8
4 Oct	15	15	15	17	16
5 Oct	15	15	15	16	16
6 Oct	15	15	15	15	16
7 Oct	16	15	15	15	16
Weekly $\bar{x}$	15	15	15	16	16
10 Oct	10	13	ND@@	11	11
12 Oct	9	12	12	11	10
13 Oct	10	12	12	13	11
14 Oct	10	12	12	11	11
Weekly $\bar{x}$	10	12	12	12	11
18 Oct	7	11	10	10	9
19 Oct	6	10	10	9	8
20 Oct	8	10	10	9	9
21 Oct	8	10	9	9	9
Weekly $\bar{x}$	7	10	10	9	9
25 Oct	9	9	9	9	9
26 Oct	7	9	9	8	8
27 Oct	5	8	8	7	6
28 Oct	5	TC	TC	6	5
Weekly $\bar{x}$	7	9	9	8	7
$\bar{x}_{TC}$	8	-	-	9	8
S.D.	3.5	-	-	3.5	4.2
Minimum	5	-	-	6	5
Maximum	10	-	-	11	11
n	2	-	-	2	2

Table 23 - (Continued).

Date	Station 21	32	20	19	31
$\bar{x}_{TO}$	10	12	12	11	11
S.D.	3.7	2.4	2.6	3.2	3.5
Minimum	5	8	8	7	6
Maximum	16	15	15	17	16
n	14	15	14	14	14
$\bar{x}$	10	12	12	11	11
S.D.	3.7	2.4	2.6	3.3	3.6
2 Nov	5	8	6	6	6
3 Nov	6	7	7	7	7
4 Nov	7	7	7	7	8
Weekly $\bar{x}$	6	7	7	7	7
8 Nov	5	7	6	6	6
9 Nov	3	7	5	5	5
11 Nov	4	6	6	5	5
Weekly $\bar{x}$	4	7	6	5	5
15 Nov	4	6	5	5	5
16 Nov	3	6	5	5	4
17 Nov	3	5	5	5	4
18 Nov	4	5	5	5	5
Weekly $\bar{x}$	4	6	5	5	5
22 Nov	2	5	4	5	4
23 Nov	3	5	5	5	4
Weekly $\bar{x}$	2	5	5	5	4
30 Nov	0	4	4	4	2
$\bar{x}_{TC}$	-	-	-	-	-
S.D.	-	-	-	-	-
Minimum	-	-	-	-	-
Maximum	-	-	-	-	-
n	-	-	-	-	-
$\bar{x}_{TO}$	4	6	5	5	5
S.D.	1.8	1.2	1.0	0.9	1.5
Minimum	0	4	4	4	2
Maximum	7	8	7	7	8
n	13	13	13	13	13
$\bar{x}$	4	6	5	5	5
S.D.	1.8	1.2	1.0	0.9	1.5
1 Dec	0	5	4	3	2
2 Dec	0	5	4	3	3
Weekly $\bar{x}$	0	5	4	3	2
6 Dec	1	4	3	2	2
7 Dec	0	4	2	0	0
8 Dec	0	4	3	1	0
9 Dec	0	3	3	1	1
Weekly $\bar{x}$	0	4	3	1	1
13 Dec	0	3	1	1	1
14 Dec	0	2	2	1	1
15 Dec	1	3	2	2	2
16 Dec	1	3	2	2	2
Weekly $\bar{x}$	1	3	2	2	2
20 Dec	2	3	2	2	2
22 Dec	0	3	2	0	0
23 Dec	1	3	2	2	2
Weekly $\bar{x}$	1	3	2	1	1
27 Dec	0	3	1	2	1
28 Dec	0	3	2	1	0
29 Dec	1	3	2	1	1
30 Dec	0	3	1	1	0
Weekly $\bar{x}$	0	3	2	1	1

Table 23 - (Continued).

Date	Stations 21	32	20	19	31
$\bar{x}_{TC}$	-	-	-	-	-
S.D.	-	-	-	-	-
Minimum	-	-	-	-	-
Maximum	-	-	-	-	-
n	-	-	-	-	-
$\bar{x}_{TO}$	0	3	2	1	1
S.D.	0.6	0.8	0.9	0.9	1.0
Minimum	0	2	1	0	0
Maximum	2	5	4	3	3
n	17	17	17	17	17
$\bar{x}$	0	3	2	1	1
S.D.	0.6	0.8	0.9	0.9	1.0
Grand $\bar{x}_{TC}$	12	-	-	11	11
S.D.	6.8	-	-	6.8	6.7
Minimum	3	-	-	0	0
Maximum	21	-	-	21	19
n	44	-	-	44	44
Grand $\bar{x}_{TO}$	13	12	11	12	12
S.D.	12.1	10.8	11.0	11.3	11.3
Minimum	0	2	1	0	0
Maximum	23	19	19	20	21
n	113	114	113	114	113
Grand $\bar{x}$	13	12	11	12	12
S.D.	13.5	10.8	11.0	12.9	12.9
Minimum	0	2	1	0	0
Maximum	23	19	19	21	21
n	157	114	113	158	157

Table 24. Summary of mean daily water temperature (WT) and air temperature (AT) data (C) taken by Partlow seven-day recording thermometers from 15 June through 3 November 1976 in Esopus Creek (EC) and the Shandaken Tunnel outlet (STO).

Date		Station			
		EC 35	STO 20		EC 36*
		WT	WT	AT	WT
15 Jun	Mean	19.1	8.6	24.1	-
	Minimum	15.0	8.5	19.0	-
	Maximum	21.5	9.0	28.5	-
16 Jun	Mean	18.5	8.5	25.3	-
	Minimum	15.5	8.5	17.0	-
	Maximum	21.5	8.5	27.5	-
17 Jun	Mean	17.2	8.5	19.6	-
	Minimum	16.0	8.5	15.0	-
	Maximum	19.5	8.5	24.0	-
18 Jun	Mean	17.6	8.6	18.3	-
	Minimum	14.0	8.5	12.0	-
	Maximum	21.0	9.0	21.0	-
19 Jun	Mean	17.7	8.9	19.8	-
	Minimum	16.5	8.5	18.0	-
	Maximum	19.0	9.0	24.0	-
20 Jun	Mean	16.8	8.5	19.1	-
	Minimum	16.0	8.5	18.0	-
	Maximum	18.0	8.5	20.5	-
21 Jun	Mean	16.6	8.5	18.9	-
	Minimum	15.5	8.5	18.0	-
	Maximum	17.8	8.5	23.9	-
22 Jun	Mean	17.2	8.9	19.5	-
	Minimum	15.7	8.5	17.8	-
	Maximum	19.0	9.0	24.5	-
23 Jun	Mean	17.4	9.0	19.6	-
	Minimum	15.5	9.0	17.0	-
	Maximum	19.0	9.0	26.5	-
24 Jun	Mean	18.6	9.0	20.4	-
	Minimum	15.5	9.0	16.0	-
	Maximum	22.0	9.0	28.0	-
25 Jun	Mean	19.4	9.0	20.3	9.5
	Minimum	16.5	9.0	18.0	9.5
	Maximum	25.0	9.0	27.0	9.5
26 Jun	Mean	19.3	9.0	20.3	9.6
	Minimum	16.5	9.0	17.0	9.5
	Maximum	23.0	9.5	30.0	10.0
27 Jun	Mean	18.6	9.0	19.7	9.6
	Minimum	15.5	9.0	14.5	9.0
	Maximum	22.5	9.0	29.5	10.0
28 Jun	Mean	17.8	9.1	18.4	9.5
	Minimum	13.5	9.0	12.0	9.0
	Maximum	21.5	9.5	28.5	10.0
29 Jun	Mean	19.3	9.2	20.1	9.6
	Minimum	16.0	9.0	15.5	9.5
	Maximum	23.0	9.5	28.0	10.0
30 Jun	Mean	17.5	9.1	19.2	9.6
	Minimum	16.5	9.0	15.0	9.5
	Maximum	18.5	9.5	20.0	10.0

* Not sampled until 25 June.
** TC = Shandaken Tunnel closed.
*** Location of station 35 moved 1.6 km upstream because of tunnel backwash.
\# RM = recorder malfunction.

Table 24 - (Continued).

Date		Station EC 35 WT	STO 20 WT	STO 20 AT	EC 36 WT
1 Jul	Mean	18.2	9.0	19.9	9.7
	Minimum	15.5	9.0	14.5	9.5
	Maximum	20.0	9.0	27.0	10.5
2 Jul	Mean	16.7	9.1	20.5	9.8
	Minimum	14.5	9.0	12.5	9.5
	Maximum	19.5	9.5	24.5	10.0
3 Jul	Mean	17.0	9.0	16.7	9.7
	Minimum	13.5	9.0	10.0	9.5
	Maximum	19.5	9.5	26.0	10.0
4 Jul	Mean	16.9	9.2	17.2	9.2
	Minimum	14.5	9.0	12.5	9.0
	Maximum	20.0	9.5	25.0	10.0
5 Jul	Mean	17.9	TC**	18.9	14.1
	Minimum	14.0	-	12.0	9.0
	Maximum	22.5	-	29.0	21.0
6 Jul	Mean	18.6	TC	19.3	18.6
	Minimum	15.0	-	13.5	15.0
	Maximum	22.5	-	28.0	22.5
7 Jul	Mean	16.9	TC	17.7	16.9
	Minimum	16.0	-	15.0	16.0
	Maximum	18.5	-	22.0	19.0
8 Jul	Mean	17.0	TC	18.2	17.0
	Minimum	15.0	-	14.5	14.5
	Maximum	18.5	-	24.0	18.5
9 Jul	Mean	18.1	TC	19.1	18.1
	Minimum	15.0	-	13.5	15.0
	Maximum	22.0	-	27.5	22.0
10 Jul	Mean	18.2	TC	18.5	18.2
	Minimum	14.0	-	10.5	14.5
	Maximum	22.5	-	30.0	23.0
11 Jul	Mean	18.7	TC	20.3	18.7
	Minimum	15.5	-	13.5	16.0
	Maximum	22.5	-	29.5	23.0
12 Jul	Mean	17.7	TC	17.2	17.9
	Minimum	16.0	-	14.5	16.0
	Maximum	18.5	-	21.0	19.0
13 Jul	Mean	15.4	TC	14.8	15.3
	Minimum	14.5	-	12.5	14.5
	Maximum	16.5	-	18.0	16.0
14 Jul	Mean	15.9	11.5	17.1	15.5
	Minimum	15.0	9.0	14.5	9.5
	Maximum	17.5	13.5	22.0	18.0
15 Jul	Mean	18.2	9.0	18.0	9.3
	Minimum	14.5	9.0	12.5	9.0
	Maximum	23.0	9.0	25.5	9.5
16 Jul	Mean	16.5	9.0	16.5	9.0
	Minimum	15.5	9.0	12.5	9.0
	Maximum	17.5	9.0	20.5	9.5
17 Jul	Mean	18.3	9.3	18.0	9.3
	Minimum	15.5	9.0	13.0	9.0
	Maximum	22.0	9.5	24.5	9.5
18 Jul	Mean	17.1	9.2	18.1	9.3
	Minimum	14.0	9.0	9.5	9.0
	Maximum	20.5	9.5	25.0	9.5
19 Jul	Mean	18.7	9.2	18.4	9.3
	Minimum	14.5	9.0	12.0	9.0
	Maximum	23.0	9.5	30.0	9.5

Table 24 - (Continued).

Date		Station			
		EC 35	STO 20		EC 36
		WT	WT	AT	WT
20 Jul	Mean	17.5	9.4	15.3	9.4
	Minimum	16.0	9.0	13.5	9.0
	Maximum	20.0	9.5	18.5	9.5
21 Jul	Mean	19.2	9.2	18.5	9.4
	Minimum	18.0	9.0	16.5	9.0
	Maximum	19.5	9.5	20.5	9.5
22 Jul	Mean	19.4	9.7	18.4	9.7
	Minimum	15.5	9.0	12.5	9.0
	Maximum	23.5	10.0	26.5	10.0
23 Jul	Mean	16.4	9.9	14.6	9.8
	Minimum	16.0	9.5	12.0	9.5
	Maximum	18.0	10.5	16.0	10.5
24 Jul	Mean	18.6	10.3	20.9	10.2
	Minimum	16.0	10.0	15.5	10.0
	Maximum	22.0	11.0	27.5	11.0
25 Jul	Mean	18.0	10.7	16.4	10.4
	Minimum	14.5	10.0	12.5	10.0
	Maximum	21.5	11.0	24.5	11.0
26 Jul	Mean	17.6	10.6	16.5	10.4
	Minimum	13.5	9.5	7.5	9.5
	Maximum	22.5	12.0	29.0	12.0
27 Jul	Mean	18.0	11.3	18.2	11.0
	Minimum	15.0	11.0	12.0	11.0
	Maximum	20.0	12.0	28.0	12.0
28 Jul	Mean	18.3	12.0	20.3	11.6
	Minimum	15.5	11.5	13.5	11.5
	Maximum	21.0	12.5	29.5	12.5
29 Jul	Mean	15.5	11.9	15.6	11.3
	Minimum	16.0	11.0	14.0	11.0
	Maximum	17.5	12.5	16.5	12.5
30 Jul	Mean	17.8	11.6	18.2	11.3
	Minimum	16.0	11.0	16.5	11.0
	Maximum	18.0	12.0	20.5	12.0
31 Jul	Mean	18.9	12.6	20.2	12.2
	Minimum	16.5	12.0	16.5	12.0
	Maximum	21.5	13.0	26.0	13.0
1 Aug	Mean	17.8	12.0	17.3	11.7
	Minimum	16.5	11.5	15.0	11.5
	Maximum	19.0	12.5	20.5	12.5
2 Aug	Mean	16.8	12.6	15.4	12.4
	Minimum	13.5	11.5	9.0	11.5
	Maximum	20.0	14.0	23.5	14.0
3 Aug	Mean	16.4	13.2	15.5	12.8
	Minimum	13.0	11.5	8.0	11.5
	Maximum	19.0	15.0	27.5	15.0
4 Aug	Mean	17.7***	14.1	17.2	13.8
	Minimum	13.5	13.5	9.5	13.5
	Maximum	28.5	15.0	27.5	15.0
5 Aug	Mean	RM#	14.4	18.4	13.9
	Minimum	-	14.0	11.0	14.0
	Maximum	-	15.0	28.0	15.0
6 Aug	Mean	RM	15.1	18.9	14.6
	Minimum	-	14.5	17.0	14.5
	Maximum	-	16.0	23.5	16.0
7 Aug	Mean	13.7	15.1	15.2	14.6
	Minimum	13.5	14.5	14.5	14.5
	Maximum	15.0	15.5	16.5	15.5

Table 24 - (Continued).

Date		Station EC 35 WT	STO 20 WT	STO 20 AT	EC 36 WT
8 Aug	Mean	14.2	15.1	16.5	14.8
	Minimum	13.5	14.5	15.5	14.5
	Maximum	15.0	15.5	17.5	15.5
9 Aug	Mean	14.9	15.6	18.1	15.5
	Minimum	14.0	15.0	17.0	15.0
	Maximum	16.0	16.0	20.0	16.0
10 Aug	Mean	15.0	17.3	18.4	16.2
	Minimum	14.0	15.0	16.0	15.0
	Maximum	16.0	18.5	20.0	18.5
11 Aug	Mean	15.8	16.8	21.0	RM
	Minimum	14.0	15.5	15.0	-
	Maximum	18.0	16.5	30.5	-
12 Aug	Mean	15.8	16.4	20.3	RM
	Minimum	15.0	15.5	15.0	-
	Maximum	17.0	17.5	28.0	-
13 Aug	Mean	16.7	16.8	21.6	RM
	Minimum	15.5	16.5	18.0	-
	Maximum	19.0	17.0	31.5	-
14 Aug	Mean	16.6	RM	21.1	15.0
	Minimum	15.5	-	17.5	15.0
	Maximum	18.0	-	28.5	15.0
15 Aug	Mean	16.8	RM	21.4	15.0
	Minimum	16.0	-	19.0	14.5
	Maximum	18.0	-	28.0	15.5
16 Aug	Mean	15.2	RM	17.9	15.1
	Minimum	14.5	-	15.5	15.0
	Maximum	16.0	-	22.0	15.5
17 Aug	Mean	15.1	RM	19.6	15.4
	Minimum	13.5	-	15.5	15.0
	Maximum	17.0	-	27.5	16.0
18 Aug	Mean	15.4	RM	18.7	16.1
	Minimum	13.5	-	12.0	14.0
	Maximum	18.0	-	27.0	17.5
19 Aug	Mean	15.0	RM	18.2	RM
	Minimum	13.0	-	11.0	-
	Maximum	18.0	-	29.0	-
20 Aug	Mean	15.5	RM	20.4	RM
	Minimum	13.0	-	12.5	-
	Maximum	18.5	-	34.0	-
21 Aug	Mean	17.0	RM	24.0	RM
	Minimum	15.0	-	18.0	-
	Maximum	20.5	-	34.5	-
22 Aug	Mean	18.3	RM	24.7	RM
	Minimum	16.0	-	19.5	-
	Maximum	21.5	-	33.0	-
23 Aug	Mean	17.9	RM	23.0	RM
	Minimum	16.0	-	18.5	-
	Maximum	20.5	-	31.0	-
24 Aug	Mean	16.9	RM	18.8	RM
	Minimum	15.5	-	15.5	-
	Maximum	21.5	-	27.5	-
25 Aug	Mean	17.1	RM	18.2	RM
	Minimum	13.5	-	10.0	-
	Maximum	22.0	-	31.5	-
26 Aug	Mean	RM	RM	17.7	RM
	Minimum	-	-	11.5	-
	Maximum	-	-	25.5	-

Table 24 - (Continued).

Date		Station EC 35 WT	STO 20 WT	STO 20 AT	EC 36 WT
27 Aug	Mean	RM	RM	19.0	RM
	Minimum	-	-	16.5	-
	Maximum	-	-	22.5	-
28 Aug	Mean	RM	RM	19.8	RM
	Minimum	-	-	16.5	-
	Maximum	-	-	26.5	-
29 Aug	Mean	RM	RM	18.5	RM
	Minimum	-	-	16.5	-
	Maximum	-	-	25.0	-
30 Aug	Mean	15.8	RM	13.1	RM
	Minimum	11.5	-	8.0	-
	Maximum	19.5	-	19.5	-
31 Aug	Mean	14.0	RM	13.9	RM
	Minimum	10.5	-	9.5	-
	Maximum	19.0	-	24.5	-
1 Sep	Mean	15.0	RM	15.1	RM
	Minimum	11.0	-	7.0	-
	Maximum	19.0	-	24.5	-
2 Sep	Mean	14.8	RM	13.5	RM
	Minimum	13.0	-	9.0	-
	Maximum	16.0	-	16.5	-
3 Sep	Mean	14.2	RM	12.5	RM
	Minimum	11.0	-	7.0	-
	Maximum	19.5	-	21.0	-
4 Sep	Mean	13.8	RM	12.8	RM
	Minimum	10.5	-	6.5	-
	Maximum	19.0	-	22.0	-
5 Sep	Mean	15.7	RM	15.8	RM
	Minimum	14.0	-	13.5	-
	Maximum	19.0	-	20.5	-
6 Sep	Mean	14.0	RM	12.9	RM
	Minimum	10.5	-	8.0	-
	Maximum	19.0	-	20.0	-
7 Sep	Mean	14.2	RM	14.6	RM
	Minimum	10.0	-	9.5	-
	Maximum	20.0	-	23.0	-
8 Sep	Mean	16.8	RM	18.6	RM
	Minimum	13.0	-	12.5	-
	Maximum	22.5	-	28.5	-
9 Sep	Mean	16.3	RM	15.8	RM
	Minimum	12.5	-	10.0	-
	Maximum	22.0	-	25.0	-
10 Sep	Mean	14.5	RM	13.1	RM
	Minimum	13.5	-	11.5	-
	Maximum	16.0	-	16.5	-
11 Sep	Mean	12.6	RM	10.4	RM
	Minimum	10.5	-	6.5	-
	Maximum	15.0	-	15.0	-
12 Sep	Mean	14.2	RM	14.3	RM
	Minimum	10.5	-	8.5	-
	Maximum	20.5	-	24.5	-
13 Sep	Mean	15.5	RM	16.5	RM
	Minimum	11.5	-	9.5	-
	Maximum	22.0	-	28.0	-
14 Sep	Mean	16.0	RM	15.9	RM
	Minimum	12.0	-	10.5	-
	Maximum	21.5	-	27.0	-

Table 24 - (Continued).

Date		Station EC 35 WT	STO 20 WT	STO 20 AT	EC 36 WT
15 Sep	Mean	16.3	RM	16.3	RM
	Minimum	13.5	-	11.5	-
	Maximum	20.5	-	24.5	-
16 Sep	Mean	15.8	RM	15.3	RM
	Minimum	15.0	-	14.0	-
	Maximum	17.0	-	17.0	-
17 Sep	Mean	15.5	RM	15.9	RM
	Minimum	15.0	-	15.5	-
	Maximum	16.0	-	16.5	-
18 Sep	Mean	15.2	RM	14.8	RM
	Minimum	15.0	-	14.0	-
	Maximum	15.5	-	16.0	-
19 Sep	Mean	16.0	RM	16.4	RM
	Minimum	14.0	-	13.5	-
	Maximum	19.0	-	23.0	-
20 Sep	Mean	14.3	RM	13.5	RM
	Minimum	12.5	-	9.5	-
	Maximum	16.5	-	18.5	-
21 Sep	Mean	14.1	RM	12.4	RM
	Minimum	10.5	-	5.5	-
	Maximum	17.5	-	19.0	-
22 Sep	Mean	10.9	RM	7.9	RM
	Minimum	8.5	-	3.5	-
	Maximum	14.0	-	13.5	-
23 Sep	Mean	11.3	RM	8.1	RM
	Minimum	6.5	-	1.5	-
	Maximum	16.0	-	18.5	-
24 Sep	Mean	11.6	RM	8.0	RM
	Minimum	8.0	-	1.0	-
	Maximum	17.5	-	20.0	-
25 Sep	Mean	9.7	RM	8.5	RM
	Minimum	5.5	-	2.0	-
	Maximum	17.0	-	20.0	-
26 Sep	Mean	8.4	RM	7.0	RM
	Minimum	6.0	-	2.0	-
	Maximum	10.0	-	12.5	-
27 Sep	Mean	10.8	RM	12.9	RM
	Minimum	10.0	-	12.0	-
	Maximum	11.5	-	14.5	-
28 Sep	Mean	10.6	RM	8.8	RM
	Minimum	9.0	-	3.0	-
	Maximum	11.5	-	13.5	-
29 Sep	Mean	8.8	RM	7.7	RM
	Minimum	7.5	-	0.5	-
	Maximum	10.5	-	19.5	-
30 Sep	Mean	8.9	RM	7.9	RM
	Minimum	8.0	-	4.5	-
	Maximum	10.0	-	12.5	-
1 Oct	Mean	10.1	RM	10.3	RM
	Minimum	9.0	-	7.5	-
	Maximum	11.5	-	15.0	-
2 Oct	Mean	10.6	RM	10.4	RM
	Minimum	10.0	-	8.5	-
	Maximum	11.0	-	12.5	-
3 Oct	Mean	10.8	RM	10.6	RM
	Minimum	10.0	-	8.0	-
	Maximum	11.5	-	13.0	-

Table 24 - (Continued).

Date		Station EC 35 WT	STO 20 WT	STO 20 AT	EC 36 WT
4 Oct	Mean	10.4	RM	10.4	RM
	Minimum	8.5	-	5.0	-
	Maximum	13.0	-	19.5	-
5 Oct	Mean	10.5	RM	9.9	RM
	Minimum	8.5	-	4.5	-
	Maximum	13.0	-	18.0	-
6 Oct	Mean	12.2	RM	12.5	RM
	Minimum	10.5	-	11.0	-
	Maximum	13.5	-	15.5	-
7 Oct	Mean	13.4	RM	13.6	RM
	Minimum	11.5	-	10.0	-
	Maximum	15.0	-	17.0	-
8 Oct	Mean	13.6	RM	13.5	RM
	Minimum	13.0	-	12.5	-
	Maximum	14.0	-	15.0	-
9 Oct	Mean	12.3	RM	10.6	RM
	Minimum	10.0	-	4.5	-
	Maximum	13.5	-	17.5	-
10 Oct	Mean	8.9	RM	4.6	RM
	Minimum	8.0	-	3.0	-
	Maximum	9.5	-	8.0	-
11 Oct	Mean	7.9	RM	5.0	RM
	Minimum	7.5	-	-0.5	-
	Maximum	8.5	-	12.5	-
12 Oct	Mean	7.2	RM	4.2	RM
	Minimum	6.0	-	-2.0	-
	Maximum	8.5	-	14.5	-
13 Oct	Mean	8.4	RM	7.9	RM
	Minimum	7.0	-	0.5	-
	Maximum	10.0	-	19.0	-
14 Oct	Mean	8.2	RM	5.4	RM
	Minimum	7.0	-	3.5	-
	Maximum	9.0	-	8.0	-
15 Oct	Mean	8.2	RM	10.0	RM
	Minimum	6.5	-	0.5	-
	Maximum	9.5	-	21.0	-
16 Oct	Mean	8.1	RM	7.9	RM
	Minimum	7.0	-	3.5	-
	Maximum	9.0	-	13.0	-
17 Oct	Mean	6.6	RM	3.0	RM
	Minimum	6.0	-	0.0	-
	Maximum	7.0	-	6.5	-
18 Oct	Mean	6.0	RM	1.2	RM
	Minimum	5.0	-	-1.0	-
	Maximum	6.5	-	5.0	-
19 Oct	Mean	4.9	RM	1.0	RM
	Minimum	4.0	-	-4.0	-
	Maximum	5.5	-	8.5	-
20 Oct	Mean	5.3	RM	1.3	RM
	Minimum	5.0	-	-0.5	-
	Maximum	6.0	-	3.5	-
21 Oct	Mean	8.3	RM	4.0	RM
	Minimum	8.0	-	2.0	-
	Maximum	8.5	-	7.0	-
22 Oct	Mean	7.4	RM	2.2	RM
	Minimum	7.0	-	1.0	-
	Maximum	7.5	-	3.5	-

Table 24 - (Continued).

Date		Station EC 36 WT	STO 20 WT	STO 20 AT	EC 35 WT
23 Oct	Mean	7.0	RM	1.6	RM
	Minimum	6.5	-	-2.5	-
	Maximum	7.5	-	5.5	-
24 Oct	Mean	6.9	RM	0.4	RM
	Minimum	6.5	-	-2.5	-
	Maximum	7.5	-	3.0	-
25 Oct	Mean	8.3	RM	5.0	RM
	Minimum	7.5	-	3.0	-
	Maximum	9.0	-	7.5	-
26 Oct	Mean	7.5	RM	0.6	RM
	Minimum	6.0	-	-3.0	-
	Maximum	8.5	-	4.5	-
27 Oct	Mean	5.8	RM	-2.7	RM
	Minimum	5.0	-	-5.0	-
	Maximum	6.5	-	0.5	-
28 Oct	Mean	5.8	RM	-1.5	RM
	Minimum	5.5	-	-4.0	-
	Maximum	6.5	-	5.0	-
29 Oct	Mean	6.3	RM	2.7	RM
	Minimum	5.5	-	-2.0	-
	Maximum	7.5	-	11.0	-
30 Oct	Mean	6.7	RM	2.8	RM
	Minimum	5.5	-	-3.0	-
	Maximum	8.0	-	11.0	-
31 Oct	Mean	7.5	RM	4.5	RM
	Minimum	7.0	-	2.5	-
	Maximum	8.0	-	9.0	-
1 Nov	Mean	6.1	RM	-1.1	RM
	Minimum	5.5	-	-3.0	-
	Maximum	7.0	-	1.0	-
2 Nov	Mean	5.6	RM	0.1	RM
	Minimum	5.0	-	-5.0	-
	Maximum	6.0	-	7.5	-
3 Nov	Mean	6.4	RM	1.4	RM
	Minimum	6.0	-	0.5	-
	Maximum	6.5	-	2.5	-

Table 25. Summary of dissolved oxygen data (ppm) taken from 6 January through 15 December 1976 in Esopus Creek and the Shandaken Tunnel outlet.

Date	Station 21	Station 20	Station 19	Station 31
6 Jan	ICE*	ICE	14.3	ICE
19 Jan	ICE	ICE	ICE	ICE
$\bar{x}$	-	-	14.3	-
10 Feb	ICE	TC**	ICE	ICE
17 Feb	13.6	TC	13.9	14.0
$\bar{x}$	13.6	-	13.9	14.0
10 Mar	13.8	TC	14.5	14.6
26 Mar	12.9	15.8	12.8	12.9
30 Mar	12.0	12.3	12.9	12.5
$\bar{x}$	12.9	14.1	13.4	13.3
6 Apr	12.3	TC	13.0	13.2
13 Apr	12.3	TC	13.1	13.9
20 Apr	10.6	16.0	12.4	11.6
27 Apr	13.3	14.3	13.2	13.0
$\bar{x}$	12.1	15.2	12.9	12.9
4 May	12.0	TC	12.8	12.9
11 May	11.5	TC	11.6	13.0
18 May	10.6	TC	10.6	10.7
25 May	11.8	TC	12.0	11.8
$\bar{x}$	11.5	-	11.8	12.1
2 Jun	10.8	TC	11.5	12.0
8 Jun	11.0	14.0	12.0	11.7
15 Jun	9.0	13.0	11.0	10.5
22 Jun	9.7	13.3	11.7	10.7
29 Jun	9.2	12.9	11.6	10.8
$\bar{x}$	9.9	13.3	11.6	11.1
7 Jul	9.9	TC	10.1	10.1
13 Jul	10.1	TC	10.0	10.0
20 Jul	9.2	13.0	10.9	10.7
27 Jul	9.8	14.2	11.5	10.9
$\bar{x}$	9.8	13.6	10.6	10.4
3 Aug	9.9	13.5	11.8	11.4
10 Aug	9.8	12.6	9.9	9.8
17 Aug	10.3	9.0	9.5	9.5
24 Aug	9.6	13.1	10.3	9.8
30 Aug	10.1	12.7	9.1	8.8
$\bar{x}$	9.9	12.2	10.1	9.9
7 Sep	10.6	11.6	10.8	9.8
14 Sep	10.6	13.4	10.8	9.9
22 Sep	11.0	TC	10.7	10.9
28 Sep	10.8	12.1	10.1	10.4
$\bar{x}$	10.8	12.4	10.6	10.3
6 Oct	11.2	12.7	11.7	10.9
13 Oct	11.4	13.0	11.6	11.6
20 Oct	12.4	13.9	12.3	11.9
27 Oct	13.4	13.5	13.1	13.2
$\bar{x}$	12.1	13.3	12.2	11.9
3 Nov	12.8	13.9	12.8	12.9
15 Nov	9.2	14.6	14.0	13.0
$\bar{x}$	11.0	14.3	13.4	13.0
1 Dec	15.0	15.6	15.2	14.8
15 Dec	14.0	15.9	14.8	14.6
$\bar{x}$	14.5	15.8	15.0	14.7
Grand $\bar{x}$	11.3	13.5	12.0	11.7
S.D.	1.55	1.49	1.52	1.59
Minimum	9.0	9.0	9.1	8.8
Maximum	15.0	16.0	15.2	14.8

* ICE = no samples taken because of ice cover.
** TC = Shandaken Tunnel closed.

Table 26. Summary of turbidity data (nephelometer turbidity units) taken from 6 January through 15 December 1976 in tributaries of Schoharie Reservoir, Schoharie Creek, and a tributary of Lower B-G.

Date	Station 22	23	1	24	25	2*	MK**	4
6 Jan	ICE***	ICE	ICE	ICE	ICE	-	-	ICE
19 Jan	ICE	ICE	ICE	ICE	ICE	-	-	ICE
$\bar{x}$	-	-	-	-	-	-	-	-
10 Feb	ICE	ICE	ICE	ICE	ICE	-	-	ICE
17 Feb	ICE	130	ICE	73	68	-	-	55
$\bar{x}$	-	130	-	73	68	-	-	55
10 Mar	ICE	14	3.5	3.0	2.5	-	-	18
26 Mar	2.1	12	5.0	3.5	1.5	12	-	16
30 Mar	3.5	12	4.7	3.4	2.3	13	-	21
$\bar{x}$	2.8	13	4.4	3.3	2.1	13	-	18
6 Apr	4.3	7.2	3.3	2.8	2.1	11	-	15
13 Apr	1.4	6.8	2.4	2.5	1.0	8.9	-	12
20 Apr	4.0	9.0	4.0	6.0	2.0	7.0	-	12
27 Apr	2.4	15	7.6	7.8	3.0	5.6	-	16
$\bar{x}$	3.0	9.5	4.3	4.8	2.0	8.1	-	14
4 May	2.6	14	4.9	4.4	1.8	4.4	-	8.5
11 May	1.4	10	3.6	2.0	1.1	2.7	-	4.6
18 May	5.6	9.1	12	4.7	22	2.8	-	4.9
25 May	1.5	8.1	3.7	3.0	1.0	3.0	-	5.3
$\bar{x}$	2.8	10	6.1	3.5	6.5	3.2	-	5.8
2 Jun	1.8	9.3	5.5	3.3	1.4	2.5	-	3.5
8 Jun	3.1	8.5	4.7	4.4	1.1	1.4	-	2.0
15 Jun	1.5	5.1	3.3	5.4	2.0	1.6	-	9.2
22 Jun	2.3	7.3	3.8	5.2	1.2	1.8	-	6.3
29 Jun	6.7	16	11	12	2.0	2.7	-	2.8
$\bar{x}$	3.1	9.2	5.7	6.1	1.5	2.0	-	4.8
7 Jul	1.7	7.6	3.6	4.6	1.1	1.3	-	6.0
13 Jul	1.4	2.6	2.7	3.6	0.90	1.1	-	7.5
20 Jul	1.6	3.9	2.7	3.1	1.0	1.4	-	4.9
27 Jul	1.6	4.4	2.2	2.7	1.0	1.9	-	3.5
$\bar{x}$	1.6	4.6	2.8	3.5	1.0	1.4	-	5.5
3 Aug	1.4	3.1	2.4	2.4	0.73	1.1	-	3.2
10 Aug	350	550	600	21	18	1.8	13	6.6
17 Aug	3.4	18	7.0	2.3	1.5	1.2	6.5	2.8
24 Aug	1.3	7.5	3.4	1.0	0.91	1.4	3.2	2.8
30 Aug	1.6	6.2	2.6	0.74	0.77	1.6	2.4	2.4
$\bar{x}$	72	117	123	5.5	4.4	1.4	6.3	3.6
7 Sep	1.6	4.5	2.4	0.97	1.2	2.5	1.9	3.1
14 Sep	1.4	6.8	1.8	0.96	1.3	1.7	2.1	2.5
22 Sep	1.2	4.7	2.0	0.74	1.3	1.9	5.1	2.0
28 Sep	2.7	5.4	2.6	2.9	1.1	1.8	5.4	2.3
$\bar{x}$	1.7	5.4	2.2	1.4	1.2	2.0	3.6	2.5
6 Oct	1.5	3.9	1.7	0.70	0.75	2.1	1.6	2.0
13 Oct	3.0	9.3	4.2	2.1	1.6	1.9	4.6	5.2
20 Oct	1.8	4.1	2.4	2.5	2.0	1.0	16	2.7
27 Oct	3.0	11	4.2	3.6	2.4	1.8	5.0	4.0
$\bar{x}$	2.3	7.1	3.1	2.2	1.7	1.7	6.8	3.5
3 Nov	2.2	6.8	3.0	2.6	2.0	1.8	4.3	3.0
15 Nov	1.5	4.0	2.1	2.0	0.90	5.2	2.5	3.5
$\bar{x}$	1.9	5.4	2.6	2.3	1.5	3.5	3.4	3.3
1 Dec	ICE	4.8	1.9	2.0	ICE	ICE	ICE	3.5
15 Dec	5.3	7.3	ICE	4.5	3.0	7.3	6.1	7.8
$\bar{x}$	5.3	6.1	1.9	3.3	3.0	7.3	6.1	5.7
Grand $\bar{x}$	12	26	20	5.6	4.3	3.5	5.3	7.7
S.D.	58.8	89.7	99.4	11.78	11.59	3.26	4.09	9.33
Minimum	1.2	2.6	1.7	0.70	0.73	1.0	1.6	2.0
Maximum	350	550	600	73	68	13	16	55

* Not sampled from 6 January to 26 March 1976 because of sampling change.
** First sampled 10 August 1976.
*** ICE = no samples taken because of ice cover.

Table 27. Summary of alkalinity data (mg/l) taken from 6 January through 1 December 1976 in tributaries of Schoharie Reservoir and Schoharie Creek.

Date	Station 22	23	1	24	25	2*	4
6 Jan	ICE**	ICE	ICE	ICE	ICE	-	ICE
10 Feb	ICE	ICE	ICE	ICE	ICE	-	ICE
10 Mar	ICE	10	10	15	20	-	20
6 Apr	10	10	10	15	15	-	20
11 May	10	10	10	15	15	10	20
2 Jun	12.2	15.1	16.1	25.4	21.5	12.2	42.0
13 Jul	18.8	22.5	22.9	37.6	25.4	22.1	25.7
10 Aug	7.1	15.9	9.8	15.4	15.9	113.5	29.3
14 Sep	24.5	24.9	25.6	58.6	42.5	148.4	102.2
13 Oct	12.7	17.6	13.7	29.3	29.8	161.0	67.8
3 Nov#	10	15	15	15	20	80	30
1 Dec	ICE	19.0	16.1	23.9	ICE	ICE	55.1
Mean	13.2	16.0	14.9	25.0	22.8	78.2	41.2
S.D.	5.71	5.19	5.59	14.14	8.88	64.79	26.83
Minimum	7.1	10	9.8	15	15	10	20
Maximum	24.5	24.9	25.6	58.6	42.5	161.0	102.2

* Not sampled from 6 January to 11 May 1976 because of sampling change.
** ICE = no samples taken because of ice cover.
\# 3 November determinations by Hach DR-EL because of broken pH electrode.

Table 28. Summary of total hardness (TH) and calcium hardness (CH) data (mg/l) taken from 6 January through 1 December 1976 in tributaries of Schoharie Reservoir and Schoharie Creek.

Date	Station 22		23		1		24		25		2*		4	
	TH	CH	TH	CH	TH	CH	TH	CH	TH	CH	TH	CH	TH	CH
6 Jan	ICE**	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE	-	-	ICE	ICE
10 Feb	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE	ICE	-	-	ICE	ICE
10 Mar	ICE	ICE	15	15	15	15	20	20	20	15	-	-	25	20
6 Apr	15	15	20	15	15	15	25	20	20	15	-	-	25	20
11 May	15	10	20	10	20	10	25	15	15	15	20	10	30	20
2 Jun	27.9	14.4	31.0	11.3	27.9	15.3	37.6	23.3	33.0	19.2	29.9	15.9	56.3	35.7
13 Jul	35.7	18.8	43.5	19.6	43.8	21.3	60.1	30.7	44.2	27.0	38.8	18.6	41.9	25.6
10 Aug	23.9	21.2	20.0	18.8	20.2	18.4	20.2	18.4	22.1	16.7	93.5	72.6	33.0	29.3
14 Sep	26.0	22.1	31.6	22.7	29.3	22.2	62.5	42.9	43.3	36.9	113.9	90.8	104.4	74.1
13 Oct	19.4	15.1	22.9	16.9	23.3	15.1	38.4	30.7	34.1	22.1	135.4	112.5	64.8	50.4
3 Nov	18.6	15.1	19.4	14.0	17.8	14.4	29.1	21.0	24.8	18.6	124.9	98.6	49.7	38.4
1 Dec	ICE	ICE	24.8	16.7	22.5	16.7	36.5	26.4	ICE	ICE	ICE	ICE	54.7	42.7
Mean	22.7	16.5	24.8	16.0	23.5	16.3	35.4	24.8	28.5	20.6	79.5	59.9	48.5	35.6
S.D.	7.12	3.99	8.38	3.82	8.60	3.55	15.22	8.16	10.60	7.28	48.69	43.80	24.09	17.09
Minimum	15	10	15	10	15	10	20	15	15	15	20	10	25	20
Maximum	35.7	22.1	43.5	22.7	43.8	22.2	62.5	42.9	44.2	36.9	135.4	112.5	104.4	74.1

* Not sampled from 6 January to 11 May 1976 because of sampling change.
** ICE = no samples taken because of ice cover.

Table 29. Summary of hydrogen ion data (pH) taken from 6 January through 1 December 1976 in tributaries of Schoharie Reservoir and Schoharie Creek.

Date	Station 22	23	1	24	25	2*	4
6 Jan	ICE**	ICE	ICE	ICE	ICE	-	ICE
10 Feb	ICE	ICE	ICE	ICE	ICE	-	ICE
10 Mar	ICE	7.1	7.0	6.6	6.8	-	6.8
6 Apr	7.1	7.1	7.1	7.2	7.2	-	7.3
11 May	7.5	7.5	7.8	7.7	7.4	7.2	7.3
2 Jun	7.0	7.1	7.2	7.3	7.2	7.2	7.4
13 Jul	7.6	7.6	7.5	7.6	7.7	7.5	7.5
10 Aug	6.3	6.8	6.5	3.3	6.8	7.9	7.2
14 Sep	7.2	7.5	7.5	7.4	7.8	8.1	7.6
13 Oct	7.5	7.5	7.5	7.9	7.6	7.6	7.6
3 Nov#	6.5	6.7	6.7	6.4	6.8	6.8	6.9
1 Dec	ICE	7.0	7.0	7.2	ICE	ICE	7.1
Mean	7.1	7.2	7.2	6.9	7.3	7.5	7.3
S.D.	0.48	0.32	0.40	1.33	0.40	0.45	0.28
Minimum	6.3	6.7	6.5	3.3	6.8	6.8	6.8
Maximum	7.6	7.6	7.8	7.9	7.8	8.1	7.6

* Not sampled from 6 January to 11 May 1976 because of sampling change.
** ICE = no samples taken because of ice cover.
\# 3 November determinations by Hach DR-EL because of broken pH electrode.

Table 30. Summary of air temperature data (C) taken from 6 January through 15 December 1976 in tributaries of Schoharie Reservoir, Schoharie Creek, and a tributary of Lower B-G.

	Station							
Date	22	23	1	24	25	2*	MK**	4
6 Jan	ICE***	ICE	ICE	ICE	ICE	-	-	ICE
19 Jan	ICE	ICE	ICE	ICE	ICE	-	-	ICE
10 Feb	ICE	ICE	ICE	ICE	ICE	-	-	ICE
17 Feb	ICE	10	ICE	9	9	-	-	10
10 Mar	ICE	7	-1	-1	3	-	-	5
26 Mar	8	9	11	11	16	16	-	17
30 Mar	14	16	17	18	15	16	-	18
6 Apr	14	13	13	13	13	18	-	14
13 Apr	10	13	10	10	14	15	-	14
20 Apr	23	24	23	23	21	26	-	23
27 Apr	2	4	3	4	4	4	-	4
4 May	9	9	8	8	11	9	-	8
11 May	19	21	19	19	19	20	-	20
18 May	14	18	18	19	10	9	-	9
25 May	11	11	12	11	12	12	-	12
2 Jun	15	15	15	15	18	21	-	20
8 Jun	22	22	22	19	21	21	-	19
15 Jun	26	28	26	26	28	26	-	27
22 Jun	23	23	23	22	21	22	-	24
29 Jun	22	23	22	20	26	26	-	25
7 Jul	21	21	21	21	20	21	-	20
13 Jul	15	15	15	14	16	16	-	17
20 Jul	23	23	22	21	27	28	-	27
27 Jul	22	24	23	22	27	27	-	27
3 Aug	16	16	15	14	20	20	-	20
10 Aug	18	19	19	18	18	19	22	21
17 Aug	19	19	19	19	21	22	20	21
24 Aug	19	18	19	19	23	24	23	21
30 Aug	11	11	12	11	15	16	15	15
7 Sep	18	18	18	17	20	20	19	20
14 Sep	17	16	16	16	25	24	23	24
22 Sep	12	10	10	9	13	13	15	15
28 Sep	10	10	10	10	12	12	12	12
6 Oct	17	16	16	16	17	17	18	18
13 Oct	15	15	15	15	22	22	23	23
20 Oct	7	8	8	9	10	7	8	8
27 Oct	-2	1	1	1	2	3	3	3
3 Nov	7	7	8	8	6	8	7	7
15 Nov	3	4	4	3	5	5	5	5
1 Dec	ICE	-4	-6	-6	ICE	ICE	ICE	-2
15 Dec	4	4	ICE	2	5	5	6	6
Minimum	-2	-4	-6	-6	2	3	3	-2
Maximum	26	28	26	26	28	28	23	27

* Not sampled from 6 January to 26 March 1976 because of sampling change.
** First sampled 10 August 1976.
*** ICE = no samples taken because of ice cover.

Table 31. Summary of water temperature data (C) taken from 6 January through 15 December 1976 in tributaries of Schoharie Reservoir, Schoharie Creek, and a tributary of Lower B-G.

Date	Station 22	23	1	24	25	2*	MK**	4
6 Jan	ICE***	ICE	ICE	ICE	ICE	-	-	ICE
19 Jan	ICE	ICE	ICE	ICE	ICE	-	-	ICE
$\bar{x}$	-	-	-	-	-	-	-	-
10 Feb	ICE	ICE	ICE	ICE	ICE	-	-	ICE
17 Feb	ICE	2	ICE	1	2	-	-	1
$\bar{x}$	-	2	-	1	2	-	-	1
10 Mar	ICE	0	0	0	0	-	-	1
26 Mar	5	5	6	3	7	5	-	9
30 Mar	7	7	7	7	11	6	-	7
$\bar{x}$	6	4	4	3	6	6	-	6
6 Apr	5	5	5	5	8	5	-	6
13 Apr	5	5	4	2	9	6	-	8
20 Apr	15	15	15	15	16	13	-	9
27 Apr	5	5	5	5	5	5	-	9
$\bar{x}$	8	8	7	7	10	7	-	8
4 May	7	8	7	8	8	9	-	10
11 May	13	13	13	13	14	14	-	14
18 May	13	14	14	15	12	12	-	12
25 May	10	10	10	10	10	10	-	10
$\bar{x}$	11	11	11	12	11	11	-	12
2 Jun	13	13	13	13	16	16	-	18
8 Jun	16	16	16	15	14	16	-	18
15 Jun	22	22	22	20	22	23	-	18
22 Jun	20	21	21	20	21	23	-	19
29 Jun	21	21	22	19	24	26	-	25
$\bar{x}$	18	19	19	17	19	21	-	20
7 Jul	19	20	20	19	19	23	-	22
13 Jul	17	17	17	16	16	20	-	21
20 Jul	21	20	21	18	23	24	-	28
27 Jul	19	19	19	18	20	22	-	26
$\bar{x}$	19	19	19	18	20	22	-	24
3 Aug	18	17	18	15	21	22	-	27
10 Aug	16	17	16	17	17	20	17	22
17 Aug	16	16	16	16	21	21	21	25
24 Aug	20	19	20	17	23	24	23	28
30 Aug	16	16	16	14	19	21	18	22
$\bar{x}$	17	17	17	16	20	22	20	25
7 Sep	15	15	15	13	18	18	17	20
14 Sep	16	15	16	13	19	19	19	25
22 Sep	13	13	13	11	15	17	14	19
28 Sep	12	12	13	12	13	15	13	16
$\bar{x}$	14	14	14	12	16	17	16	20
6 Oct	13	14	14	13	15	16	14	18
13 Oct	9	10	9	9	13	13	9	16
20 Oct	7	7	6	6	8	8	6	9
27 Oct	3	4	3	3	5	6	3	10
$\bar{x}$	8	9	8	8	10	11	8	13
3 Nov	5	5	5	5	7	6	5	8
15 Nov	1	3	2	1	4	5	3	7
$\bar{x}$	3	4	4	3	6	6	4	8
1 Dec	ICE	0	0	0	ICE	ICE	ICE	3
15 Dec	0	1	ICE	1	0	2	1	2
$\bar{x}$	0	1	0	1	0	2	1	3
Grand $\bar{x}$	12	12	12	11	13	15	12	15
S.D.	6.2	6.6	6.6	6.4	6.8	7.2	7.2	8.1
Minimum	0	0	0	0	0	2	1	1
Maximum	22	22	22	20	24	26	23	28

* Not sampled from 6 January to 26 March 1976 because of sampling change.
** First sampled 10 August 1976.
*** ICE = no samples taken because of ice cover.

Table 32. Summary of dissolved oxygen data (ppm) taken from 6 January through 15 December 1976 in tributaries of Schoharie Reservoir and Schoharie Creek.

Date	Station 22	23	1	24	25	2*	4
6 Jan	ICE**	ICE	ICE	ICE	ICE	-	ICE
19 Jan	ICE	ICE	ICE	ICE	ICE	-	ICE
$\bar{x}$	-	-	-	-	-	-	-
10 Feb	ICE	ICE	ICE	ICE	ICE	-	ICE
17 Feb	ICE	13.8	ICE	13.4	13.9	-	16.5
$\bar{x}$	-	13.8	-	13.4	13.9	-	16.5
10 Mar	ICE	14.4	14.4	14.3	13.2	-	15.2
26 Mar	13.2	12.3	12.9	12.8	12.7	12.9	12.1
30 Mar	12.9	12.3	13.2	12.5	11.5	13.1	14.5
$\bar{x}$	13.1	13.0	13.5	13.2	12.5	13.0	13.9
6 Apr	13.1	12.8	13.5	13.1	11.7	13.3	14.8
13 Apr	13.9	13.5	14.2	14.4	12.2	13.2	14.4
20 Apr	-#	11.2	11.3	11.0	10.1	13.6	13.4
27 Apr	13.1	13.2	12.8	12.5	12.8	13.3	14.2
$\bar{x}$	13.4	12.7	13.0	12.8	11.7	13.4	14.2
4 May	12.9	13.1	13.0	12.5	12.3	12.5	13.9
11 May	11.7	11.2	11.5	11.5	10.9	11.1	12.0
18 May	10.3	10.0	10.3	10.2	9.9	11.1	12.5
25 May	11.7	11.7	11.7	11.5	11.4	11.1	12.9
$\bar{x}$	11.7	11.5	11.6	11.4	11.1	11.5	12.8
2 Jun	11.5	11.2	11.2	11.0	10.7	10.6	12.1
8 Jun	11.1	10.4	10.4	10.1	11.6	10.3	11.0
15 Jun	9.9	9.4	9.3	9.0	8.9	10.5	9.9
22 Jun	9.5	9.2	8.9	9.1	9.4	9.2	10.5
29 Jun	9.7	9.1	9.3	9.3	8.8	9.7	11.3
$\bar{x}$	10.3	9.9	9.8	9.7	9.9	10.1	11.0
7 Jul	10.3	9.6	9.8	9.5	9.7	8.9	9.4
13 Jul	10.2	9.7	9.8	9.6	10.0	9.3	9.3
20 Jul	9.4	9.6	9.5	9.3	8.9	9.3	10.1
27 Jul	10.2	10.0	9.4	9.1	9.3	12.9	10.2
$\bar{x}$	10.0	9.7	9.6	9.4	9.5	10.1	9.8
3 Aug	10.6	10.2	10.1	10.3	9.2	9.0	10.2
10 Aug	9.5	9.6	9.2	9.1	9.1	9.8	9.5
17 Aug	10.2	9.7	10.0	9.8	9.5	9.5	10.7
24 Aug	10.5	9.7	9.7	9.6	9.0	9.1	9.9
30 Aug	10.6	10.1	10.3	10.0	9.5	9.0	9.8
$\bar{x}$	10.3	9.9	9.9	9.8	9.3	9.3	10.0
7 Sep	11.0	10.5	10.7	10.5	9.7	9.1	10.4
14 Sep	10.2	10.4	10.1	10.0	9.7	10.0	11.3
22 Sep	10.5	10.8	10.6	10.7	10.3	8.7	6.2
28 Sep	10.4	10.6	10.3	9.7	10.8	9.0	10.4
$\bar{x}$	10.5	10.6	10.4	10.2	10.1	9.2	9.6
6 Oct	10.4	11.1	10.5	10.8	10.8	11.8	10.9
13 Oct	11.4	11.6	11.1	11.6	10.7	10.2	10.5
20 Oct	12.4	12.7	12.5	12.6	12.1	12.0	11.9
27 Oct	13.4	13.3	13.7	13.5	13.0	11.4	12.3
$\bar{x}$	11.9	12.2	12.0	12.1	11.7	11.4	11.4
3 Nov	12.9	12.9	13.4	12.9	12.9	10.4	13.0
15 Nov	14.2	14.4	14.3	11.4	13.0	12.8	13.4
$\bar{x}$	13.6	13.7	13.9	12.2	13.0	11.6	13.2
1 Dec	ICE	15.1	15.5	15.2	ICE	ICE	14.3
15 Dec	14.1	14.3	ICE	14.2	14.0	13.9	14.5
$\bar{x}$	14.1	14.7	15.5	14.7	14.0	13.9	14.4
Grand $\bar{x}$	11.4	11.4	11.3	11.3	10.9	10.9	11.8
S.D.	1.48	1.73	1.81	1.77	1.57	1.68	2.13
Minimum	9.4	9.1	8.9	9.0	8.8	8.7	6.2
Maximum	14.2	15.1	15.5	15.2	14.0	13.9	16.5

* Not sampled from 6 January to 26 March 1976 because of sampling change.
** ICE = no samples taken because of ice cover.
\# Data not recorded.

Table 33. Results of monthly water quality analysis taken from February through December 1976 of samples taken at two stations on Schoharie Reservoir, three stations on Esopus Creek, the Shandaken Tunnel outlet, four stations on tributaries of Schoharie Reservoir, two stations on Schoharie Creek, and two stations on Lower and Upper B-G as measured by Eric McClellan, Muddy Run IA water quality lab, and James Reisinger, Pottstown IA water quality lab. All values expressed as ppm unless otherwise stated.

Station	27	30	14	16	21	20	19	31	22	23	1	24	25	4
Parameter							Feb							
pH	ICE*	ICE*	ICE*	ICE*	6.80	TC**	6.82	6.82	ICE*	7.47	ICE*	6.96	6.91	7.38
Specific Conductance (umhos) @ 20 C					60		61	57		60		65	47	73
Carbonate (CO_3)					0.00		0.00	0.00		0.00		0.00	0.00	0.00
Bicarbonate (HCO_3)					9.12		9.60	9.60		14.40		15.36	10.32	22.80
Sodium (Na)					3.51		3.38	3.12		2.19		2.19	1.66	2.45
Potassium (K)					0.64		0.57	0.64		1.66		2.32	1.47	1.30
Total Hardness ($CaCO_3$)					18.6		18.6	17.8		23.6		23.8	16.6	29.9
Calcium Hardness ($CaCO_3$)					16.2		17.0	14.1		18.2		18.2	12.9	23.0
Sulfate (SO_4)					8.28		7.59	8.28		11.78		17.49	10.71	13.25
Chloride (Cl)					8.15		7.98	7.80		4.78		5.50	3.90	4.61
Nitrate (NO_3)					2.35		2.20	2.24		2.98		2.83	2.39	2.46
Nitrite (NO_2)					0.01		0.01	0.01		0.02		0.02	0.01	0.01
Silica, Reactive (SiO_3-Si)					1.20		1.25	1.25		1.45		1.38	1.38	1.37
Phosphate, Total (PO_4)					0.04		0.07	0.07		0.82		1.10	0.60	0.26
Iron (Fe)					0.26		0.29	0.49		5.70		3.13	3.53	2.03
Manganese (Mn)					0.040		0.013	0.027		0.262		0.192	0.230	0.076
Carbon Dioxide (CO_2)***					2		2	2		2		2	2	2
Magnesium Hardness ($CaCO_3$)					2.4		1.6	3.7		5.4		5.6	3.7	6.9
5-Day BOD @ 20 C					0.9		1.0	0.4		2.0		4.1	2.1	0.9

* ICE = no samples taken because of ice cover.
** TC = Shandaken Tunnel closed.
*** Measured by Terry Culp, Stamford IA.
\# Sampled on 6 April.
\## Nitric acid contamination suspected in sample.

Table 33 - (Continued).

Station	27	30	14	16	21	20	19	31	22	23	1	24	25	4
Parameter							Mar#							
pH	6.88	6.93	7.14	7.22	7.05		7.10	7.08	7.08	7.10	7.14	7.24	7.16	7.28
Specific Conductance (umhos) @ 20 C	49	52	59	58	44		46	44	46	53	50	62	59	65
Carbonate (CO_3)	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bicarbonate (HCO_3)	10.08	12.00	14.40	14.64	8.16		9.12	8.64	8.88	11.04	9.12	15.36	15.36	17.76
Sodium (Na)	2.00	2.26	2.26	2.40	1.44		2.00	1.44	1.72	2.67	2.26	2.81	2.40	2.40
Potassium (K)	0.47	0.50	0.64	0.65	0.24		0.22	0.20	0.27	0.44	0.32	0.82	0.47	0.65
Total Hardness ($CaCO_3$)	16.8	18.6	20.4	20.8	15.2		15.8	15.4	15.4	17.6	16.8	23.8	21.0	23.2
Calcium Hardness ($CaCO_3$)	13.2	15.0	17.0	17.6	11.2		12.0	12.6	12.6	14.0	13.2	17.8	16.4	20.2
Sulfate (SO_4)	9.60	9.60	10.68	11.04	8.44		8.04	8.44	7.62	10.33	8.44	11.04	9.6	10.68
Chloride (Cl)	4.25	4.96	5.32	5.32	4.25		4.79	4.25	3.72	5.32	4.61	4.79	4.25	5.32
Nitrate (NO_3)	2.40	2.44	1.98	1.98	1.92		1.64	1.82	2.13	1.64	1.89	3.17	1.57	1.99
Nitrite (NO_2)	0.01	0.01	0.01	0.02	0.00		0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01
Silica, Reactive (SiO_3-Si)	1.22	1.32	1.36	1.37	0.99		1.00	1.06	1.20	1.49	1.22	1.36	1.59	1.40
Phosphate, Total (PO_4)	0.12	0.13	0.12	0.16	0.05		0.06	0.05	0.04	0.16	0.05	0.09	0.11	0.15
Iron (Fe)	0.37	0.33	0.58	0.65	0.19		0.09	0.16	0.09	0.40	0.16	0.19	0.09	0.65
Manganese (Mn)	0.024	0.036	0.032	0.030	0.012		0.008	0.016	0.044	0.022	0.007	0.013	0.010	0.090
Carbon Dioxide (CO_2)	2	2	2	2	2		2	2	2	2	2	2	2	2
Magnesium Hardness ($CaCO_3$)	3.6	3.6	3.4	3.2	4.0		3.8	2.8	2.8	3.6	3.6	6.0	4.6	3.0
5-Day BOD @ 20 C	1.1	1.0	0.9	1.0	0.7		0.7	1.8	1.6	0.7	1.2	1.0	1.3	1.4
Parameter							Apr							
pH	7.02	6.60	7.04	6.96	7.01	6.95	7.03	7.12	6.98	7.05	7.03	7.16	7.07	7.28
Specific Conductance (umhos) @ 20 C	123	74	66	66	45	55	52	51	46	49	48	65	54	68
Carbonate (CO_3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bicarbonate (HCO_3)	14.64	11.04	15.36	15.12	9.12	12.72	10.80	10.32	8.64	11.04	10.08	18.00	14.40	19.68
Sodium (Na)	2.21	2.21	2.21	2.21	1.61	1.85	1.73	1.73	1.73	2.09	1.73	2.33	2.09	2.21
Potassium (K)	13.09	3.17	5.50	3.09	0.34	0.50	0.39	0.44	0.27	0.50	0.39	0.83	0.56	0.65
Total Hardness ($CaCO_3$)	20.4	19.2	23.2	23.5	16.1	18.2	18.0	17.5	14.9	16.7	16.1	25.2	19.6	25.3
Calcium Hardness ($CaCO_3$)	16.9	15.9	20.4	20.4	13.5	15.9	15.7	15.9	13.9	15.1	13.5	22.2	18.0	21.8
Sulfate (SO_4)	9.58	9.06	11.06	10.09	9.06	9.58	8.52	9.06	8.52	10.58	9.06	11.99	10.58	11.06
Chloride (Cl)	3.51	3.37	3.51	3.44	3.08	3.30	3.30	3.01	2.62	2.87	2.48	3.16	2.41	3.44
Nitrate (NO_3)	2.23	2.18	2.06	2.06	1.90	1.89	1.86	1.98	1.86	1.47	1.89	2.81	1.51	1.85
Nitrite (NO_2)	0.02	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01
Silica, Reactive (SiO_3-Si)	1.16	1.28	1.29	1.28	1.06	1.24	1.15	1.12	1.16	1.54	1.25	1.50	1.63	1.31
Phosphate, Total (PO_4)	0.50	0.25	0.23	0.26	0.12	0.15	0.12	0.12	0.08	0.22	0.20	0.20	0.14	0.18
Iron (Fe)	0.33	0.27	0.62	0.56	0.14	0.33	0.17	0.24	0.14	1.00	0.33	0.43	0.20	0.88
Manganese (Mn)	0.022	0.038	0.030	0.026	0.007	0.042	0.020	0.035	0.014	0.040	0.036	0.028	0.021	0.032
Carbon Dioxide (CO_2)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Magnesium Hardness ($CaCO_3$)	3.5	3.3	2.8	3.1	2.6	2.3	2.3	1.6	1.0	1.6	2.6	3.5	1.6	3.5
5-Day BOD @ 20 C	0.4	0.6	0.8	0.7	0.4	0.8	0.6	0.6	0.8	0.4	0.8	1.0	0.9	0.8

Table 33 - (Continued).

Station	27	30	14	16	21	20	19	31	22	23	1	24	25	4
Parameter							May							
pH (Lab)	6.93	6.69	7.04	6.97	7.04		7.01	7.12	6.82	7.15	6.96	7.69	7.02	7.14
Specific Conductance (umhos) @ 20 C	51	53	59	59	44		49	44	42	55	43	78	56	60
Carbonate (CO_3)	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bicarbonate (HCO_3)	12.96	12.24	15.84	15.36	10.08		11.52	10.56	8.64	14.88	9.84	26.40	18.96	16.80
Sodium (Na)	2.10	2.10	2.23	2.50	1.70		2.10	1.56	1.56	2.90	1.56	3.03	2.10	2.23
Potassium (K)	0.59	0.49	1.06	3.72	0.39		0.36	0.44	0.42	0.79	0.48	0.95	1.12	0.55
Total Hardness ($CaCO_3$)	19.6	19.2	22.0	21.8	18.4		20.0	18.6	16.4	19.6	16.8	30.2	20.4	22.6
Calcium Hardness ($CaCO_3$)	18.0	16.0	20.0	19.0	14.4		15.4	15.8	14.0	15.6	12.2	24.4	18.4	20.2
Sulfate (SO_4)	9.77	9.31	10.66	10.66	8.33		9.31	8.83	9.31	10.66	10.66	13.45	12.31	12.31
Chloride (Cl)	2.52	2.80	2.98	3.12	2.45		3.12	2.30	2.02	2.98	2.02	2.94	2.02	2.69
Nitrate (NO_3)	1.63	2.09	1.76	1.76	1.47		1.43	1.59	1.63	0.75	1.63	1.71	1.25	1.68
Nitrite (NO_2)	0.01	0.01	0.01	0.01	0.01		0.01	0.01	0.01	0.02	0.01	0.02	0.02	0.01
Silica, Reactive (SiO_3-Si)	1.02	1.18	1.16	1.13	1.00		1.06	1.01	0.82	0.51	0.57	1.14	1.29	1.14
Phosphate, Total (PO_4)	0.06	0.14	0.08	0.09	0.05		0.09	0.08	0.13	0.14	0.15	0.16	0.67	0.07
Iron (Fe)	0.06	0.06	0.07	0.09	0.06		0.04	0.10	0.13	0.24	0.17	0.10	0.79	0.09
Manganese (Mn)	0.019	0.044	0.018	0.021	0.008		0.018	0.019	0.023	0.029	0.035	0.108	0.128	0.035
Carbon Dioxide (CO_2)	2	2	2	2	2		2	2	2	2	2	2	2	2
Magnesium Hardness ($CaCO_3$)	1.6	3.2	2.0	1.8	4.0		4.6	2.4	2.4	4.0	4.6	5.8	2.0	2.4
5-Day BOD @ 20 C	2.0	1.7	0.9	0.6	0.7		0.5	1.1	1.6	1.5	1.2	1.3	2.3	1.0
Parameter							Jun							
pH	7.06	6.71	7.23	7.21	7.61	6.82	7.25	7.43	7.90	7.45	7.27	7.66	7.93	8.30
Specific Conductance (umhos) @ 20 C	59	50	64	63	48	51	51	50	52	65	63	96	75	120
Carbonate (CO_3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bicarbonate (HCO_3)	19.44	13.68	22.08	22.32	13.44	14.16	14.64	14.40	16.80	19.20	18.72	38.88	31.68	52.80
Sodium (Na)	2.81	2.28	2.37	2.46	2.28	2.37	2.55	2.28	2.55	3.62	3.35	4.42	3.44	4.24
Potassium (K)	0.71	0.57	0.63	0.74	0.49	0.61	0.61	0.53	0.63	1.00	0.81	1.50	1.06	0.92
Total Hardness ($CaCO_3$)	22.0	18.8	24.8	25.2	17.8	17.6	20.4	19.8	20.8	23.2	25.8	39.0	30.4	51.2
Calcium Hardness ($CaCO_3$)	18.0	15.8	22.0	22.2	15.4	15.6	16.4	16.4	17.6	20.4	20.6	29.4	26.8	42.0
Sulfate (SO_4)	8.28	8.28	8.94	8.94	6.91	8.94	8.94	8.28	8.28	10.19	10.79	11.39	9.57	17.29
Chloride (Cl)	4.79	4.08	3.90	3.90	4.79	4.08	4.43	4.43	4.61	6.02	4.96	7.44	4.79	6.02
Nitrate (NO_3)	1.57	2.14	1.61	1.57	1.04	2.00	1.76	1.65	1.69	1.81	1.84	3.38	1.15	1.15
Nitrite (NO_2)	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.01	0.01
Silica, Reactive (SiO_3-Si)	0.41	1.13	0.88	0.87	1.17	1.12	1.14	1.10	0.72	1.13	0.80	1.44	1.69	1.14
Phosphate, Total (PO_4)	0.09	0.08	0.09	0.10	0.05	0.05	0.10	0.12	0.06	0.34	0.18	0.42	0.12	0.06
Iron (Fe)	0.14	0.05	0.19	0.19	0.14	0.17	0.08	0.11	0.19	0.86	0.56	0.89	0.11	0.30
Manganese (Mn)	0.045	0.048	0.025	0.024	0.010	0.054	0.070	0.024	0.028	0.086	0.054	0.167	0.039	0.091
Carbon Dioxide (CO_2)	2	4	2	2	2	2	2	2	2	2	2	4	2	2
Magnesium Hardness ($CaCO_3$)	4.0	3.0	2.8	3.0	2.4	2.0	4.0	3.4	3.2	2.8	5.2	9.6	3.6	9.2
5-Day BOD @ 20 C	0.6	1.0	0.4	1.2	0.9	0.8	0.5	1.2	1.1	1.0	1.4	1.2	0.9	1.3

Table 33 - (Continued).

Station	27	30##	14	16	21	20	19	31	22	23	1	24	25	4
Parameter							**Jul**							
pH	6.73	2.98	7.07	7.40	8.51	6.72	7.06	7.46	7.91	8.07	7.49	7.83	8.50	8.80
Specific Conductance (umhos) @ 20 C	54	212	72	67	52	54	54	52	61	71	72	111	92	103
Carbonate (CO_3)	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.92	4.32
Bicarbonate (HCO_3)	15.84	0.00	22.08	24.00	13.44	14.64	14.88	14.88	19.44	23.52	24.48	45.84	37.20	38.88
Sodium (Na)	2.10	1.93	2.44	2.44	2.44	2.44	2.36	2.27	2.86	4.21	3.28	5.31	3.37	4.04
Potassium (K)	0.63	0.52	0.68	0.66	0.53	0.76	0.62	0.56	0.58	0.93	0.76	1.55	1.01	0.92
Total Hardness ($CaCO_3$)	20.6	19.0	26.8	26.4	19.0	20.0	19.6	19.2	21.0	25.0	27.6	46.2	38.2	43.2
Calcium Hardness ($CaCO_3$)	18.0	16.0	24.2	23.8	16.6	17.2	17.4	16.2	15.8	20.6	22.1	38.8	32.0	38.4
Sulfate (SO_4)	4.92	5.90	4.92	7.74	5.90	4.92	5.90	5.90	5.90	4.92	5.90	8.62	7.74	11.96
Chloride (Cl)	4.25	3.90	4.43	4.43	5.32	4.25	4.61	4.79	5.50	7.80	6.20	8.86	5.85	6.03
Nitrate (NO_3)	2.18	56.94	4.56	1.53	0.95	2.03	1.87	1.87	1.30	0.95	1.84	3.33	0.84	1.26
Nitrite (NO_2)	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Silica, Reactive (SiO_3-Si)	0.72	1.18	0.61	0.60	1.22	1.17	1.18	1.18	0.80	0.90	0.67	0.98	1.56	0.94
Phosphate, Total (PO_4)	0.05	0.05	0.06	0.07	0.06	0.05	0.05	0.09	0.05	0.06	0.08	0.25	0.06	0.10
Iron (Fe)	0.02	0.02	0.03	0.15	0.15	0.12	0.24	0.27	0.02	0.09	0.06	0.96	0.72	0.66
Manganese (Mn)	0.001	0.000	0.002	0.002	0.016	0.186	0.097	0.044	0.032	0.025	0.020	0.100	0.116	0.072
Carbon Dioxide (CO_2)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Magnesium Hardness ($CaCO_3$)	2.6	3.0	2.6	2.6	2.4	2.8	2.2	3.0	5.2	4.4	5.5	7.4	6.2	4.8
5-Day BOD @ 20 C	0.0	0.6	0.5	0.0	0.5	0.3	0.1	1.0	1.2	0.6	0.6	0.8	0.8	1.2
Parameter							**Aug**							
pH	7.28	6.57	7.47	7.42	8.37	6.87	7.22	7.33	7.37	7.76	7.55	7.82	7.97	7.95
Specific Conductance (umhos) @ 20 C	62	54	80	77	58	57	59	55	63	70	70	157	95	129
Carbonate (CO_3)	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bicarbonate (HCO_3)	20.16	14.88	29.76	29.76	15.84	16.80	17.04	16.08	19.92	22.56	22.08	59.04	41.04	60.00
Sodium (Na)	1.96	1.82	2.70	2.70	2.70	2.11	2.26	2.26	2.85	4.03	3.29	11.25	3.44	5.21
Potassium (K)	0.78	0.65	0.78	0.76	0.52	0.99	0.97	0.80	0.57	0.95	0.78	2.27	0.95	1.01
Total Hardness ($CaCO_3$)	23.8	22.2	32.7	32.9	20.4	20.8	21.4	20.8	22.6	24.9	25.5	57.0	40.4	59.6
Calcium Hardness ($CaCO_3$)	18.2	16.4	25.5	25.5	16.2	17.0	16.6	17.2	17.8	19.4	19.4	44.2	32.5	45.9
Sulfate (SO_4)	8.58	9.48	9.48	9.48	7.60	11.16	9.78	10.62	8.26	9.19	7.94	10.62	9.78	13.66
Chloride (Cl)	5.32	4.79	4.25	4.25	5.67	3.72	3.90	4.61	5.32	7.44	4.43	21.27	6.56	6.20
Nitrate (NO_3)	1.21	2.23	1.04	0.95	1.04	1.74	1.56	1.64	0.87	0.75	0.83	3.33	0.54	1.06
Nitrite (NO_2)	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01
Silica, Reactive (SiO_3-Si)	0.26	1.10	0.02	0.01	1.08	0.80	0.82	0.88	0.54	0.73	0.44	0.68	1.34	0.94
Phosphate, Total (PO_4)	0.06	0.14	0.09	0.06	0.04	0.11	0.10	0.11	0.04	0.06	0.05	0.44	0.05	0.09
Iron (Fe)	0.19	0.23	0.23	0.19	0.12	0.54	0.44	0.54	0.09	0.19	0.12	0.12	0.19	0.12
Manganese (Mn)	0.033	0.120	0.026	0.017	0.004	0.082	0.058	0.058	0.017	0.006	0.006	0.005	0.012	0.084
Carbon Dioxide (CO_2)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Magnesium Hardness ($CaCO_3$)	5.6	5.8	7.2	7.4	4.2	3.8	4.8	3.6	4.8	5.5	6.1	12.8	7.9	13.7
5-Day BOD @ 20 C	0.7	0.3	0.7	0.3	0.4	0.5	0.5	0.6	1.2	0.6	0.9	0.6	0.4	0.6

Table 33 - (Continued).

Station	27	30	14	16	21	20	19	31	22	23	1	24	25	4
Parameter							**Sep**							
pH	6.94	6.56	7.34	7.37	7.73		7.27	7.60	7.11	7.53	7.45	7.64	8.05	7.62
Specific Conductance (umhos) @ 20 C	64	57	82	82	60		66	62	63	76	70	160	100	188
Carbonate (CO_3)	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bicarbonate (HCO_3)	22.08	15.84	33.12	32.64	17.52		19.92	20.64	20.40	23.04	22.56	59.04	43.44	93.36
Sodium (Na)	2.76	2.35	2.89	2.89	3.03		3.83	2.89	3.16	4.64	3.43	10.55	3.83	7.19
Potassium (K)	0.81	0.62	0.72	0.73	0.44		0.56	0.52	0.51	0.84	0.65	0.54	0.86	0.97
Total Hardness ($CaCO_3$)	24.6	22.0	34.4	34.8	24.0		24.6	23.8	23.8	27.7	26.1	59.0	42.4	89.7
Calcium Hardness ($CaCO_3$)	19.4	17.8	27.9	28.1	17.4		18.6	18.2	19.4	22.6	19.8	47.1	38.2	69.9
Sulfate (SO_4)	9.88	10.27	10.99	10.64	8.66		9.88	9.09	9.09	10.64	9.49	12.66	10.99	19.39
Chloride (Cl)	4.43	3.72	4.43	4.43	6.20	TC	6.56	4.79	5.32	8.15	5.67	15.78	6.03	7.27
Nitrate (NO_3)	0.95	2.11	0.82	0.86	0.52		0.87	1.11	1.19	0.98	1.19	3.12	0.52	0.44
Nitrite (NO_2)	0.00	0.01	0.01	0.01	0.01		0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Silica, Reactive (SiO_3-Si)	0.39	1.29	0.06	0.05	1.01		0.88	0.73	0.53	0.75	0.48	0.68	1.22	1.05
Phosphate, Total (PO_4)	0.09	0.08	0.07	0.06	0.03		0.04	0.04	0.03	0.04	0.03	0.42	0.05	0.04
Iron (Fe)	0.37	0.16	0.20	0.16	0.16		0.16	0.20	0.20	0.24	0.08	0.16	0.12	0.24
Manganese (Mn)	0.143	0.127	0.045	0.038	0.002		0.013	0.022	0.013	0.009	0.015	0.018	0.007	0.051
Carbon Dioxide (CO_2)	2	2	2	2	2		2	2	2	2	2	2	2	2
Magnesium Hardness ($CaCO_3$)	5.3	4.2	6.5	6.7	6.6		6.0	5.6	4.4	5.1	6.3	12.9	4.2	19.8
5-Day BOD @ 20 C	0.1	0.1	0.2	0.4	0.4		0.1	0.2	0.5	0.3	0.6	0.2	0.6	0.6
Parameter							**Oct**							
pH	6.90	6.69	7.43	7.37	6.75	6.90	6.83	6.94	6.74	6.94	6.80	7.11	7.19	7.61
Specific Conductance (umhos) @ 20 C	56	61	90	87	42	58	51	49	45	55	49	80	91	104
Carbonate (CO_3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bicarbonate (HCO_3)	14.88	14.16	35.52	35.04	7.92	15.36	11.52	11.04	8.88	12.24	10.08	19.20	19.20	43.92
Sodium (Na)	2.24	2.12	3.01	3.01	1.35	2.35	2.01	1.79	1.57	2.68	1.79	3.23	2.46	3.67
Potassium (K)	0.82	0.54	0.82	0.78	0.43	0.78	0.57	0.47	0.47	0.64	0.50	1.10	0.68	0.85
Total Hardness ($CaCO_3$)	20.6	20.6	36.4	36.2	16.8	20.6	20.0	19.2	18.2	18.2	19.8	30.6	24.4	45.4
Calcium Hardness ($CaCO_3$)	17.9	18.0	34.8	34.5	14.6	18.6	16.4	15.4	16.6	16.8	15.0	27.4	21.8	39.8
Sulfate (SO_4)	8.96	10.39	10.84	11.71	8.46	9.92	8.46	8.46	7.94	9.92	8.96	14.16	9.45	12.55
Chloride (Cl)	3.54	3.54	4.08	4.08	2.98	4.25	3.90	3.19	2.91	3.90	3.08	5.49	3.72	5.14
Nitrate (NO_3)	2.16	2.12	0.98	0.98	2.52	2.98	2.13	2.12	1.98	1.39	1.85	3.61	1.29	0.80
Nitrite (NO_2)	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.01
Silica, Reactive (SiO_3-Si)	1.23	1.29	0.38	0.36	1.11	1.21	1.22	1.21	1.37	1.80	1.46	1.77	1.86	0.58
Phosphate, Total (PO_4)	0.09	0.12	0.07	0.06	0.02	0.07	0.03	0.04	0.02	0.12	0.04	0.15	0.04	0.04
Iron (Fe)	0.22	0.22	0.14	0.09	0.14	0.22	0.14	0.14	0.14	0.22	0.14	0.22	0.14	0.18
Manganese (Mn)	0.085	0.082	0.022	0.028	0.004	0.060	0.022	0.022	0.018	0.019	0.007	0.039	0.025	0.020
Carbon Dioxide (CO_2)	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Magnesium Hardness ($CaCO_3$)	2.7	2.6	1.6	1.7	2.2	2.0	3.6	3.8	1.6	1.4	4.8	3.2	2.6	5.6
5-Day BOD @ 20 C	0.6	0.4	0.6	0.9	0.4	0.6	0.3	0.6	0.8	0.4	0.5	1.1	0.6	0.8

Table 33 - (Continued).

Station	27	30	14	16	21	20	19	31	22	23	1	24	25	4
Parameter							Nov							
pH	6.97	6.93	7.52	7.52	7.14	6.97	7.37	7.28	6.97	7.08	7.00	7.22	7.63	7.69
Specific Conductance (umhos) @ 20 C	55	55	85	86	44	48	55	53	50	61	56	86	66	94
Carbonate (CO_3)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bicarbonate (HCO_3)	14.40	15.12	31.20	33.12	9.60	14.88	14.88	13.20	11.04	14.40	9.12	21.60	22.08	28.80
Sodium (Na)	2.11	2.11	2.92	2.92	1.43	2.38	2.38	1.97	1.97	3.20	2.38	3.60	2.92	3.20
Potassium (K)	0.74	0.79	0.86	0.88	0.37	0.74	0.62	0.67	0.37	0.62	0.46	1.00	0.79	0.86
Total Hardness ($CaCO_3$)	22.4	22.2	38.0	38.0	18.0	21.4	22.4	18.2	18.2	21.6	22.4	31.4	27.0	39.2
Calcium Hardness ($CaCO_3$)	18.4	18.0	32.0	31.8	14.0	16.6	17.2	15.4	15.2	18.0	17.4	27.4	22.0	32.2
Sulfate (SO_4)	10.89	10.89	11.36	11.36	8.85	10.40	9.90	9.39	8.85	9.39	9.90	14.37	11.36	11.36
Chloride (Cl)	3.47	3.40	4.08	4.08	3.23	3.47	3.47	3.54	3.30	4.43	3.54	5.50	3.72	4.08
Nitrate (NO_3)	1.99	2.16	1.36	1.36	1.50	2.03	1.72	1.76	1.81	1.27	1.67	3.95	1.00	1.09
Nitrite (NO_2)	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.02	0.01	0.02	0.02	0.02	0.01	0.02
Silica, Reactive (SiO_3-Si)	1.25	1.25	0.62	0.59	0.89	1.23	1.09	1.06	1.18	1.40	1.20	1.41	1.39	0.52
Phosphate, Total (PO_4)	0.05	0.06	0.04	0.04	0.02	0.04	0.02	0.08	0.02	0.03	0.02	0.08	0.02	0.03
Iron (Fe)	0.14	0.18	0.18	0.14	0.06	0.14	0.10	0.10	0.06	0.14	0.10	0.06	0.06	0.14
Manganese (Mn)	0.064	0.082	0.021	0.022	0.000	0.071	0.025	0.054	0.001	0.007	0.000	0.006	0.014	0.016
Carbon Dioxide (CO_2)	2	4	2	2	2	2	2	2	2	2	2	2	2	2
Magnesium Hardness ($CaCO_3$)	4.0	4.2	6.0	6.2	4.0	4.8	5.2	2.8	3.0	3.6	5.0	4.0	5.0	7.0
5-Day BOD @ 20 C	0.0	0.0	0.4	1.0	0.1	0.0	0.1	0.3	0.2	0.1	0.7	0.0	0.0	1.1
Parameter							Dec							
pH	6.85		7.06	7.20	6.85	6.87	6.98	7.08	6.82	6.92		7.01	7.11	7.31
Specific Conductance (umhos) @ 20 C	57		77	78	45	56	53	53	52	60		77	65	78
Carbonate (CO_3)	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00
Bicarbonate (HCO_3)	13.92		26.16	26.40	7.44	13.92	11.76	10.80	10.56	12.48		16.32	18.48	26.16
Sodium (Na)	1.96		2.38	2.24	1.26	2.24	1.82	1.82	1.82	3.08		2.80	2.24	2.52
Potassium (K)	0.96		1.03	0.98	0.39	0.96	0.67	0.65	0.53	0.75		1.10	0.63	1.08
Total Hardness ($CaCO_3$)	19.8		31.0	31.4	14.8	20.0	19.0	18.4	18.6	20.2		30.0	24.8	33.0
Calcium Hardness ($CaCO_3$)	16.6		27.4	27.8	12.2	18.0	15.4	16.0	16.6	16.8		24.0	21.2	26.0
Sulfate (SO_4)	11.13		11.76	10.47	8.34	10.47	9.79	9.79	9.08	11.13		12.97	10.47	12.37
Chloride (Cl)	4.61	ICE	4.96	4.96	3.54	4.43	4.25	4.08	3.90	5.50	ICE	5.67	4.43	4.79
Nitrate (NO_3)	2.10		1.60	1.65	2.16	2.10	2.05	2.01	2.69	2.33		5.05	1.83	1.60
Nitrite (NO_2)	0.01		0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01		0.01	0.01	0.01
Silica, Reactive (SiO_3-Si)	1.38		1.07	1.04	1.12	1.39	1.27	1.22	1.56	1.87		1.97	1.82	1.11
Phosphate, Total (PO_4)	0.08		0.08	0.08	0.04	0.09	0.06	0.06	0.06	0.06		0.11	0.06	0.08
Iron (Fe)	0.27		0.32	0.32	0.14	0.36	0.23	0.23	0.14	0.27		0.27	0.19	0.32
Manganese (Mn)	0.074		0.045	0.037	0.007	0.054	0.032	0.030	0.032	0.019		0.025	0.021	0.038
Carbon Dioxide (CO_2)	2		2	2	2	2	2	2	2	2		2	2	2
Magnesium Hardness ($CaCO_3$)	3.2		3.6	3.6	2.6	2.0	3.6	2.4	2.0	3.4		6.0	3.6	7.0
5-Day BOD @ 20 C	0.2		0.2	0.0	0.1	0.1	0.1	0.1	0.3	0.0		0.1	0.2	0.5

Table 34. Dates in 1976 on which water samples were taken at two stations on Schoharie Reservoir (27, 30), four tributaries of Schoharie Reservoir (22, 23, 24, 25), three stations on Esopus Creek (21, 19, 31), the Shandaken Tunnel outlet (20), two stations on Lower and Upper B-G (14, 16), and two stations on Schoharie Creek (1, 4) following 2.54 cm or more of rainfall in a 24-hour period as measured by Edward Proper at Schoharie Reservoir and Robert Hadler at Lansing Manor.

Date	Schoharie Reservoir, Tributaries of Schoharie Reservoir, and Esopus Creek	Lower and Upper B-G and Schoharie Creek
	Rainfall (cm)	Rainfall (cm)
28 Jan	6.07	3.12
1 Apr	2.54	-
16 Apr	3.18	3.68
26 Apr	3.96	3.61
14 Jun	3.00	-
1 Jul	2.84	3.18
9 Aug	3.05	3.73
10 Oct	6.93	4.83
21 Oct	3.99	4.67

Table 35. Mean results of monthly water quality analysis taken from February through December 1976 of samples taken at two stations on Schoharie Reservoir, two stations on Lower and Upper B-G, three stations on Esopus Creek, the Shandaken Tunnel outlet, four stations on tributaries of Schoharie Reservoir, and two stations on Schoharie Creek as measured by Eric McClellan, Muddy Run IA water quality lab, and James Reisinger, Pottstown IA water quality lab. All values expressed as ppm unless otherwise stated.

Station		27	30*	14	16	21	20	19	31	22	23	1	24	25	4
Parameter															
pH	Mean	6.96	6.71	7.23	7.26	7.35	6.87	7.09	7.20	7.17	7.32	7.19	7.39	7.50	7.67
	S.D.	0.146	0.147	0.191	0.188	0.621	0.084	0.178	0.236	0.426	0.367	0.265	0.334	0.534	0.505
	Minimum	6.73	6.56	7.04	6.96	6.75	6.72	6.82	6.82	6.74	6.92	6.80	6.96	6.91	7.14
	Maximum	7.28	6.93	7.52	7.52	8.51	6.97	7.37	7.60	7.91	8.07	7.55	7.83	8.50	8.80
Specific Conductance (umhos) @ 20 C	Mean	63	57	73	72	49	54	54	52	52	61	58	94	73	98
	S.D.	21.6	7.6	11.1	11.0	7.0	3.5	5.7	5.3	7.8	8.4	11.1	34.8	18.8	37.5
	Minimum	49	50	59	58	42	48	46	44	42	49	43	62	47	60
	Maximum	123	74	90	87	60	58	66	62	63	76	72	160	100	188
Carbonate (CO_3)	Mean	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.39
	S.D.	0.000	0.000	0.000	0.000	0.289	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.579	1.303
	Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Maximum	0.00	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.92	4.32
Bicarbonate (HCO_3)	Mean	15.84	13.62	24.55	24.84	11.06	14.64	13.24	12.74	13.32	16.26	15.12	30.46	24.44	38.27
	S.D.	3.654	1.701	7.770	7.857	3.434	1.270	3.327	3.543	5.156	4.907	6.662	17.245	11.541	23.352
	Minimum	10.08	11.04	14.40	14.64	7.44	12.72	9.12	8.64	8.64	11.04	9.12	15.36	10.32	16.80
	Maximum	22.08	15.84	35.52	35.04	17.52	16.80	19.92	20.64	20.40	23.52	24.48	59.04	43.44	93.36
Sodium (Na)	Mean	2.23	2.16	2.54	2.58	2.07	2.25	2.40	2.10	2.18	3.21	2.56	4.68	2.72	3.58
	S.D.	0.310	0.163	0.309	0.286	0.768	0.207	0.651	0.530	0.610	0.829	0.778	3.207	0.710	1.549
	Minimum	1.96	1.82	2.21	2.21	1.26	1.85	1.73	1.44	1.56	2.09	1.56	2.19	1.66	2.21
	Maximum	2.81	2.35	3.01	3.01	3.51	2.44	3.83	3.12	3.16	4.64	3.43	11.25	3.83	7.19
Potassium (K)	Mean	1.96	0.92	1.27	1.30	0.44	0.76	0.56	0.54	0.46	0.83	0.57	1.24	0.87	0.89
	S.D.	3.913	0.916	1.493	1.124	0.108	0.175	0.194	0.157	0.127	0.330	0.182	0.583	0.290	0.214
	Minimum	0.47	0.49	0.63	0.65	0.24	0.50	0.22	0.20	0.27	0.44	0.32	0.54	0.47	0.55
	Maximum	13.09	3.17	5.50	3.72	0.64	0.99	0.97	0.80	0.63	1.66	0.81	2.32	1.47	1.30
Total Hardness ($CaCO_3$)	Mean	21.1	20.0	29.0	29.1	18.1	19.8	20.0	19.0	19.0	21.7	21.9	36.1	27.8	42.0
	S.D.	2.25	1.46	6.34	6.31	2.58	1.40	2.32	2.12	3.00	3.52	4.59	12.68	8.95	19.82
	Minimum	16.8	18.6	20.4	20.8	14.8	17.6	15.8	15.4	14.9	16.7	16.1	23.8	16.6	22.6
	Maximum	24.6	22.2	38.0	38.0	24.0	21.4	24.6	23.8	23.8	27.7	27.6	59.0	42.4	89.7
Calcium Hardness ($CaCO_3$)	Mean	14.5	16.6	25.1	25.1	14.7	17.0	16.2	15.8	16.0	18.0	17.0	29.2	23.7	34.5
	S.D.	1.68	1.18	5.57	5.53	1.91	1.07	1.68	1.49	2.07	2.62	3.65	9.97	7.81	15.04
	Minimum	13.2	15.0	17.0	17.6	11.2	15.6	12.0	12.6	12.6	14.0	12.2	17.8	12.9	20.2
	Maximum	19.4	18.0	34.8	34.5	17.4	18.6	18.6	18.2	19.4	22.6	22.1	47.1	38.2	69.9
Sulfate (SO_4)	Mean	9.16	9.21	10.07	10.21	8.08	9.34	8.74	8.74	8.29	9.89	9.02	12.62	10.23	13.26
	S.D.	1.740	1.574	1.995	1.201	0.932	2.074	1.233	1.181	0.998	1.802	1.502	2.332	1.201	2.700
	Minimum	4.92	5.90	4.92	7.74	5.90	4.92	5.90	5.90	5.90	4.92	5.90	8.62	7.74	10.68
	Maximum	11.13	10.89	11.76	11.71	8.85	11.16	9.90	10.62	9.31	11.78	10.79	17.49	12.31	19.39

* Station 30 data calculated without July data because of suspected nitric acid contamination.

Table 35 - (Continued).

Station		27	30	14	16	21	20	19	31	22	23	1	24	25	4
Parameter															
Chloride (Cl)	Mean	4.07	3.72	4.19	4.20	4.52	3.93	4.57	4.25	3.92	5.38	4.11	7.86	4.34	5.05
	S.D.	0.811	0.633	0.669	0.650	1.716	0.434	1.469	1.426	1.231	1.836	1.427	5.666	1.427	1.327
	Minimum	2.52	2.80	2.98	3.12	2.45	3.30	3.12	2.30	2.02	2.87	2.02	2.94	2.02	2.69
	Maximum	5.32	4.96	5.32	5.32	8.15	4.43	7.98	7.80	5.50	8.15	6.20	21.27	6.56	7.27
Nitrate (NO_3)	Mean	1.84	2.18	1.78	1.47	1.58	2.11	1.74	1.79	1.72	1.48	1.63	3.30	1.26	1.40
	S.D.	0.481	0.112	1.064	0.426	0.644	0.401	0.372	0.309	0.516	0.690	0.372	0.814	0.555	0.580
	Minimum	0.95	2.09	0.82	0.95	0.52	1.74	0.87	1.11	0.87	0.75	0.83	1.71	0.52	0.44
	Maximum	2.40	2.44	4.56	2.06	2.52	2.98	2.20	2.24	2.69	2.98	1.89	5.05	2.39	2.46
Nitrite (NO_2)	Mean	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
	S.D.	0.007	0.005	0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.008	0.006	0.006	0.006	0.003
	Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	Maximum	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02
Silica, Reactive (SiO_3-Si)	Mean	0.90	1.23	0.75	0.73	1.08	1.17	1.10	1.08	0.99	1.23	0.90	1.30	1.53	1.05
	S.D.	0.420	0.082	0.487	0.488	0.100	0.182	0.147	0.157	0.353	0.457	0.385	0.406	0.216	0.289
	Minimum	0.26	1.10	0.02	0.01	0.89	0.80	0.82	0.73	0.53	0.51	0.44	0.68	1.22	0.52
	Maximum	1.38	1.32	1.36	1.37	1.22	1.39	1.27	1.25	1.56	1.87	1.46	1.97	1.86	1.40
Phosphate, Total (PO_4)	Mean	0.12	0.13	0.09	0.10	0.05	0.08	0.07	0.08	0.05	0.19	0.09	0.31	0.17	0.10
	S.D.	0.136	0.059	0.053	0.066	0.027	0.040	0.032	0.030	0.033	0.230	0.069	0.295	0.231	0.070
	Minimum	0.05	0.06	0.04	0.04	0.02	0.04	0.02	0.04	0.02	0.03	0.02	0.08	0.02	0.03
	Maximum	0.50	0.25	0.23	0.26	0.12	0.15	0.12	0.12	0.13	0.82	0.20	1.10	0.67	0.26
Iron (Fe)	Mean	0.21	0.19	0.26	0.25	0.14	0.27	0.18	0.24	0.12	0.85	0.19	0.59	0.56	0.51
	S.D.	0.124	0.097	0.199	0.197	0.055	0.151	0.115	0.151	0.056	1.635	0.159	0.896	1.017	0.567
	Minimum	0.02	0.05	0.03	0.09	0.06	0.12	0.09	0.10	0.02	0.09	0.08	0.06	0.06	0.09
	Maximum	0.37	0.33	0.62	0.65	0.26	0.54	0.44	0.54	0.20	5.70	0.56	3.13	3.53	2.03
Manganese (Mn)	Mean	0.051	0.072	0.027	0.025	0.010	0.078	0.034	0.032	0.022	0.048	0.020	0.064	0.057	0.055
	S.D.	0.0419	0.0365	0.0127	0.0104	0.0109	0.0492	0.0284	0.0143	0.0122	0.0745	0.0180	0.0673	0.0714	0.0284
	Minimum	0.001	0.036	0.002	0.002	0.000	0.042	0.008	0.016	0.001	0.006	0.000	0.005	0.007	0.016
	Maximum	0.143	0.127	0.045	0.038	0.040	0.186	0.097	0.058	0.044	0.262	0.054	0.192	0.230	0.091
Carbon Dioxide (CO_2)	Mean	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	S.D.	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
	Minimum	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Maximum	2	4	2	2	2	2	2	2	2	2	2	4	2	2
Magnesium Hardness ($CaCO_3$)	Mean	3.6	3.7	3.8	3.9	3.4	2.8	3.8	3.2	3.0	3.7	4.8	7.0	4.1	7.5
	S.D.	1.21	1.00	1.98	2.06	1.33	1.09	1.35	1.04	1.39	1.39	1.17	3.41	1.83	5.16
	Minimum	1.6	2.6	1.6	1.7	2.2	2.0	1.6	1.6	1.0	1.4	2.6	3.2	1.6	2.4
	Maximum	5.6	5.8	7.2	1.4	6.6	4.8	6.0	5.6	5.2	5.5	6.3	12.9	7.9	19.8
5-day BOD @ 20 C	Mean	0.6	0.6	0.6	0.6	0.5	0.4	0.4	0.7	0.9	0.7	0.9	1.0	0.9	0.9
	S.D.	0.61	0.57	0.26	0.43	0.28	0.32	0.30	0.51	0.50	0.60	0.32	1.11	0.73	0.30
	Minimum	0.0	0.0	0.2	0.0	0.1	0.0	0.1	0.1	0.2	0.0	0.5	0.0	0.0	0.6
	Maximum	2.0	1.7	0.9	1.2	0.9	0.8	1.0	1.8	1.6	2.0	1.4	4.1	2.3	1.4

Table 36. Results of complete water quality analysis taken on 18 May 1976 in the Bear Kill. All values expressed as ppm unless otherwise stated.

Station*	ASTP	BSTP
Parameter		
Water Temperature (C)	14	14
Air Temperature (C)	14	14
pH	7.47	7.33
Specific Conductance (umhos) @ 20 C	79	109
Carbonate (CO_3)	0.00	0.00
Bicarbonate (HCO_3)	26.40	36.48
Sodium (Na)	3.03	6.50
Potassium (K)	1.08	1.37
Total Hardness ($CaCO_3$)	31.6	38.1
Calcium Hardness ($CaCO_3$)	26.2	33.0
Sulfate (SO_4)	12.69	14.54
Chloride (Cl)	3.26	5.67
Nitrate (NO_3)	2.13	4.57
Nitrite (NO_2)	0.02	0.02
Silica, Reactive (SiO_3-Si)	1.07	1.23
Phosphate (PO_4)	0.17	0.36
Iron (Fe)	0.15	0.35
Manganese (Mn)	0.038	0.041
Carbon Dioxide (CO_2)	2	2
Magnesium Hardness ($CaCO_3$)	5.4	5.1
Dissolved Oxygen	11.8	11.1
5-day BOD @ 20 C	3.3	2.3
Turbidity (NTU)	11	8.8

* ASTP = 0.5 km above Grand Gorge Sewage Treatment Plant, BSTP = 50 m below Grand Gorge Sewage Treatment Plant.

Table 37. "Permissible criteria" for public water supply and "limits that support a good fish fauna" for water quality parameters measured by IA (FWPCA 1972, McKee and Wolf 1971).

Parameter	"Permissible Criteria" for Public Water Supply	"Limits That Support a Good Fish Fauna"
Water Temperature	<15 C[2]	Stream: no increase above ambient >5 F[1] Lake: no increase above ambient >3 F[1]
pH	6.8-8.5[1]	6.0-9.0[1]
Specific Conductance	No set limits	<1100 umhos[2]
Carbonate (CO_3)	<20 mg/l[2]	No set limits
Bicarbonate (HCO_3)	<150 mg/l[2]	<180 mg/l[2]
Sodium (Na)	≤10 mg/l[2]	<85 mg/l[2]
Potassium (K)	<1000 mg/l[2]	<50 mg/l[2]
Total Hardness ($CaCO_3$)	<300 mg/l[1]	No set limits
Calcium Hardness ($CaCO_3$)	<300 mg/l[1]	No set limits
Sulfate (SO_4)	<250 mg/l[1]	<90 mg/l[2]
Chloride (Cl)	<250 mg/l[1]	<170 mg/l[2]
Nitrate (NO_3)	<45 mg/l[2]	<4.2 mg/l[2]
Nitrite (NO_2)	<2 mg/l[2]	No set limits
Silica, Reactive (SiO_3-Si)	Any naturally occurring value[2]	No set limits
Phosphate, Total (PO_4)	No set limits	No set limits
Iron (Fe)	<0.3 mg/l[1]	<0.7 mg/l[2]
Manganese (Mn)	<0.05 mg/l[1]	<1.0 mg/l[2]
Carbon Dioxide (CO_2)	Any naturally occurring value[2]	<5.0 mg/l[2]
Magnesium Hardness ($CaCO_3$)	<300 mg/l[1]	No set limits
Dissolved Oxygen	≥4 mg/l (monthly mean)[1] ≥3 mg/l (individual sample)[1]	Warm water biota: >5 mg/l[1] Cold water biota: >6 mg/l[1]
5-day B.O.D. @ 20 C	≤4 mg/l (monthly mean)[1] ≤3 mg/l (individual sample)[1]	Warm water biota: <5 mg/l[1] Cold water biota: <6 mg/l[1]
Turbidity	Any increase over ambient[1] <5 JTU (recommended by USPMS)[2]	Streams: Warm water biota: <50 JTU[1] Cold water biota: <10 JTU[1] Lakes: Warm water biota: <25 JTU[1] Cold water biota: <10 JTU[1]
Secchi Reading (cm)	No set limits	No set limits

[1]FWPCA 1972
[2]McKee and Wolf 1971

Table 38. Dates when the Shandaken Tunnel was open from January 1953 through December 1976 as recorded by the New York City Department of Water Resources.

Year	Month												# Days/ Year
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1953	1-8 10-23	-	-	-	25-31	1-30	1-31	1-31	1-29	16-31	1-30	1-31	227
1954	1-31	1-28	1-31	1-30	1-31	1-30	1-31	1-31	1-20	-	4-30	1-31	321
1955	1-31	1-28	1-16 28-31	1-6	12-31	1-30	1-31	1-18 30-31	1-9	-	-	20-31	207
1956	1-31	1-29	1-6	-	-	4-30	1-31	1-31	1-30	1-9 22-31	1-30	1-31	265
1957	1-31	1-7 19-28	1-31	1-30	1-24 27-31	1-30	1-31	1-31	1-30	28-31	1-30	1-20 23-31	323
1958	1-31	1-28	3-31	1-6	4-5 26-31	1-30	1-30	1-31	1-30	1-24 29-31	1-30	1-31	311
1959	1-21 26-31	1-28	1-31	1-9	11-31	1-30	1-31	1-31	1-30	1-13 15-23	-	-	260
1960	-	-	-	-	-	20-30	1-31	1-31	1-12	27-31	-	-	90
1961	9-31	1-25	30-31	1-19	-	-	6-31	1-31	1-19 27-30	1-17 30-31	1-30	1-31	229
1962	1-31	1-28	1-31	1-30	1-31	1-30	1-31	1-31	1-30	1-31	1-30	1-31	365
1963	1-31	1-28	1-31	1-30	1-31	1-30	1-31	1-31	1-30	1-31	1-30	1-31	365
1964	1-31	1-29	1-31	1-14	4-31	1-30	1-31	1-31	1-30	1-31	1-12 16-30	1-9 31	323
1965	6-31	1-4 15-28	1-5 8-12 16-18 29-31	1 5-8 12-22 26-30	3-31	1-30	1-31	1-31	1-30	1-31	1-30	1-31	324
1966	1-31	1-28	1-31	1-30	1-2 17-31	1-30	1-31	1-31	1-30	1-3 7-31	1-3 8-30	1-31	344
1967	1-31	1-28	1-31	1-14 26-30	1-5 27-31	1-20 27-30	1-31	1-31	1-30	1-31	1-30	1-4	310
1968	10-12	-	6-21	10-24	-	19-26	8-31	1-31	1-30	17-31	1-30	1-31	213
1969	1-24	5-28	1-31	1-3	-	3-19 24-30	1-28	11-31	1-30	6-31	1-30	1-10 30-31	253
1970	1-31	1-3 24-28	1-31	1-2	14-31	1-30	1-31	1-20	1-2 30	20-23 30-31	1-30	1-31.	241
1971	1-13 15-18 21-25 29-31	1-28	1-31	1-15	-	2-30	1-31	1-31	1-29	14-31	1-7 12-14 17-30	1-15	274
1972	7-11 28-31	1-4 7-29	1-3	11-17	30-31	15-21	14-31	1-31	1-30	1-31	1-30	1-15	211
1973	23-29	-	-	-	-	20-29	16-31	1-31	1-30	1-28	2	4-9 18-31	143
1974	1-2	-	-	30	1-7 28-31	1-17 19-30	1-31	1-31	1-30	1-29	1-6 8-15	6-8	181
1975	-	-	-	28-30	1-5 27-31	1-10 23-30	1-31	1-31	1-30	1-31	1-30	1-31	215
1976	1-26	-	20-30	15-27	-	3-8 11-30	1-4 14-31	1-31	1-21 24-30	1-27	1-30	1-31	245

Table 39. Dates when Schoharie Reservoir elevation exceeded 1130.00 ft and flow occurred over Gilboa Dam from January 1953 through December 1976 as recorded by the New York City Department of Water Resources.

Year	Date
1953	28 Jan-3 Jun
1954	-
1955	7 Apr-13 May, 19 Aug-3 Sep, 14 Sep-21 Dec
1956	14-18 Jan, 8 Mar-12 Jun
1957	22-30 May, 27-31 Dec
1958	1-2 Jan, 12 Apr-4 Jun, 10-13 Jun
1959	4 Apr-15 May, 1-31 Dec
1960	1 Jan-28 Jun, 13 Sep-31 Dec
1961	1-11 Jan, 25 Feb-6 Jul
1962	2-17 Apr, 25 Apr, 1-2 May
1963	2-8 Apr
1964	12-19 Mar, 28-30 Mar, 16 Apr-5 May
1965	-
1966	-
1967	10 Apr-1 May, 3-31 May, 19-31 Dec
1968	1-10 Jan, 14 Jan-6 Mar, 18 Mar-16 Apr, 25 Apr-23 Jun, 27 Jun-8 Jul
1969	6 Apr-5 Jun, 24 Jun, 29 Jul-11 Aug, 12-31 Dec
1970	1-5 Jan, 4-25 Feb, 3 Apr-20 May, 27 May
1971	14 Apr-2 Jun, 25-31 Dec
1972	1-31 Jan, 5-8 Feb, 14-19 Feb, 24-28 Feb, 2 Mar-18 Jun, 22 Jun-17 Jul, 10 Nov-31 Dec
1973	1 Jan-21 Jun, 30 Jun-16 Jul, 22-31 Dec
1974	1 Jan-30 May, 9-31 Dec
1975	1 Jan-28 May, 7-23 Jun
1976	1 Feb-4 Jun, 10-12 Jun, 1-15 Jul, 7-19 Nov, 8-18 Dec, 20-21 Dec

Table 40. Minimum elevation data (ft) taken each year from 1953 through 1976 in Schoharie Reservoir as recorded by the New York City Department of Water Resources.

Year	Elevation	Date
1953	1060.08	5 Sep
1954	1060.69	30 Aug
1955	1072.45	6 Feb
1956	1062.60	7 Oct
1957	1062.98	1 Oct
1958	1062.71	17 Sep
1959	1065.37	30 Sep
1960	1097.26	11 Sep
1961	1072.91	26 Nov
1962	1070.67	25 Sep
1963	1064.07	31 Oct
1964	1003.00	27-30 Nov, 1 Dec
1965*	1060.32	30 Jun
1966**	1059.75	21 Sep
1967	1071.84	6 Mar
1968	1068.74	30 Sep
1969	1075.21	3 Nov
1970	1062.00	20 Aug
1971	1063.00	20-27 Aug
1972	1101.40	7 Oct
1973	1062.88	29 Oct
1974	1075.38	29 Oct
1975	1086.85	25 Sep
1976	1072.85	26 Jan

* Data not available for April, May, and July through December.
** Data not available for October through December.

Table 41. Summary of water temperature data (C) and turbidity data (nephelometer turbidity units) taken by depth on 21 August 1976 in Schoharie Reservoir (elevation 1122.00 ft) after 5.69 inches of rainfall on 9 and 10 August 1976 on the upper watershed of Schoharie Reservoir at Windham, New York.

Depth (m)	Station 27		Station 30		Station 33		Shandaken Tunnel Intake 32	
	Water Temperature	Turbidity	Water Temperature	Turbidity	Water Temperature	Turbidity	Water Temperature	Turbidity
0	24.0	3.7	24.0	3.6	24.0	4.6	17.0	32
2	22.1	4.3	22.1	3.9	-	-		
4	21.5	4.3	21.8	4.0	-	-		
6	21.0	4.6	21.0	4.1	-	-		
8	20.2	8.1	19.6	10	-	-		
10	19.0	11	12.5	16	-	-		
12	18.0	22	12.5	24	-	-		
14	16.2	36	11.8	32	-	-		
16	16.3(15)*	42	8.6	36	-	-		
18	-	-	6.2	13	17.0(17)	30		
20	-	-	5.9	6.4	-	-		
22	-	-	5.2	5.2	-	-		
24	-	-	5.0	4.3	-	-		
26	-	-	4.9	4.9	-	-		
28	-	-	4.9	6.4	-	-		
30	-	-	4.9	6.2	-	-		
32	-	-	4.2	5.0	-	-		

* Depth in parentheses.

Table 42. Summary of settling velocity (cm/min) and sediment composition data (%) taken on 28 September 1976 in Schoharie Reservoir and Lower B-G.

		Settling Velocity (cm/min)	Percent Composition				
			Schoharie Reservoir			Lower B-G	
			26	27	30	13	14
Sand*:	Very coarse	1740 to 930	5.879	0.000	0.000	0.075	0.715
	Coarse	930 to 438	26.599	0.000	0.037	0.215	2.490
	Medium	438 to 198	29.204	0.156	0.042	0.245	7.665
	Fine	198 to 48	20.155	2.860	0.168	1.540	65.240
	Very fine	48 to 13.5	1.393	4.615	0.466	4.810	9.705
	Total		83.230	7.631	0.713	6.885	85.815
Silt*:	Coarse	13.47 to 2.16	6.240	41.078	35.083	18.135	3.485
	Medium	2.16 to 0.135	4.955	29.926	30.535	26.760	2.630
	Fine	0.135 to 0.022	3.219	13.360	21.035	15.450	1.355
	Total		14.414	84.364	86.653	60.345	7.470
Clay*:	Total	$<$ 0.022**	2.359	8.006	13.137	32.725	6.665

* USDA Soils Conservation Service standard particle size classification in Black (1965).
** A clay particle size diameter of 0.001 mm has a settling velocity of 0.0054 cm/min.

Table 43. Summary of mean monthly flow data (cfs) taken from February 1965 through December 1976 in the Shandaken Tunnel at Allaben, New York, as recorded by the New York City Department of Water Resources.

Year		Month												Yearly Mean and Range
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1965	Mean	-*	636	438	682	650	177	21	134	297	438	198	307	385
	Minimum	-	138	215	254	364	46	7	7	85	162	117	208	7
	Maximum	-	798	749	844	819	350	49	547	735	735	434	403	844
1966	Mean	244	480	816	819	141	191	438	304	88	99	332	290	353
	Minimum	124	102	328	526	0	81	177	127	32	0	0	71	0
	Maximum	487	773	908	904	551	374	607	448	184	343	533	452	908
1967	Mean	392	547	491	237	92	325	177	230	300	378	371	21	293
	Minimum	247	392	67	0	0	0	124	120	240	272	194	0	0
	Maximum	788	788	703	816	505	618	456	304	459	448	445	201	816
1968	Mean	14	0	290	117	0	88	311	434	339	7	293	802	226
	Minimum	0	0	0	0	0	0	0	339	21	0	35	682	0
	Maximum	159	0	629	318	0	388	424	537	604	35	675	844	844
1969	Mean	311	237	371	49	0	304	254	297	466	237	706	254	290
	Minimum	0	0	265	0	0	0	0	0	14	0	159	0	0
	Maximum	791	321	699	699	0	466	307	622	607	378	950	939	950
1970	Mean	413	109	445	18	215	445	441	300	14	64	540	388	286
	Minimum	159	0	427	0	0	420	374	0	0	0	307	138	0
	Maximum	463	466	463	463	703	466	685	660	378	487	614	533	703
1971	Mean	307	452	897	346	0	579	406	275	434	170	272	297	367
	Minimum	0	0	862	0	0	0	307	35	0	0	0	0	0
	Maximum	650	851	932	946	0	872	463	784	773	339	607	869	946
1972	Mean	49	212	21	32	7	60	272	194	127	117	148	78	109
	Minimum	0	0	0	0	0	0	0	138	113	109	42	0	0
	Maximum	226	307	328	162	159	307	618	463	138	124	166	170	618
1973	Mean	32	0	0	0	0	148	230	427	438	64	0	452	162
	Minimum	0	0	0	0	0	0	0	226	215	0	0	0	0
	Maximum	166	0	0	0	0	466	466	692	650	208	4	943	943
1974	Mean	35	0	0	0	99	374	593	325	519	413	64	11	205
	Minimum	0	0	0	0	0	0	374	155	187	0	0	0	0
	Maximum	929	0	0	35	703	805	809	456	773	667	191	155	929
1975	Mean	0	0	0	11	67	265	526	427	293	494	893	851	321
	Minimum	0	0	0	0	0	0	0	191	152	170	879	816	0
	Maximum	0	0	0	159	388	622	622	622	427	943	929	879	943
1976	Mean	434	0	39	124	0	191	208	657	413	311	201	205	233
	Minimum	0	0	0	0	0	0	0	519	0	0	155	201	0
	Maximum	812	0	307	562	0	501	537	929	562	420	205	208	929
1965-1976	Mean	215	222	318	201	106	261	321	335	311	233	335	328	268
	Minimum	0	0	0	0	0	0	0	0	0	0	0	0	0
	Maximum	929	851	932	946	819	872	809	929	773	943	950	943	950

* Data not available.

Table 44. Summary of mean monthly flow data (cfs) taken from January 1965 through December 1976 from the USGS gaging station at Coldbrook near Boiceville, New York.

Year		Month												Yearly Mean and Range
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1965	Mean	392	1148	706	1381	946	275	53	198	381	780	381	646	604
	Minimum	208	180	371	431	473	106	28	28	131	325	247	441	28
	Maximum	802	2779	1158	2129	1511	501	88	544	1031	1730	848	809	2779
1966	Mean	463	809	1953	1349	533	396	487	321	155	215	989	611	689
	Minimum	219	170	1398	1169	339	247	388	152	64	131	155	431	64
	Maximum	833	1889	3641	1730	1261	788	653	491	371	498	3719	890	3719
1967	Mean	833	932	989	1250	576	494	325	314	357	569	851	675	678
	Minimum	388	636	251	551	332	222	240	254	286	431	498	300	222
	Maximum	2260	1540	2151	3560	961	901	565	374	826	1261	1879	1812	3560
1968	Mean	191	304	1165	788	809	625	494	487	367	53	646	1310	604
	Minimum	109	95	78	392	343	297	268	381	230	25	92	922	25
	Maximum	339	1201	3079	4001	4849	1511	689	593	643	106	2119	2190	4849
1969	Mean	653	456	766	1328	445	554	766	576	547	240	1490	865	724
	Minimum	388	360	311	551	251	205	314	332	307	46	180	148	46
	Maximum	1349	576	2871	4121	1321	1119	5481	961	706	396	3249	4128	5481
1970	Mean	540	812	742	1660	622	523	448	350	67	463	996	579	646
	Minimum	219	201	590	925	325	420	353	42	39	53	434	339	39
	Maximum	699	3701	1409	3291	1049	646	812	791	286	5290	1639	883	5290
1971	Mean	487	1010	1706	1685	763	660	438	438	999	399	537	1067	848
	Minimum	131	290	1321	720	272	258	371	71	180	102	237	381	71
	Maximum	989	2161	3101	3291	1840	964	540	2009	5421	766	982	2981	5421
1972	Mean	417	431	961	1141	738	1215	703	321	198	240	1490	1187	752
	Minimum	230	219	360	360	304	258	357	215	184	173	261	388	173
	Maximum	735	971	3200	3952	1338	6420	2451	939	215	431	5869	3641	6420
1973	Mean	833	696	840	1081	1024	1067	682	516	505	173	162	2084	809
	Minimum	261	120	131	385	314	233	215	297	283	106	106	240	106
	Maximum	5269	5241	3581	3111	2751	7699	3531	833	692	378	335	14101	14101
1974	Mean	660	590	657	1119	703	607	735	406	710	607	572	1091	706
	Minimum	226	201	346	343	254	265	494	215	314	134	131	268	131
	Maximum	1829	2560	1031	3531	2921	1141	968	526	1391	851	2380	8490	8490
1975	Mean	544	639	848	742	759	703	699	512	516	999	1370	1261	802
	Minimum	201	155	237	374	367	279	353	339	265	339	1081	950	155
	Maximum	1960	3478	6240	2348	1458	1381	1091	703	1501	2680	2041	2020	6240
1976	Mean	1406	996	763	773	766	396	364	636	441	-*	-	-	727
	Minimum	410	367	357	325	332	208	155	512	92	-	-	-	92
	Maximum	11919	2504	1229	3881	3899	2892	2024	3376	643	-	-	-	11919
1965-1976	Mean	618	735	1006	1194	724	625	516	473	438	431	862	1035	717
	Minimum	109	95	78	325	251	106	28	28	39	25	92	240	25
	Maximum	11919	5241	6240	4121	4849	7699	5481	3376	5421	5290	5869	14101	14101

* Data not available.

Table 45. Summary of mean monthly flow data (cfs) taken from January 1965 through December 1975 from the USGS gaging station at Shandaken, New York.

Year		Month												Yearly Mean and Range
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1965	Mean	57	138	74	230	99	18	11	14	25	74	39	78	71
	Minimum	18	21	46	42	28	11	4	4	11	35	28	46	4
	Maximum	145	501	117	406	240	39	14	120	81	159	81	120	501
1966	Mean	57	78	328	141	117	64	18	7	14	28	127	88	88
	Minimum	28	18	99	78	67	25	11	4	7	14	18	53	4
	Maximum	95	268	791	265	162	141	32	11	49	57	367	124	791
1967	Mean	131	113	120	339	177	53	35	18	11	42	120	198	113
	Minimum	28	53	42	131	92	35	21	7	7	14	71	81	7
	Maximum	547	244	410	1081	304	85	74	32	25	138	314	579	1081
1968	Mean	71	67	367	226	261	173	67	18	11	11	117	141	127
	Minimum	35	35	32	81	131	67	25	11	7	7	18	46	7
	Maximum	109	240	2200	1049	1331	569	208	25	25	25	562	328	2200
1969	Mean	92	74	109	427	166	88	194	85	18	14	191	134	134
	Minimum	46	35	28	173	92	46	35	25	11	11	11	46	11
	Maximum	201	170	463	1229	456	198	1850	335	28	25	470	519	1850
1970	Mean	53	251	71	579	155	39	28	21	25	145	124	81	131
	Minimum	35	49	46	120	74	21	25	11	14	25	57	53	11
	Maximum	81	1059	166	1211	321	71	57	39	39	1391	201	124	1391
1971	Mean	64	134	222	420	254	39	18	42	113	60	81	300	145
	Minimum	35	35	106	109	85	21	11	11	42	37	53	64	11
	Maximum	106	519	682	1109	664	81	28	311	530	92	124	763	1109
1972	Mean	162	78	283	378	215	350	208	35	11	28	346	328	201
	Minimum	71	57	99	109	78	60	60	21	11	11	35	127	11
	Maximum	297	170	858	1331	438	1981	890	131	25	85	1829	1151	1981
1973	Mean	237	22	237	304	321	364	155	35	18	18	57	494	205
	Minimum	113	49	49	134	106	57	28	18	11	11	35	88	11
	Maximum	1649	1240	848	788	915	2430	1049	88	25	166	113	3369	3369
1974	Mean	180	152	194	371	215	88	53	35	92	85	138	297	159
	Minimum	77	64	131	148	95	60	25	14	25	53	49	64	14
	Maximum	441	339	300	1130	569	138	124	208	251	21	254	2080	2080
1975	Mean	180	201	258	265	219	120	81	46	81	-*	-	-	162
	Minimum	64	60	102	131	81	49	39	25	25	-	-	-	25
	Maximum	533	1119	1158	777	420	219	205	81	371	-	-	-	1158
1965-1975	Mean	117	138	205	335	201	127	78	32	39	49	134	215	138
	Minimum	18	18	28	42	28	11	4	4	7	7	11	46	4
	Maximum	1649	1240	2200	1331	1331	2430	1850	335	530	1391	1829	3369	3369

* Data not available.

Table 46. Percent of mean monthly contribution of the Shandaken Tunnel to flow in Esopus Creek at Allaben, New York, from February 1965 through September 1975.

Year	Month												Yearly
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1965	-*	82.2	85.5	74.8	86.2	90.9	66.7	90.5	92.3	85.5	83.6	79.8	83.5
1966	81.2	86.1	71.3	85.3	54.8	75.0	96.1	97.7	86.2	77.8	72.3	76.6	80.0
1967	75.0	82.9	80.3	41.1	34.2	86.0	83.3	92.9	96.6	89.9	75.5	9.7	70.6
1968	16.7	0.0	44.1	34.0	0.0	33.8	82.2	96.1	97.0	40.0	71.6	85.0	50.0
1969	77.2	76.1	77.2	10.4	0.0	77.5	56.7	77.8	96.4	94.4	78.7	65.5	65.7
1970	88.6	30.4	86.3	3.0	58.1	92.0	94.0	93.4	36.4	30.5	81.4	82.7	64.7
1971	82.9	77.1	80.1	45.2	0.0	93.7	95.8	86.7	79.4	73.8	77.0	49.7	70.1
1972	23.3	73.2	7.0	7.8	3.2	14.7	56.6	84.6	92.3	80.5	30.0	19.1	41.0
1973	13.4	0.0	0.0	0.0	0.0	29.0	59.6	92.4	96.1	78.3	0.0	47.8	34.7
1974	16.4	0.0	0.0	0.0	31.5	80.9	91.8	90.2	85.0	83.0	31.6	3.4	42.8
1975	0.0	0.0	0.0	3.8	23.5	68.8	86.6	90.3	78.3	-	-	-	41.2
1965-1975	47.5	46.2	48.3	27.8	26.6	67.5	79.0	90.2	85.1	73.4	60.2	51.9	58.6

* Data not available.

Table 47. Summary of mean monthly flow data (cfs) taken from February 1965 through September 1975 from all tributaries of Esopus Creek between the Shandaken Tunnel outlet at Allaben, New York, and the USGS gaging station at Coldbrook, New York.

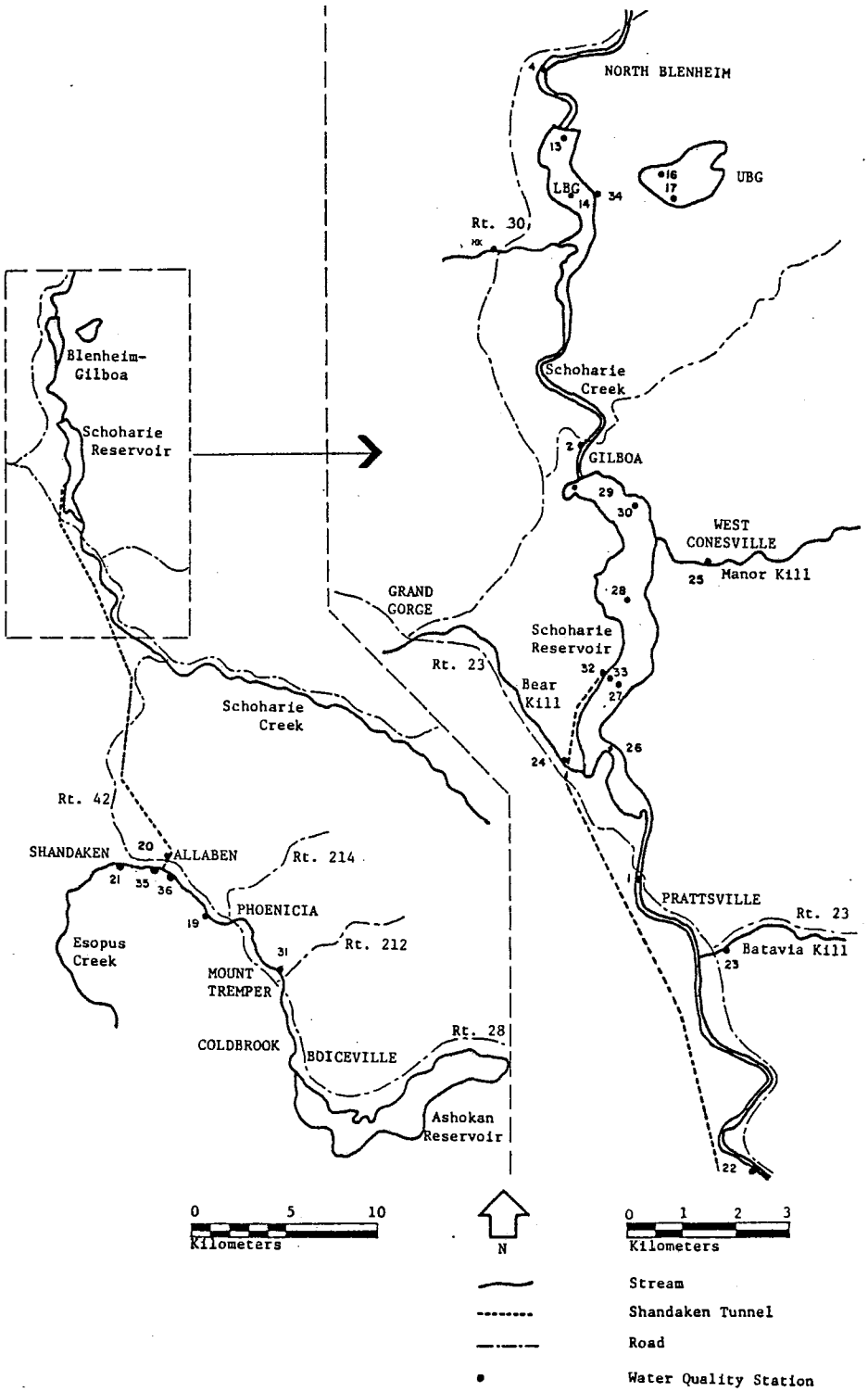
Year	Month												Yearly Mean
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1965	-*	374	194	466	198	81	21	49	60	268	145	261	191
1966	159	251	809	385	268	145	32	7	57	92	530	233	247
1967	307	275	378	678	307	120	109	67	46	148	360	459	272
1968	102	237	509	445	551	367	117	35	18	32	237	367	251
1969	251	145	286	851	279	159	318	191	64	11	597	473	300
1970	74	452	226	1067	251	39	18	25	28	251	332	109	233
1971	120	424	583	918	509	42	18	117	452	170	184	470	332
1972	201	141	657	731	516	805	222	92	57	92	996	784	441
1973	424	477	600	780	699	558	297	57	49	88	106	1134	441
1974	445	434	463	749	385	141	88	46	99	109	371	780	343
1975	364	438	590	466	473	318	92	39	141	-	-	-	328
1965-1975	244	332	480	685	403	251	120	67	99	127	385	509	307

* Data not available.

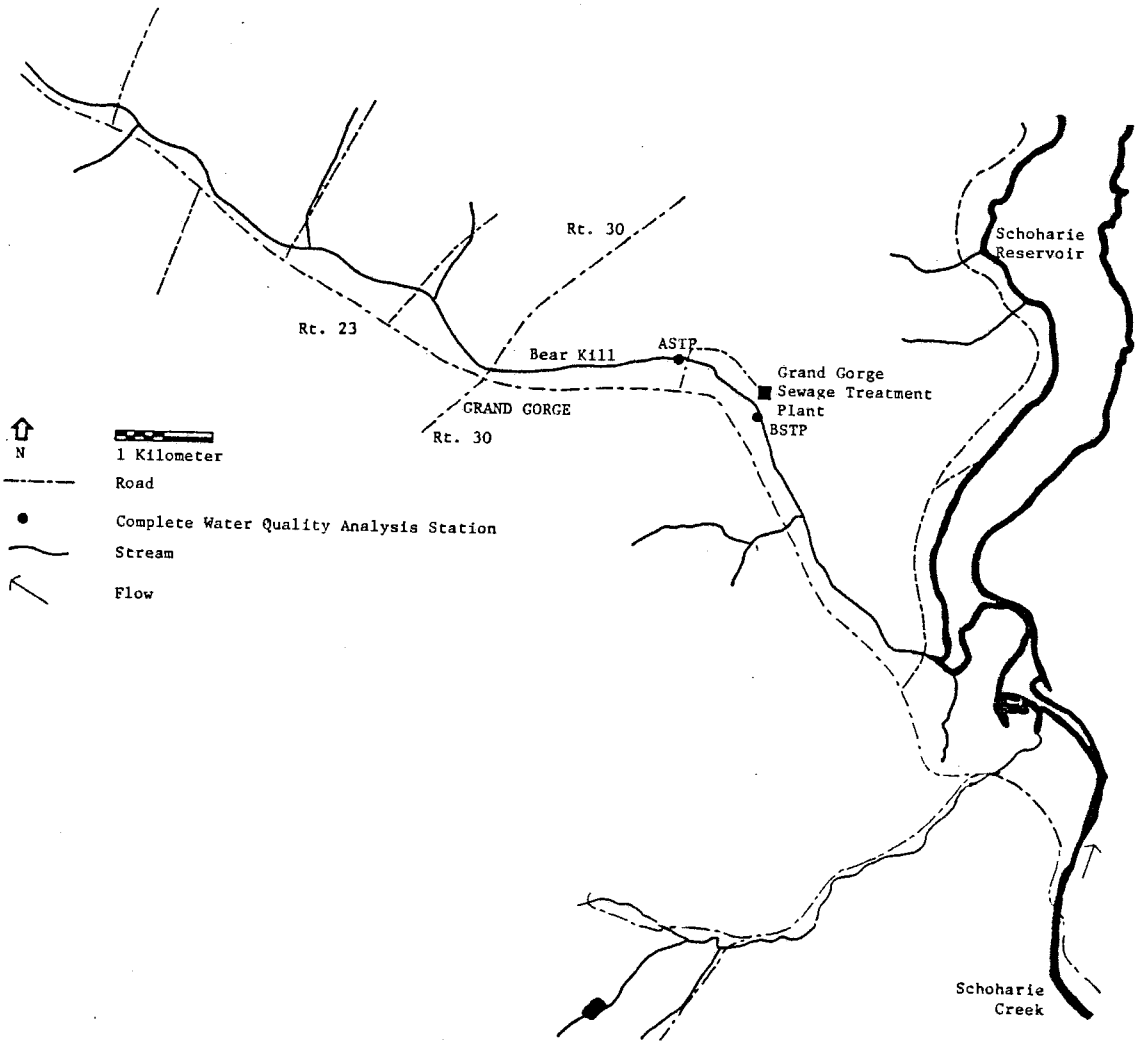
Table 48. Percent of mean monthly contribution to flow in Esopus Creek at Coldbrook of all tributaries between the Shandaken Tunnel outlet at Allaben, New York, and the USGS gaging station at Coldbrook near Boiceville, New York, from February 1965 through September 1975.

Year	Month												Yearly Mean
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1965	-*	32.6	27.5	33.8	20.9	29.5	40.0	25.0	15.7	34.4	38.0	40.4	30.7
1966	34.4	31.0	41.4	28.5	50.3	36.6	6.5	2.2	36.4	42.6	53.6	38.2	33.5
1967	36.9	29.5	38.2	54.2	53.4	24.3	33.7	21.3	12.9	26.1	42.3	68.1	36.7
1968	53.7	77.9	43.6	56.5	68.1	58.8	23.6	7.2	4.8	60.0	36.6	28.0	43.2
1969	38.4	31.8	37.3	64.1	62.7	28.7	41.5	33.1	11.6	4.4	40.0	54.7	37.4
1970	13.7	55.7	30.5	64.3	40.3	7.4	3.9	7.1	42.1	54.2	33.3	18.9	31.0
1971	24.6	42.0	34.2	54.5	66.7	6.4	4.0	26.6	45.2	42.5	34.2	44.0	35.4
1972	48.3	32.8	68.4	64.1	69.9	66.3	31.7	28.6	28.6	38.2	66.8	66.1	50.8
1973	50.8	68.5	71.4	72.2	68.3	52.3	43.5	11.0	9.8	51.0	65.2	54.4	51.5
1974	67.4	73.7	70.4	66.9	54.8	23.3	12.0	11.3	13.9	18.0	64.5	71.5	45.6
1975	66.9	68.5	69.6	62.9	62.3	45.2	13.1	7.6	27.4	-	-	-	47.1
1965-1975	43.5	49.5	48.4	56.5	56.2	34.4	23.0	16.5	22.6	37.1	47.5	48.4	40.3

* Data not available.



Map 1. Location of water quality stations sampled in 1976 on Schoharie Reservoir, Lower and Upper B-G, Esopus Creek, the Shandaken Tunnel intake, the Shandaken Tunnel outlet, tributaries of Schoharie Reservoir, Schoharie Creek, and a tributary of Lower B-G.



Map 2. Location of complete water quality analysis stations sampled on 18 May 1976 on the Bear Kill.

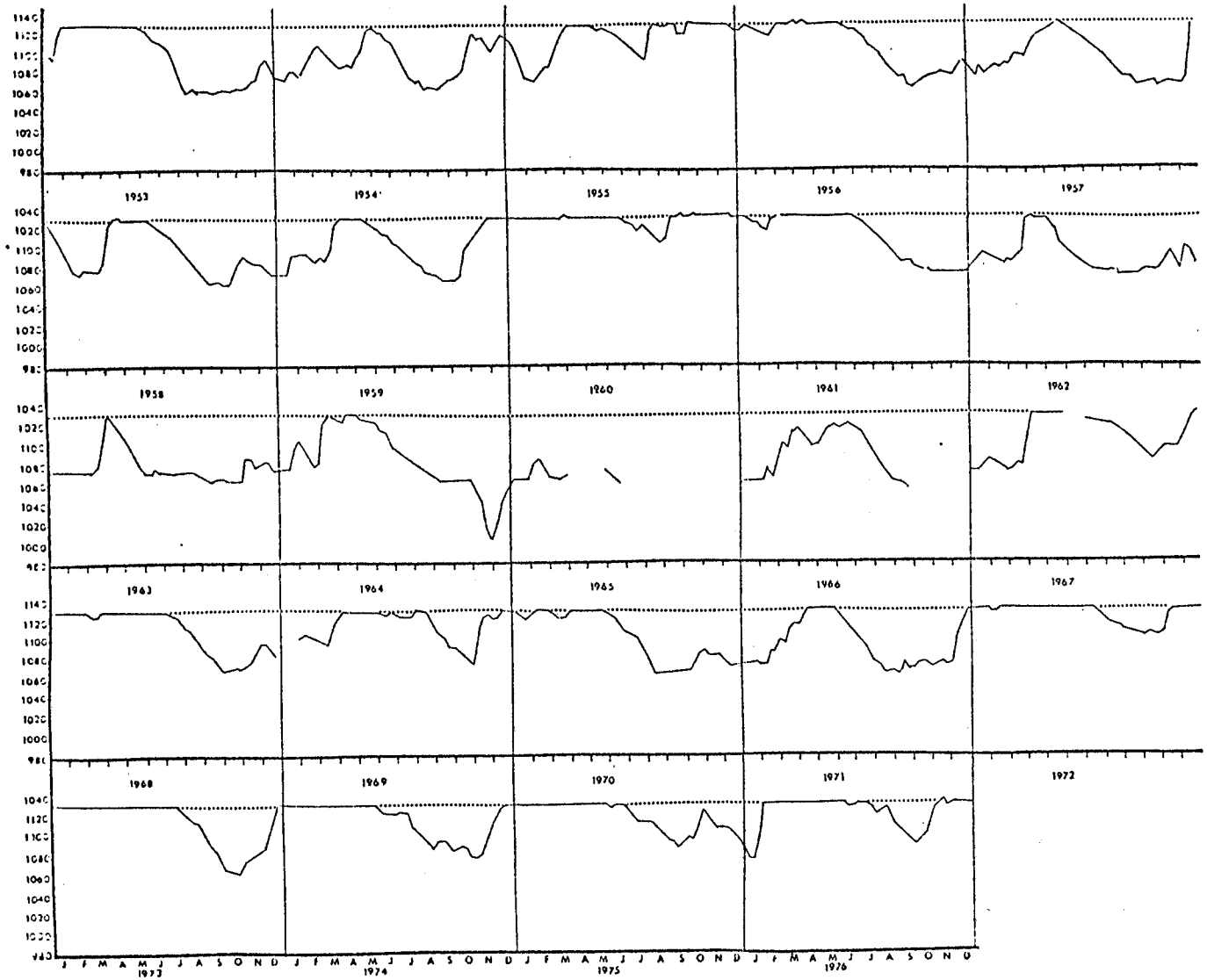


Fig. 1. Summary of elevation data (ft) taken from 1953 through 1976 in Schoharie Reservoir as recorded by the New York City Department of Water Resources.

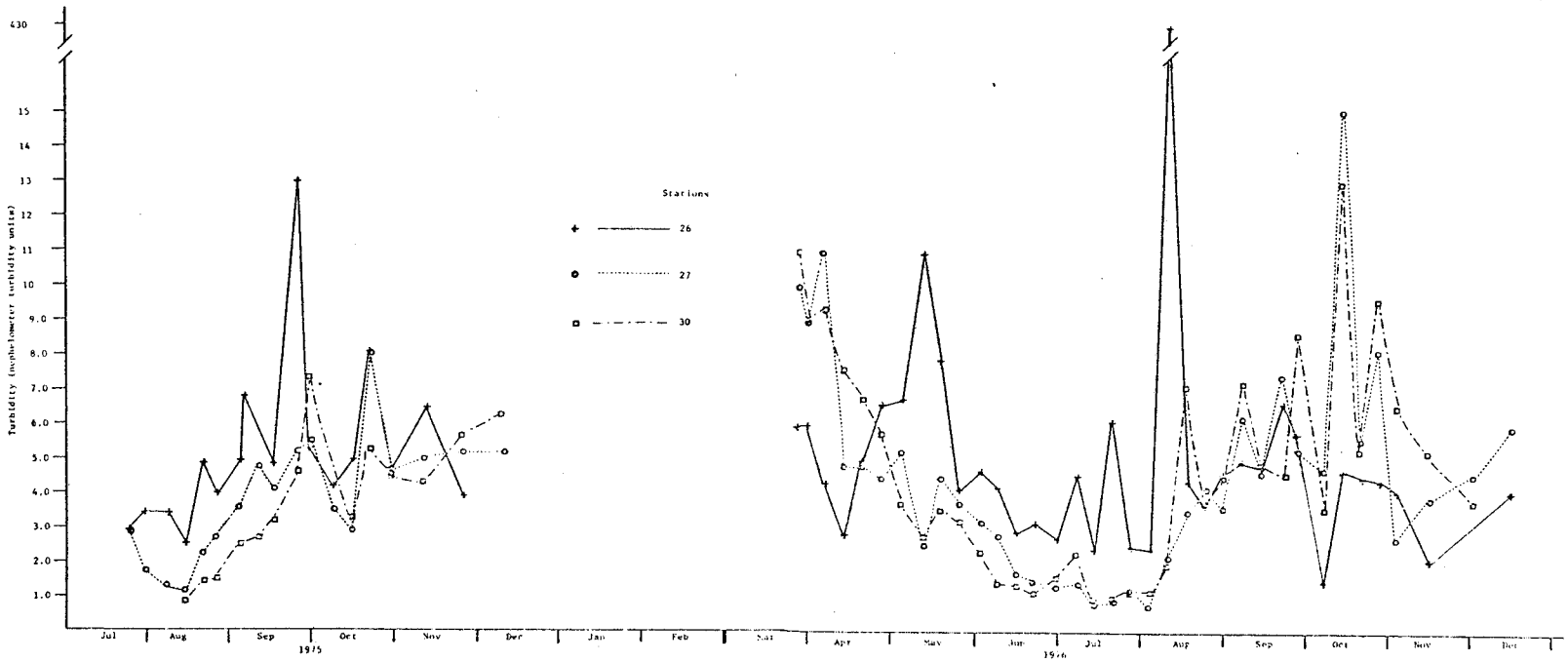


Fig. 2. Summary of turbidity data (nephelometer turbidity units) taken from 24 July 1975 through 15 December 1976 in Schoharie Reservoir.

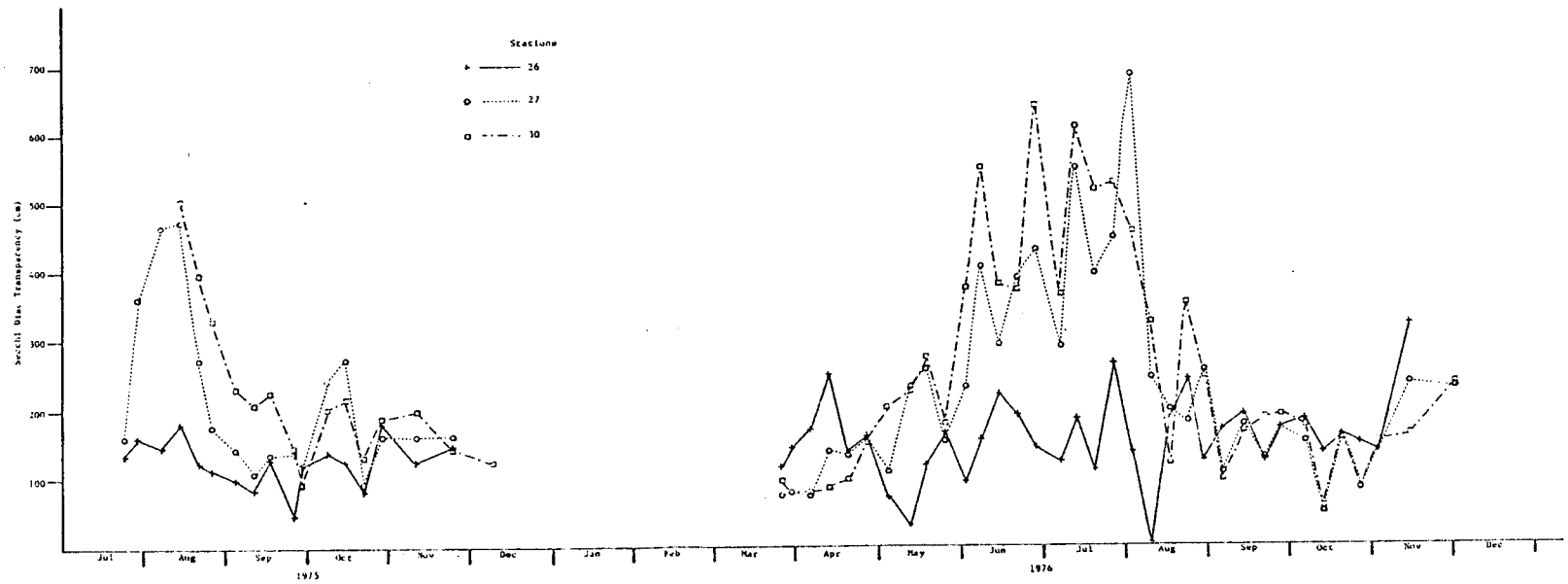


Fig. 3. Summary of Secchi disc transparency data (cm) taken from 24 July 1975 through 15 December 1976 in Schoharie Reservoir.

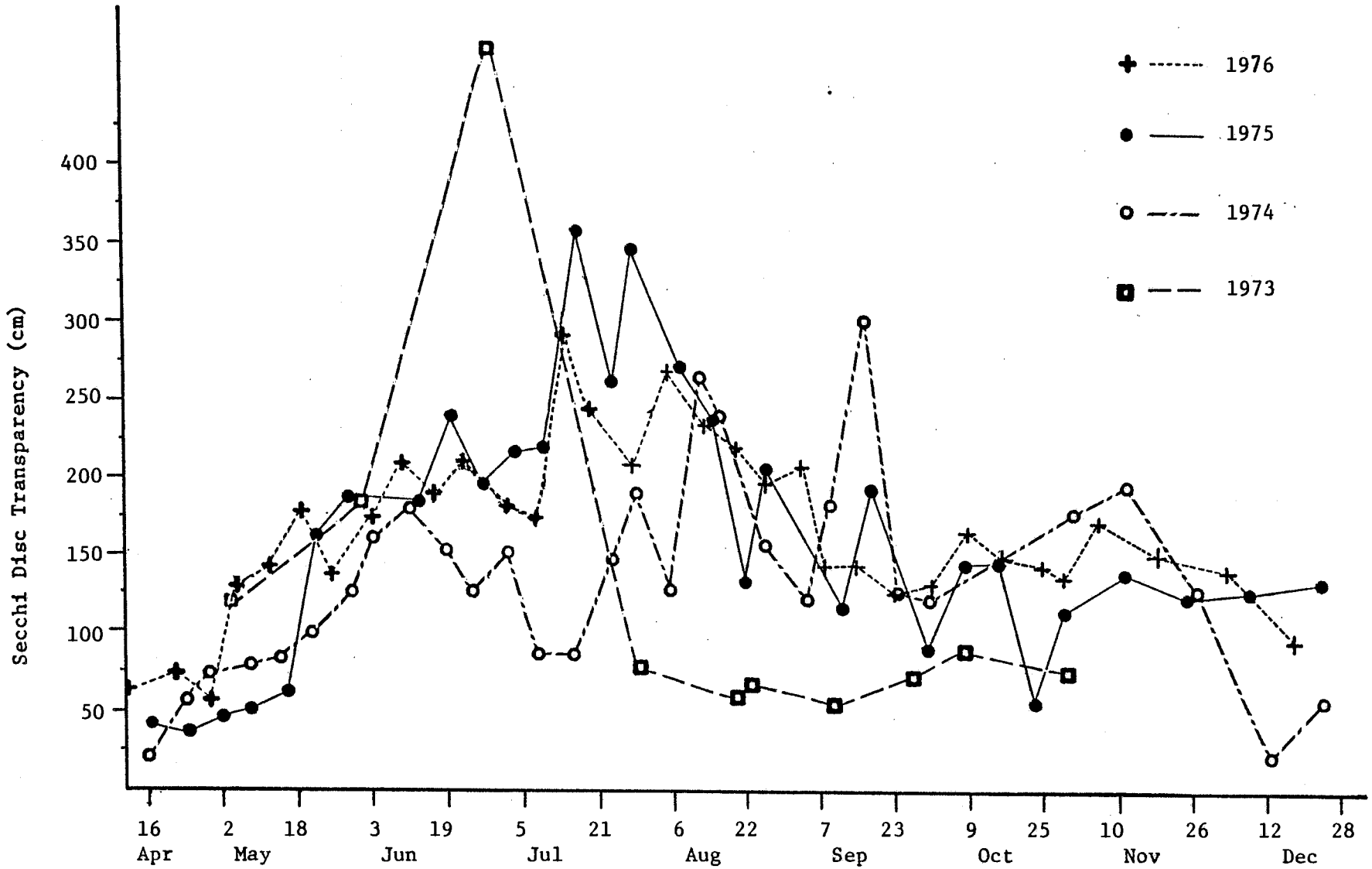


Fig. 4. Summary of Secchi disc transparency data (cm) taken from May through October 1973 and from April through December 1974, 1975, and 1976 from station 13 on Lower B-G.

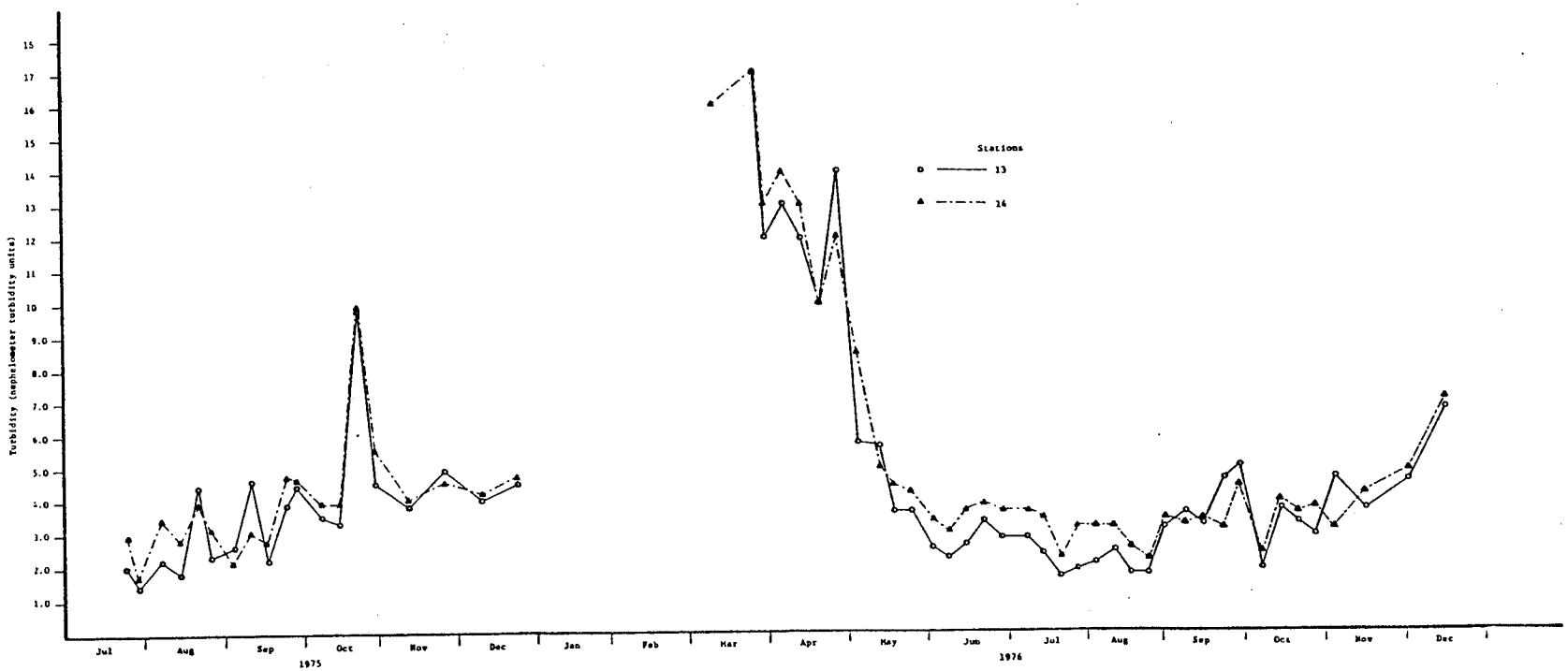


Fig. 5. Summary of turbidity data (nephelometer turbidity units) taken from 24 July 1975 through 15 December 1976 in Lower B-G.

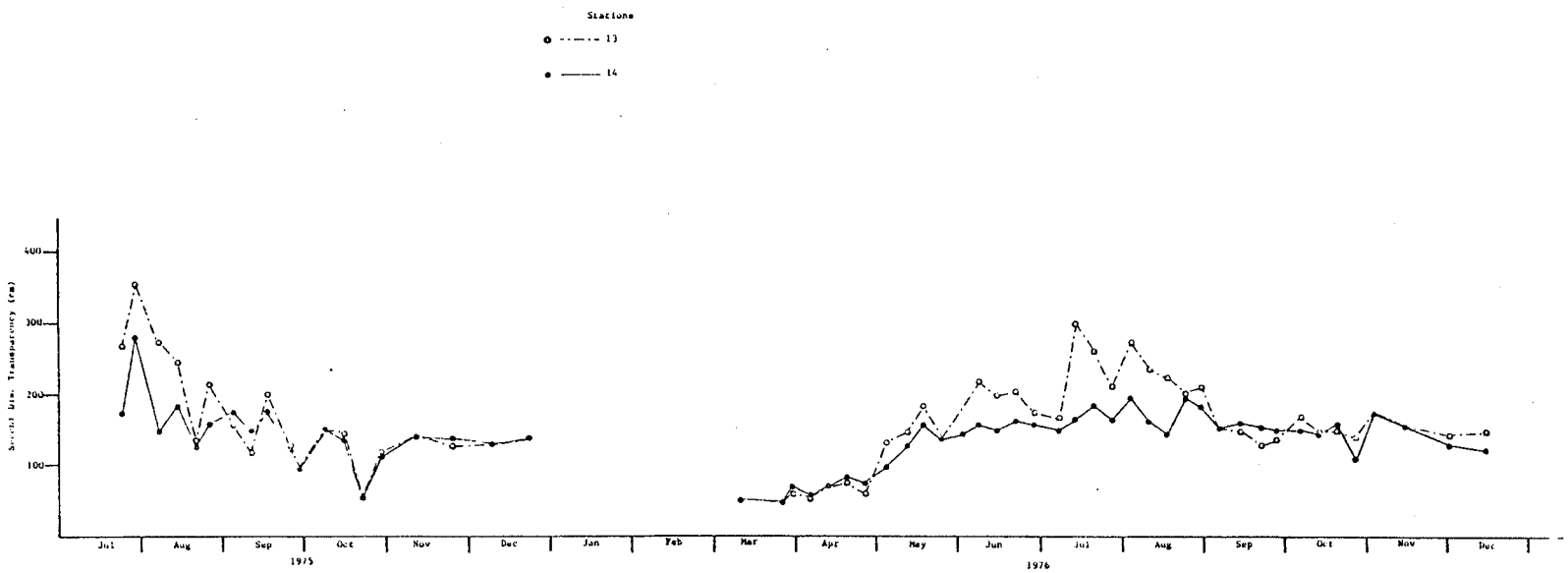


Fig. 6. Summary of Secchi disc transparency data (cm) taken from 24 July 1975 through 15 December 1976 in Lower B-G.

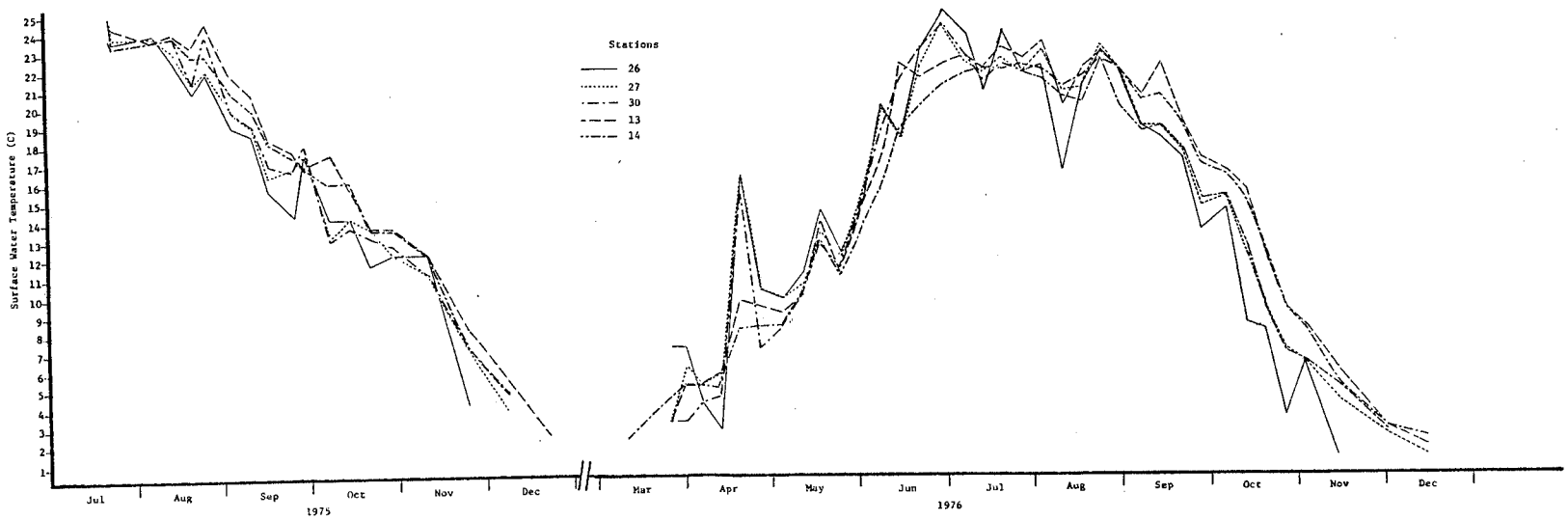


Fig. 7. Summary of surface water temperature data (C) taken from 24 July 1975 through 15 December 1976 in Schoharie Reservoir and Lower B-G.

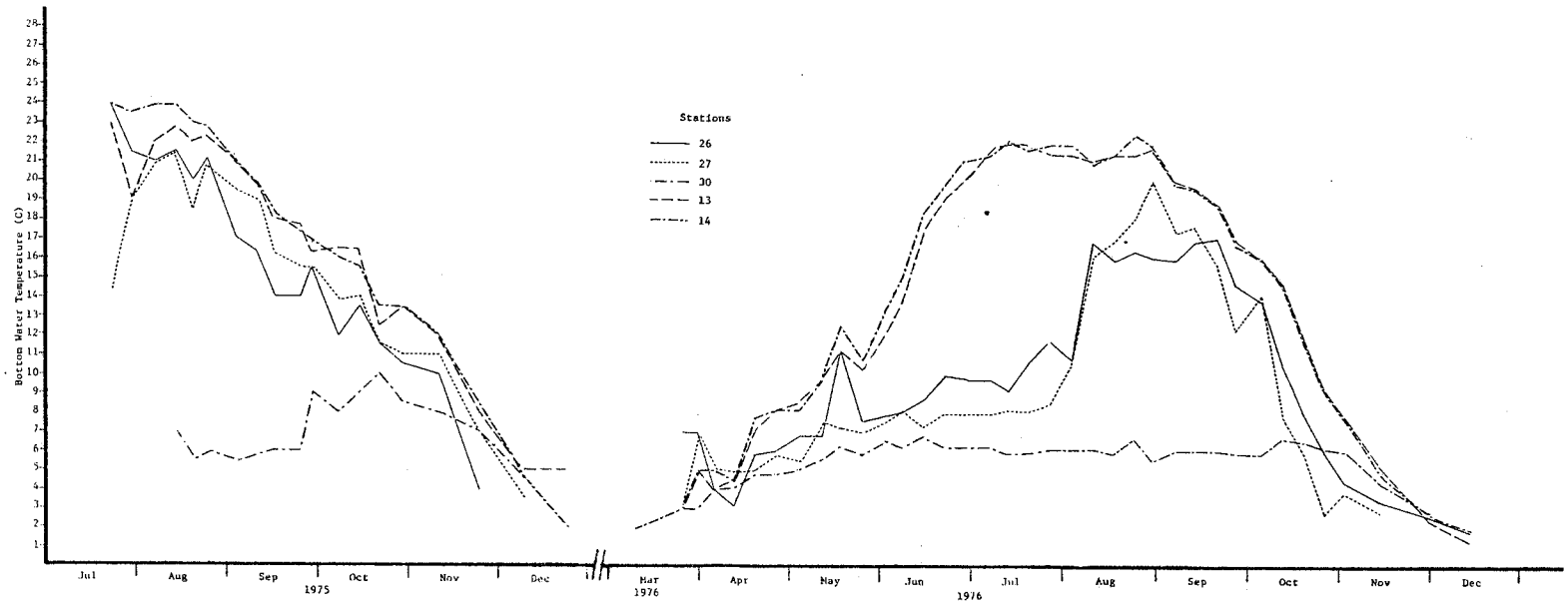


Fig. 8. Summary of bottom water temperature data (C) taken from 24 July 1975 through 15 December 1976 in Schoharie Reservoir and Lower B-G.

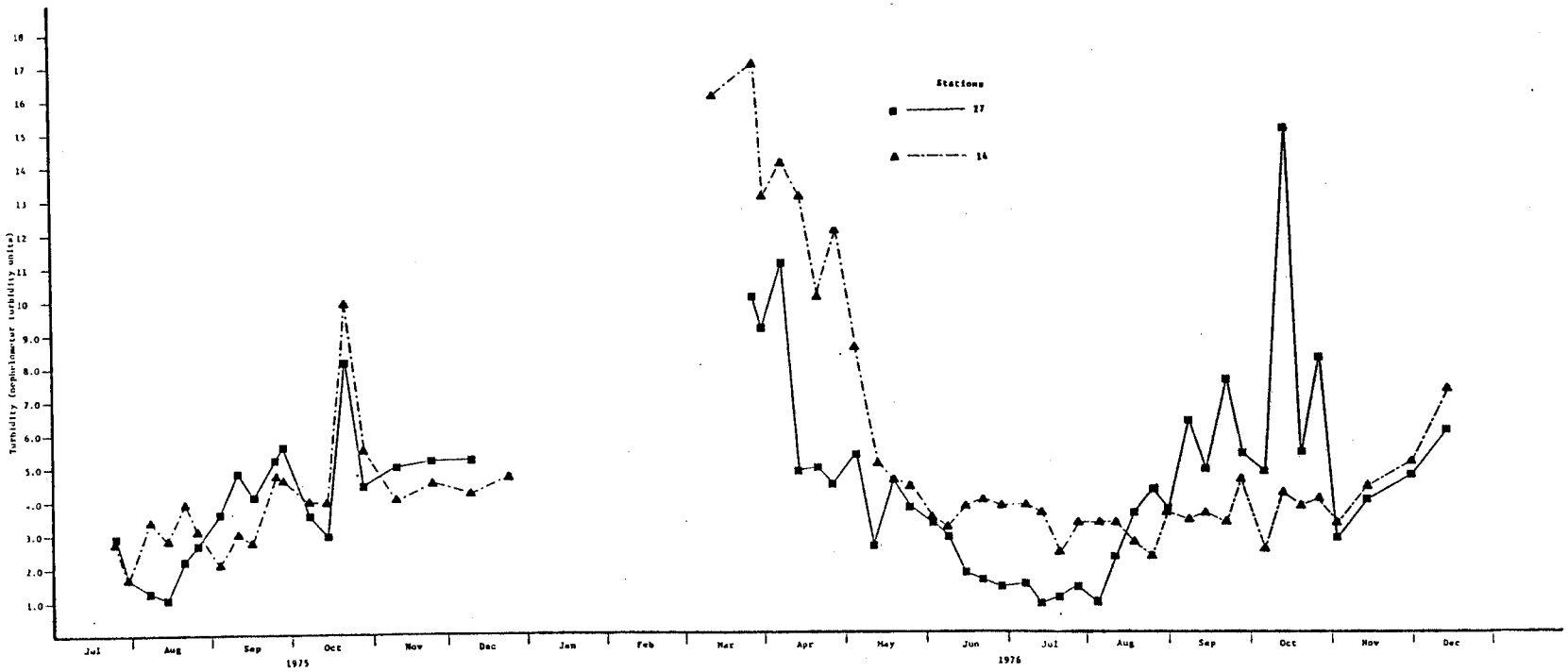


Fig. 9. Summary of turbidity data (nephelometer turbidity units) taken from 24 July 1975 through 15 December 1976 in Schoharie Reservoir and Lower B-G.

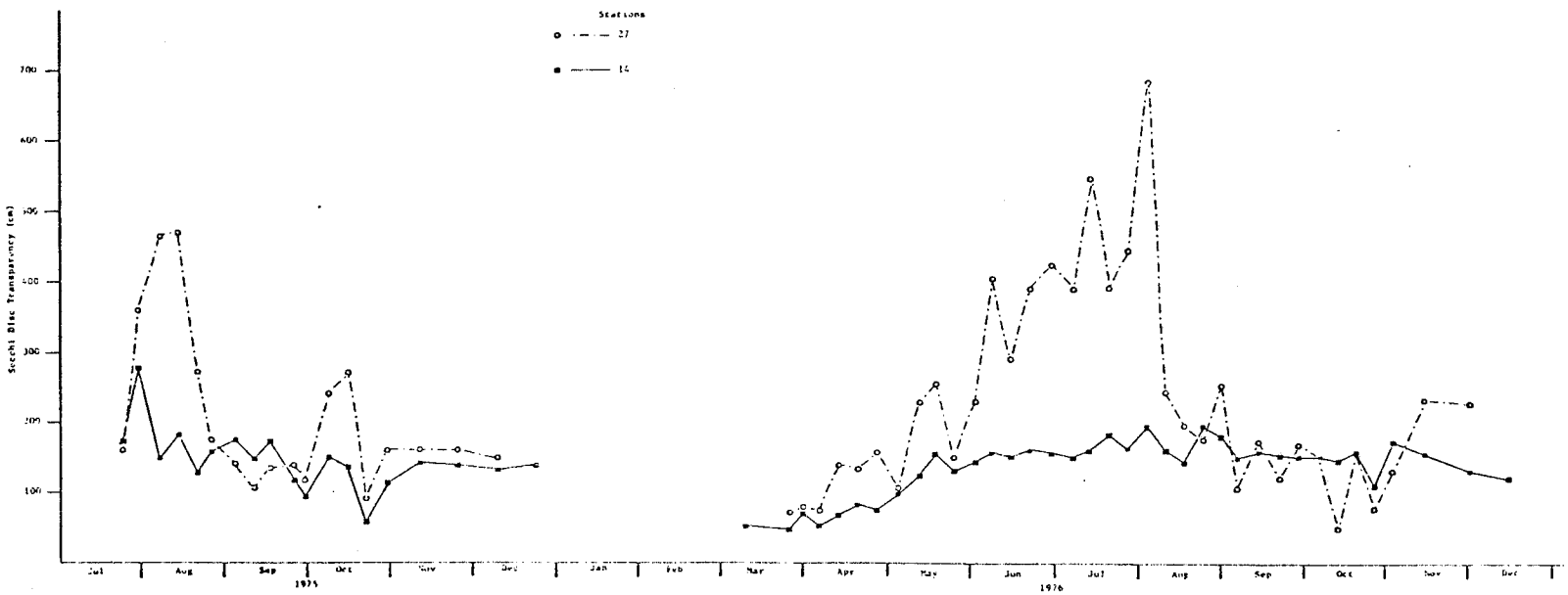


Fig. 10. Summary of Secchi disc transparency data (cm) taken from 24 July 1975 through 15 December 1976 in Schoharie Reservoir and Lower B-G.

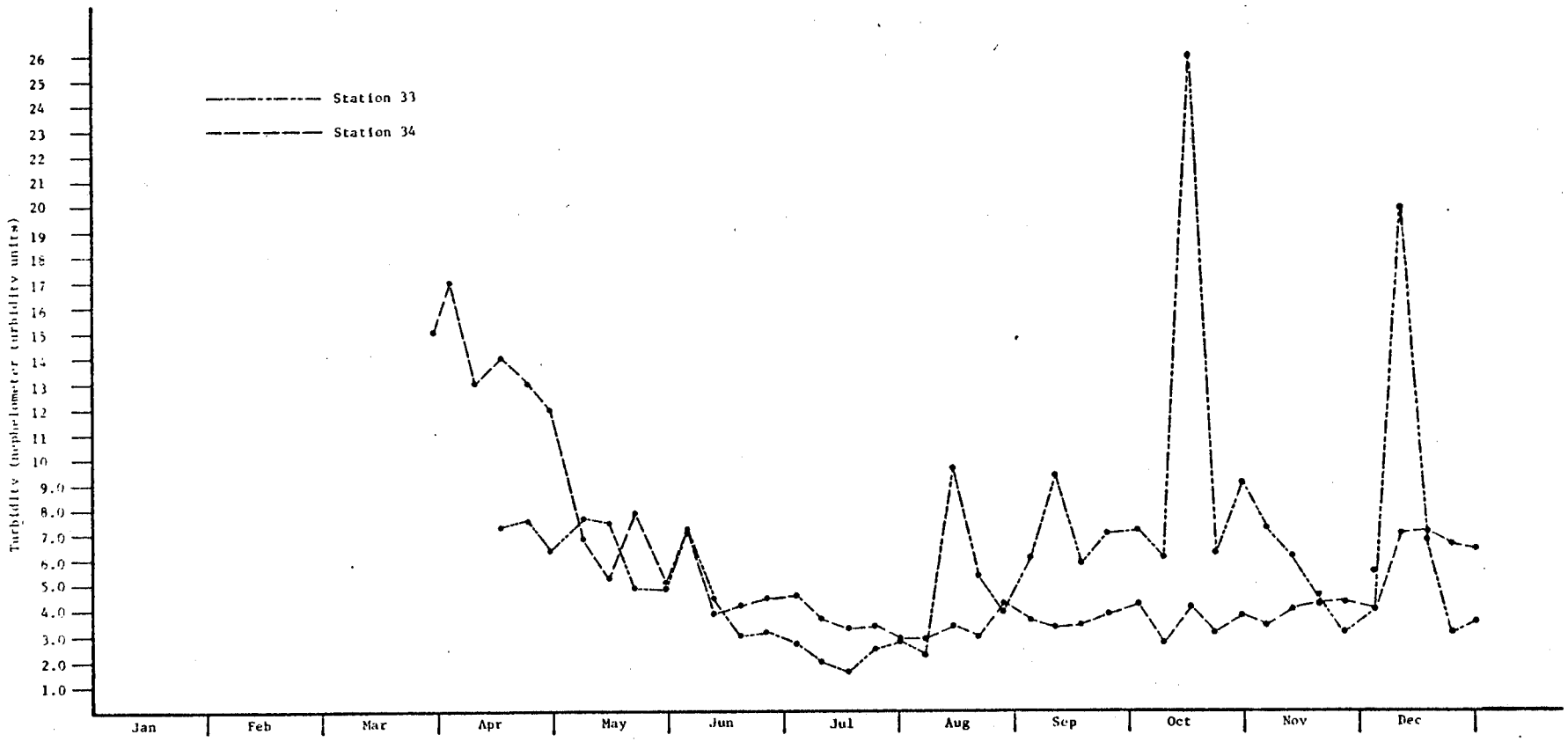


Fig. 11. Summary of mean weekly turbidity data (nephelometer turbidity units) taken from 26 March through 30 December 1976 in Schoharie Reservoir and Lower B-G.

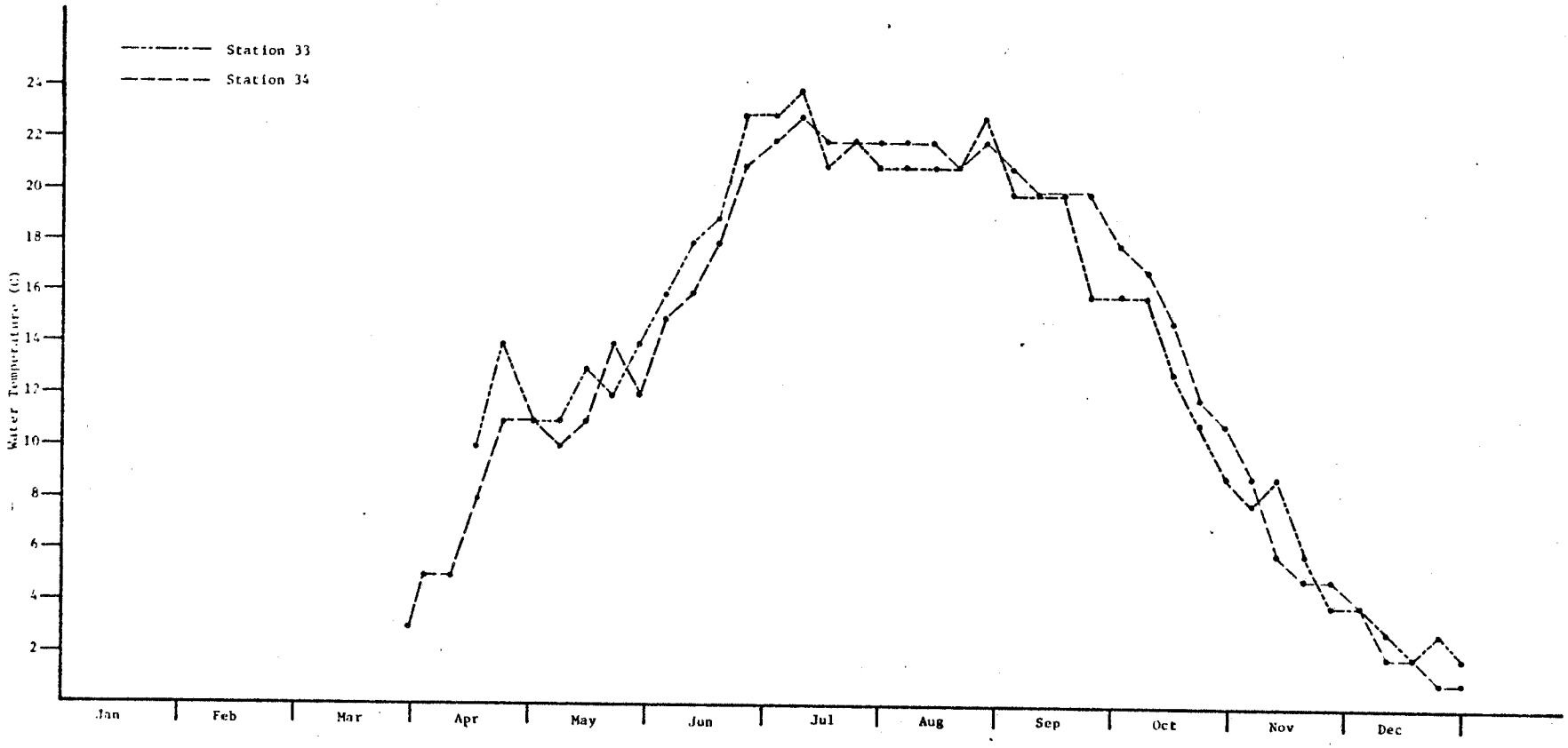


Fig. 12. Summary of mean weekly water temperature data (C) taken from 26 March through 30 December 1976 in Schoharie Reservoir and Lower B-G.

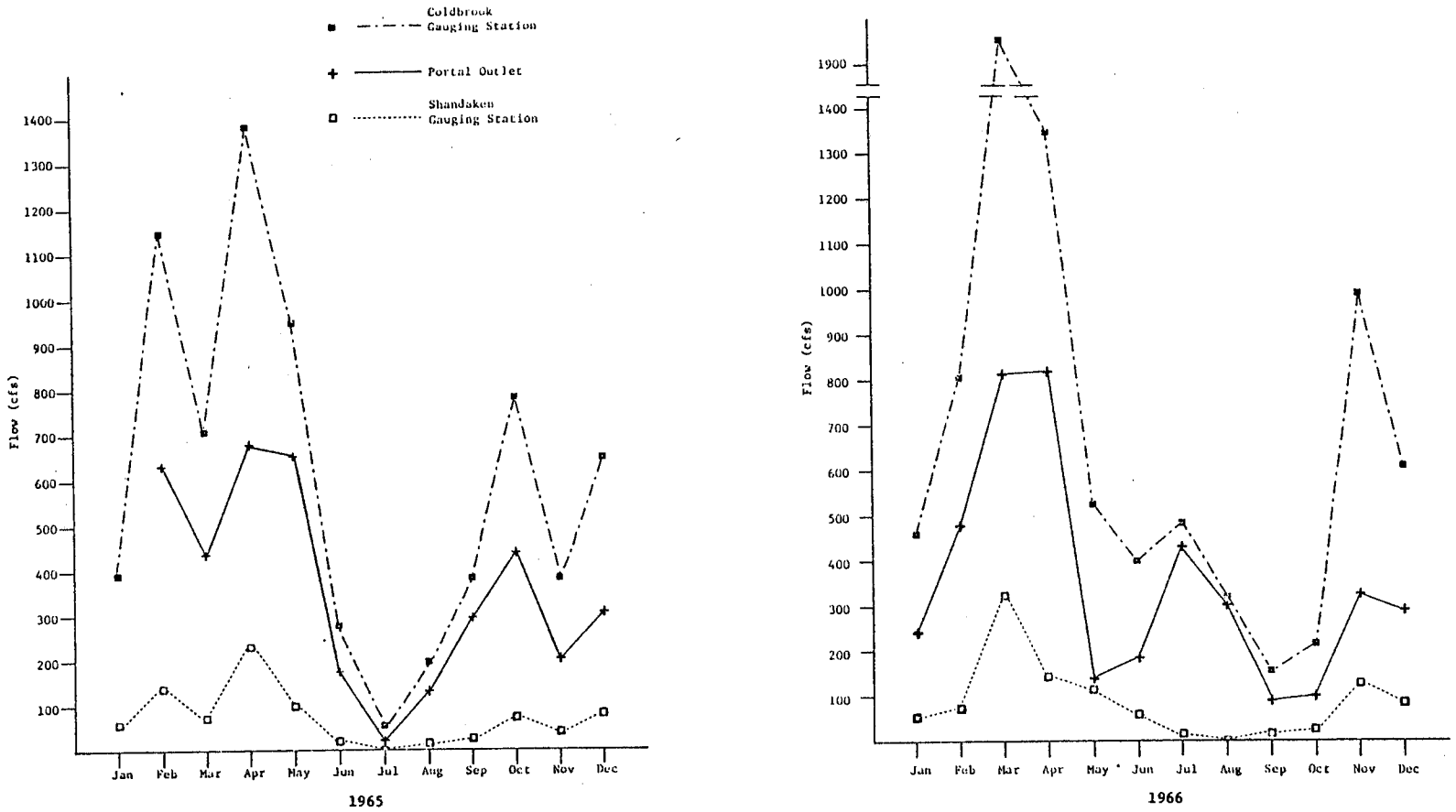


Fig. 13. Summary of yearly flow data (cfs) taken from 1965 through 1976 from the Coldbrook gaging station, the Shandaken Tunnel outlet, and the Shandaken gaging station on Esopus Creek.

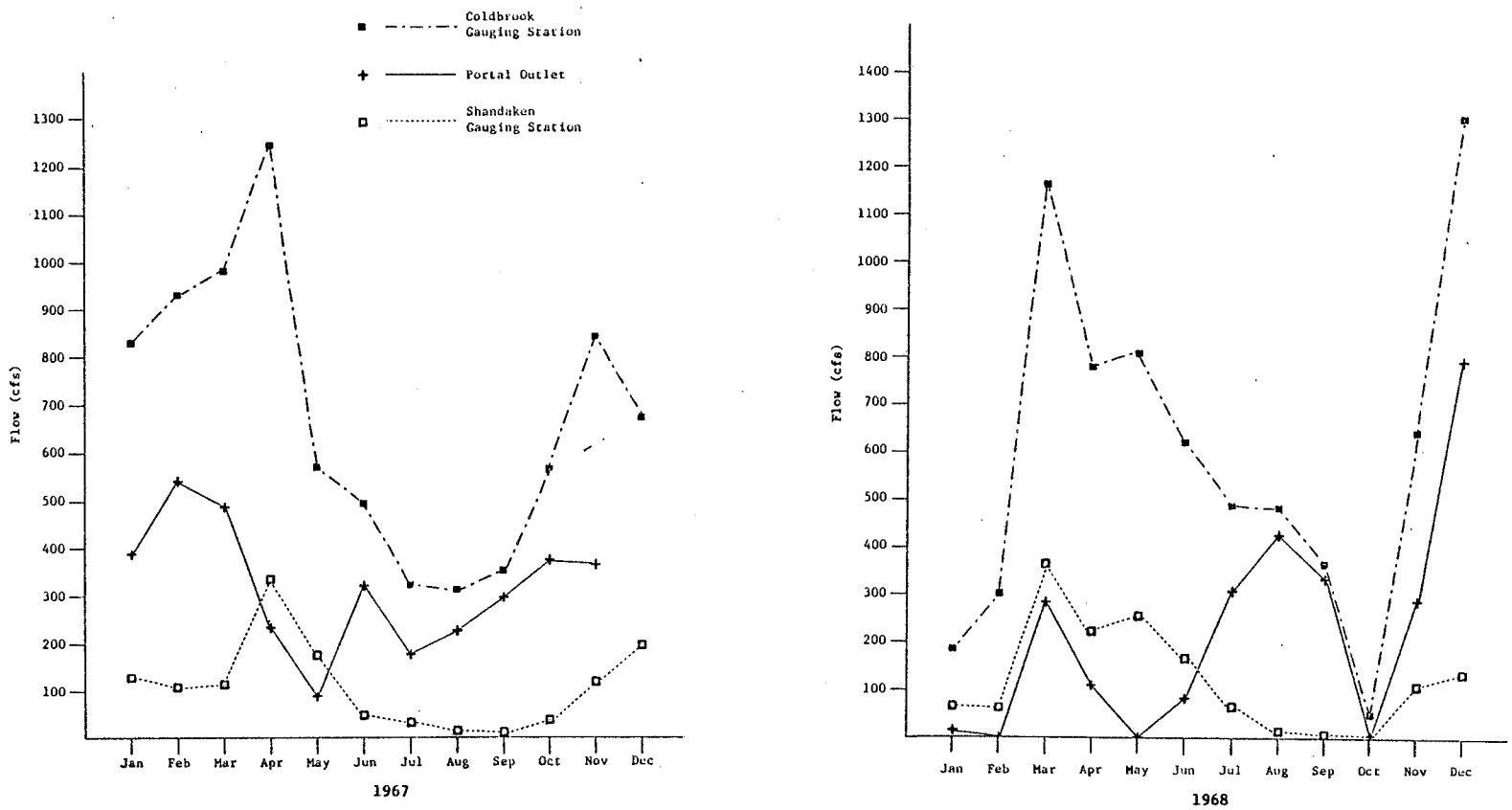


Fig. 13 - (Continued).

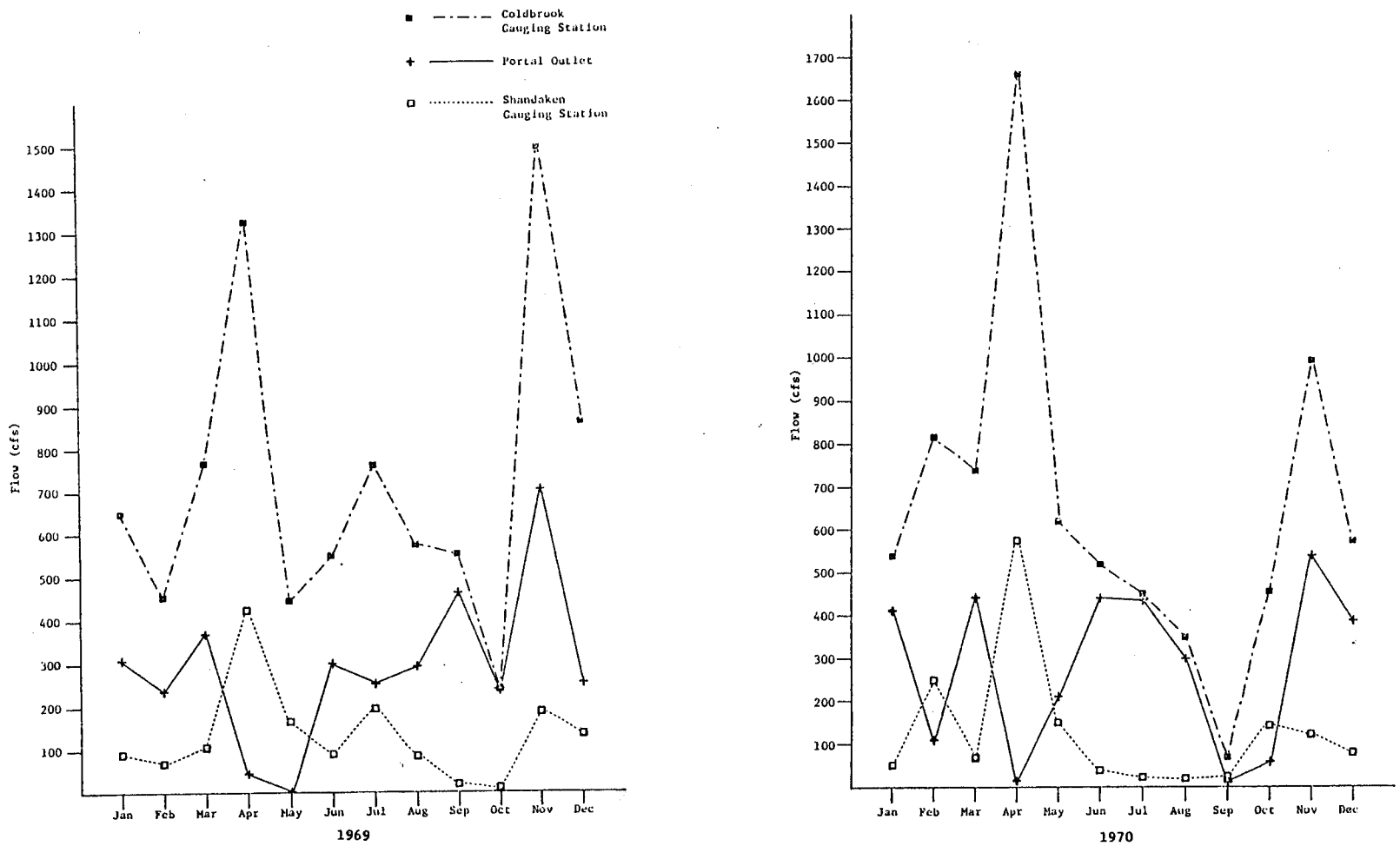
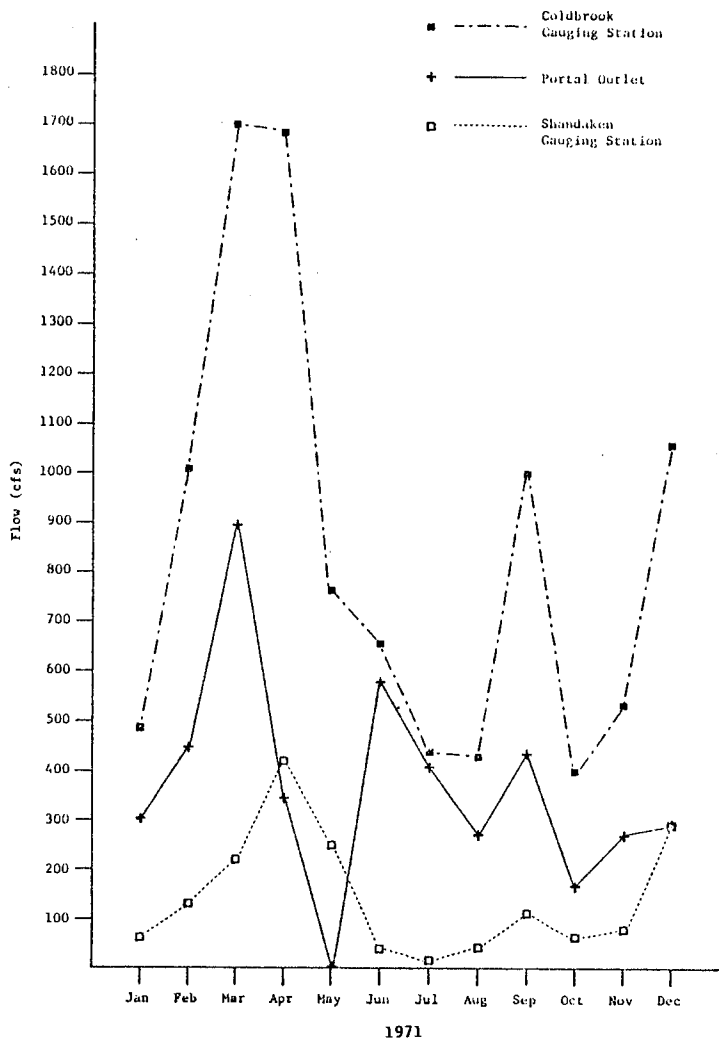


Fig. 13 - (Continued).



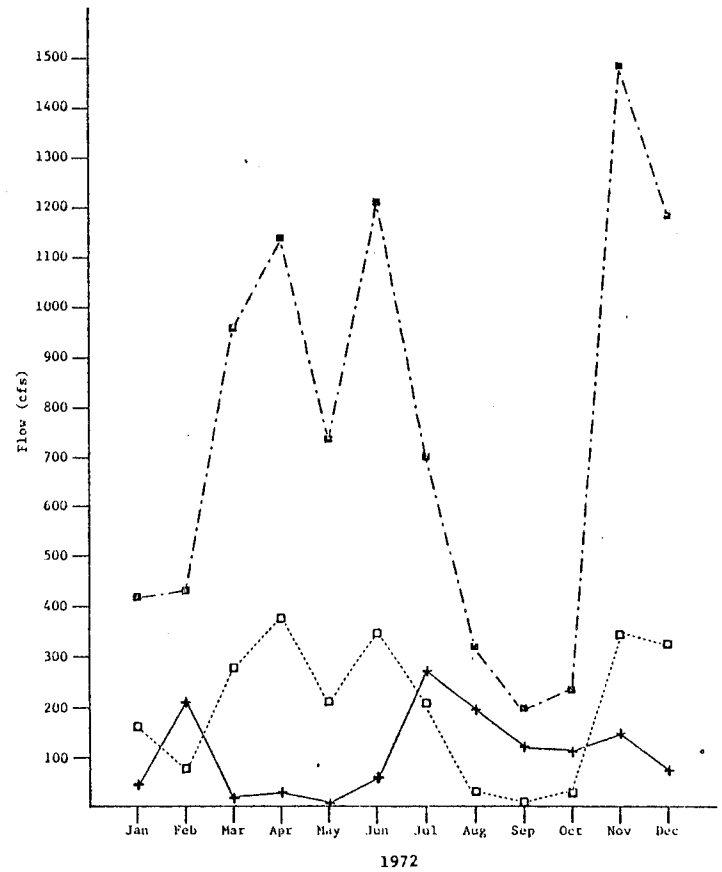


Fig. 13 - (Continued).

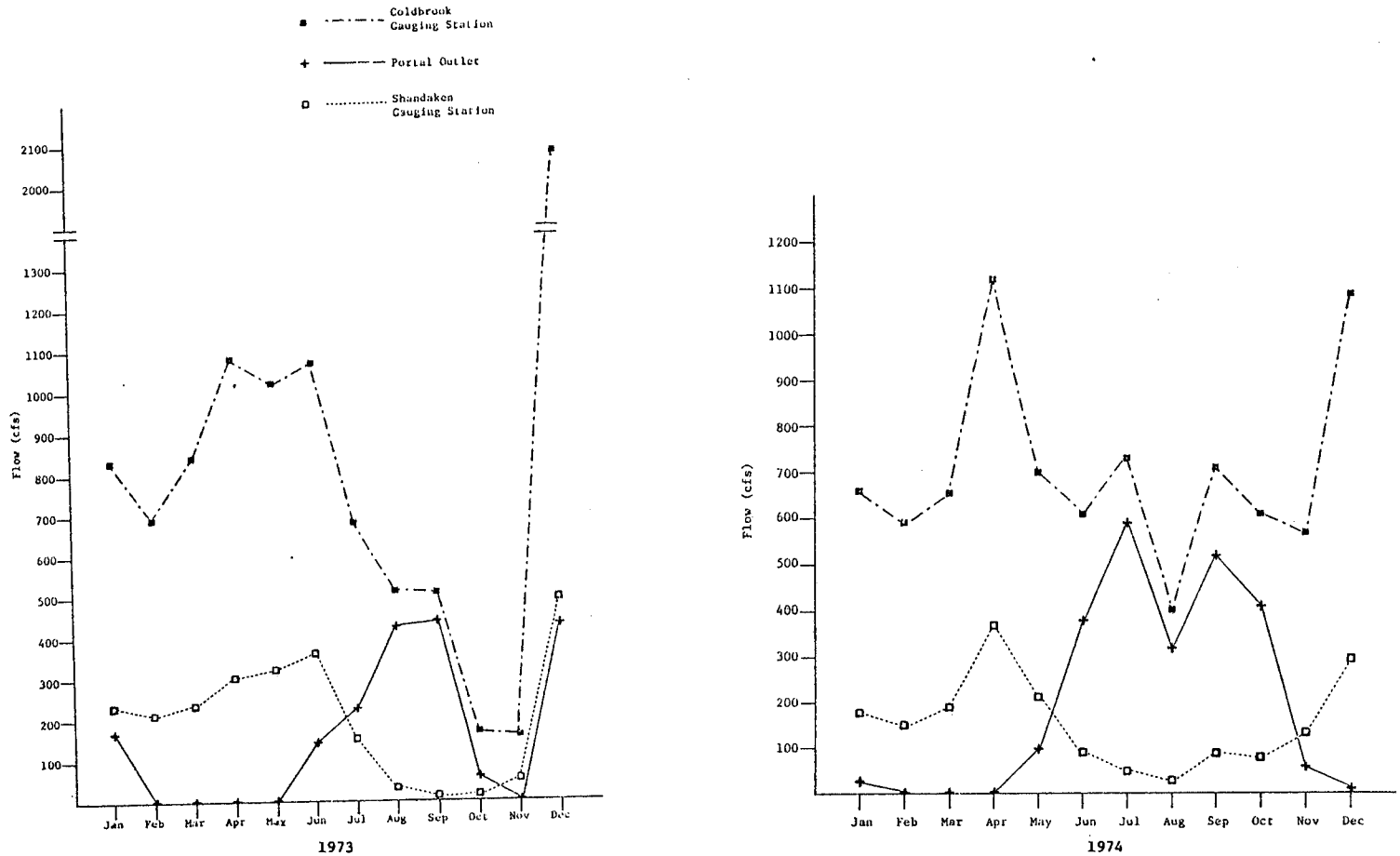


Fig. 13 - (Continued).

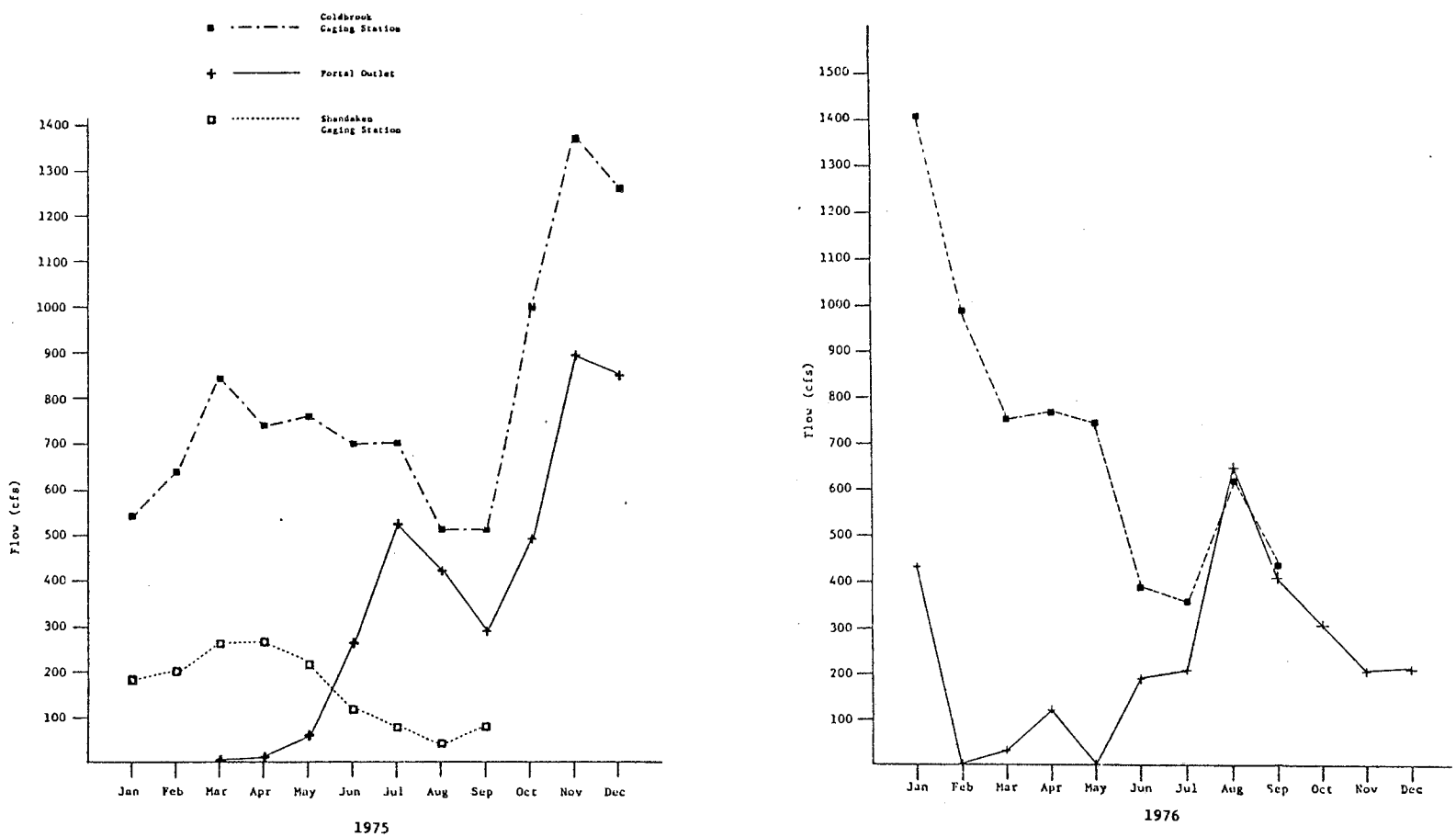


Fig. 13 - (Continued).

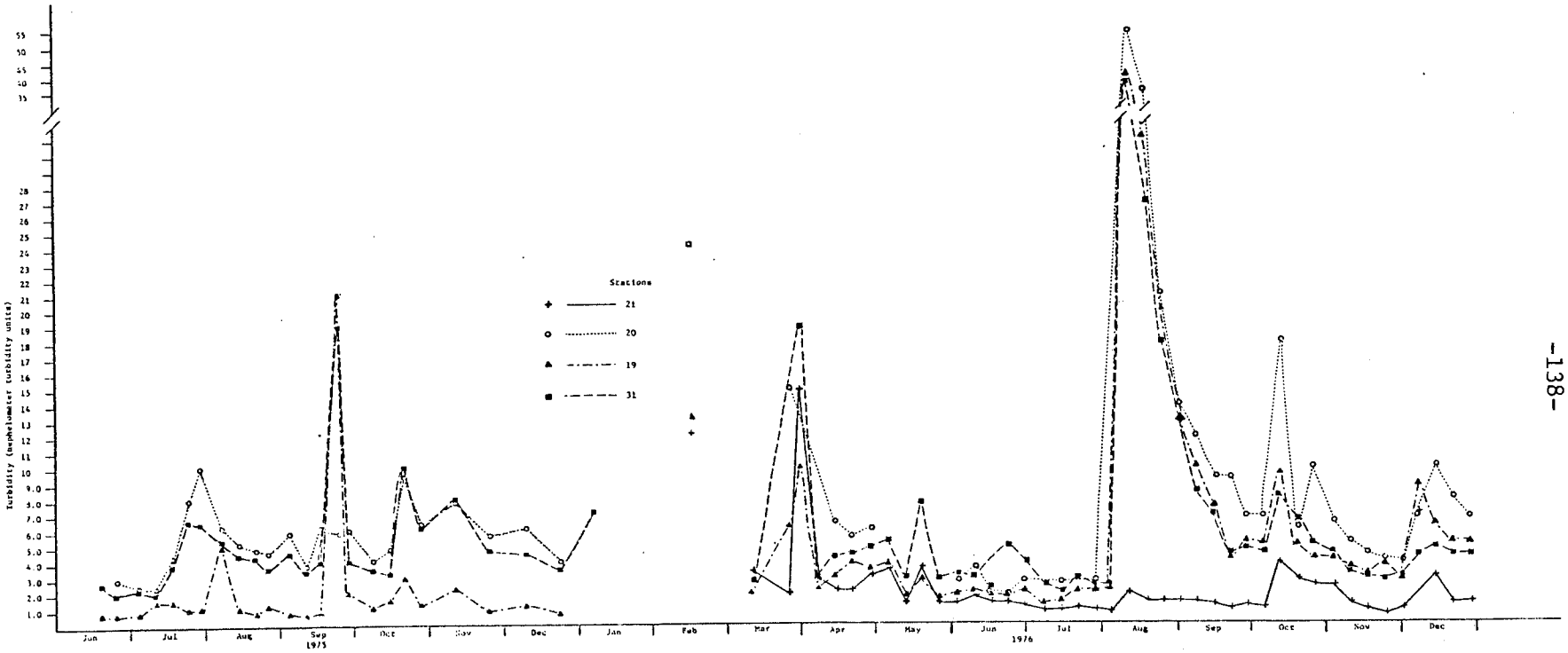


Fig. 14. Summary of weekly turbidity data (nephelometer turbidity units) taken from 19 June 1975 through 26 March 1976 and mean weekly turbidity data (nephelometer turbidity units) taken from 30 March through 30 December 1976 in Esopus Creek and the Shandaken Tunnel outlet.

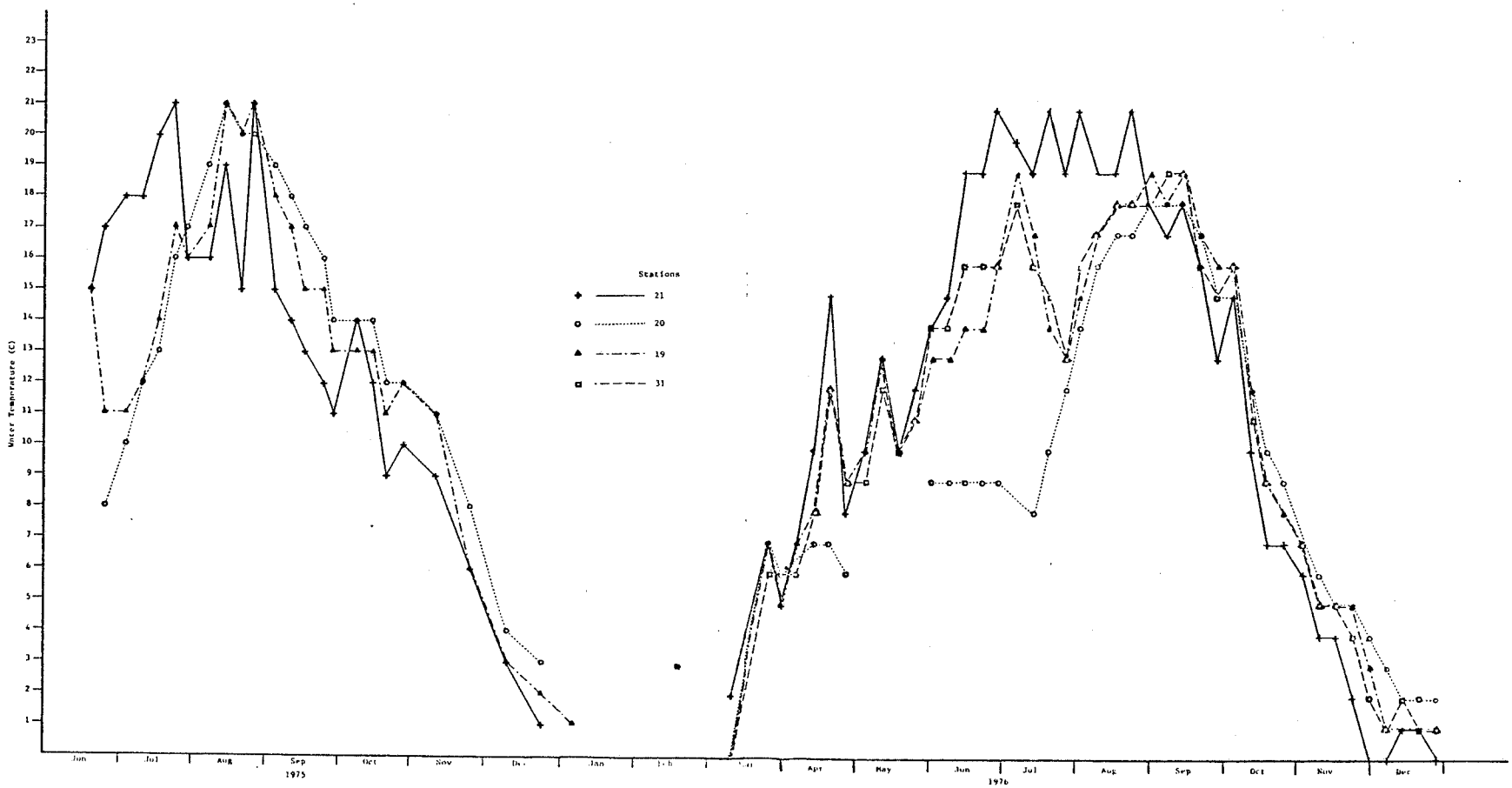


Fig. 15. Summary of weekly water temperature data (C) taken from 19 June 1975 through 26 March 1976 and mean weekly water temperature data (C) taken from 30 March through 30 December 1976 in Esopus Creek and the Shandaken Tunnel outlet.

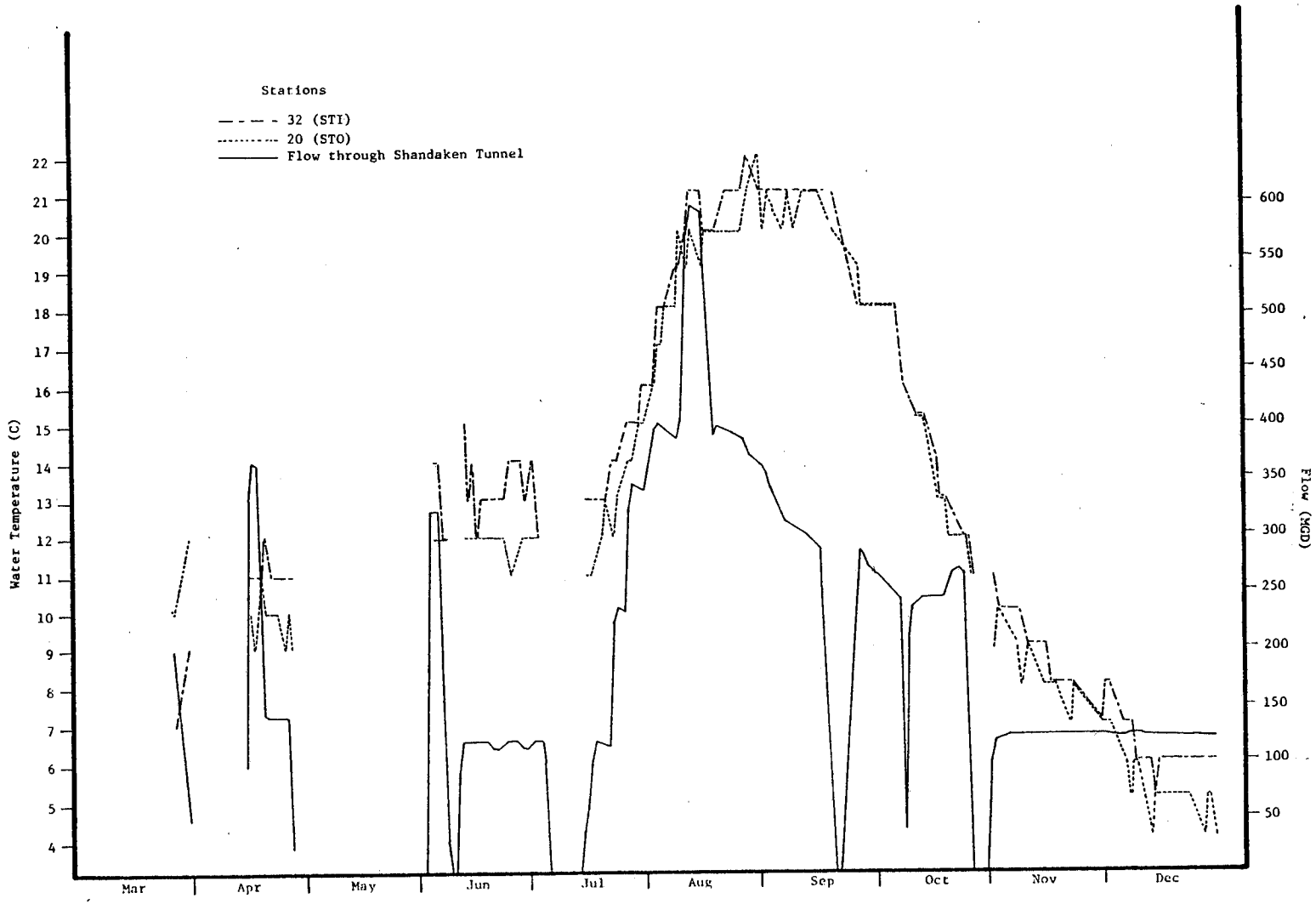


Fig. 16. Summary of water temperature data (C) taken from 26 March through 30 December 1976 in the Shandaken Tunnel intake (STI) and the Shandaken Tunnel outlet (STO) and flow data (MGD) through the Shandaken Tunnel from 26 March through 30 December 1976.

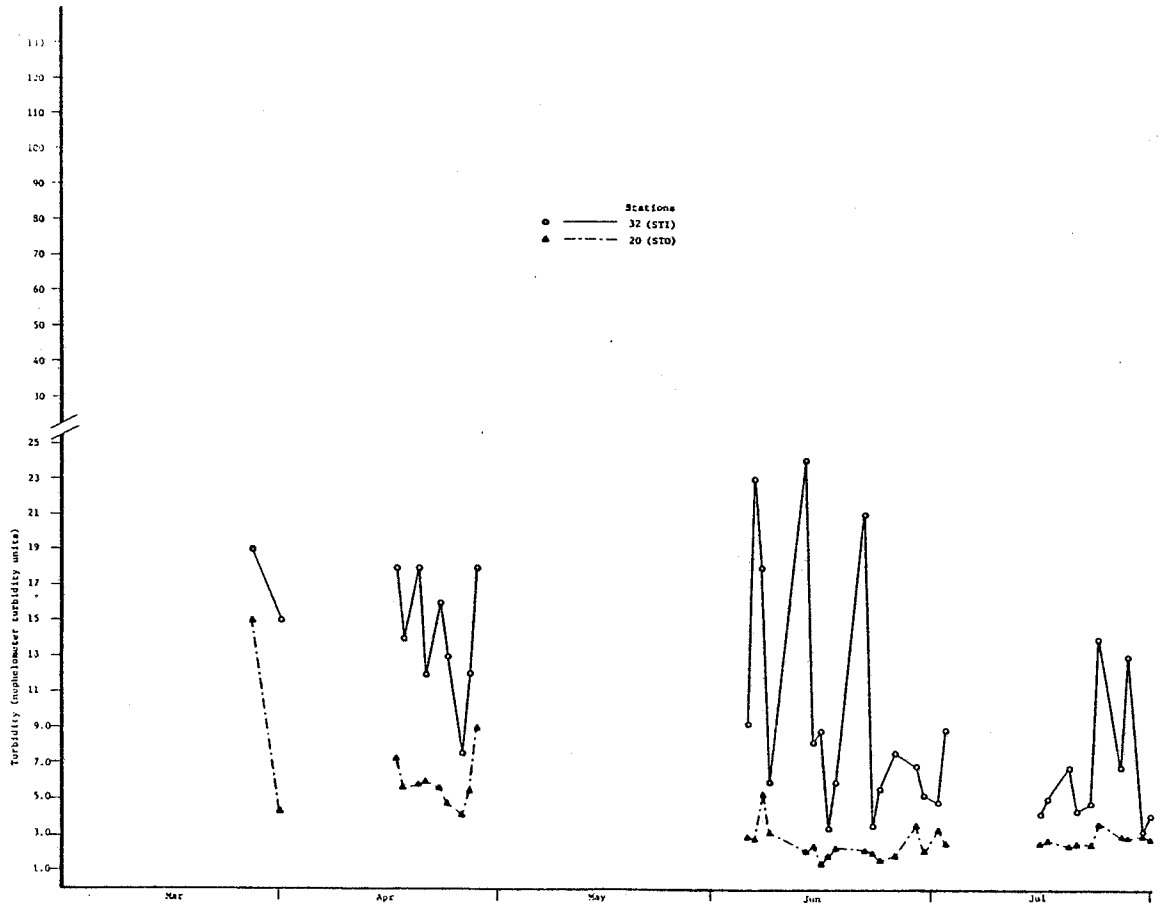


Fig. 17. Summary of turbidity data (nephelometer turbidity units) taken from 26 March through 30 December 1976 in the Shandaken Tunnel intake (STI) and the Shandaken Tunnel outlet (STO).

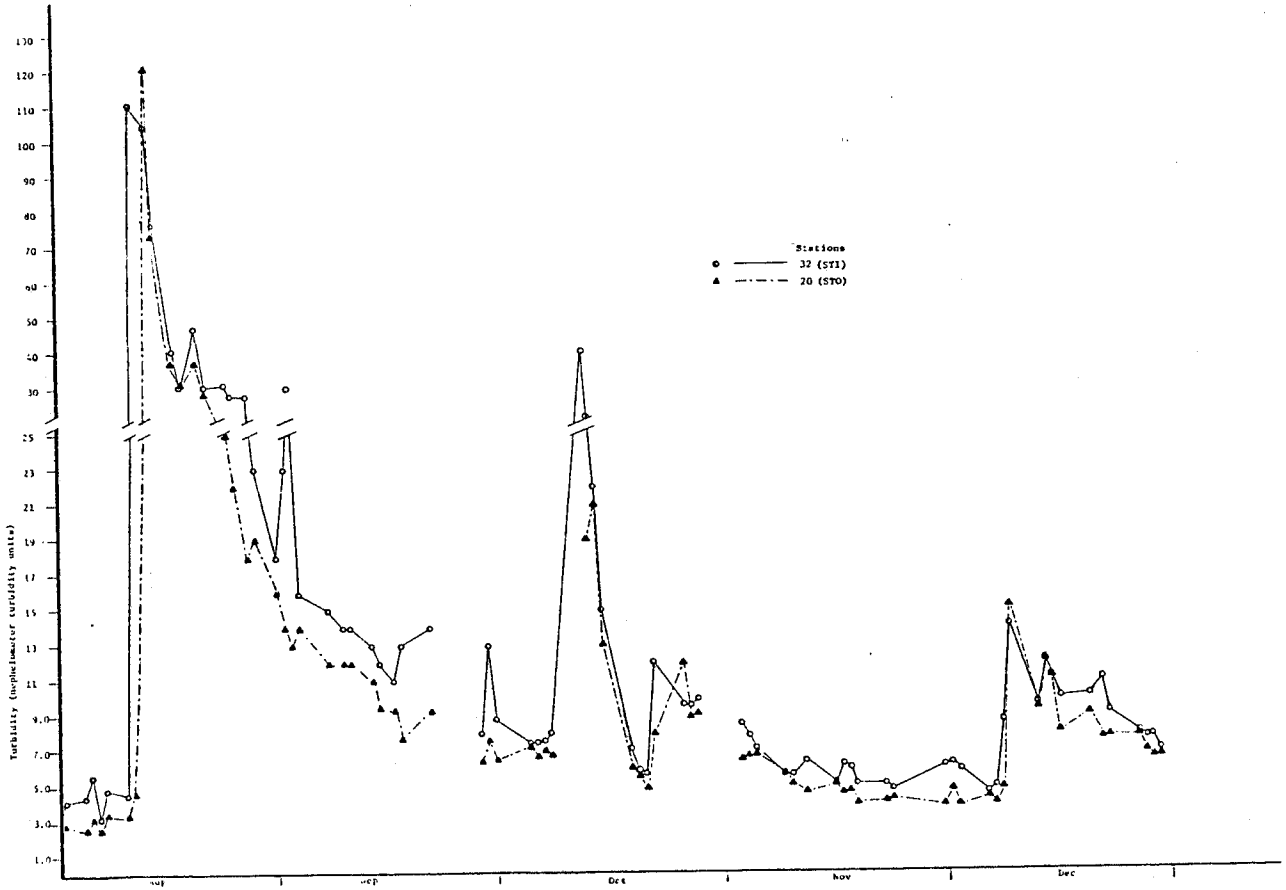


Fig. 17 - (Continued).