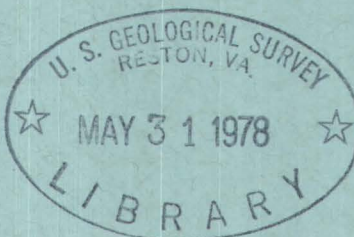


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Water Resources Data for New York Water Year 1977

Volume 1. New York excluding Long Island



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U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-77-1

Prepared in cooperation with the State of New York
and with other agencies

CALENDAR FOR WATER YEAR 1977

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Water Resources Data for New York Water Year 1977

Volume 1. New York excluding Long Island



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-77-1

**Prepared in cooperation with the State of New York
and with other agencies**

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

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Syosset, New York 11791

1978

PREFACE

This report was prepared by personnel of the New York district of the Water Resources Division of the U.S. Geological Survey under the supervision of R. J. Dingman, District Chief, and J. T. Callahan, Regional Hydrologist, succeeded by F. T. Schaefer, Acting Regional Hydrologist, Northeastern Region. It was done in cooperation with the State of New York and with other agencies.

This report is one of a series issued by State. General direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, U.S. Geological Survey, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

Data for New York are in two volumes as follows:

- Volume 1. New York excluding Long Island
- Volume 2. Long Island

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15. Supplementary Notes Prepared in cooperation with the State of New York and with other agencies.			
16. Abstracts Water resources data for the 1977 water year for New York consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes; stage and contents of reservoirs; water quality of precipitation; and water levels and water quality of ground water. This report (Volume 1) contains discharge records for 192 gaging stations; stage only records for 32 gaging stations (includes 30 lake and reservoir stations and 2 other river stations); stage and contents for 20 other lakes and reservoirs; water quality for 67 gaging stations (includes 4 lake stations), 17 partial-record stations, and 8 precipitation stations; and water levels for 40 observation wells. Also included are 140 crest-stage partial-record stations and 32 low-flow partial-record stations. Additional water data were collected at various sites, not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey in cooperation with State, Federal, and other agencies in New York.			
17. Key Words and Document Analysis. 17a. Descriptors *New York, *Hydrologic data, *Surface waters, *Groundwater, *Water quality, Flow rates, Gaging stations, Lakes, Reservoirs, Chemical analysis, Sediments, Water temperature, Water levels, Water analysis			
17b. Identifiers/Open-Ended Terms Sampling sites			
17c. COSATI Field/Group			
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CONTENTS

	Page
Preface.....	III
List of gaging stations, in downstream order, for which records are published.....	VI
Introduction.....	1
Cooperation.....	2
Hydrologic conditions.....	3
Definition of terms.....	4
Downstream order and station numbers.....	11
Numbering system for wells.....	11
Special networks and programs.....	12
Explanation of stage and water-discharge records.....	12
Collection and computation of data.....	12
Accuracy of field data and computed results.....	15
Other data available.....	15
Explanation of water-quality records.....	15
Collection and examination of data.....	15
Water analysis.....	16
Water temperatures.....	16
Sediment.....	16
Explanation of ground-water level records.....	17
Collection of data.....	17
Publications on techniques of water-resources investigations.....	18
Gaging station records.....	28
Discharge at partial-record stations and miscellaneous sites.....	471
Low-flow partial-record stations.....	471
Crest-stage partial-record stations.....	475
Miscellaneous sites.....	488
Analyses of samples collected at water-quality partial-record stations.....	497
Suspended-sediment data.....	497
Analyses of samples collected at miscellaneous sites.....	515
Water quality data.....	515
Five-day biochemical oxygen demand and field data.....	519
Suspended-sediment data.....	520
Analyses of samples collected at precipitation-quality stations.....	521
Ground-water records.....	529
Ground-water level records.....	529
Quality of ground-water records.....	548
Index.....	561

ILLUSTRATIONS

Figure	1. System for numbering wells.....	11
	2. Hydrographic comparisons, Susquehanna River at Conklin, NY.....	20
	3. Hydrographic comparisons, Allegheny River at Salamanca, NY.....	21
	4. Hydrographic comparisons, West Branch Oswegatchie River near Harrisville, NY.....	22
	5. Hydrographic comparisons, Wappinger Creek near Wappingers Falls, NY...	23
6A.	Map showing location of gaging stations and observation wells in eastern part of State and north of Rockland and Westchester Counties.....	24,25
6B.	Map showing location of gaging stations and observation wells in western part of State.....	26
6C.	Map showing location of gaging stations and observation wells in Rockland and Westchester Counties.....	27
	7. Map showing gaging stations and diversions near mouth of Mohawk River.....	100
	8. Map showing gaging stations and transbasin diversion, Cohocton River-Keuka Lake area.....	251

TABLE

Table	1. Factors for converting U.S. customary units to International System Units (SI).....	inside of back cover
-------	--	----------------------

[Letter after station name designates type of data: (d) discharge, (e) contents and/or elevation, (c) chemical, (b) biological, (t) water temperature, (s) sediment]

<u>NORTH ATLANTIC SLOPE BASINS</u>	Page
<u>HOUSATONIC RIVER BASIN</u>	
Housatonic River:	
Tenmile River near Gaylordsville, CT (d).....	28
<u>BLIND BROOK BASIN</u>	
Blind Brook at Rye (d).....	29
<u>BEAVER SWAMP BROOK BASIN</u>	
Beaver Swamp Brook at Mamaroneck (d).....	30
<u>MAMARONECK RIVER BASIN</u>	
Mamaroneck River at Mamaroneck (d).....	31
<u>HUTCHINSON RIVER BASIN</u>	
Hutchinson River at Pelham (d).....	32
<u>BRONX RIVER BASIN</u>	
Bronx River at Bronxville (d).....	33
<u>HUDSON RIVER BASIN</u>	
Hudson River near Newcomb (d).....	34
Indian Lake (head of Indian River) near Indian Lake (e).....	35
Indian River near Indian Lake (d).....	36
Hudson River at North Creek (d).....	37
Hudson River at Hadley (d).....	38
Sacandaga River:	
East Branch Sacandaga River at Griffin (d).....	39
Sacandaga River near Hope (d).....	40
Great Sacandaga Lake at Conklingville (e).....	41
Sacandaga River at Stewarts Bridge, near Hadley (d).....	42
Glens Falls feeder at Dunham Basin (d).....	43
Hudson River at Glens Falls (cs).....	44
Hudson River at Fort Edward (d).....	47
Bond Creek at Dunham Basin (d).....	48
Batten Kill at Arlington, VT (d).....	49
Hudson River at Schuylerville (cs).....	50
Kayaderosseras Creek (head of Fish Creek) near West Milton (dt).....	54
Hudson River at Stillwater (cs).....	57
Hoosic River near Williamstown, MA (d).....	61
Green River at Williamstown, MA (d).....	62
Little Hoosic River at Petersburg (d).....	63
Walloomsac River near North Bennington, VT (d).....	64
Hoosic River near Eagle Bridge (d).....	65
Hudson River at Waterford (cs).....	66
Mohawk River:	
Black River Canal (flowing south) near Boonville (d).....	414
Mohawk River below Delta Dam, near Rome (dt).....	73
West Canada Creek at Kast Bridge (d).....	76
Mohawk River near Little Falls (d).....	77
East Canada Creek at East Creek (d).....	78
Otsquago Creek at Fort Plain (d).....	79
Silver Lake Outlet at Hensonville (d).....	80
Schoharie Creek at Prattsville (ds).....	81
Schoharie Reservoir near Grand Gorge (e).....	83
Schoharie Creek at Gilboa (d).....	84
Platter Kill at Gilboa (d).....	85
Mine Kill near North Blenheim (d).....	86
Schoharie Creek at North Blenheim (dt).....	87
West Kill at North Blenheim (d).....	90
Schoharie Creek at Breakabeen (d).....	91
Schoharie Creek at Burtonsville (d).....	92
Mohawk River at Tribes Hill (c).....	93
Mohawk River at Lock 10 at Cranesville (c).....	95
Mohawk River at Schenectady (c).....	97

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED
(Continued)

VII

Page

NORTH ATLANTIC SLOPE BASINS--Continued

HUDSON RIVER BASIN--Continued

Mohawk River at Cohoes (dcs).....	99
Hudson River at Green Island (dcbts).....	107
Mill Creek near East Greenbush (d).....	114
Normans Kill:	
Hunger Kill at Guilderland (dc).....	115
Normans Kill near Westmere (dc).....	117
Hudson River at Glenmont (c).....	119
Moordener Kill at Castleton-on-Hudson (d).....	121
Coeymans Creek near Selkirk (dc).....	122
Hannacrois Creek near New Baltimore (dc).....	124
Catskill Creek at Oak Hill (dc).....	126
Tenmile Creek at Oak Hill (dc).....	128
Esopus Creek at Shandaken (dcts).....	130
Esopus Creek at Coldbrook (ds).....	135
Esopus Creek at Mount Marion (d).....	137
Rondout Creek near Lowes Corners (d).....	138
Chestnut Creek at Grahamsville (d).....	139
Sandburg Creek at Ellenville (d).....	140
Rondout Creek at Rosendale (d).....	141
Wallkill River near Unionville (dc).....	142
Pochuck Creek near Pine Island (d).....	145
Quaker Creek at Florida (d).....	146
Wallkill River at Gardiner (d).....	147
Wappinger Creek near Wappingers Falls (d).....	148
Croton River at New Croton Dam, near Croton-on-Hudson (d).....	149
Sparkill Creek at Sparkill (dc).....	150
Saw Mill River at Yonkers (dc).....	152
Reservoirs and diversions in Hudson River basin (de).....	154

HACKENSACK RIVER BASIN

Hackensack River at West Nyack (d).....	157
Hackensack River at Rivervale, NJ (d).....	158
Reservoirs and diversions in Hackensack River basin (de).....	159

PASSAIC RIVER BASIN

 Pequannock River (head of Pompton River):

 Ramapo River:

Mahwah River near Suffern (d).....	161
Ramapo River near Mahwah, NJ (d).....	162

DELAWARE RIVER BASIN

East Branch Delaware River at Margaretville (d).....	163
Mill Brook near Dunraven (d).....	164
Tremper Kill near Andes (d).....	165
East Branch Delaware River at Downsview (d).....	166
Beaver Kill:	
Willowemoc Creek:	
Little Beaver Kill near Livingston Manor (d).....	167
Beaver Kill at Cooks Falls (d).....	168
East Branch Delaware River at Fishs Eddy (dt).....	169
West Branch Delaware River at Walton (d).....	172
West Branch Delaware River at Stilesville (dt).....	173
Butler Brook at Deposit (d).....	176
Oquaga Creek near North Sanford (dct).....	177
West Branch Delaware River at Hale Eddy (dt).....	180
Delaware River at Lordville (t).....	183
Callicoon Creek at Callicoon (d).....	185
Delaware River at Callicoon (dt).....	186
Delaware River at Skinners Falls (t).....	189
Delaware River above Lackawaxen River near Barryville (dt).....	191

NORTH ATLANTIC SLOPE BASINS--Continued

DELAWARE RIVER BASIN--Continued

Delaware River at Barryville (t).....	194
Delaware River at Pond Eddy (t).....	196
Mongaup River near Mongaup (d).....	198
Delaware River at Port Jervis (dt).....	199
Neversink River near Claryville (d).....	202
Neversink River at Neversink (d).....	203
Neversink River at Godeffroy (d).....	204
Delaware River at Montague, NJ (d).....	205
Reservoirs and diversions in Delaware River basin (de).....	206

SUSQUEHANNA RIVER BASIN

Susquehanna River:

Canadarago Lake (head of Oaks Creek) at Schuyler Lake (e).....	209
Oaks Creek at Index (d).....	210
Ouleout Creek:	
East Sidney Lake at East Sidney (e).....	211
Ouleout Creek at East Sidney (d).....	212
Susquehanna River at Unadilla (d).....	213
Unadilla River:	
Mill Brook at New Berlin (d).....	214
Butternut Creek at Morris (d).....	215
Unadilla River at Rockdale (d).....	216
Susquehanna River near Great Bend, PA (c).....	217
Susquehanna River at Conklin (d).....	218
Chenango River at Sherburne (d).....	219
East Branch Tioughnioga River (head of Tioughnioga River):	
West Branch Tioughnioga River:	
Factory Brook at Homer (c).....	220
West Branch Tioughnioga River at Homer (dc).....	221
Tioughnioga River at Cortland (dt).....	223
Gridley Creek above East Virgil (dc).....	225
Otselic River at Cincinnatus (d).....	228
Whitney Point Lake at Whitney Point (e).....	229
Chenango River near Chenango Forks (d).....	230
Susquehanna River at Johnson City (t).....	231
Nanticoke Creek:	
East Branch Nanticoke Creek above Glen Aubrey (d).....	232
Nanticoke Creek at Union Center (d).....	233
Owego Creek near Owego (d).....	234
Susquehanna River near Waverly (d).....	235
Susquehanna River at Sayre, PA (c).....	236
Tioga River (head of Chemung River) at Lindley (dcts).....	237
Canisteo River:	
Arkport Reservoir near Arkport (e).....	243
Canisteo River at Arkport (d).....	244
Canacadea Creek:	
Almond Lake near Almond (e).....	245
Canacadea Creek near Hornell (d).....	246
Canisteo River below Canacadea Creek, at Hornell (d).....	247
Tioga River near Erwins (d).....	248
Cohocton River at Cohocton (d).....	249
Fivemile Creek near Kanona (d).....	250
Diversion from Waneta Lake to Keuka Lake at Keuka (d).....	251
Mud Creek near Savona (d).....	252
Cohocton River near Campbell (d).....	253
Chemung River at Corning (d).....	254
Newtown Creek at Breesport (d).....	255
Newtown Creek at Elmira (d).....	256
Chemung River at Chemung (dcts).....	257
Lakes and reservoirs in Susquehanna River basin (de).....	263

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED
(Continued)

IX

Page

* * * * *

OHIO RIVER BASIN

ALLEGHENY RIVER BASIN

Allegheny River (head of Ohio River) at Salamanca (d).....	264
Conewango Creek below South Dayton (d).....	265
Conewango Creek at Waterboro (d).....	266
Cassadaga Creek:	
Chautauqua Lake (head of Chadakoin River) at Bemus Point (e).....	267
Chadakoin River at Falconer (d).....	268
Lakes and reservoirs in Allegheny River basin (e).....	269

* * * * *

ST. LAWRENCE RIVER BASIN

Lake Erie:

STREAMS TRIBUTARY TO LAKE ERIE

Cattaraugus Creek:

Buttermilk Creek:

Franks Creek near West Valley (d).....	270
Cattaraugus Creek at Gowanda (dc).....	271
Cattaraugus Creek at Irving (c).....	273
Buffalo Creek (head of Buffalo River):	
Buffalo Creek at Gardenville (d).....	274
Cayuga Creek near Lancaster (d).....	275

Buffalo River:

Cazenovia Creek at Ebenezer (d).....	276
Lake Erie at Buffalo (e).....	277

ST. LAWRENCE RIVER MAIN STEM

Niagara River at Buffalo (d).....	278
<u>STREAMS TRIBUTARY TO NIAGARA RIVER</u>	
Scajaquada Creek at Buffalo (d).....	279
Tonawanda Creek at Batavia (d).....	280
Tonawanda Creek near Alabama (d).....	281
Ellicott Creek below Williamsville (d).....	282
Erie (Barge) Canal at Lock 30, Macedon (d).....	283
Niagara River (Lake Ontario) at Fort Niagara (cbts).....	284

ST. LAWRENCE RIVER BASIN--Continued

Lake Ontario:

STREAMS TRIBUTARY TO LAKE ONTARIO

Oak Orchard Creek:

Manning Muckland Creek near Barre Center (d)..... 291

Manning Muckland Creek Tributary near Elba (d)..... 292

Lake Ontario near Rochester (c)..... 293

Genesee River at Wellsville (dcs)..... 296

Rushford Lake at Caneadea Dam (e)..... 299

Caneadea Creek at Caneadea Dam (d)..... 299

Genesee River at Portageville (ds)..... 300

Mount Morris Lake near Mount Morris (e)..... 308

Canaseraga Creek above Dansville (ds)..... 309

Canaseraga Creek near Dansville (s)..... 312

Keshequa Creek at Craig Colony, Sonyea (ds)..... 313

Canaseraga Creek at Shakers Crossing (ds)..... 317

Genesee River near Mount Morris (ds)..... 323

Conesus Lake near Lakeville (e)..... 329

Genesee River at Avon (ds)..... 330

Honeoye Lake (head of Honeoye Creek) near Honeoye (e)..... 335

Hemlock Lake (head of Hemlock Outlet) near Hemlock (c)..... 336

Hemlock Outlet:

Canadice Lake near Hemlock (e)..... 339

Canadice Outlet near Hemlock (d)..... 339

Honeoye Creek at Honeoye Falls (d)..... 340

Oatka Creek at Warsaw (ds)..... 341

Oatka Creek at Garbutt (ds)..... 343

Genesee River at Ballantyne Bridge near Mortimer (e)..... 346

Black Creek at Churchville (d)..... 347

Genesee River at Rochester (ds)..... 348

Genesee River at Charlotte Docks at Rochester (cbs)..... 352

Irondequoit Creek at East Rochester (d)..... 356

Allen Creek near Rochester (d)..... 357

Irondequoit Creek at Browncroft Boulevard, Rochester (ct)..... 358

Lake Ontario (point A) near Webster (c)..... 362

Lake Ontario (point B) near Webster (c)..... 366

Sterling Creek at Sterling (d)..... 369

Seneca River (head of Oswego River):

Catharine Creek at Montour Falls (d)..... 370

Seneca Lake at Watkins Glen (e)..... 371

Keuka Lake at Hammondsport (e)..... 372

Keuka Lake Outlet at Dresden (d)..... 373

Seneca River:

Cayuga Inlet near Ithaca (d)..... 374

Cayuga Lake at Ithaca (e)..... 375

Fall Creek near Ithaca (d)..... 376

Clyde River:

Canandaigua Lake at Canandaigua (e)..... 377

Canandaigua Outlet at Chapin (d)..... 378

Flint Creek at Potter (d)..... 379

Flint Creek at Phelps (d)..... 380

Owasco Lake near Auburn (e)..... 381

Owasco Outlet near Auburn (d)..... 382

Skaneateles Lake at Skaneateles (e)..... 383

Seneca River at Baldwinsville (d)..... 384

Onondaga Creek (head of Onondaga Lake Outlet):

Onondaga Reservoir near Nedrow (e)..... 385

Onondaga Creek at Dorwin Avenue, Syracuse (d)..... 386

Onondaga Creek at Spencer Street, Syracuse (d)..... 387

Onondaga Lake:

Harbor Brook at Syracuse (d)..... 388

Harbor Brook at Hiawatha Boulevard, Syracuse (d)..... 389

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED
(Continued)

XI

Page

ST. LAWRENCE RIVER BASIN--Continued

Lake Ontario:--Continued

STREAMS TRIBUTARY TO LAKE ONTARIO--Continued

Seneca River:--Continued

Onondaga Lake:--Continued

Ley Creek at Park Street, Syracuse (d).....	390
Ninemile Creek near Marietta (d).....	391
Ninemile Creek at Camillus (d).....	392
Ninemile Creek at Lakeland (d).....	393
Onondaga Lake at Liverpool (e).....	394
Fish Creek (head of Oneida River):	
East Branch Fish Creek at Taberg (d).....	395
Oneida River (Oneida Lake):	
Oneida Creek at Oneida (d).....	396
Chittenango Creek:	
Limestone Creek at Fayetteville (d).....	397
Butternut Creek near Jamesville (d).....	398
Oneida Lake at Brewerton (e).....	399
Oneida River at Caughdenoy (d).....	400
Oswego River at Lock 7, Oswego (dcbs).....	401
Lake Ontario at Oswego (e).....	412
Sandy Creek near Adams (d).....	413
Black River:	
Black River Canal (flowing south) near Boonville (d).....	414
Black River near Boonville (d).....	415
Independence River at Donnattsburg (dt).....	416
Stillwater Reservoir near Beaver River (e).....	419
Beaver River below Stillwater Dam, near Beaver River (d).....	420
Beaver River at Croghan (d).....	421
Black River at Watertown (dcbs).....	422
Lakes and reservoirs in streams tributary to Lake Ontario (e).....	429
STREAMS TRIBUTARY TO ST. LAWRENCE RIVER	
Oswegatchie River at Cranberry Lake (d).....	430
West Branch Oswegatchie River near Harrisville (d).....	431
Oswegatchie River near Heuvelton (d).....	432
St. Lawrence River near Waddington (e).....	433
St. Lawrence River at Cornwall, Ontario--near Massena, NY (dcbs).....	434
Grass River at Pyrites (d).....	442
Raquette River at Piercefield (d).....	443
Raquette River at South Colton (d).....	444
Raquette River at Raymondville (d).....	445
St. Regis River at Brasher Center (dcbs).....	446
Deer River at North Lawrence (d).....	453
Salmon River at Chasm Falls (d).....	454
Little Salmon River at Bombay (d).....	455
Chateaugay River below Chateaugay (d).....	456
Lake Champlain (head of Richelieu River):	
Saranac River at Plattsburgh (d).....	457
West Branch Ausable River:	
Lake Placid at Lake Placid (e).....	458
East Branch Ausable River at Au Sable Forks (d).....	459
Lake George (head of La Chute) at Rogers Rock (e).....	460
Northwest Bay Brook near Bolton Landing (d).....	461
La Chute at Ticonderoga (d).....	462
Poultney River below Fair Haven, VT (d).....	463
Lake Champlain at Burlington, VT (e).....	464
Richelieu River (Lake Champlain) at Rouses Point (ecbs).....	465
Lakes and reservoirs in streams tributary to St. Lawrence River (e).....	470

WATER RESOURCES DATA FOR NEW YORK, 1977
Volume 1.--New York excluding Long Island

INTRODUCTION

Water resources data for the 1977 water year for New York consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes; stage and contents of reservoirs; water quality of precipitation; and water levels and water quality of ground water. This report (Volume 1) contains discharge records for 192 gaging stations; stage only records for 32 gaging stations (includes 30 lake and reservoir stations and 2 other river stations); stage and contents for 20 other lakes and reservoirs; water quality for 67 gaging stations (includes 4 lake stations), 17 partial-record stations, and 8 precipitation stations; and water levels for 40 observation wells. Also included are 140 crest-stage partial-record stations and 32 low-flow partial-record stations. Additional water data were collected at various sites, not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey in cooperation with State, Federal, and other agencies in New York.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released in separate reports. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report (Volume 1) is identified as "U.S. Geological Survey Water-Data Report NY-77-1." (Volume 2.--Long Island, is identified as "U.S. Geological Survey Water-Data Report NY-77-2.") Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

The U.S. Geological Survey and organizations of the State of New York and other agencies have had cooperative agreements for the systematic collection of water records since 1900. Organizations that assisted in collecting data (included in Volumes 1 and 2, water year 1977) through cooperative agreement with the Survey are:

New York State Department of Environmental Conservation
New York State Department of Transportation
New York State Education Department
County of Chautauqua, Planning Department
County of Cortland, Planning Department
County of Dutchess
County of Monroe, Water Authority
County of Nassau, Department of Public Works
County of Onondaga, Department of Public Works
County of Onondaga, Water Authority Commission
County of Putnam, Board of Supervisors
County of Suffolk, Department of Environmental Control
County of Suffolk, Water Authority
County of Ulster, County Legislature
County of Westchester, Department of Public Works
City of Albany, Department of Water and Water Supply
City of Auburn
City of New York, Board of Water Supply
City of New York, Department of Water Resources
City of Rochester
Town of Brighton
Town of Clarkstown
Town of Warwick
Town of Waterford, Board of Water Commissioners
Village of Nyack
Board of Hudson River-Black River Regulating District
Central New York State Parks Commission
Delaware River Basin Commission
Oswegatchie River-Cranberry Reservoir Commission
Power Authority of the State of New York
Susquehanna River Basin Commission

Assistance in the form of funds for collecting records at gaging stations published in this report was also given by the U.S. Army Corps of Engineers, the Soil Conservation Service, the Environmental Protection Agency, and the St. Lawrence Seaway Development Corp.

The following organizations aided in collecting records:

Municipalities of Batavia, Canandaigua, Cortland, Jamestown, Lancaster, Mamaroneck, Oneida, Plattsburgh, Rochester, Rome, Rye, Syracuse, Tarrytown, and Yonkers; Cornell University; Central Hudson Gas and Electric Corp.; Indian River Co.; New York State Electric and Gas Corp.; Niagara Mohawk Power Corp.; Rochester Gas and Electric Corp.; Orange and Rockland Utilities, Inc.; and Power Authority of the State of New York.

Organizations that supplied data are acknowledged in station descriptions.

HYDROLOGIC CONDITIONS

The 1977 water year began and ended with surface-water discharges and ground-water levels above normal; however, there was variation to both above and below normal during the year.

Continuing from at least May 1976 through October 1976, streamflow at all four index stations (Susquehanna River at Conklin, Hudson River at Hadley, Mohawk River at Cohoes, and West Branch Oswegatchie River near Harrisville) was in the above normal (within the highest 25 percent of record for the month) range. Normal streamflow in November and December was followed by below normal streamflow in January and February. Beginning in March and continuing through the remainder of the water year, streamflow was in the above normal to normal range except for the below normal flows in June.

Monthly mean streamflow at the four index stations ranged from as much as 15 times the median for the month (in September at Susquehanna River at Conklin) to as little as one-fourth the median for the month (in January at Susquehanna River at Conklin and in February at Mohawk River at Cohoes).

The rapid depletion of the above normal snowpack, coupled with warm air temperatures and rain, caused above normal streamflow and flooding in many parts of the State during the period March 13-17. Alltime high discharges occurred during this period at several stations with long-term records. Disaster relief was requested for 12 counties.

The level of Lake Champlain (Richelieu River, a tributary to St. Lawrence River) at Rouses Point was near or above average through April. Below average levels, which began in May, continued through July. A normal level at the end of August was followed by an above normal level at the close of the water year.

Ground-water levels at the beginning of the water year were generally in the above normal (within the highest 25 percent of range of water levels) range. Near or above normal levels continued until January, when near or below normal levels prevailed throughout the State. Except for the above normal ground-water levels in the northern and southeastern parts of the State in March, most areas continued to have near or below normal levels through June. July levels were generally normal, followed by normal to above normal levels through the close of the water year.

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting U.S. customary units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms which produce colonies within 24 hours when incubated at 35°C \pm 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C \pm 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C \pm 1.0°C on KF medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/S , ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to the amount of substance present in true chemical solution. In practice, however, the term includes all forms of substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (coloidal) suspended particles. Analyses are performed on filtered samples.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = - \sum_{i=1}^s \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram ($\mu\text{g/g}$) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L , $\mu\text{g/L}$) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L , mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L , and is based on the mass of sediment per liter of water-sediment mixture.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2), acres, or hectares. Periphyton benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass or volume.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [$\text{mg C}/(\text{m}^2 \cdot \text{time})$ for periphyton and macrophytes and $\text{mg C}/(\text{m}^3 \cdot \text{time})$ for phytoplankton] are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [$\text{mg O}_2/(\text{m}^2 \cdot \text{time})$ for periphyton and macrophytes and $\text{mg O}_2/(\text{m}^3 \cdot \text{time})$ for phytoplankton] are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

Natural substrates refers to any naturally occurring emerged or submersed solid surface, such as a rock or tree, upon which an organism lived.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45-micrometer filter.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata is the following:

Kingdom.....Animal
Phylum.....Arthropoda
Class.....Insecta
Order.....Ephemeroptera
Family.....Ephemeridae
Genus.....Hexagenia
Species.....Hexagenia limbata

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WRD is used as an abbreviation for "Water Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBERS

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indentation in a list of stations in the front of the report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station, partial-record station, and miscellaneous site has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations, miscellaneous sites, and other stations; therefore, the station number for a partial-record station or a miscellaneous site indicates downstream-order position in a list made up of all types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 01300500 includes the 2-digit part number "01" plus the 6-digit downstream order number "300500". (In a few instances where no gaps were left in the 8-digit numbering sequence it was necessary to add one or two digits for identification; hence, there are a few stations or miscellaneous sites with 9- or 10-digit numbers.) (If water-quality samples are taken at a station or a miscellaneous site where a 9- or a 10-digit downstream order identification number is used, that station or miscellaneous site is assigned a latitude-longitude number.)

NUMBERING SYSTEM FOR WELLS

The 8-digit downstream order station numbers are not assigned to wells. The well-numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells within a 1-second grid. See figure 1 below.

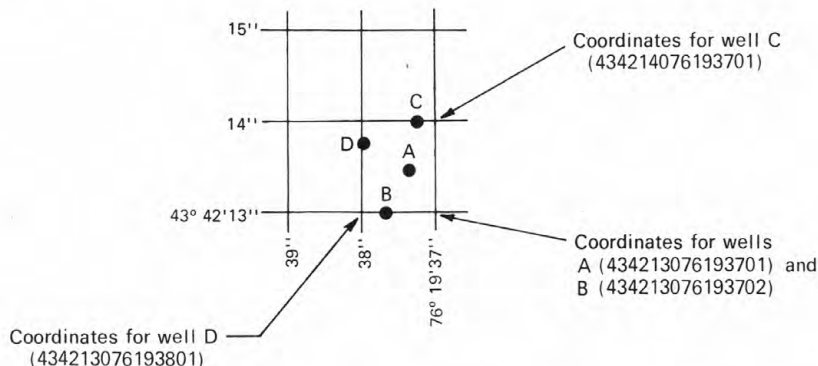


Figure 1. System for numbering wells (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the

base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with "EXTREMES FOR THE CURRENT YEAR"; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."). Figures for cubic feet per second per square mile and run-off in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is

a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft³/s; to tenths between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures above 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Where surface-water samples for analyses are collected at or near gaging stations, the quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

The descriptive heading for precipitation-quality records gives period of record, description of equipment, and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, water level, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water Temperatures

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures and/or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent

conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of Data

Ground-water level data from 40 observation wells are published herein; records for 25 of these wells are published for the first time.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figure 1.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well; mean sea level is the datum plane on which the national network of precise levels is based. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office). Prices are subject to change.

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 1-D1. *Water temperature-influential factors, field measurement, and data presentation*, by H. H. Stevens Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 p. \$1.60.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages. \$0.85.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. \$1.90.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. \$1.75.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. \$1.00.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. \$0.35.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. \$0.40.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. \$1.00.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. \$0.35.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6, 1968. 13 pages. \$1.00.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. \$0.45.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8, 1969. 65 pages. \$1.25.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. \$1.20.
- 3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. \$0.35. Not currently available.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages \$0.70.
- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2 1976. 172 pages. \$2.50.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. \$0.65.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2, 1970. 59 pages \$2.50.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. \$2.10.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. \$1.60.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. \$0.35.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972, 18 pages. \$0.65.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. \$0.75.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. \$0.65.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. \$1.10.
- 5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases*, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages \$2.40.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. \$0.80.
- 5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. \$0.90.
- 5-A4. **Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages. \$20.00.
- 5-A5. **Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages. \$16.00.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. \$2.10.
- 7-C1. *Finite-difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages. \$2.30.
- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages. \$0.70.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. \$1.10.

*These publications are available ONLY from Superintendent of Documents, Government Printing Office, Washington, D. C. 20402. They are in loose leaf format and are subscription items. Additional supplements will be issued to subscribers at no extra cost. Checks should be made payable to Superintendent of Documents. Requestors should emphasize to Superintendent of Documents that this is a subscription item.

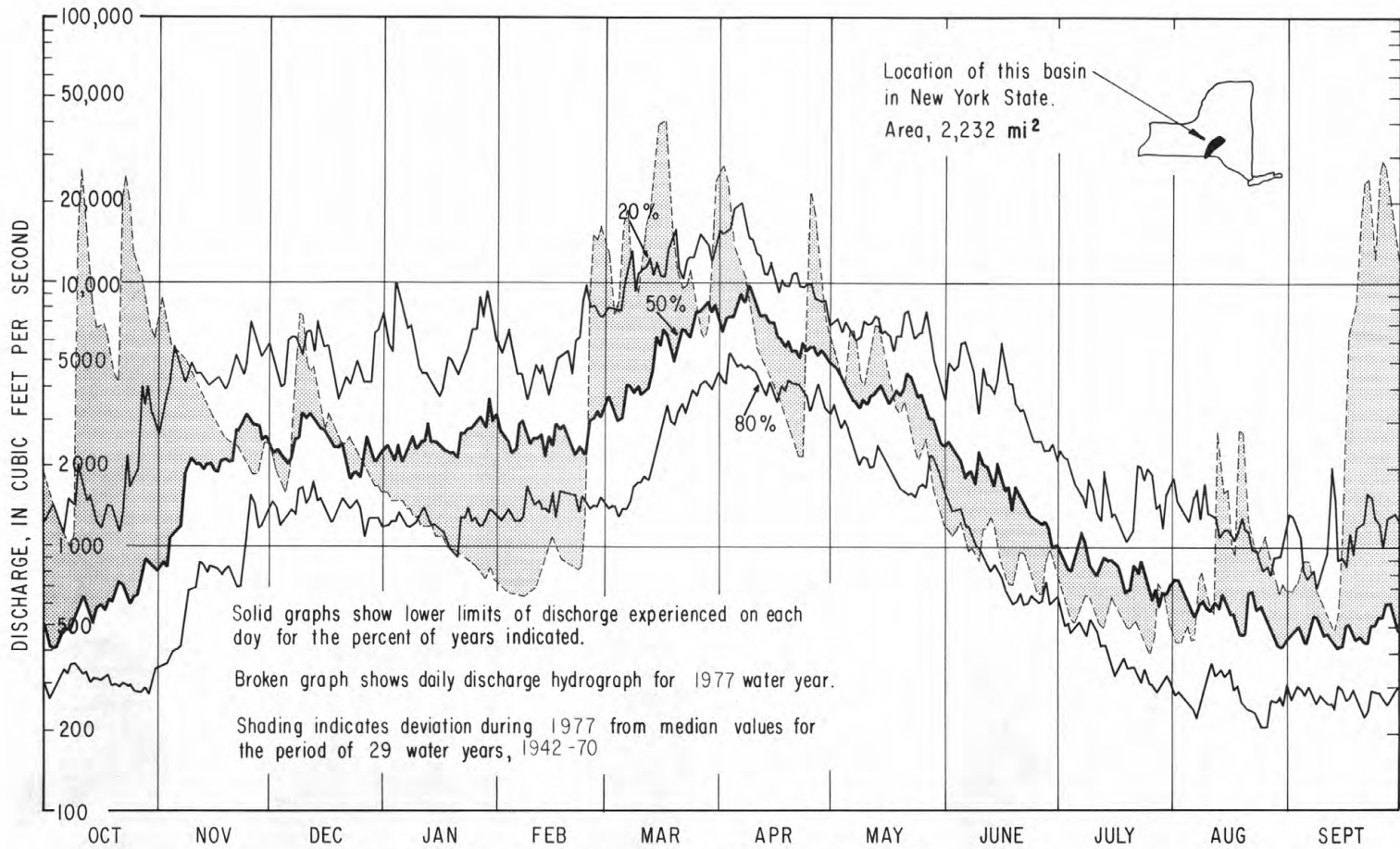


Figure 2-- Hydrographic comparisons, Susquehanna River at Conklin, N Y

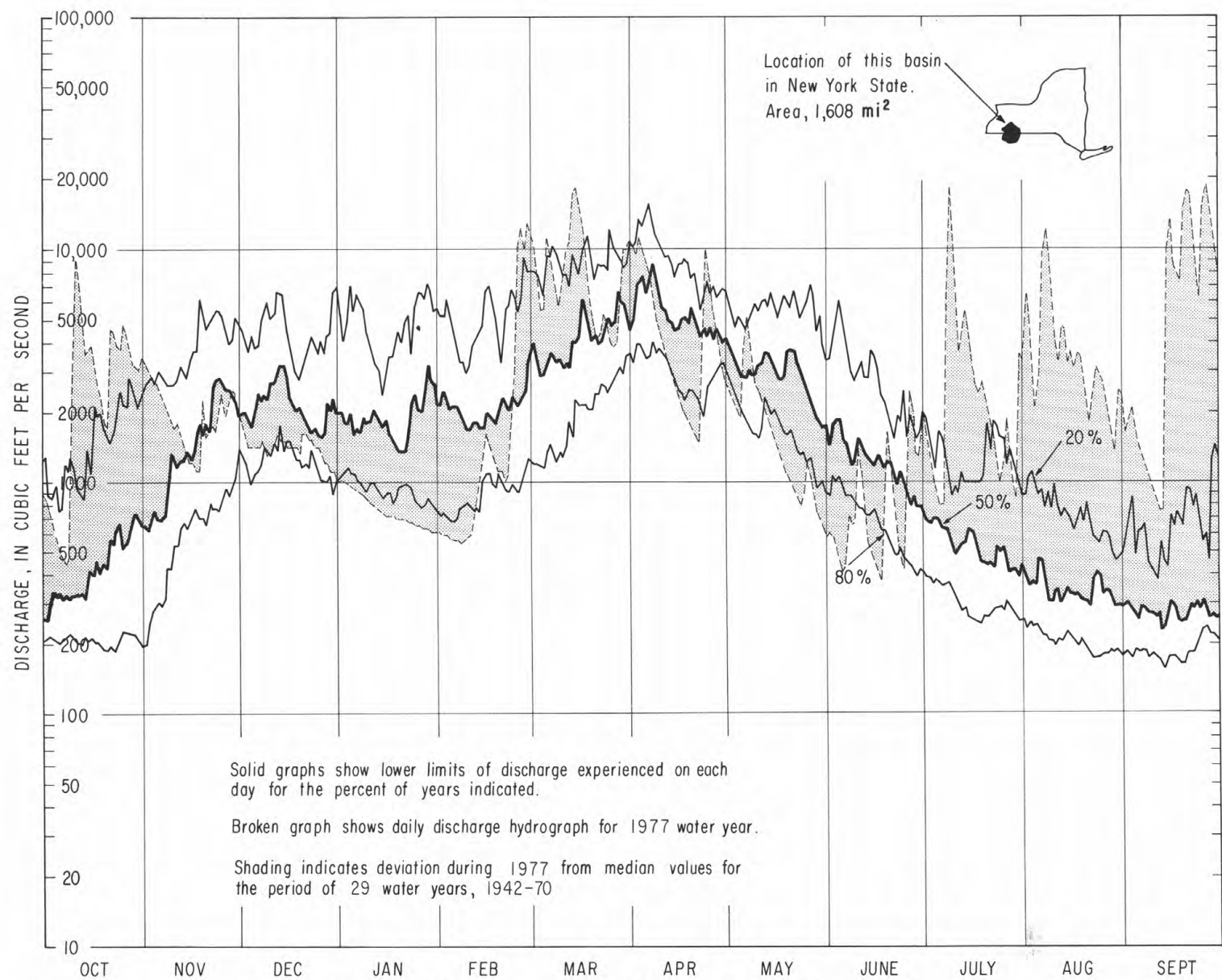


Figure 3.-- Hydrographic comparisons, Allegheny River at Salamanca, N Y

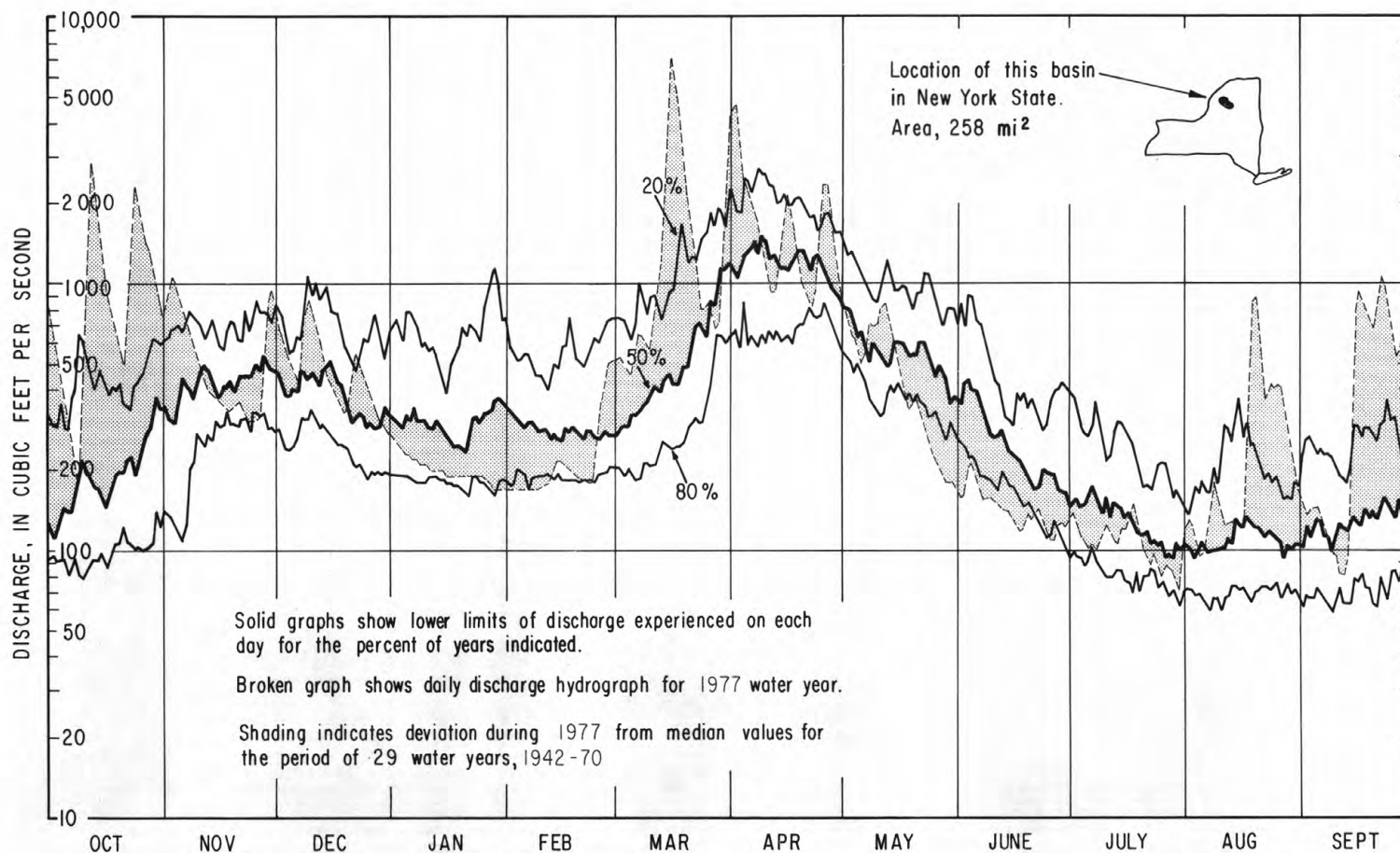


Figure 4.-- Hydrographic comparisons, West Branch Oswegatchie River near Harrisville, N Y

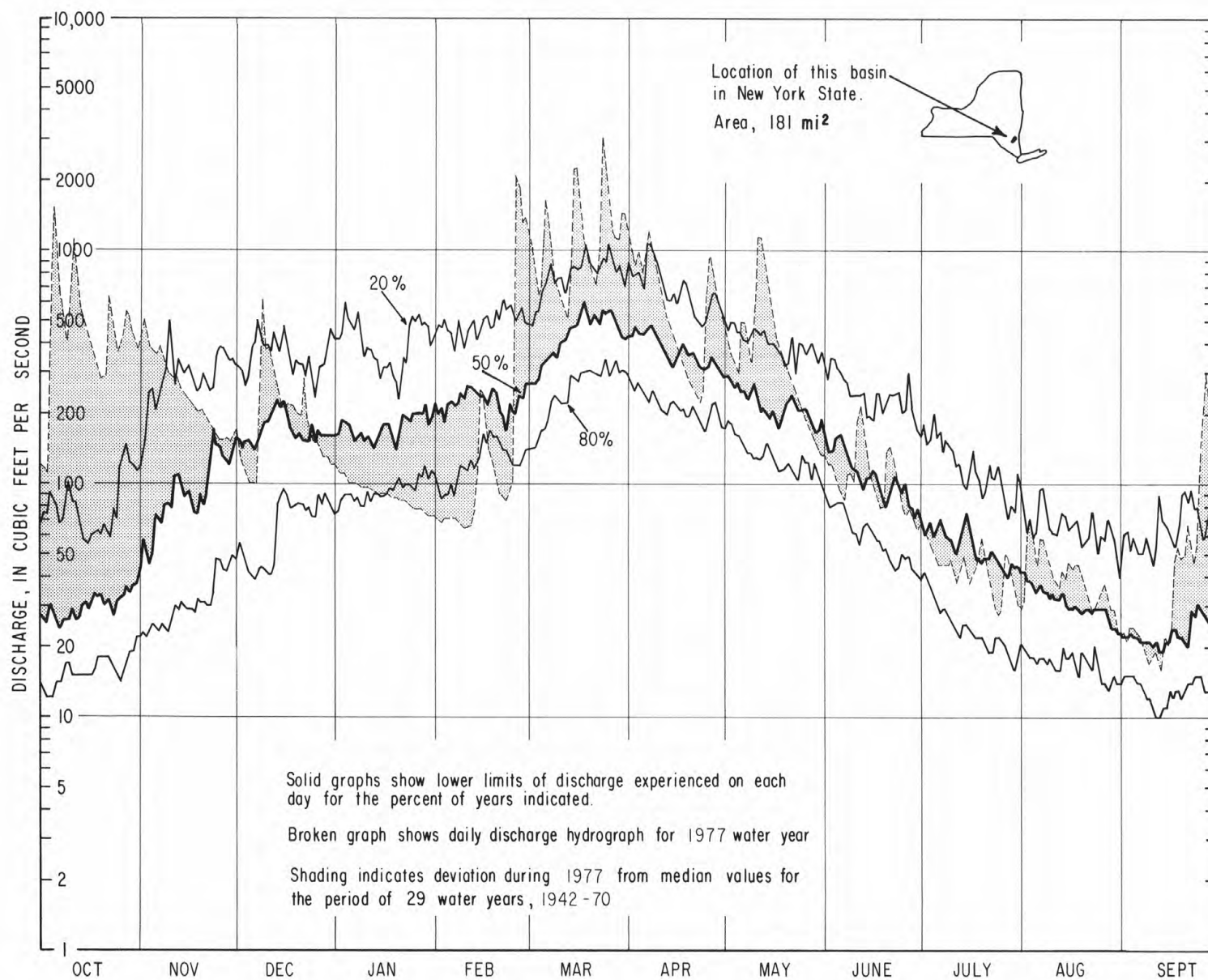
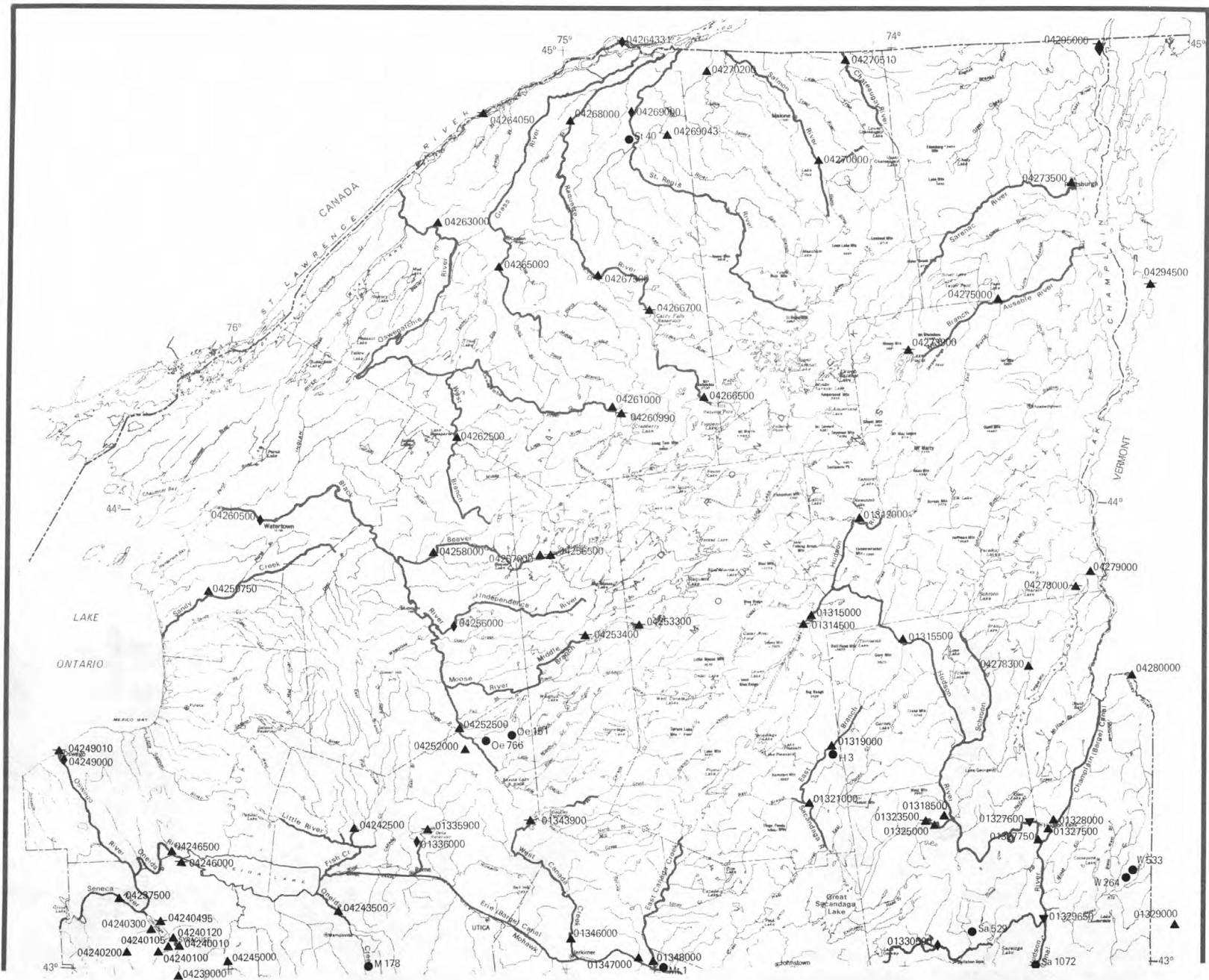


Figure 5.-- Hydrographic comparisons, Wappinger Creek near Wappingers Falls, NY



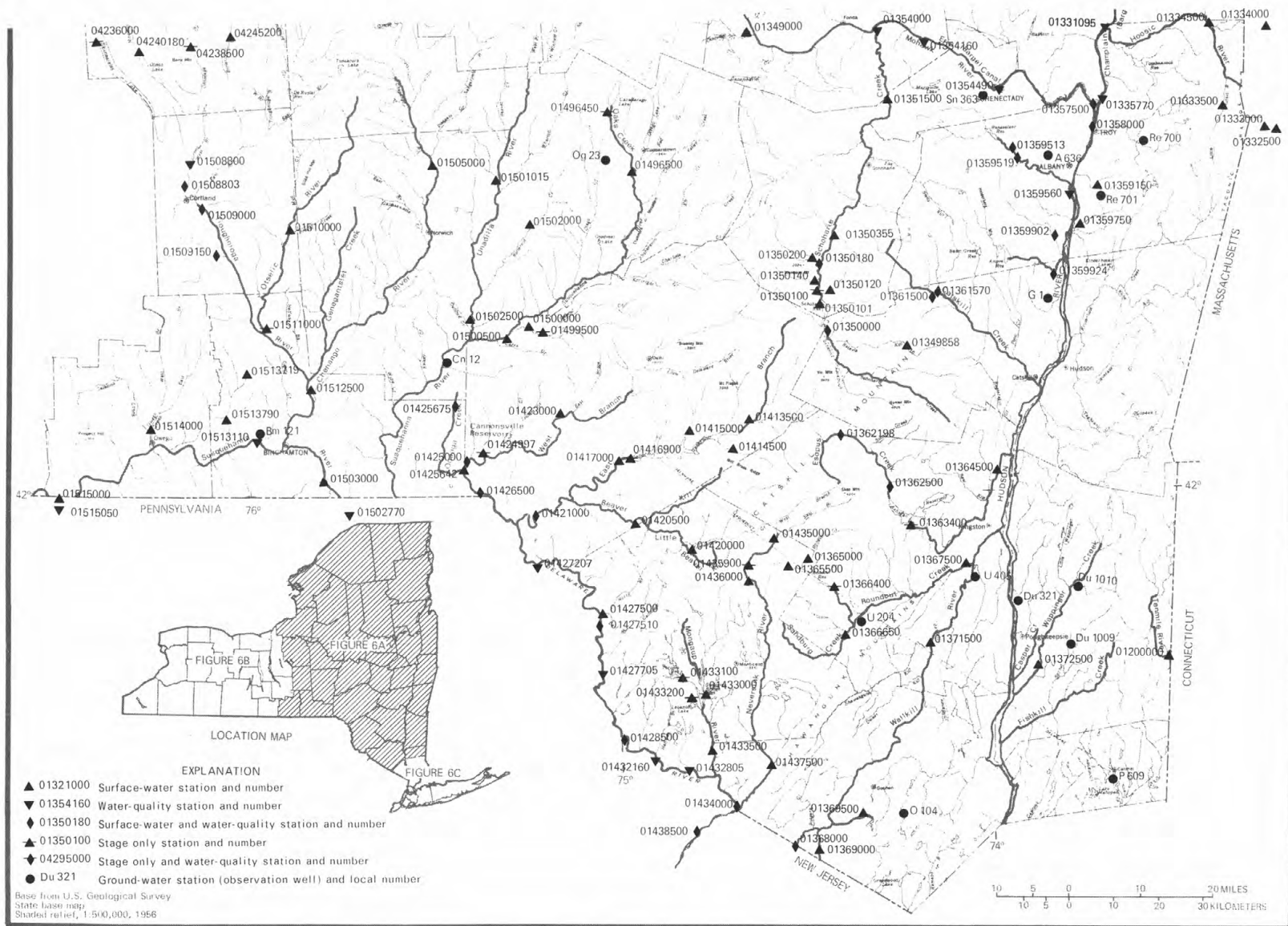


FIGURE 6A.-- LOCATION OF GAGING STATIONS AND OBSERVATION WELLS

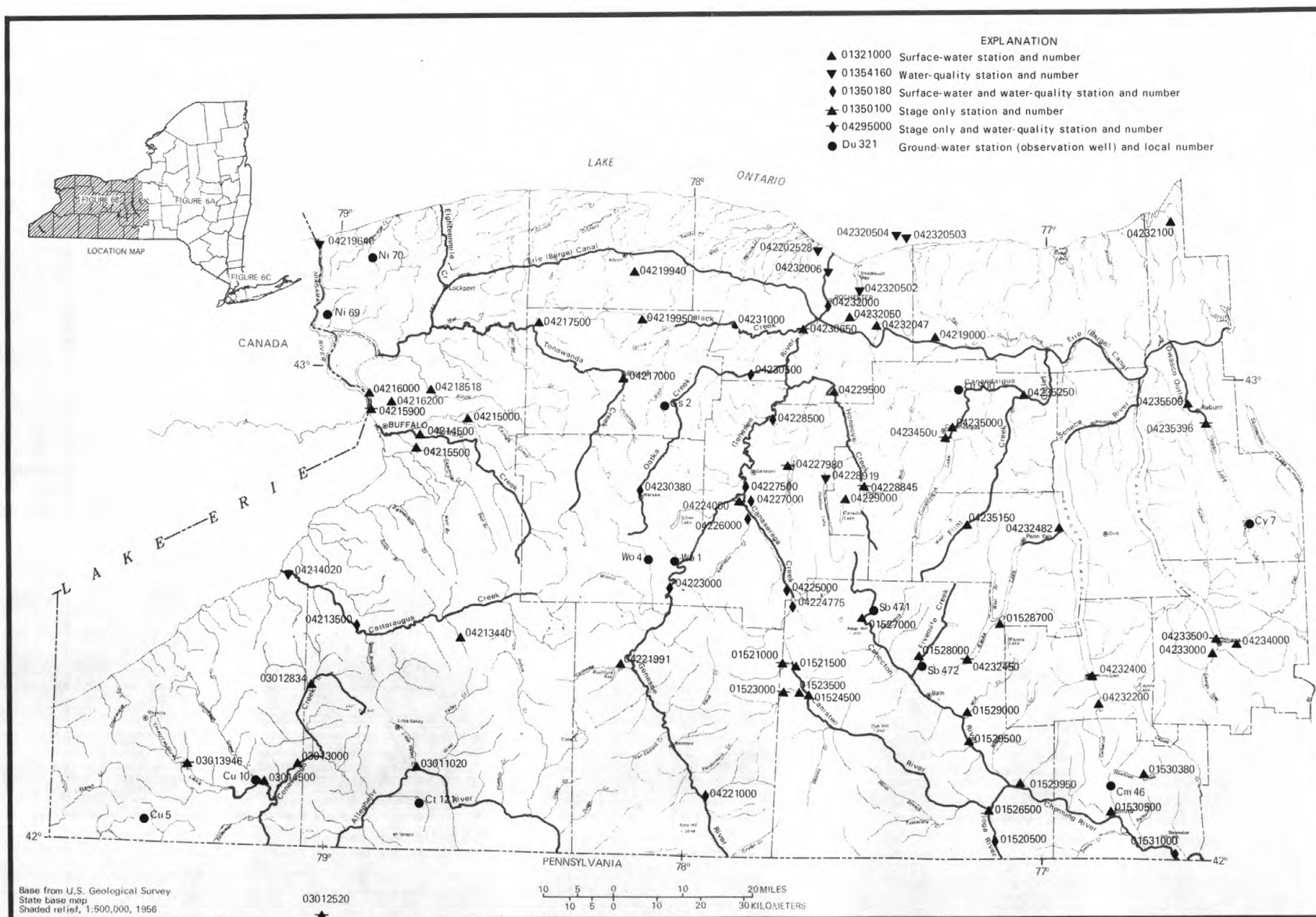


FIGURE 6B.-- LOCATION OF GAGING STATIONS AND OBSERVATION WELLS

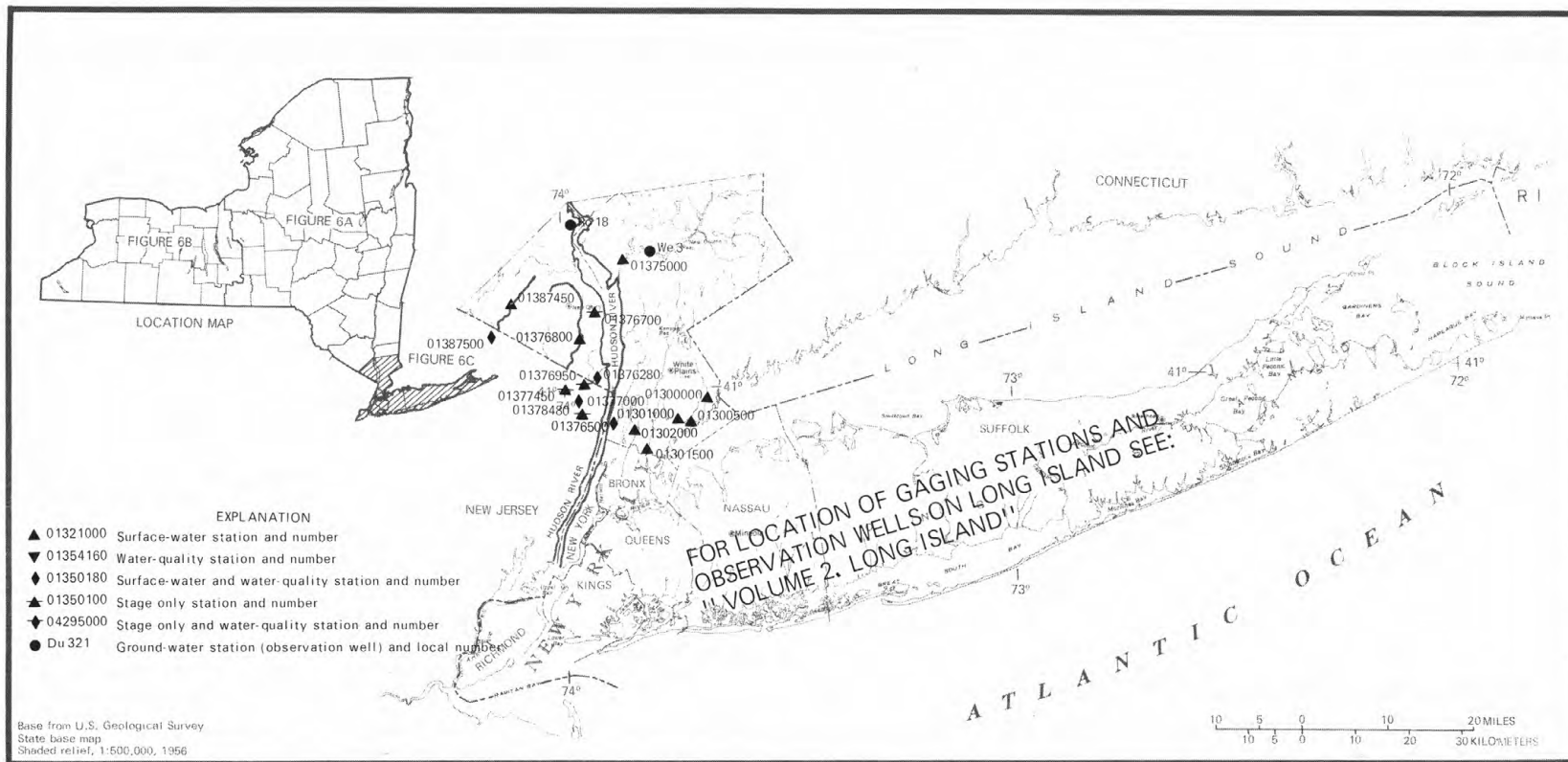


FIGURE 6C.-- LOCATION OF GAGING STATIONS AND OBSERVATION WELLS

HOUSATONIC RIVER BASIN

01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CT

LOCATION.--Lat 41°39'32", long 73°31'44", Dutchess County, New York, Hydrologic Unit 01100005, on right bank 0.1 mi (0.2 km) downstream from Deuel Hollow Brook, 1.2 mi (1.9 km) upstream from New York-Connecticut State line, 1.7 mi (2.7 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of Gaylordsville.

DRAINAGE AREA.--203 mi² (526 km²).

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for period October to December 1929, published in WSP 1301.

REVISED RECORDS.--WSP 1201: 1939. WSP 1701: 1955-56, 1957(M), 1958-59. WSP 1901: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 304.4 ft (92.78 m) above mean sea level (levels by Connecticut Light and Power Company).

REMARKS.--Records good. Infrequent regulation at low flow. Records of iron, specific conductance, and pH of daily samples for 1958-59 available in Connecticut district office at Hartford, Connecticut. Chemical analyses available for water years 1959 (WSP 1641), 1968 (WSP 2091), 1973-75 (WRD NY 1973, WRD NY 1974, WDR NY-75-1), and water temperatures available for water year 1959 (WSP 1641).

AVERAGE DISCHARGE.--48 years, 302 ft³/s (8.553 m³/s), 20.20 in/yr (513 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft³/s (493 m³/s) Aug. 19, 1955, gage height, 14.9 ft (4.54 m), from high-water mark, from rating curve extended above 9,800 ft³/s (278 m³/s); minimum, 5 ft³/s (0.14 m³/s) Sept. 8, 1957; minimum gage height, 0.52 ft (0.158 m) Sept. 24, 26, 1939; minimum daily discharge, 7 ft³/s (0.20 m³/s) Oct. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft³/s (39.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 4	0730	1480 41.9	4.56 1.390	Mar. 15	Unknown	*5000 142 (est)	Unknown
Oct. 9	1730	1490 42.2	4.57 1.393	Mar. 23	1630	2490 70.5	5.74 1.750
Feb. 25	1130	3320 94.0	6.53 1.990	Mar. 30	1400	2440 69.1	5.69 1.734
Mar. 5	Unknown	1400 39.6(est)	Unknown	Apr. 5	2130	1640 46.4	4.78 1.457

Minimum discharge, 35 ft³/s (0.99 m³/s) September 12, 13, gage height, 0.81 ft (0.247 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	521	167	170	120	916	1580	427	136	78	45	40
2	106	443	167	170	120	714	1230	399	153	73	189	39
3	662	412	138	160	120	628	1340	386	139	67	119	41
4	1250	406	149	160	120	600	1120	355	125	62	82	42
5	665	401	171	160	120	1200	1380	541	114	60	72	44
6	517	459	162	160	115	1400	1510	544	108	57	100	42
7	428	405	403	150	115	1150	1150	455	132	57	92	40
8	367	371	791	150	115	900	970	396	144	59	84	39
9	824	343	431	150	115	800	823	570	133	61	70	37
10	1230	336	398	150	115	900	735	1020	237	59	63	36
11	840	340	381	150	115	1100	667	1010	233	54	60	37
12	695	316	343	150	140	1300	605	793	185	62	59	37
13	605	297	315	150	160	1600	559	681	151	78	62	37
14	558	287	218	150	200	3000	513	587	127	74	61	40
15	511	274	268	140	200	4500	471	522	115	62	67	41
16	449	265	253	140	180	4500	439	472	105	57	64	44
17	405	250	248	140	160	3500	401	433	94	56	61	82
18	369	246	244	140	150	2500	376	396	96	74	67	92
19	338	240	224	140	140	2000	353	377	281	79	63	88
20	335	239	233	140	130	1500	323	355	204	64	56	100
21	585	226	346	140	125	1300	306	326	176	57	51	116
22	479	210	227	140	120	1400	290	298	150	51	50	92
23	410	201	249	140	115	2370	309	270	125	46	53	81
24	381	196	214	130	115	1930	637	244	105	43	55	96
25	428	189	193	130	1920	1390	976	226	94	49	55	229
26	545	183	196	130	2000	1100	767	204	93	94	57	294
27	512	188	170	130	1250	1020	672	185	88	78	52	552
28	445	187	189	130	1350	1090	591	172	81	61	48	347
29	421	200	180	130	---	1740	514	156	80	53	45	260
30	394	213	170	130	---	2320	464	148	89	49	42	205
31	467	---	170	120	---	2010	---	138	---	46	40	---
TOTAL	16333	8844	8008	4470	9145	52378	22071	13086	4093	1920	2084	3270
MEAN	527	295	258	144	348	1690	736	422	136	61.9	67.2	109
MAX	1250	521	791	170	2000	4500	1580	1020	281	94	189	552
MIN	106	183	138	120	115	600	290	138	80	43	40	36
CFSM	2.60	1.45	1.27	.71	1.71	8.33	3.63	2.08	.67	.31	.33	.54
IN.	2.99	1.62	1.47	.82	1.79	9.60	4.04	2.40	.75	.35	.38	.60

CAL YR 1976	TOTAL	141586	MEAN 387	MAX 3750	MIN 60	CFSM 1.91	IN 25.95
WTR YR 1977	TOTAL	146302	MEAN 401	MAX 4500	MIN 36	CFSM 1.98	IN 26.81

BLIND BROOK BASIN

29

01300000 BLIND BROOK AT RYE, NY

LOCATION.--Lat 40°59'00", long 73°41'14", Westchester County, Hydrologic Unit 02030102, on left bank at Rye, just upstream from bridge on Theodore Fremd Avenue, 0.25 mi (0.40 km) southwest of Penn Central Transportation Co. railroad station, and 0.85 mi (1.37 km) upstream from mean high tide in Milton Harbor.

DRAINAGE AREA.--9.20 mi² (23.8 km²).

PERIOD OF RECORD.--November 1943 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 13.05 ft (3.978 m) above mean sea level, (levels by City of Rye).

REMARKS.--Records good. Medium and high flows affected by detention reservoir 2 mi (3 km) upstream (capacity, about 26 acre-ft (32,1000 m³) at spillway level or 50 acre-ft (61,700 m³) at crest of concrete dam).

AVERAGE DISCHARGE.--33 years, 15.3 ft³/s (0.433 m³/s), 22.58 in/yr (574 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,320 ft³/s (65.7 m³/s) June 19, 1972, gage height, 12.44 ft (3.792 m), from floodmark in gage house, from rating curve extended above 800 ft³/s (22.7 m³/s) on basis of indirect measurement of peak flow; minimum, 0.12 ft³/s (0.003 m³/s) July 5, 1953, gage height, 0.80 ft (0.244 m), result of temporary regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 406 ft³/s (11 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 25	0345	688	19.5	5.65	1.722		
Mar. 22	2100	*783	22.2	*6.12	1.865		
				Apr. 5	0645	468	13.3
						4.55	1.387

Minimum discharge, 0.60 ft³/s (0.017 m³/s) July 24, 28, 29, gage height, 0.90 ft (0.274 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	16	7.6	3.7	4.4	20	14	6.5	9.9	2.0	1.1	1.1
2	4.3	10	4.2	3.5	4.3	17	28	6.5	8.5	1.6	1.8	1.0
3	15	8.9	3.6	3.4	4.2	15	75	6.5	3.7	1.4	1.8	1.1
4	14	8.5	3.5	3.2	4.1	87	28	6.1	2.7	1.3	1.9	1.2
5	5.8	8.9	3.4	3.2	4.0	121	246	22	2.5	1.3	1.8	1.1
6	4.8	8.5	3.4	3.1	3.9	32	53	18	2.5	1.3	1.2	1.0
7	4.5	8.1	55	3.1	3.9	24	33	18	4.4	1.2	4.7	.89
8	4.3	7.3	23	3.1	3.9	20	27	9.1	3.9	7.4	3.5	.81
9	40	6.9	11	3.1	3.6	18	22	14	19	9.7	1.6	.77
10	18	9.3	8.6	20	3.7	17	20	14	47	2.7	1.1	2.1
11	7.7	8.1	7.8	15	3.8	15	19	9.6	11	1.9	1.4	2.0
12	5.8	5.8	7.6	10	5.2	14	18	7.7	5.8	3.0	1.4	1.2
13	5.4	5.8	6.8	7.4	6.2	98	16	6.4	4.1	3.4	3.2	1.0
14	4.3	5.4	5.0	6.0	7.0	76	15	5.2	3.5	3.8	13	.89
15	4.3	5.1	4.5	5.6	6.4	30	13	4.8	3.1	2.4	4.8	.91
16	4.1	6.1	5.6	5.5	5.8	23	12	4.5	2.9	1.5	2.4	8.5
17	3.6	6.1	6.3	5.4	5.5	19	11	4.3	2.3	1.3	35	32
18	3.4	5.1	7.3	5.4	5.4	22	11	4.2	2.3	1.2	11	4.1
19	3.4	4.5	5.7	5.4	5.4	31	11	4.0	2.3	1.1	3.2	3.4
20	14	4.5	6.6	5.4	5.4	28	9.5	4.1	12	1.0	2.2	24
21	62	4.3	14	5.2	6.6	23	9.2	3.8	13	.95	1.6	8.3
22	12	4.1	6.3	5.2	8.5	270	9.1	3.6	3.6	.86	11	3.5
23	8.1	4.1	5.4	5.2	10	217	8.6	3.3	2.4	.75	4.0	3.6
24	9.3	4.1	4.8	5.2	42	47	14	3.0	2.1	.74	2.4	33
25	20	4.1	4.7	5.2	309	31	21	3.2	2.1	1.0	2.3	126
26	31	4.1	5.0	5.0	39	25	13	2.8	2.5	.96	2.0	48
27	14	4.3	4.9	5.0	27	23	11	2.6	2.7	.89	1.4	35
28	9.7	4.8	4.7	4.9	30	25	10	2.5	2.5	.73	1.1	14
29	8.9	8.3	4.5	4.8	---	31	8.9	2.3	4.3	.74	1.0	9.0
30	8.1	16	4.3	4.7	---	21	7.3	2.6	3.0	.95	1.1	6.5
31	28	---	4.1	4.6	---	16	---	2.8	---	.93	1.1	---
TOTAL	382.8	207.1	249.4	175.5	568.2	1457	793.6	208.0	191.6	60.00	127.1	375.97
MEAN	12.3	6.90	8.05	5.66	20.3	47.0	26.5	6.71	6.39	1.94	4.10	12.5
MAX	62	16	55	20	309	270	246	22	47	9.7	35	126
MIN	3.4	4.1	3.4	3.1	3.6	14	7.3	2.3	2.1	.73	1.0	.77
CFSM	1.34	.75	.88	.62	2.21	5.11	2.88	.73	.69	.21	.45	1.36
IN.	1.55	.84	1.01	.71	2.30	5.89	3.21	.84	.77	.24	.51	1.52

CAL YR 1976	TOTAL	5942.10	MEAN	16.2	MAX	340	MIN	1.4	CFSM	1.76	IN	24.02
WTR YR 1977	TOTAL	4796.27	MEAN	13.1	MAX	309	MIN	.73	CFSM	1.42	IN	19.39

BEAVER SWAMP BROOK BASIN

01300500 BEAVER SWAMP BROOK AT MAMARONECK, NY

LOCATION.--Lat 40°57'21", long 73°43'07", Westchester County, Hydrologic Unit 02030102, on right bank just downstream from bridge on Short Street, in Mamaroneck, 0.2 mi (0.3 km) downstream from Brentwood Brook, and 0.2 mi (0.3 km) upstream from tidal barrier in Guion Creek, Mamaroneck Harbor.

DRAINAGE AREA.--4.71 mi² (12.2 km²).

PERIOD OF RECORD.--November 1943 to current year. Prior to October 1967, published as "near Harrison."

GAGE.--Water-stage recorder and concrete control. Datum of gage is 24.99 ft (7.617 m) above mean sea level. Prior to June 8, 1946, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow affected by natural storage in swampy areas above station.

AVERAGE DISCHARGE.--33 years, 6.35 ft³/s (0.180 m³/s), 18.31 in/yr (465 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 252 ft³/s (7.14 m³/s) Sept. 26, 1975, gage height, 3.84 ft (1.170 m); no flow at times during 1944, 1953, 1959, 1964, 1965, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 86 ft³/s (2.4 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 11	1030	99 2.80	1.93 0.588	Mar. 22	2315	*143 4.05	*2.47 0.753
Feb. 24	2330	125 3.54	2.25 0.686				

Minimum discharge, 0.14 ft³/s (0.004 m³/s) July 28, 29, 30, Aug. 1, gage height, 0.27 ft (0.082 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	7.1	1.6	1.7	1.7	7.7	3.8	2.7	5.7	.67	.31	.50
2	1.8	4.0	1.5	1.6	1.7	4.9	7.9	3.5	3.1	.67	.36	.43
3	7.9	3.1	1.3	1.5	1.7	3.7	34	4.0	1.8	.58	.43	.36
4	4.2	3.3	1.2	1.4	1.7	23	17	2.3	1.0	.50	.36	.31
5	2.6	2.5	1.2	1.3	1.6	53	72	7.5	.89	.50	1.4	.26
6	2.5	2.1	1.3	1.2	1.6	22	39	12	1.0	.43	.58	.26
7	2.1	2.1	22	1.1	1.6	11	18	9.2	2.1	.43	.58	.26
8	1.9	1.6	16	1.1	1.5	6.7	13	3.1	1.4	3.5	.43	.22
9	12	1.4	4.5	1.2	1.5	5.0	9.7	3.8	7.5	2.5	.58	.22
10	7.9	1.6	3.1	10	1.8	4.4	7.9	3.5	14	1.4	.50	1.8
11	3.6	2.5	2.8	6.0	2.2	3.9	6.4	1.8	4.3	1.0	.50	.36
12	2.5	1.5	2.5	4.5	2.7	3.6	5.4	2.9	2.1	2.5	.36	.22
13	2.2	1.6	2.0	3.0	3.5	30	4.5	2.9	1.5	1.1	2.1	.31
14	2.0	1.5	1.5	2.3	5.0	34	4.5	2.3	1.2	1.2	2.7	.26
15	1.9	1.6	1.7	2.2	4.3	14	4.0	1.9	1.1	.67	1.1	.26
16	1.7	1.4	1.9	2.1	3.8	8.3	4.0	1.9	1.0	.58	.58	2.7
17	1.5	1.8	2.1	2.0	3.6	5.1	4.0	1.6	.89	.50	7.9	9.7
18	1.6	2.1	2.1	2.0	3.5	5.7	3.3	1.8	.89	.43	4.8	2.9
19	1.5	2.1	1.8	2.0	3.5	4.2	2.9	1.8	.78	.36	1.6	1.8
20	7.7	1.1	2.7	2.0	3.6	8.3	3.8	1.6	7.1	.31	.89	8.8
21	20	1.2	4.5	2.0	3.7	6.1	4.0	1.5	15	.31	.58	4.3
22	6.8	1.2	4.0	1.9	3.9	55	4.3	1.4	3.3	.26	8.3	2.3
23	3.3	1.5	1.9	1.9	5.0	105	4.0	1.4	1.5	.22	2.7	1.8
24	4.2	1.5	1.6	1.9	15	39	7.9	1.4	1.0	.17	1.8	9.2
25	5.6	1.5	1.5	1.9	87	17	9.7	1.2	1.0	.67	1.5	51
26	12	1.5	1.7	1.9	36	12	4.0	1.1	1.0	.43	.78	32
27	6.3	1.6	1.6	1.8	15	7.9	3.1	1.0	.89	.22	.58	18
28	3.9	1.5	1.6	1.8	14	8.3	2.3	.89	1.0	.17	.43	7.1
29	3.3	2.8	1.6	1.8	---	4.7	2.7	.89	1.4	.14	.36	4.5
30	2.9	2.0	1.9	1.8	---	6.4	2.3	1.0	.78	.31	.36	3.5
31	12	---	1.9	1.7	---	5.1	---	.89	---	.22	.43	---
TOTAL	151.6	62.3	98.6	70.6	231.7	535.0	309.4	84.77	86.22	22.95	45.88	165.63
MEAN	4.89	2.08	3.18	2.28	8.28	17.3	10.3	2.73	2.87	.74	1.48	5.52
MAX	20	7.1	22	10	87	105	72	12	15	3.5	8.3	51
MIN	1.5	1.1	1.2	1.1	1.5	3.6	2.3	.89	.78	.14	.31	.22
CFSM	1.04	.44	.68	.48	1.76	3.67	2.19	.58	.61	.16	.31	1.17
IN.	1.20	.49	.78	.56	1.83	4.22	2.44	.67	.68	.18	.36	1.31
CAL YR 1976 TOTAL	2623.00			MEAN 7.17	MAX 90	MIN 1.0	CFSM 1.52	IN 20.71				
WTR YR 1977 TOTAL	1864.65			MEAN 5.11	MAX 105	MIN .14	CFSM 1.08	IN 14.72				

MAMARONECK RIVER BASIN

31

01301000 MAMARONECK RIVER AT MAMARONECK, NY

LOCATION.--Lat 40°57'14", long 73°44'06", Westchester County, Hydrologic Unit 02030102, on left bank in Mamaroneck, 113 ft (34 m) downstream from bridge on Halstead Avenue, 700 ft (213 m) downstream from Sheldrake River, and 0.3 mi (0.5 km) upstream from mean high tide in Mamaroneck Harbor.

DRAINAGE AREA.--23.4 mi² (60.6 km²).

PERIOD OF RECORD.--November 1943 to July 1953, September 1954 to current year.

REVISED RECORDS.--WSP 1502: 1944(M), 1951(M). WRD NY-76-1; 1972(M), 1973(M), 1974(M), 1975(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 11.46 ft (3.493 m) above mean sea level. Prior to Sept. 10, 1954, water-stage recorder at same site at datum 0.41 ft (0.125 m) higher.

REMARKS.--Records fair. Storage in former water-supply reservoir on Mamaroneck River, affect unknown.

AVERAGE DISCHARGE.--31 years (1944-52, 1954-77), 33.4 ft³/s (0.946 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,700 ft³/s (105 m³/s) Sept. 26, 1975, gage height, 10.15 ft (3.094 m), from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of indirect measurement of peak flow at 10.15 ft (3.094 m); minimum, 0.06 ft³/s (0.002 m³/s) Sept. 30, 1965; minimum daily, 0.10 ft³/s (0.003 m³/s) Sept. 29, 30, 1965; minimum gage height since Sept. 9, 1954, 0.10 ft (0.030 m) July 21, 22, Aug. 18, 19, 1957, Aug. 14, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 11.5 ft (3.51 m) present datum, Sept. 21, 1938 (backwater from hurricane wave), from information by officials of village of Mamaroneck.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,000 ft³/s (56.6 m³/s) Feb. 25, gage height, 6.12 ft (1.865 m); minimum, 1.9 ft³/s (0.054 m³/s) Sept. 9; minimum gage height, 0.26 ft (0.079 m) July 24, 25, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	38	12	10	9.0	96	54	21	64	5.8	8.0	4.0
2	11	26	12	9.6	8.8	76	70	21	30	4.9	17	3.5
3	40	23	14	9.2	8.8	55	91	20	15	4.0	4.4	3.2
4	26	22	10	8.8	8.8	132	83	20	12	3.5	6.3	2.8
5	14	21	10	8.6	8.6	244	452	42	11	3.5	6.3	2.5
6	16	20	9.3	8.4	8.4	116	158	46	13	3.2	3.5	2.5
7	16	19	87	8.2	8.4	102	105	30	18	3.2	5.4	2.5
8	12	18	109	8.0	8.4	94	83	23	13	11	11	2.5
9	82	15	35	8.0	8.2	85	73	37	50	19	5.4	2.2
10	102	15	21	85	9.0	77	70	28	74	15	4.4	14
11	30	15	20	50	11	57	64	24	88	13	5.8	6.9
12	23	14	19	35	14	39	52	22	20	13	4.0	2.8
13	18	13	18	21	18	113	46	19	15	12	16	2.5
14	17	12	16	17	17	175	43	18	13	9.3	40	2.5
15	15	11	15	16	16	112	38	18	12	6.9	19	2.8
16	12	16	15	15	15	103	36	17	11	4.9	10	11
17	9.3	15	16	14	14	91	34	17	11	4.4	34	61
18	8.7	14	14	13	14	84	32	16	10	3.5	44	33
19	8.0	13	13	13	13	86	31	16	10	3.5	31	9.3
20	30	12	15	12	13	81	29	16	20	4.0	7.4	47
21	140	12	21	12	13	73	29	15	35	4.4	4.9	38
22	64	11	30	11	13	719	28	15	47	3.5	35	14
23	25	12	9.0	11	15	405	27	15	16	2.8	19	13
24	25	12	9.3	10	25	136	35	14	14	2.5	15	47
25	44	12	9.3	10	623	102	42	14	12	3.5	15	178
26	66	12	11	9.8	142	87	30	14	12	2.8	12	133
27	34	12	10	9.6	122	82	26	13	7.4	3.2	5.4	126
28	28	12	10	9.4	120	85	25	12	6.3	2.8	4.4	70
29	25	17	10	9.2	---	80	22	11	11	2.5	5.4	29
30	23	16	13	9.0	---	68	21	13	9.3	3.2	3.5	22
31	64	---	9.7	9.0	---	61	---	12	---	3.2	3.2	---
TOTAL	1042.0	480	622.6	479.8	1304.4	3717	1929	619	680.0	182.0	405.7	888.5
MEAN	33.6	16.0	20.1	15.5	46.6	120	64.3	20.0	22.7	5.87	13.1	29.6
MAX	140	38	109	85	623	719	452	46	88	19	44	178
MIN	8.0	11	9.0	8.0	8.2	39	21	11	6.3	2.5	3.2	2.2
CAL YR 1976	TOTAL	15544.8	MEAN	42.5	MAX	542	MIN	1.7				
WTR YR 1977	TOTAL	12350.0	MEAN	33.8	MAX	623	MIN	2.2				

HUTCHINSON RIVER BASIN

01301500 HUTCHINSON RIVER AT PELHAM, NY

LOCATION.--Lat 40°54'41", long 73°48'55", Westchester County, Hydrologic Unit 02030102, on right bank in Pelham, just upstream from Penn Central Transportation Co. bridge, 100 ft (30 m) downstream from Pelham Lake, and 1.5 mi (2.4 km) west of New Rochelle.

DRAINAGE AREA.--5.76 mi² (14.9 km²).

PERIOD OF RECORD.--November 1943 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 12.92 ft (3.938 m) above mean sea level (levels by county of Westchester).

REMARKS.--Records fair. Flow controlled by Pelham Lake and three reservoirs above station.

AVERAGE DISCHARGE.--33 years (1944-77), 6.89 ft³/s (0.195 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 526 ft³/s (14.9 m³/s) Aug. 28, 1971, gage height, 5.18 ft (1.579 m), from rating curve extended above 200 ft³/s (5.66 m³/s); minimum, 0.01 ft³/s (<0.001 m³/s) July 27, 1957; minimum daily, 0.02 ft³/s (0.001 m³/s) Aug. 2-6, 1955, July 26, 27, 1957, Oct. 26-30; 1964; minimum gage height, 1.86 ft (0.567 m) Aug. 2, 5, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 212 ft³/s (6.00 m³/s) Mar. 22, gage height, 4.20 ft (1.280 m); minimum, 0.24 ft³/s (0.007 m³/s) Aug. 2, gage height, 2.06 ft (0.628 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	13	7.6	1.2	2.7	11	10	7.3	2.2	.90	.40	.79
2	2.8	8.7	7.6	1.1	2.7	8.8	19	6.7	.68	.79	.62	.62
3	23	5.9	6.9	1.1	2.7	7.7	35	7.2	.62	.56	.62	.50
4	18	4.3	6.6	1.0	2.7	33	21	3.7	1.0	.50	.79	.38
5	9.1	3.4	6.6	1.0	2.7	51	75	12	.90	.45	2.0	.38
6	4.9	2.7	6.6	.90	2.7	24	38	14	1.0	.40	1.3	.38
7	3.1	2.7	36	.90	2.7	14	21	14	1.6	.40	1.2	1.8
8	2.7	3.1	26	.80	2.7	15	16	7.9	1.0	5.2	.90	.50
9	29	2.2	13	.40	2.7	12	14	8.3	9.5	2.9	2.4	.31
10	24	2.4	6.9	19	3.7	11	12	7.6	24	1.2	.90	2.9
11	11	1.9	4.9	12	5.0	11	11	4.9	14	1.0	1.5	.36
12	5.6	1.9	4.9	10	7.0	9.7	10	3.4	6.8	4.3	.90	.28
13	4.0	2.0	4.6	6.4	10	32	9.7	2.4	3.7	1.5	4.6	.29
14	2.7	2.0	5.6	5.2	9.0	34	9.1	1.8	2.4	.90	5.8	.31
15	2.0	2.0	3.7	5.0	8.0	22	8.2	1.8	1.8	.79	1.3	.29
16	1.9	2.0	2.9	4.5	7.0	15	8.1	1.6	1.6	.68	1.0	2.7
17	1.7	1.7	3.1	4.2	6.5	12	8.5	1.5	1.5	.56	5.8	12
18	1.7	1.4	3.4	3.9	5.4	15	9.6	1.2	1.3	.50	5.8	6.8
19	1.6	1.6	2.9	3.7	4.9	16	9.4	1.0	1.2	.45	7.2	7.9
20	11	1.9	4.3	3.5	5.2	15	9.7	1.2	2.4	.50	3.4	16
21	31	2.4	6.9	3.3	5.6	13	9.2	.90	5.8	.50	2.9	8.7
22	15	2.2	4.9	3.2	5.8	68	9.3	1.0	7.6	.50	17	6.1
23	6.9	2.0	3.7	3.1	8.2	114	9.6	.90	4.0	.38	7.6	5.5
24	6.9	2.7	2.9	3.1	18	35	16	.90	2.4	.34	5.2	14
25	8.0	2.9	2.4	3.0	138	23	19	.79	2.0	.68	5.5	60
26	19	3.4	3.4	3.0	34	18	15	.68	2.0	.79	2.9	39
27	12	3.7	2.9	2.9	17	15	16	.62	1.3	.36	2.7	24
28	7.6	3.4	2.7	2.9	14	16	15	.50	1.8	.29	2.2	13
29	5.2	8.7	2.4	2.8	---	16	12	.38	2.9	.28	2.0	6.8
30	3.7	8.0	2.0	2.8	---	13	9.3	.56	1.0	.31	1.6	4.0
31	15	---	1.7	2.7	---	11	---	.40	---	.34	1.2	---
TOTAL	293.5	106.2	200.0	119.50	336.6	719.2	484.7	117.13	110.00	29.25	99.23	236.59
MEAN	9.47	3.54	6.45	3.35	12.0	23.2	16.2	3.78	3.67	.94	3.20	7.89
MAX	31	13	36	19	138	114	75	14	24	5.2	17	60
MIN	1.6	1.4	1.7	.80	2.7	7.7	8.1	.38	.62	.28	.40	.28
CAL YR 1976	TOTAL	3268.96	MEAN	8.93	MAX	130	MIN	.96				
WTR YR 1977	TOTAL	2851.90	MEAN	7.81	MAX	138	MIN	.28				

BRONX RIVER BASIN

33

01302000 BRONX RIVER AT BRONXVILLE, NY

LOCATION.--Lat 40°56'09", long 73°50'10", Westchester County, Hydrologic Unit 02030102, on right bank in Bronxville, just upstream from Penn Central Transportation Co. bridge, and 800 ft (244 m) downstream from Grassy Sprain Brook.

DRAINAGE AREA.--26.5 mi² (68.6 km²), not including 18.1 mi² (46.9 km²), from which the entire flow is diverted for municipal water supply and drainage purposes.

PERIOD OF RECORD.--November 1943 to current year.

REVISED RECORDS.--WSP 1382: Drainage area. WRD NY 1971: 1961-67(P), 1968(M), 1970(M). WRD NY 1972: 1969(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 73.74 ft (22.476 m) above mean sea level.

REMARKS.--Records good. Diversions from 18.1 mi² (46.9 km²) for municipal water supply and flood control use. Included in these diversions is drainage from 12.8 mi² (33.2 km²) from Kensico Reservoir for City of New York, 4.58 mi² (11.9 km²) from Grassy Sprain Reservoir for Yonkers, 0.67 mi² (1.74 km²) for White Plains, and 0.1 mi² (0.3 km²) for flood control from outflow from Grassy Sprain Reservoir.

AVERAGE DISCHARGE.--33 years (1944-77), 40.6 ft³/s (1.150 m³/s), 20.81 in/yr (529 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,500 ft³/s (70.8 m³/s) June 19, 1972, gage height, 9.63 ft (2.935 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of flow through culvert computation of peak flow; minimum, 1.0 ft³/s (0.028 m³/s) Sept. 10, 1944, gage height, 0.14 ft (0.043 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 525 ft³/s (15 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 21	0030	525 14.9	3.44 1.049	Mar. 22	1730	1,210 34.3	6.05 1.844
Feb. 25	0145	*1,430 40.5	*6.88 2.097	Apr. 5	0400	754 21.4	4.41 1.344
Mar. 4	2130	539 15.3	3.43 1.045				

Minimum discharge, 6.7 ft³/s (0.19 m³/s) July 27, 28, gage height, 0.36 ft (0.110 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	38	17	12	12	59	61	28	87	14	29	9.7
2	18	28	17	12	12	51	112	29	34	13	26	9.1
3	26	26	16	12	12	50	152	29	18	12	13	13
4	30	26	15	13	12	203	78	27	16	13	16	8.9
5	20	29	15	12	13	189	381	74	15	12	15	8.4
6	18	23	15	12	12	82	121	73	17	11	11	8.9
7	18	23	180	11	12	72	93	50	26	11	13	7.8
8	17	22	58	10	12	63	83	32	18	28	13	7.6
9	182	20	24	10	12	58	72	57	101	28	13	7.4
10	54	21	22	95	13	54	66	45	128	12	9.4	36
11	26	21	22	45	15	51	62	31	31	11	20	11
12	23	19	21	23	20	48	59	28	22	16	11	7.7
13	21	10	19	18	27	230	55	27	19	16	29	7.5
14	20	18	18	17	24	154	51	25	18	21	62	7.9
15	18	18	19	16	21	82	47	24	17	12	22	7.8
16	18	18	19	15	19	71	45	23	16	11	12	34
17	17	18	20	15	18	63	43	23	15	11	134	111
18	16	19	19	15	18	81	42	23	15	10	36	15
19	16	19	19	15	17	84	39	22	15	9.3	15	18
20	68	19	22	15	17	71	37	22	61	9.6	12	47
21	178	19	36	15	17	65	36	21	69	9.6	10	21
22	35	19	16	14	17	514	35	21	18	8.5	48	13
23	26	18	17	14	18	379	35	20	16	7.6	16	13
24	32	19	15	14	22	156	53	20	15	7.5	14	71
25	48	20	14	14	660	120	59	19	17	9.4	16	251
26	79	18	17	13	90	103	37	19	20	8.8	11	101
27	34	19	16	13	78	92	36	18	16	7.4	9.9	67
28	28	18	15	13	76	96	32	18	17	7.1	9.8	29
29	25	31	16	13	---	96	29	15	23	7.4	9.9	23
30	23	23	15	12	---	78	29	18	14	8.7	11	19
31	85	---	14	11	---	69	---	16	---	8.3	9.9	---
TOTAL	1297	648	768	539	1296	3584	2080	897	914	371.2	687.9	991.7
MEAN	41.8	21.6	24.8	17.4	46.3	116	69.3	28.9	30.5	12.0	22.2	33.1
MAX	182	38	180	95	660	514	381	74	128	28	134	251
MIN	16	18	14	10	12	48	29	15	14	7.1	9.4	7.4
CFSM	1.58	.82	.94	.66	1.75	4.38	2.62	1.09	1.15	.45	.84	1.25
IN.	1.82	.91	1.08	.76	1.82	5.03	2.92	1.25	1.28	.52	.97	1.39
CAL YR 1976	TOTAL	16958.0	MEAN	46.3	MAX	610	MIN	12	CFSM	1.75	IN	23.80
WTR YR 1977	TOTAL	14073.8	MEAN	38.6	MAX	660	MIN	7.1	CFSM	1.46	IN	19.76

HUDSON RIVER BASIN

01312000 HUDSON RIVER NEAR NEWCOMB, NY

LOCATION.--Lat 43°58'00", long 74°07'55", Essex County, Hydrologic Unit 02020001, on right bank 30 ft (9 m) downstream from bridge on State Highway 28N, 0.5 mi (0.8 km) downstream from outlet of Harris Lake, 2 mi (3 km) east of Newcomb, and 4 mi (6 km) upstream from Wolf Creek.

DRAINAGE AREA.--192 mi² (497 km²).

PERIOD OF RECORD.--September 1925 to current year.

REVISED RECORDS.--WSP 696: 1928(M). WSP 711: 1930(M).

GAGE.--Water-stage recorder. Datum of gage is 1,550.38 ft (472.556 m) above mean sea level. Prior to Aug. 6, 1931, nonrecording gage at site 125 ft (38 m) downstream at same datum. Aug. 6, 1931 to Nov. 4, 1960, water-stage recorder on left bank at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. Flow slightly regulated by small reservoirs above station.

AVERAGE DISCHARGE.--52 years, 394 ft³/s (11.16 m³/s), 27.87 in/yr (708 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,440 ft³/s (211 m³/s) Jan. 1, 1949, gage height, 11.40 ft (3.475 m); minimum, 11 ft³/s (0.31 m³/s) Sept. 3, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s (71 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 15	2200	3,250 92.0	6.98 2.128	Apr. 14	2400	2,740 77.6	6.23 1.899
Apr. 1	1100	3,350 94.9	7.07 2.155	Apr. 25	0900	*3,450 97.7	*7.13 2.173

Minimum daily discharge, 54 ft³/s (1.53 m³/s) Feb. 19-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	456	615	260	125	72	62	3290	744	123	147	237	330
2	379	646	240	123	70	61	2720	670	162	132	228	296
3	322	598	220	119	70	59	1960	755	200	117	206	282
4	281	559	210	117	70	59	1590	691	183	105	189	255
5	251	563	200	111	68	73	1340	585	153	105	189	228
6	227	543	200	105	68	82	1190	602	132	96	228	209
7	215	497	210	103	66	86	1000	777	119	89	276	191
8	254	452	240	103	66	87	822	691	109	97	264	171
9	749	398	290	101	66	87	628	572	101	105	237	153
10	1790	366	311	100	64	93	568	505	99	105	216	140
11	1930	334	293	98	64	115	514	448	97	101	234	130
12	1410	299	270	96	64	156	568	402	93	95	276	121
13	1020	287	249	94	64	252	1210	394	89	117	276	125
14	816	267	231	94	62	959	2270	418	86	132	321	414
15	686	249	212	92	60	2810	2700	378	95	125	530	1010
16	606	237	212	90	58	3040	2120	324	99	156	538	879
17	555	225	197	90	58	2540	1570	311	91	219	788	744
18	497	216	209	88	58	2020	1300	382	89	209	1270	744
19	437	209	189	88	54	1540	1240	547	101	186	976	646
20	390	206	168	88	54	1150	1300	559	109	165	665	555
21	646	191	171	88	54	873	1360	464	123	153	509	615
22	1330	183	191	86	56	675	1440	398	145	186	497	728
23	1260	177	174	86	62	563	1670	346	150	194	839	728
24	1000	165	162	86	62	485	2540	305	140	180	918	686
25	827	156	150	86	60	433	3360	290	127	168	1190	589
26	755	153	147	84	62	370	2880	264	130	165	1070	691
27	686	165	142	82	60	314	2160	231	140	159	822	1860
28	593	225	140	80	60	296	1590	194	145	145	646	2290
29	526	296	132	78	---	414	1230	171	140	135	534	1790
30	472	287	127	76	---	1010	930	147	145	140	456	1430
31	480	---	125	74	---	2420	---	127	---	194	390	---
TOTAL	21846	9764	6272	2931	1752	23184	49060	13692	3715	4422	16015	19030
MEAN	705	325	202	94.5	62.6	748	1635	442	124	143	517	634
MAX	1930	646	311	125	72	3040	3360	777	200	219	1270	2290
MIN	215	153	125	74	54	59	514	127	86	89	189	121
CFSM	3.67	1.69	1.05	.49	.33	3.90	8.52	2.30	.65	.74	2.69	3.30
IN.	4.23	1.89	1.22	.57	.34	4.49	9.51	2.65	.72	.86	3.10	3.69

CAL YR 1976	TOTAL	210778	MEAN 576	MAX 3970	MIN 123	CFSM 3.00	IN 40.84
WTR YR 1977	TOTAL	171683	MEAN 470	MAX 3360	MIN 54	CFSM 2.45	IN 33.26

01314500 INDIAN LAKE NEAR INDIAN LAKE, NY

LOCATION.--Lat 43°45'20", long 74°16'35", Hamilton County, Hydrologic Unit 02020001, at Indian Lake Dam on Indian River, and 2.0 mi (3.2 km) south of village of Indian Lake.

DRAINAGE AREA.--131 mi² (339 km²).

PERIOD OF RECORD.--July 1900 to current year. Prior to October 1956, published as "Indian Lake Reservoir near Indian Lake."

GAGE.--Nonrecording gage read once daily. Datum of gage is at mean sea level.

REMARKS.--Reservoir is formed by masonry dam, completed in 1898. Usable capacity, about 4,500 mil ft³ (127 hm³) at elevation, 1,651.29 ft (503.313 m) (crest of spillway). Sills of double sluice gates at lowest outlet at elevation 1,615.50 ft (492.404 m). Dead storage unknown. Water is used for power development, for improvement of navigation in lower Hudson River, and to compensate for flow diverted from Hudson River at Glens Falls into Champlain (Barge) Canal.

COOPERATION.--Gage-height record furnished by Indian River Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 1,656.71 ft (504.965 m) Mar. 28, 1913, contents, 5,781 mil ft³ (164 hm³); minimum observed, 1,616.81 ft (492.804 m), estimated, Feb. 13, 1948, contents, 199 mil ft³ (5.64 hm³).

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 1,652.79 ft (503.770 m) Apr. 27, 28, contents, 4,966 mil ft³ (141 hm³); minimum observed, 1,632.67 ft (497.638 m) Feb. 22-24, contents 1,616 mil ft³ (45.8 hm³).

CORRECTIONS.--The monthend contents for September 1976 is 4.633 billion cubic feet, superseding figure published in report for 1976.

Capacity table, current water year
(elevation, in feet and capacity, in billions of cubic feet)

1,635.0	1.958	1,643.0	3.221
1,636.0	2.110	1,648.0	4.068
1,638.0	2.417	1,653.0	5.007

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0630

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1651.08	1651.86	1647.52	1642.31	1635.69	1632.71	1645.00	1652.31	1650.68	1649.93	1649.77	1650.56
2	1650.93	1651.97	1647.51	1642.08	1635.51	1632.72	1645.72	1652.16	1650.82	1649.93	1649.72	1650.53
3	1650.80	1651.95	1647.48	1641.83	1635.28	1632.71	1645.98	1650.72	1649.91	1649.71	1650.52	
4	1650.66	1651.87	1647.45	1641.52	1635.07	1632.71	1646.57	1651.86	1650.69	1649.89	1649.62	1650.45
5	1650.52	1651.79	1647.42	1641.39	1634.85	1632.87	1646.89	1651.70	1650.66	1649.91	1649.59	1650.39
6	1650.36	1651.64	1647.39	1641.15	1634.64	1632.93	1647.08	1651.56	1650.60	1649.89	1649.70	1650.28
7	1650.23	1651.53	1647.39	1640.97	1634.44	1632.95	1647.20	1651.37	1650.48	1649.88	1649.71	1650.20
8	1650.14	1651.36	1647.43	1640.75	1634.24	1632.95	1647.21	1651.18	1650.31	1649.91	1649.72	1650.11
9	1650.25	1651.21	1647.41	1640.55	1634.02	1633.09	1647.17	1651.13	1650.17	1649.92	1649.73	1650.09
10	1651.11	1651.03	1647.36	1640.35	1633.90	1633.21	1647.05	1650.99	1650.10	1649.88	1649.74	1649.97
11	1651.46	1650.85	1646.86	1640.14	1633.81	1633.31	1646.92	1650.92	1649.93	1649.91	1649.78	1649.87
12	1651.63	1650.62	1646.53	1639.95	1633.67	1633.49	1646.89	1650.84	1649.83	1649.92	1649.79	1649.80
13	1651.62	1650.39	1646.30	1639.71	1633.58	1633.85	1647.15	1650.81	1649.76	1649.99	1649.79	1649.73
14	1651.55	1650.17	1646.22	1639.49	1633.49	1635.45	1647.89	1650.75	1649.56	1650.06	1649.86	1649.82
15	1651.53	1650.01	1646.88	1639.28	1633.39	1637.76	1648.57	1650.61	1649.54	1650.09	1649.98	1649.85
16	1651.49	1649.77	1645.76	1639.07	1633.30	1639.21	1648.93	1650.47	1649.53	1650.11	1650.01	1649.84
17	1651.44	1649.55	1645.67	1638.87	1633.20	1640.21	1649.04	1650.37	1649.46	1650.14	1650.16	1649.91
18	1651.36	1649.38	1645.22	1638.66	1633.11	1640.40	1649.20	1650.43	1649.54	1650.17	1650.18	1649.97
19	1651.27	1649.13	1645.01	1638.45	1632.97	1641.20	1649.29	1650.54	1649.57	1650.17	1650.16	1650.02
20	1651.17	1648.86	1644.78	1638.22	1632.84	1641.45	1649.35	1650.59	1649.65	1650.10	1650.15	1650.04
21	1651.38	1648.62	1644.56	1637.97	1632.71	1641.66	1649.44	1650.62	1649.65	1650.10	1650.13	1650.24
22	1651.88	1648.44	1644.51	1637.75	1632.67	1641.80	1649.52	1650.63	1649.63	1650.08	1650.15	1650.48
23	1652.11	1648.23	1644.33	1637.53	1632.67	1641.98	1649.67	1650.63	1649.67	1650.02	1650.20	1650.59
24	1652.16	1648.07	1644.17	1637.33	1632.67	1642.04	1650.90	1650.66	1649.69	1649.98	1650.23	1650.62
25	1652.16	1647.91	1643.81	1637.11	1632.69	1642.05	1651.95	1650.74	1649.76	1649.91	1650.41	1650.63
26	1652.15	1647.82	1643.57	1636.88	1632.70	1642.08	1652.63	1650.75	1649.81	1649.91	1650.48	1650.64
27	1652.09	1647.72	1643.37	1636.67	1632.71	1642.08	1652.79	1650.77	1649.83	1649.86	1650.53	1651.44
28	1651.98	1647.68	1643.19	1636.48	1632.71	1642.08	1652.79	1650.75	1649.87	1649.84	1650.54	1651.79
29	1651.81	1647.64	1642.98	1636.27	---	1642.21	1652.67	1650.71	1649.86	1649.75	1650.53	1651.90
30	1651.69	1647.59	1642.75	1636.07	---	1642.66	1652.48	1650.71	1649.94	1649.80	1650.56	1651.89
31	1651.70	---	1642.54	1635.88	---	1643.70	---	1650.70	---	1649.79	1650.56	---
MEAN	1651.35	1649.82	1645.56	1639.06	1633.66	1637.74	1648.80	1650.98	1649.98	1649.96	1650.04	1650.41
MAX	1652.16	1651.97	1647.52	1642.31	1635.69	1643.70	1652.79	1652.31	1650.82	1650.17	1650.56	1651.90
MIN	1650.14	1647.59	1642.54	1635.88	1632.67	1632.71	1645.00	1650.37	1649.46	1649.75	1649.59	1649.73
†	4.770	3.984	3.124	2.081	1.622	3.491	4.890	4.556	4.402	4.385	4.517	4.770
‡	+51.2	-303	-321	-389	-190	+698	+540	-125	-59.4	-6.35	+49.3	+97.6
CAL YR 1976	MEAN	1646.87	MAX	1652.81	MIN	1636.41	‡	-3.13				
WTR YR 1977	MEAN	1646.51	MAX	1652.79	MIN	1632.67	‡	+4.35				

† Contents, in billions of cubic feet, at 2400 hours on last day of month, by interpolation.

‡ Change in contents, equivalent in cubic feet per second.

HUDSON RIVER BASIN

01315000 INDIAN RIVER NEAR INDIAN LAKE, NY

LOCATION.--Lat 43°45'30", long 74°16'05", Hamilton County, Hydrologic Unit 02020001, on right bank 0.8 mi (1.3 km) downstream from Indian Lake Dam, 1.0 mi (1.6 km) upstream from Big Brook, and 2.0 mi (3.2 km) south of village of Indian Lake.

DRAINAGE AREA.--132 mi² (342 km²).

PERIOD OF RECORD.--July 1912 to June 1914, June 1915 to current year. Monthly discharge only for some periods published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 1,604.23 ft (488.969 m) above mean sea level. Prior to Aug. 30, 1916, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated by Indian Lake (see station 01314500).

AVERAGE DISCHARGE.--63 years (1913, 1916-77), 293 ft³/s (8.298 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,460 ft³/s (98.0 m³/s) Mar. 28, 1913, gage height, 7.8 ft (2.38 m); minimum, less than 1 ft³/s (0.028 m³/s) frequently, when entire flow of river is being stored in Indian Lake.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 916 ft³/s (25.9 m³/s) Apr. 29, gage height, 3.81 ft (1.161 m); minimum, 14 ft³/s (0.40 m³/s) June 24, gage height, 0.55 ft (0.168 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	422	599	620	569	470	72	249	827	197	48	96	121
2	421	611	620	556	468	72	377	786	250	48	99	160
3	420	606	620	562	463	72	384	742	250	48	99	207
4	419	634	620	559	459	73	446	713	250	47	99	205
5	418	698	620	557	456	75	656	687	250	47	70	205
6	417	694	620	554	452	73	660	667	313	47	50	205
7	411	683	620	551	449	73	661	647	380	47	50	205
8	415	671	620	549	445	73	662	639	380	48	50	152
9	424	667	620	545	331	74	662	643	380	48	50	192
10	414	667	625	543	271	75	661	639	380	48	50	195
11	426	667	626	540	269	76	658	639	380	47	50	197
12	438	667	623	537	267	77	659	635	377	47	50	197
13	436	666	622	533	267	85	666	635	377	48	50	197
14	427	665	619	530	266	106	674	635	258	47	50	200
15	424	663	613	527	266	95	677	631	112	47	50	197
16	418	660	610	525	264	96	678	515	112	48	71	197
17	412	658	607	522	264	93	679	136	71	48	105	197
18	407	655	605	520	263	92	677	138	16	57	101	197
19	403	652	603	517	261	92	678	142	16	99	101	197
20	404	649	601	513	261	92	677	138	16	99	101	212
21	427	643	600	509	197	92	676	136	16	99	101	258
22	470	642	597	504	73	116	675	136	16	99	102	258
23	508	640	594	499	72	198	684	138	16	99	101	261
24	512	640	591	497	72	198	696	138	15	99	105	261
25	552	640	589	494	72	198	810	140	16	99	102	264
26	642	640	586	489	72	198	874	138	16	99	102	341
27	630	640	584	486	72	199	831	138	15	99	102	427
28	617	620	581	483	73	200	780	138	28	99	102	607
29	598	620	578	480	---	209	795	138	49	99	102	768
30	582	620	575	477	---	214	869	138	48	99	102	760
31	579	---	572	474	---	222	---	138	---	99	107	---
TOTAL	14493	19477	18781	16201	7615	3680	19831	12750	5000	2152	2570	8040
MEAN	468	649	606	523	272	119	661	411	167	69.4	82.9	268
MAX	642	698	626	569	470	222	874	827	380	99	107	768
MIN	403	599	572	474	72	72	249	136	15	47	50	121

CAL YR 1976 TOTAL 169257.9 MEAN 462 MAX 825 MIN 7.7
WTR YR 1977 TOTAL 130590.0 MEAN 358 MAX 874 MIN 15

HUDSON RIVER BASIN

37

01315500 HUDSON RIVER AT NORTH CREEK, NY

LOCATION.--Lat 43°42'03", long 73°59'02", Warren County, Hydrologic Unit 02020001, on left bank 125 ft (38 m) upstream from bridge on State Highway 28N in village of North Creek, 500 ft (152 m) upstream from North Creek, and 26 mi (42 km) downstream from Indian Lake.

DRAINAGE AREA.--792 mi² (2,051 km²).

PERIOD OF RECORD.--September 1907 to current year.

REVISED RECORDS.--WSP 621: Drainage area. WSP 1432: 1908-18, 1920, 1922.

GAGE.--Water-stage recorder. Datum of gage is 987.51 ft (300.993 m) above mean sea level. Prior to Oct. 15, 1930, nonrecording gages at sites 80 ft (24 m) and 125 ft (38 m) downstream at same datum.

REMARKS.--Records good except those for winter periods, which are fair. Appreciable regulation by Indian Lake (see station 01314500) and other reservoirs above station.

AVERAGE DISCHARGE.--70 years, 1,550 ft³/s (43.90 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,900 ft³/s (818 m³/s) Dec. 31, 1948, gage height, 12.14 ft (3.700 m); minimum, 112 ft³/s (3.17 m³/s) July 26, 1934, gage height, 1.96 ft (0.597 m); minimum daily, 114 ft³/s (3.23 m³/s) July 26, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,600 ft³/s (442 m³/s) Mar. 14, gage height, 9.58 ft (2.920 m); minimum, 273 ft³/s (7.73 m³/s) July 7, 8, gage height, 2.40 ft (0.732 m); minimum daily, 280 ft³/s (7.93 m³/s) July 7, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1620	3160	1370	1070	994	485	11200	3040	694	400	349	678
2	1370	3090	1350	1050	996	549	8370	2810	987	380	366	624
3	1220	2750	1100	1050	1080	582	6500	2710	1060	349	349	655
4	1110	2610	1000	1040	1020	585	5520	2520	958	324	332	651
5	992	2580	1000	1040	964	641	4930	2270	848	308	328	600
6	867	2450	980	1010	961	708	4710	2420	796	292	341	555
7	928	2350	1200	998	982	756	4060	2480	909	280	440	517
8	1150	2230	1500	950	1050	765	3540	2370	836	292	446	484
9	3310	2040	1700	957	1060	763	2990	2470	809	312	409	423
10	7250	1930	1800	964	407	738	2640	2590	767	304	375	421
11	5640	1830	1600	1010	700	1060	2380	2750	759	288	376	410
12	3990	1710	1400	1000	680	1400	3190	2720	767	280	406	397
13	3150	1650	1300	978	680	2560	5790	2540	759	337	432	397
14	2820	1580	1300	980	660	9800	8940	2320	759	462	436	902
15	2430	1540	1400	1010	660	12000	8300	2120	651	424	568	1470
16	2180	1510	1430	955	640	10600	6470	1900	457	400	747	1660
17	2020	1470	1340	970	640	8110	5000	1340	451	419	1470	1670
18	1840	1440	1320	996	620	5970	4300	1170	414	429	2000	1860
19	1680	1430	1320	1080	620	4500	3990	2260	440	400	1710	1710
20	1570	1440	1270	975	600	3590	4020	2200	440	371	1200	1540
21	3710	1370	1280	968	600	2920	4130	1840	468	358	898	2210
22	5200	1340	1270	920	580	2360	4160	1550	451	429	857	2550
23	4510	1310	1240	950	560	2260	5290	1320	424	404	1280	2210
24	3610	1110	1210	1020	540	2010	11800	1150	404	385	1670	1960
25	3090	1030	1180	957	393	1740	13500	1160	390	362	2370	1740
26	3160	1030	1170	930	380	1580	9830	1050	419	345	2120	2350
27	2980	1080	1150	907	396	1470	6900	916	435	324	1600	6000
28	2640	1370	1160	920	396	1510	5200	828	414	312	1230	5850
29	2390	1590	1130	1000	---	2490	4100	782	404	296	988	4760
30	2240	1510	1100	960	---	5500	3390	724	414	308	866	4000
31	2420	---	1130	985	---	11300	---	677	---	316	767	---
TOTAL	83097	53530	39700	30600	19859	101202	175140	58997	18784	10890	27726	51254
MEAN	2681	1784	1281	987	709	3265	5838	1903	626	351	894	1708
MAX	7260	3160	1800	1080	1080	12000	13500	3040	1060	462	2370	6000
MIN	867	1030	980	907	380	485	2380	677	390	280	328	397

CAL YR 1976 TOTAL 875306 MEAN 2392 MAX 17400 MIN 397
WTR YR 1977 TOTAL 670779 MEAN 1838 MAX 13500 MIN 280

HUDSON RIVER BASIN

01318500 HUDSON RIVER AT HADLEY, NY

LOCATION.--Lat 43°19'08", long 73°50'41", Saratoga County, Hydrologic Unit 02020001, on right bank at Hadley, 400 ft (122 m) downstream from outlet of Lake Luzerne, and 0.3 mi (0.5 km) upstream from Sacandaga River.

DRAINAGE AREA.--1,664 mi² (4,310 km²).

PERIOD OF RECORD.--July 1921 to current year.

REVISED RECORDS.--WSP 561: 1921-22. WSP 756: Drainage area. WSP 1432: 1931 (m).

GAGE.--Water-stage recorder. Datum of gage is 563.99 ft (171.904 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are fair. Some diurnal fluctuation caused by power-plant on Schroon River. Flow regulated by Indian Lake (see station 01314500) and other reservoirs above station.

AVERAGE DISCHARGE.--56 years, 2,893 ft³/s (81.93 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,700 ft³/s (1,210 m³/s) Jan. 1, 1949, gage height, 21.21 ft (6.465 m); minimum, 281 ft³/s (7.96 m³/s) Sept. 3, 1934, gage height, 0.94 ft (0.287 m); minimum daily, 292 ft³/s (8.27 m³/s) July 24, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft³/s (420 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	2300	24,100 683	13.62 4.151	Apr. 25	0800	*24,800 702	*13.90 4.237
Apr. 1	0100	17,500 496	11.88 3.621				

Minimum discharge, 486 ft³/s (13.8 m³/s) July 30, gage height, 1.57 ft (0.479 m); minimum daily, 493 ft³/s (14.0 m³/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2470	5550	2000	1500	1270	822	18700	7270	1600	870	518	1230
2	2190	5560	1800	1480	1280	818	15600	6520	1880	823	562	1130
3	1980	5120	1600	1560	1230	934	13800	6110	2010	767	567	1080
4	1840	4980	1500	1660	1300	883	12400	5650	1890	715	544	1150
5	1720	5080	1400	1600	1320	1040	11500	5090	1730	674	522	1160
6	1570	4820	1400	1510	1310	1200	12000	4860	1600	630	541	1090
7	1520	4720	1900	1440	1250	1330	10200	4870	1610	603	567	1020
8	1720	4540	2300	1510	1250	1360	8910	4660	1590	610	680	933
9	4100	4250	2500	1370	1240	1360	7650	5080	1520	638	676	766
10	10600	3950	2800	1340	1260	1420	6790	5530	1460	633	609	686
11	9050	3770	3300	1320	1020	1730	6320	5930	1330	598	603	658
12	6820	3500	2900	1420	800	2460	6110	6090	1320	573	617	634
13	5640	3360	2600	1520	1100	5680	8760	5530	1300	626	635	628
14	5150	3210	2100	1400	1110	18900	11900	4930	1270	703	679	932
15	4690	3100	2330	1470	1090	22300	12300	4490	1300	787	766	1530
16	4300	3000	2510	1460	1070	21300	10700	4100	1090	750	914	1980
17	3990	2880	2460	1410	1030	18000	8780	3520	927	723	1160	2090
18	3670	2800	2380	1260	1040	14800	7600	3010	912	728	2050	2300
19	3390	2740	2090	1230	1030	11900	7000	4020	927	717	2190	2310
20	3200	2710	2050	1430	1010	10300	6660	4390	950	673	1790	2270
21	6350	2610	2200	1450	998	8870	6680	3890	965	647	1430	2650
22	8640	2480	1850	1430	1010	7680	6610	3440	957	650	1280	3500
23	7810	2440	1900	1270	956	6390	7510	3050	912	705	1400	3130
24	6780	2330	1980	1320	938	6210	17000	2720	860	668	1780	2860
25	6090	2090	1920	1380	941	5730	23500	2670	846	644	2470	2740
26	6220	2020	1860	1420	864	5000	18300	2470	935	607	2750	2980
27	5950	2060	1840	1400	740	4580	14000	2220	974	564	2340	7060
28	5390	2250	1580	1300	804	4450	11600	2020	959	532	1910	8330
29	4910	2620	1620	1160	---	5850	9740	1950	914	507	1630	7040
30	4620	2500	1650	1210	---	10400	8180	1820	896	493	1460	6150
31	4720	---	1500	1250	---	17200	---	1680	---	503	1350	---
TOTAL	147090	103050	63820	43480	30261	220797	326800	129580	37434	20361	36990	72017
MEAN	4745	3435	2059	1403	1081	7122	10890	4180	1248	657	1193	2401
MAX	10600	5560	3300	1660	1320	22300	23500	7270	2010	870	2750	8330
MIN	1520	2020	1400	1150	740	818	6110	1680	846	493	518	628
CAL YR 1976	TOTAL	1620740	MEAN	4428	MAX	31200	MIN	1090				
WTR YR 1977	TOTAL	1231680	MEAN	3374	MAX	23500	MIN	493				

01319000 EAST BRANCH SACANDAGA RIVER AT GRIFFIN, NY

LOCATION.--Lat 43°28'25", long 74°13'25", Hamilton County, Hydrologic Unit 02020002, on left bank 300 ft (91 m) upstream from bridge on jeep trail, 0.3 mi (0.5 km) from State Highway 8, at Griffin, 2.0 mi (3.2 km) downstream from Georgia Creek, 3 mi (5 km) upstream from mouth, and 7 mi (11 km) upstream from Wells.

DRAINAGE AREA.--114 mi² (295 km²).

PERIOD OF RECORD.--August 1933 to current year.

REVISED RECORDS.--WSP 1111: 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 1,254.32 ft (382.317 m) above mean sea level. Prior to June 19, 1959, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--44 years, 216 ft³/s (6.117 m³/s), 25.73 in/yr (654 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft³/s (303 m³/s) Dec. 31, 1948, gage height, 14.35 ft (4.374 m), from floodmarks, from rating curve extended above 4,400 ft³/s (125 m³/s) on basis of slope-area and contracted-opening measurements of peak flow; minimum observed, 2.4 ft³/s (0.068 m³/s) Sept. 20, 1939, gage height, 0.30 ft (0.091 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,700 ft³/s (76 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2230	3,340 94.6	8.64 2.633	Mar. 14	1330	*7,050 200	*11.84 3.609
Mar. 13	0600	3,430 97.1	8.73 2.661	Apr. 25	0130	4,230 120	9.49 2.893

Minimum discharge, 7.6 ft³/s (0.22 m³/s) Sept. 12, 13, gage height, 0.73 ft (0.223 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	690	120	86	43	33	1760	263	110	35	11	26
2	114	474	120	84	42	33	1010	242	283	28	14	23
3	101	369	130	82	41	43	1350	234	185	24	11	20
4	91	381	150	80	40	50	1130	201	132	20	10	18
5	82	415	160	78	40	70	987	182	104	18	11	16
6	75	354	190	74	39	100	1090	175	87	17	16	16
7	72	305	230	70	37	82	686	157	77	16	18	14
8	204	268	400	68	35	76	498	144	70	23	22	13
9	1460	210	350	66	34	80	363	242	66	32	24	11
10	1950	190	300	66	33	250	325	287	81	25	15	9.7
11	848	160	230	64	32	700	349	543	78	19	20	8.5
12	505	140	200	64	31	1300	694	872	65	19	22	7.8
13	355	140	190	62	30	2050	1440	717	60	56	19	9.7
14	358	130	180	62	30	5680	1640	504	55	48	47	84
15	319	120	160	60	30	3070	968	366	52	31	92	82
16	322	110	150	60	30	1840	656	278	45	32	45	54
17	268	100	150	58	30	1210	513	228	41	32	39	80
18	228	94	150	58	31	713	454	194	43	26	42	97
19	197	90	140	56	32	520	421	351	64	20	29	77
20	189	84	130	56	33	380	389	280	55	17	23	116
21	1500	80	130	54	33	290	353	226	50	16	18	289
22	1040	78	130	52	32	220	332	187	45	17	29	240
23	664	78	120	52	31	190	675	151	39	14	45	161
24	479	80	110	50	31	170	3590	148	35	13	38	122
25	422	86	110	48	33	160	3100	198	33	12	59	110
26	502	96	100	48	35	160	1370	150	54	12	41	466
27	413	110	98	47	35	170	765	118	52	10	30	1290
28	327	190	96	46	34	220	525	99	41	8.7	24	598
29	279	200	94	46	---	745	394	108	36	8.7	20	437
30	259	130	90	45	---	1920	315	93	39	8.5	21	287
31	531	---	88	44	---	3080	---	79	---	11	31	---
TOTAL	14288	5952	4996	1886	957	25605	28142	8017	2177	668.9	886	4782.7
MEAN	461	198	161	60.8	34.2	826	938	259	72.6	21.6	28.6	159
MAX	1950	690	400	86	43	5680	3590	872	283	56	92	1290
MIN	72	78	88	44	30	33	315	79	33	8.5	10	7.8
CFSM	4.04	1.74	1.41	.53	.30	7.25	8.23	2.27	.64	.19	.25	1.39
IN.	4.66	1.94	1.63	.62	.31	8.36	9.18	2.62	.71	.22	.29	1.56
CAL YR 1976	TOTAL	129031.0	MEAN 353	MAX 4820	MIN	32	CFSM 3.10	IN 42.10				
WTR YR 1977	TOTAL	98357.6	MEAN 269	MAX 5680	MIN	7.8	CFSM 2.36	IN 32.10				

HUDSON RIVER BASIN

01321000 SACANDAGA RIVER NEAR HOPE, NY

LOCATION.--Lat 43°21'10", long 74°16'15", Hamilton County, Hydrologic Unit 02020002, on left bank 1.5 mi (2.4 km) downstream from West Branch Sacandaga River, on State Highway 30, and 4.5 mi (7.2 km) upstream from Hope.

DRAINAGE AREA.--491 mi² (1,272 km²).

PERIOD OF RECORD.--September 1911 to current year.

GAGE.--Water-stage recorder. Datum of gage is 881.31 ft (268.623 m) above mean sea level. Prior to July 24, 1929, nonrecording gage at site 300 ft (91 m) upstream at same datum.

REMARKS.--Records good except those for winter periods, which are poor. Some seasonal regulation at Piseco Lake Outlet and, since 1959, intermittent regulation by Lake Algonquin at Wells 4 mi (6 km) upstream. Infrequent minor fluctuations by mill upstream.

AVERAGE DISCHARGE.--66 years, 1,100 ft³/s (31.15 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,000 ft³/s (906 m³/s) Mar. 27, 1913, gage height, 11.0 ft (3.35 m), from floodmarks at site then in use; minimum, about 16 ft³/s (0.45 m³/s) Sept. 30, 1913, gage height, 1.17 ft (0.357 m); minimum daily, 18 ft³/s (0.51 m³/s) Sept. 20, 1913.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 9,100 ft³/s (260 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 10	0400	9,140 259	6.55 1.996	Mar. 31	0830	10,600 300	7.01 2.137
Mar. 14	0830	*19,300 547	*8.76 2.670	Apr. 24	2330	14,400 408	7.82 2.384

Minimum discharge, 79 ft³/s (2.24 m³/s) July 30, gage height, 1.44 ft (0.439 m); minimum daily, 82 ft³/s (2.32 m³/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	677	3700	740	340	270	540	6750	1940	384	167	99	148
2	600	2610	660	330	270	500	5210	1760	777	144	120	141
3	526	2300	640	330	260	500	5420	1620	622	126	106	133
4	465	2220	620	330	260	700	5310	1280	494	117	93	123
5	419	2270	620	320	250	900	4600	1230	415	112	87	117
6	385	2010	620	320	250	1300	4780	1150	330	104	106	123
7	364	1800	680	320	240	1700	3420	1030	274	104	130	114
8	747	1500	1800	310	230	1700	2950	929	254	137	126	106
9	4510	1300	1600	300	230	1400	2440	1230	244	167	130	230
10	6530	1200	1300	300	220	1500	2180	1410	279	148	126	211
11	3210	1100	1100	300	210	2500	2090	2060	318	123	230	160
12	2620	960	900	290	200	5000	2880	2480	284	117	198	137
13	2120	920	740	290	200	17000	5500	2200	264	434	171	137
14	1970	860	680	290	200	17100	6440	1660	225	567	164	494
15	1970	800	620	290	200	10800	4930	1340	211	466	249	552
16	1890	760	560	290	200	8040	4020	1460	182	421	207	447
17	1690	700	540	290	200	5690	3380	1400	167	396	178	672
18	1410	660	520	280	200	4250	2800	530	171	355	178	715
19	1170	620	500	280	210	3380	2680	672	284	301	156	861
20	1270	580	480	280	220	3020	2500	929	274	269	133	1190
21	5850	540	470	280	220	2420	2290	832	274	244	120	2070
22	4350	520	470	280	220	2010	2130	861	234	239	144	1630
23	3400	500	480	270	220	1890	3060	706	194	202	244	1420
24	2730	500	490	270	220	1790	12500	614	171	126	167	1210
25	2620	500	460	260	230	1540	11200	672	178	99	244	1100
26	2890	540	440	260	240	1410	6460	575	306	104	194	2370
27	2550	680	410	260	350	1340	4870	494	295	96	137	5310
28	2100	1100	400	260	600	1370	3400	440	234	90	152	2790
29	1840	1240	380	260	---	2680	2740	427	194	84	144	2450
30	1700	860	360	260	---	6090	2390	402	178	82	144	1860
31	2790	---	350	270	---	9420	---	366	---	93	152	---
TOTAL	67363	35850	20630	9010	6820	119480	131320	34699	8711	6234	4829	29021
MEAN	2173	1195	665	291	244	3854	4377	1119	290	201	156	967
MAX	6530	3700	1800	340	600	17100	12500	2480	777	567	249	5310
MIN	364	500	350	260	200	500	2090	366	167	82	87	106
CAL YR 1976	TOTAL	624601	MEAN	1707	MAX	16500	MIN	195				
WTR YR 1977	TOTAL	473967	MEAN	1299	MAX	17100	MIN	82				

01323500 GREAT SACANDAGA LAKE AT CONKLINGVILLE, NY

LOCATION.--Lat 43°18'57", long 73°55'39", Saratoga County, Hydrologic Unit 02020002, 800 ft (244 m) upstream from right end of Conklingville Dam on Sacandaga River at Conklingville.

DRAINAGE AREA.--1,044 mi² (2,704 km²).

PERIOD OF RECORD.--January 1930 to current year. Prior to October 1969, published as "Sacandaga Reservoir at Conklingville."

GAGE.--Water-stage recorder. Datum of gage is at mean sea level, adjustment of 1912. Prior to Apr. 23, 1930, nonrecording gage at same datum in outlet channel 800 ft (244 m) downstream.

REMARKS.--Reservoir is formed by earth and concrete dam; storage began in March 1930; dam completed in 1930. Usable capacity for stream regulation, 29,670 mil ft³ (840.3 hm³) between elevations 735.0 ft (224.03 m) and 768.0 ft (234.09 m). Between elevations 768.0 ft (234.09 m) and 771.0 ft (235.00 m) (spillway crest) an additional 3,450 mil ft³ (97.7 hm³) is available exclusively for flood storage. Elevation of inverts of three Dow valves is 699.0 ft (213.06 m). Capacity of 4,600 mil ft³ (130 hm³) below elevation 735.0 ft (224.03 m) is considered dead storage, except for extraordinary emergencies or for necessary inspection of structures. Purpose of reservoir is to provide flood control and low-water stream regulation for sanitary improvement, navigation, and power, as required by the public welfare, including public health and safety. Area of water surface of reservoir filled to capacity, elevation, 771.0 ft (235.00 m), is 41.7 mi² (108 km²).

COOPERATION.--Records furnished by Board of Hudson River-Black River Regulating District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 770.78 ft (234.934 m) June 26, 1972, contents, 37,470 mil ft³ (1,061 hm³); minimum since first filling, 729.55 ft (222.367 m) Mar. 30, 1940, contents, 2,100 mil ft³ (59.5 hm³).

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 770.63 ft (234.888 m) Apr. 26, contents, 37,300 mil ft³ (1,056 hm³); minimum, 738.78 ft (225.180 m) Mar. 3, contents, 6,960 mil ft³ (197.1 hm³).

Capacity table, current water year
(elevation, in feet, and contents, in billions of cubic feet)

738	6.43	760	25.61
740	7.80	764	29.85
745	11.64	768	34.27
750	15.94	771	37.72
755	20.16		

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	757.16	761.82	757.80	752.07	745.86	739.28	761.28	768.84	766.74	764.03	760.66	756.76
2	756.99	761.98	757.55	751.93	745.60	739.12	762.15	768.34	766.66	763.92	760.53	756.60
3	756.92	762.05	757.30	751.87	745.28	738.92	762.90	768.18	766.55	763.80	760.36	756.42
4	756.89	762.17	757.02	751.64	745.02	738.78	763.62	768.13	766.45	763.81	760.20	756.32
5	756.69	762.32	756.95	751.42	744.74	738.85	764.04	768.06	766.38	763.74	760.06	756.35
6	756.48	762.44	756.93	751.17	744.50	739.02	764.52	767.99	766.36	763.60	759.93	756.30
7	756.28	762.49	756.77	750.98	744.51	739.19	764.80	767.87	766.22	763.44	759.86	756.12
8	756.14	762.61	756.77	750.76	744.18	739.20	764.95	767.85	766.10	763.33	759.85	755.92
9	756.42	762.49	756.74	750.62	743.88	739.14	765.05	767.96	765.94	763.22	759.66	755.78
10	757.66	762.35	756.58	750.60	743.58	739.14	765.11	767.98	765.84	763.13	759.50	755.63
11	758.39	762.20	756.47	750.46	743.28	739.25	765.13	768.02	765.74	763.09	759.39	755.50
12	758.68	762.02	756.46	750.20	742.98	739.55	765.24	768.14	765.69	762.96	759.26	755.44
13	758.75	761.85	756.51	749.94	742.84	740.75	765.64	768.20	765.68	762.86	759.12	755.28
14	758.82	761.65	756.25	749.67	742.77	745.82	766.22	768.21	765.56	762.76	759.06	755.25
15	758.88	761.42	755.98	749.45	742.47	749.55	766.73	768.26	765.42	762.65	759.00	755.20
16	758.93	761.21	755.73	749.28	742.21	751.48	766.95	768.34	765.31	762.54	758.82	755.12
17	758.98	760.98	755.48	749.11	741.83	752.75	767.06	768.30	765.17	762.50	758.68	755.09
18	759.10	760.78	755.23	748.85	741.51	753.57	767.08	768.17	765.06	762.42	758.51	755.16
19	758.97	760.55	755.14	748.59	741.19	754.22	767.14	768.04	765.04	762.33	758.32	755.29
20	758.87	760.33	755.13	748.35	741.05	754.70	767.18	767.98	765.00	762.18	758.15	755.39
21	759.42	760.10	754.92	748.09	740.99	755.13	767.22	767.88	764.90	762.04	758.04	755.76
22	760.14	759.84	754.61	747.83	740.64	755.45	767.22	767.87	764.76	761.86	758.06	755.92
23	760.48	759.58	754.32	747.68	740.31	755.87	767.34	767.88	764.64	761.72	757.92	755.96
24	760.64	759.32	754.04	747.62	739.98	756.18	768.28	767.72	764.50	761.63	757.78	755.96
25	760.84	759.06	753.73	747.36	739.78	756.40	769.91	767.57	764.40	761.60	757.62	756.06
26	761.08	758.81	753.65	747.12	739.50	756.60	770.57	767.40	764.48	761.46	757.47	756.28
27	761.34	758.57	753.63	746.85	739.37	756.81	770.50	767.22	764.52	761.26	757.34	756.98
28	761.45	758.36	753.30	746.58	739.44	757.04	770.24	767.04	764.40	761.10	757.26	757.40
29	761.48	758.27	753.02	746.33	---	757.43	769.84	766.90	764.32	760.94	757.22	757.58
30	761.47	758.08	752.71	746.20	---	758.33	769.36	766.95	764.20	760.78	757.06	757.67
31	761.50	---	752.38	746.12	---	759.90	---	766.83	---	760.71	756.90	---
MEAN	758.90	760.86	755.45	749.19	742.47	748.30	766.44	767.87	765.40	762.50	758.76	756.02
MAX	761.50	762.61	757.80	752.07	745.86	759.90	770.57	768.84	766.74	764.03	760.66	757.67
MIN	756.14	758.08	752.38	746.12	739.37	738.78	761.28	766.83	764.20	760.71	756.90	755.09
†	27.36	23.51	17.96	12.43	7.34	26.34	35.56	32.91	29.90	26.34	22.37	23.27
‡	+1703	-1485	-2072	-2065	-2104	+7094	+3557	-989	-1161	-1329	-1482	+347
CAL YR 1976	MEAN 759.62	MAX 768.72	MIN 746.02	‡ +49.6								
WTR YR 1977	MEAN 757.76	MAX 770.57	MIN 738.78	‡ +14.9								

† Contents, in billions of cubic feet, at 2400 hours on last day of month.

‡ Change in contents, equivalent in cubic feet per second.

01325000 SACANDAGA RIVER AT STEWARTS BRIDGE, NEAR HADLEY, NY

LOCATION.--Lat 43°18'41", long 73°52'04", Saratoga County, Hydrologic Unit 02020002, on left bank 1.0 mi (1.6 km) downstream from Stewarts Bridge, 1.1 mi (1.8 km) west of Hadley, 1.4 mi (2.3 km) upstream from mouth, and 1.5 mi (2.4 km) downstream from Stewarts Bridge hydroelectric plant.

DRAINAGE AREA.--1,055 mi² (2,732 km²).

PERIOD OF RECORD.--September 1907 to current year. Published as "near Hadley" 1907-1910, "at Hadley" 1911-32 and "at Conklingville" 1932-52. Records published for both sites October 1951 to September 1952.

REVISED RECORDS.--WSP 1302: 1908. WSP 1432: 1910-12, 1916-21.

GAGE.--Water-stage recorder. Datum of gage is 582.00 ft (177.394 m) above mean sea level. Prior to Jan. 1, 1911, nonrecording gage at site about 1 mi (2 km) upstream at different datum. Jan. 1, 1911 to Sept. 30, 1932, water-stage recorder at site 0.8 mi (1.3 km) downstream at datum 8.82 ft (2.688 m) lower than present datum. Oct. 1, 1932 to Sept. 30, 1952, water-stage recorder at site 3.6 mi (5.8 km) upstream at datum 85.47 ft (26.051 m) higher than present datum.

REMARKS.--Records good above 10 ft³/s (0.28 m³/s) and fair below. Flow regulated by Great Sacandaga Lake since Mar. 27, 1930 (see station 01323500); no discharge over spillway during year. Extensive diurnal fluctuation caused by release of water from Great Sacandaga Lake, through Elmer J. West hydroelectric station as directed by Board of Hudson River-Black River Regulating District, and through Stewarts Bridge hydroelectric station.

COOPERATION.--Since Oct. 1, 1932, discharge computed by Board of Hudson River-Black River Regulating District from rating developed by Geological Survey.

AVERAGE DISCHARGE.--70 years, 2,138 ft³/s (60.55 m³/s), adjusted for storage since 1930.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 35,500 ft³/s (1,010 m³/s) Mar. 28, 1913, gage height, 12.36 ft (3.767 m) site and datum then in use; minimum, 5.3 ft³/s (0.15 m³/s) Mar. 17, 18, 1964, Apr. 29 to May 4, May 5, 6, 1965; minimum daily, 5.3 ft³/s (0.15 m³/s) Apr. 30 to May 3, 1965. Maximum discharge since construction of Conklingville Dam in 1930, 13,300 ft³/s (377 m³/s) July 1, 1968, gage height, 9.54 ft (2.908 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,300 ft³/s (348 m³/s) Apr. 26, gage height, 9.15 ft (2.789 m); minimum daily, 8.2 ft³/s (0.23 m³/s) Mar. 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3080	3090	4150	4140	3080	2300	22	10600	2020	2080	2050	2030
2	3110	3100	4180	98	3110	2280	27	8030	1970	2110	2070	2080
3	150	3060	4180	3010	3100	2270	26	3090	2110	51	2050	2090
4	2930	3090	4160	3090	3080	2340	1490	3080	2020	26	2070	46
5	3070	3080	130	3050	3120	2150	4130	3000	46	2070	2060	55
6	3070	3110	3010	3060	154	40	4130	3070	2250	2160	2090	2020
7	3100	1590	4200	3060	2960	2060	4150	3090	2010	2080	47	2050
8	3120	2910	4170	3110	3110	2100	4160	193	2090	2090	1990	1970
9	3130	4120	4180	151	3100	2020	3090	2990	2050	2060	2080	2040
10	114	4140	4170	2960	3080	2120	3130	3070	2070	50	2030	2040
11	392	4130	4140	3110	3070	2800	3360	3070	2050	2070	2020	45
12	2880	4120	104	3120	3070	2540	2220	3040	50	2050	2030	2030
13	3100	4130	3010	3120	136	214	2140	3060	2020	2090	2020	2060
14	3120	4180	4170	3110	2980	74	2100	3100	2060	2110	45	2010
15	3030	4140	4190	3130	3130	28	2210	138	2060	2090	2030	2100
16	3100	4140	4170	1770	3090	16	4100	2960	2050	2100	2090	2110
17	148	4110	4170	3250	3120	14	4100	3070	2080	46	2180	2110
18	2930	4140	4160	3140	3080	11	4200	3050	2080	2070	2070	32
19	3120	4170	126	3070	3070	11	3070	3100	52	2110	2070	2120
20	3090	4150	3020	3080	138	11	3180	2480	2090	2100	2040	2180
21	3080	4160	4180	3080	2890	126	3070	2990	2070	2120	47	2090
22	3060	4160	4180	3090	3060	313	3070	94	2110	2340	2040	2130
23	3050	4150	4130	126	3080	297	3050	2950	2080	2090	2020	2100
24	3100	4160	4140	2960	2990	161	4900	3040	2100	51	2030	2100
25	3070	4170	4170	3100	3040	9.0	6560	3050	2120	2100	2030	32
26	3180	4180	134	3130	3040	8.2	9660	3020	51	2060	2010	2090
27	3120	4140	3000	3130	118	8.2	10700	3060	2080	2060	2100	2070
28	3140	4160	4120	3120	2190	9.0	10800	3090	2110	2050	53	2050
29	3080	4140	4130	3110	---	15	10800	160	2090	2100	2040	2060
30	3060	4130	4140	142	---	18	10800	1300	2040	2070	2090	2050
31	3720	---	4200	2970	---	23	---	2140	---	44	1960	---
TOTAL	84444	114250	108314	83597	73186	26386.4	128445	92175	54079	52698	55552	51990
MEAN	2724	3808	3494	2697	2614	851	4282	2973	1803	1700	1792	1733
MAX	3720	4180	4200	4140	3130	2800	10800	10600	2250	2340	2180	2180
MIN	114	1590	104	98	118	8.2	22	94	46	26	45	32

Adjusted for change in contents in Great Sacandaga Lake and Stewarts Bridge pool

	MEAN	CFSM	IN.	4.27	2.20	1.35	630	.60	.48	7.50	7.46	1.88	.61	.35	.30	1.97
				4.84	2.46	1.56	.69	.49	.8.65	8.32	2.17	.68	.40	.34	.2.20	

Observed

Adjusted

CAL YR 1976	TOTAL	1161667.1	MEAN	3174	MAX	8140	MIN	8.2	MEAN	3224	CFSM	3.06	IN	41.59
WTR YR 1977	TOTAL	925116.4	MEAN	2535	MAX	10800	MIN	8.2	MEAN	2549	CFSM	2.42	IN	32.80

HUDSON RIVER BASIN

43

01327500 GLENS FALLS FEEDER AT DUNHAM BASIN, NY

LOCATION.--Lat 43°18'15", long 73°32'49", Washington County, Hydrologic Unit 02020003, on left bank at Dunham Basin, 100 ft (30 m) upstream from Bond Creek, 2.0 mi (3.2 km) east of courthouse at Hudson Falls, and 8.0 mi (12.9 km) downstream from Hudson River feeder dam at Glens Falls.

PERIOD OF RECORD.--September 1945 to current year (navigation seasons only).

GAGE.--Water-stage recorder. Datum of gage is 139.88 ft (42.635 m) above mean sea level, Barge Canal datum.

REMARKS.--Records fair. Feeder flow during navigation season is net diversion from Hudson River basin to the summit level of the Champlain (Barge) Canal, 0.4 mi (0.6 km) downstream, and is diverted in accordance with requirements of the canal. Flow during remainder of year consists of leakage through headgates and inflow from area tributary to feeder above station, which may continue during period of nonoperation. During navigation season a portion of the flow is rediverted into Lake Champlain basin; the remainder returns to the Hudson River in southbound lockages.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	105	75	2.5			---	28	96	98	4.3	98
2	98	85	70	2.5			---	45	91	87	1.3	92
3	94	87	108	2.5			---	85	89	112	61	89
4	82	116	215	2.5			---	75	92	101	101	89
5	92	98	143	2.8			58	80	84	91	120	84
6	98	122	80	2.8			49	80	85	91	91	85
7	99	103	82	---			23	77	84	91	112	77
8	150	82	89	---			28	75	89	92	96	84
9	887	80	152	---			27	89	84	92	84	87
10	330	80	20	---			26	94	84	91	82	85
11	112	78	3.0	---			26	82	77	84	80	96
12	96	77	5.1	---			27	80	78	89	87	92
13	89	75	4.7	---			26	80	80	84	103	91
14	89	75	2.8	---			26	75	78	77	94	99
15	85	75	2.3	---			27	70	78	82	99	87
16	89	77	2.0	---			27	65	80	84	84	105
17	85	75	2.3	---			27	70	87	61	92	108
18	82	75	3.0	---			26	67	78	59	103	103
19	84	73	3.9	---			40	65	77	72	108	103
20	96	73	2.0	---			78	78	78	78	105	120
21	233	73	5.5	---			82	96	80	87	103	125
22	89	73	3.3	---			82	89	82	99	91	116
23	70	72	2.0	---			129	78	70	84	94	116
24	67	73	2.0	---			380	87	107	82	99	110
25	84	72	2.0	---			190	87	127	70	110	98
26	122	72	2.0	---			61	85	131	87	120	110
27	72	73	2.0	---			38	82	110	69	112	69
28	64	73	1.8	---			32	77	108	43	103	91
29	67	77	1.8	---			31	72	108	21	94	140
30	80	73	2.0	---			30	49	92	25	94	131
31	145	---	2.3	---			---	67	---	25	96	---
TOTAL	4029	2442	1091.8	---			---	2330	2684	2408	2823.6	2980
MEAN	130	81.4	35.2	---			---	75.2	89.5	77.7	91.1	99.3
MAX	887	122	215	---			---	96	131	112	120	140
MIN	64	72	1.8	---			---	28	70	21	1.3	69

HUDSON RIVER BASIN

01327600 HUDSON RIVER AT GLENS FALLS, NY

LOCATION.--Lat 43°18'20", long 73°36'58", at Warren-Saratoga County line, Hydrologic Unit 02020003, at road and quarry conveyor bridge, 0.1 mi (0.2 km) east of Glens Falls, 1.4 mi (2.3 km) downstream from bridge on U.S. Highway 9-State Highway 32, and 4.3 mi (6.9 km) upstream from discharge station (01327750, Hudson River at Fort Edward).

DRAINAGE AREA.--2,810 mi² (7,278 km²).

PERIOD OF RECORD.--Water years 1972 to 1975, April to September 1977.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: April to September 1977.

REMARKS.--Water-discharge records for Hudson River at Fort Edward (station 01327750) are used to compute sediment discharges.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 28 mg/L Aug. 27; minimum daily mean, 1 mg/L on several days during April to June, and September.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 1,440 tons (1,310 Mg) Apr. 25, minimum daily, 4.3 tons (3.9 Mg) Sept. 5.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	
MAR										
31...	1640	E15000	350	30	6	.40	.60	1.0	.02	
APR										
01...	1105	E19000	440	40	13	.50	.60	1.1	.03	
11...	0930	E11000	150	20	5	.42	.60	1.0	.02	
25...	1300	E29000	520	50	6	.36	.40	.76	.06	
26...	1200	E28000	390	50	15	.39	.40	.79	.04	
27...	1200	E24000	230	30	5	.46	.40	.86	.04	
28...	1100	E22000	250	30	15	.43	.40	.83	.02	
MAY										
05...	0900	E5900	200	30	7	.40	.70	1.1	.03	
25...	0945	E4400	160	60	5	.32	1.1	1.4	.03	
JUN										
02...	1300	E2400	220	30	2	.29	1.2	1.5	.09	
16...	0930	E2500	190	20	0	.35	1.7	2.1	.05	
JUL										
14...	1030	E2600	20	20	6	.31	1.2	1.5	.08	
22...	0915	E2200	190	40	0	.25	.47	.72	.06	
AUG										
02...	1030	E2100	190	20	2	.34	1.3	1.6	.09	
09...	1530	E2100	140	20	12	.22	.39	.61	.05	
18...	0930	E3000	90	20	2	.25	.64	.89	.08	
22...	1200	E2700	450	40	11	.20	.57	.77	.06	
30...	0930	E3100	200	20	0	.20	.32	.52	.03	
SEP										
06...	0845	E2800	130	20	0	.23	.47	.70	.01	
27...	1015	E5500	220	20	--	.17	.24	.41	.04	
DATE		TOTAL NON- FILT- RABLE RESIDUE (MG/L)	VOL. NON- FILT- RABLE RESIDUE (MG/L)	OIL AND GREASE (MG/L)	TOTAL PCB (UG/L)	POLY- CHLO- RINATED NAPH- THA- LENES (JG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)
MAR										
31...	22	0	0	0	.0	.00	.00	.0	.00	.00
APR										
01...	16	1	0	0	.0	.00	.00	.0	.00	.00
11...	6	0	0	0	.0	.00	.00	.0	.00	.00
25...	26	5	0	0	.0	.00	.00	.0	.00	.00
26...	14	4	0	0	.0	.00	.00	.0	.00	.00
27...	6	6	1	0	.0	.00	.00	.0	.00	.00
28...	10	8	0	0	.0	.00	.00	.0	.00	.00
MAY										
05...	4	0	0	0	.0	.00	.00	.0	.00	.00
25...	0	0	4	0	.0	.00	.00	.0	.00	.00
JUN										
02...	10	0	0	0	.0	.00	.00	.0	.00	.00
16...	1	0	0	0	.0	.00	.00	.0	.00	.00
JUL										
14...	--	--	13	--	--	--	--	--	--	--
22...	4	3	2	.0	.00	.00	.00	.0	.00	.00
AUG										
02...	8	2	0	.0	.00	.00	.00	.0	.00	.00
09...	3	2	2	.0	.00	.00	.00	.0	.00	.00
18...	4	0	0	.0	.00	.00	.00	.0	.00	.00
22...	6	1	--	.0	.00	.00	.00	.0	.00	.00
30...	5	2	14	.0	.00	.00	.00	.0	.00	.00
SEP										
06...	1	0	35	.0	.00	.00	.00	.0	.00	.00
27...	11	7	0	.0	.00	.00	.00	.0	.00	.00

E Estimated.

HUDSON RIVER BASIN

45

01327600 HUDSON RIVER AT GLENS FALLS, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL DDT (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MIREX (UG/L)	TOTAL TOX- APHENE (UG/L)
MAR								
31...	.00	.00	.00	.00	.00	.00	.00	0
APR								
01...	.00	.00	.00	.00	.00	.00	.00	0
11...	.00	.00	.00	.00	.00	.00	.00	0
25...	.00	.00	.00	.00	.00	.00	.00	0
26...	.00	.00	.00	.00	.00	.00	.00	0
27...	.00	.00	.00	.00	.00	.00	.00	0
28...	.00	.00	.00	.00	.00	.00	.00	0
MAY								
05...	.00	.00	.00	.00	.00	.00	.00	0
25...	.00	.01	.00	.00	.00	.01	.00	0
JUN								
02...	.00	.00	.00	.00	.00	.00	.00	0
16...	.00	.00	.00	.00	.00	.00	.00	0
JUL								
14...	--	--	--	--	--	--	--	--
22...	.00	.00	.00	.00	.00	.00	.00	0
AUG								
02...	.00	.00	.00	.00	.00	.00	.00	0
09...	.00	.00	.00	.00	.00	.00	.00	0
18...	.00	.00	.00	.00	.00	.00	.00	0
22...	.00	.00	.00	.00	.00	.00	.00	0
30...	.00	.00	.00	.00	.00	.00	.00	0
SEP								
06...	.00	.00	.00	.00	.00	.00	.00	0
27...	.00	.00	.00	.00	.00	.00	.00	0

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE DI- MENT (MG/L)	SUS- PENDE DI- MENT (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE DI- MENT (MG/L)	SUS- PENDE DI- MENT (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR						JUL					
26...	1200	E28000	39	E2900	88	11...	1800	E2500	2	E13	90
26...	1720	E27000	11	E800	70	12...	1800	E2200	3	E18	77
JUN						13...	2000	E2600	4	E28	88
02...	1300	E2400	3	E19	0						
JUL											
09...	0900	E2800	6	E45	78						
10...	1400	E2200	5	E30	100						

E Estimated.

HUDSON RIVER BASIN

01327600 HUDSON RIVER AT GLENS FALLS, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	4	180	12	124	16	125	5	36	8	72
2	---	---	15	583	4	38	6	45	5	30	5	44
3	---	---	12	288	3	28	15	47	6	44	8	70
4	---	---	14	348	3	31	3	5.6	7	45	9	38
5	---	---	6	143	5	31	3	18	10	66	1	4.3
6	---	---	9	209	5	44	3	21	14	78	4	30
7	---	---	5	108	4	37	4	28	13	33	21	156
8	---	---	6	91	4	39	4	27	10	47	6	49
9	---	---	4	52	3	27	6	46	10	66	1	7.8
10	---	---	6	134	1	8.7	5	23	2	15	4	32
11	9	228	18	388	1	8.5	2	12	3	22	2	6.0
12	2	48	9	202	1	5.0	3	20	9	76	4	23
13	1	30	7	157	1	6.8	4	29	6	40	2	13
14	4	140	4	83	11	89	4	29	4	9.7	3	26
15	3	113	6	88	4	33	2	14	3	21	8	72
16	4	162	10	144	5	45	13	95	2	14	2	20
17	2	70	7	115	2	17	3	10	3	25	17	187
18	2	65	5	72	3	21	2	13	5	46	3	27
19	4	108	3	45	4	13	3	23	5	53	4	39
20	3	73	4	73	4	25	4	29	12	128	5	55
21	5	98	6	98	7	56	4	31	6	37	2	25
22	7	129	3	39	4	34	5	35	10	82	6	78
23	6	126	5	60	5	30	8	53	6	52	3	43
24	12	570	3	41	4	28	7	35	9	88	5	64
25	19	1440	3	41	9	67	5	31	6	64	5	51
26	14	1070	2	27	14	42	3	23	5	63	6	67
27	8	539	1	13	7	50	17	123	28	317	9	158
28	7	410	4	46	3	24	23	153	8	68	8	201
29	4	206	3	30	3	24	10	69	6	52	6	139
30	4	194	6	29	4	33	4	29	4	37	5	104
31	---	---	4	38	---	---	4	32	7	64	---	---
TOTAL	---	5819	---	3975	---	1054.0	---	1273.6	---	1818.7	---	1901.1

HUDSON RIVER BASIN

47

01327750 HUDSON RIVER AT FORT EDWARD, NY

LOCATION.--Lat 43°16'10", long 73°35'47", Washington County, Hydrologic Unit 02020003, on left bank 40 ft (12 m) upstream from Scott Paper Mill, 150 ft (46 m) south of River Street in Fort Edward, and 0.4 mi (0.6 km) upstream from bridge on State Highway 197.

DRAINAGE AREA.--2,817 mi² (7,296 km²).

PERIOD OF RECORD.--December 1976 to September 1977.

GAGE.--Water-stage recorder. Datum of gage is 100.00 ft (30.480 m) above mean sea level.

REMARKS.--Records poor prior to May 25 and fair thereafter. Flow regulated appreciably by Great Sacandaga Lake (see station 01323500) and Indian Lake (see station 01314500). Diurnal fluctuation caused by powerplants upstream from station. Water is diverted into (St. Lawrence River basin through Glens Falls feeder (see station 01327500), Bond Creek (see station 01328000), and Champlain (Barge) Canal, and occasionally may be received from that basin through summit level of Champlain (Barge) Canal at Dunham Basin.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period December 1976 to September 1977, 31,000 ft³/s (878 m³/s) Apr. 26, gage height, 27.50 ft (8.382 m); minimum, 490 ft³/s (13.9 m³/s) July 4, gage height, 19.48 ft (5.937 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			6400	7170	5000	3500	19000	16600	3820	2940	2660	3290
2			6600	3940	5000	3500	16000	14400	3510	2770	2220	3230
3			6200	3340	4800	2500	14000	8880	3490	1160	2680	3180
4			6000	5100	4600	3600	15000	9200	3820	690	2330	1530
5			3000	4950	4500	3400	16000	8800	2250	2250	2440	1550
6			5200	5250	3000	2000	17000	8600	3200	2610	2000	2730
7			6600	4350	3500	2400	14000	8000	3370	2630	945	2730
8			4200	4730	4800	3700	13000	5600	3540	2540	1750	2970
9			8000	3900	4400	3500	11000	5750	3310	2870	2440	2840
10			8340	4500	4400	3500	10000	8260	3180	1750	2700	2940
11			8210	5000	4200	4100	9400	7970	3120	2140	2750	1120
12			5760	5000	4100	5100	8800	8290	1880	2410	3100	2040
13			3840	5000	2400	6400	11000	8290	2520	2750	2470	2440
14			7940	4500	2600	22600	13000	7660	3050	2660	900	3200
15			5810	4000	4200	24000	14000	5420	3100	2590	2540	3320
16			7220	3800	4200	21000	15000	5330	3430	2730	2660	3650
17			7040	4800	4200	19000	13000	6110	3150	1270	3100	4060
18			6960	4200	4100	16000	12000	5330	2570	2330	3370	3310
19			4780	4700	4000	13000	10000	5540	1220	2870	3950	3600
20			3260	4600	2400	11000	9000	6760	2360	2730	3950	4060
21			6180	4500	2400	9500	7240	6080	2990	2890	2270	4570
22			6450	4000	4300	8000	6800	4840	3200	2610	2990	4780
23			6360	3500	4300	7000	7750	4420	2250	2470	3180	5360
24			6000	3200	4000	6600	17600	5030	2590	1880	3600	4590
25			6720	4800	4500	6000	28000	5110	2800	2330	3920	3760
26			4430	4500	3800	5400	28300	4910	1120	2840	4600	4110
27			3840	4300	2500	5000	25000	4780	2680	2670	4170	6520
28			6900	4500	1900	4700	21700	4220	3050	2470	3100	9280
29			5560	4000	---	5000	19100	3660	2990	2570	3200	8530
30			5540	3400	---	10000	18000	1730	3070	2680	3370	7700
31			7350	4200	---	18000	---	3460	---	2950	3370	---
TOTAL	---		193170	137970	105100	250500	439690	209030	86630	75050	88725	117090
MEAN	---		6231	4451	3661	8403	14660	6743	2888	2421	2862	3903
MAX	---		8340	7170	5000	24000	28300	16600	3820	2950	4600	9280
MIN	---		3000	3200	1900	2000	6800	1730	1120	690	900	1120

Note.--No gage-height record Jan. 10 to Feb. 10, Mar. 14 to Apr. 20.

HUDSON RIVER BASIN

01328000 BOND CREEK AT DUNHAM BASIN, NY

LOCATION.--Lat 43°18'22", long 73°32'56", Washington County, Hydrologic Unit 02020003, on left bank at Dunham Basin, 800 ft (244 m) upstream from bridge on State Highway 196, 0.2 mi (0.3 km) upstream from Glens Falls feeder and abandoned Champlain Canal, 0.5 mi (0.8 km) upstream from Champlain (Barge) Canal, and 1.9 mi (3.1 km) east of courthouse at Hudson Falls.

DRAINAGE AREA.--14.7 mi² (38.1 km²).

PERIOD OF RECORD.--June 1943 to current year. Prior to October 1950, published as "Bond Brook at Dunham Basin."

GAGE.--Water-stage recorder. Datum of gage is 140.30 ft (42.763 m) above mean sea level, Barge Canal datum.

REMARKS.--Records fair except those for winter periods, which are poor. During canal navigation season, an indeterminate portion of flow is diverted at a point 0.5 mi (0.8 km) below gage into Lake Champlain basin through summit level of Champlain (Barge) Canal at Dunham Basin.

AVERAGE DISCHARGE.--30 years, 17.7 ft³/s (0.501 m³/s), 16.35 in/yr (415 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,370 ft³/s (38.8 m³/s) Dec. 31, 1948 gage height, 8.52 ft (2.597 m); maximum gage height, 8.66 ft (2.640 m) Mar. 5, 1964 (backwater from ice); minimum discharge, 0.10 ft³/s (0.003 m³/s) Aug. 1, 2, 1965, Aug. 25, Sept. 19, 20, 1968, Sept. 12, 13, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1630	877 24.8	6.86 2.091	Mar. 13	2000	*895 25.3	*6.92 2.109

Minimum discharge, 1.2 ft³/s (0.034 m³/s) Aug. 28, 29, 31, Sept. 1, 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	48	5.5	3.1	2.2	119	37	11	6.8	5.1	1.4	1.2
2	8.6	26	4.7	2.9	2.3	107	26	9.0	6.3	3.3	1.8	1.2
3	6.8	23	4.7	2.7	2.3	61	34	9.0	5.9	2.3	1.8	1.4
4	5.5	59	8.1	2.6	2.3	81	23	7.6	5.9	2.0	1.6	1.4
5	5.1	40	6.8	2.5	2.3	367	76	7.6	6.3	2.0	1.8	1.4
6	5.1	64	5.5	2.4	2.3	139	90	8.1	4.0	1.8	1.6	1.6
7	4.3	46	82	2.4	2.3	70	38	8.1	1.6	1.8	1.6	1.6
8	42	30	226	2.4	2.3	80	30	8.1	1.8	2.3	1.6	1.4
9	466	21	115	2.4	2.3	149	21	30	2.0	2.6	1.6	1.4
10	192	19	28	2.4	2.4	247	17	45	2.9	2.0	1.6	1.8
11	67	17	21	2.5	2.7	161	15	26	2.6	1.8	1.6	1.6
12	51	14	20	2.4	3.5	129	13	19	2.3	2.3	1.6	1.6
13	40	12	18	2.4	4.0	460	11	14	2.0	2.3	1.6	1.6
14	36	11	16	2.4	4.5	548	9.5	11	1.8	2.0	1.6	5.1
15	24	11	14	2.4	4.2	142	8.1	9.0	1.8	1.8	1.6	3.3
16	19	10	13	2.4	4.0	121	7.2	9.5	1.8	1.8	1.4	2.3
17	15	9.5	12	2.4	4.0	92	6.3	10	1.8	1.8	1.4	4.3
18	12	9.5	11	2.3	3.8	67	5.9	11	2.0	1.8	1.4	5.1
19	11	9.5	10	2.2	3.8	65	5.9	20	2.3	1.8	1.4	4.3
20	25	8.6	10	2.2	3.8	50	5.5	16	2.0	1.8	1.4	13
21	141	7.2	12	2.2	3.8	33	5.5	13	2.3	2.0	1.4	29
22	51	6.8	11	2.3	3.8	35	5.5	11	2.3	2.0	2.0	14
23	34	6.8	9.0	2.2	4.0	72	53	9.0	2.0	1.8	1.8	8.6
24	27	6.3	7.6	2.2	5.0	78	243	8.1	1.8	1.8	1.8	6.8
25	49	6.3	6.6	2.1	195	48	150	11	12	2.3	1.8	5.9
26	80	5.9	5.4	2.1	169	40	71	8.6	23	1.8	1.6	35
27	39	6.3	4.6	2.1	142	41	48	6.8	6.8	1.6	1.4	42
28	26	6.3	4.2	2.2	216	39	31	6.8	3.6	1.6	1.4	20
29	22	9.0	3.8	2.2	---	70	20	8.6	5.9	1.4	1.2	15
30	18	7.6	3.6	2.2	---	47	14	7.6	14	1.6	1.4	11
31	71	---	3.3	2.2	---	52	---	7.2	---	1.6	1.4	---
TOTAL	1604.4	556.6	702.4	73.4	799.4	3810	1120.4	386.7	137.6	63.9	48.6	243.9
MEAN	51.8	18.6	22.7	2.37	28.6	123	37.3	12.5	4.59	2.06	1.57	8.13
MAX	466	64	226	3.1	216	548	243	45	23	5.1	2.0	42
MIN	4.3	5.9	3.3	2.1	2.2	33	5.5	6.8	1.6	1.4	1.2	1.2
CFSM	3.52	1.27	1.54	.16	1.95	8.37	2.54	.85	.31	.14	.11	.55
IN.	4.06	1.41	1.78	.19	2.02	9.64	2.84	.98	.35	.16	.12	.62
CAL YR 1976	TOTAL	12180.3	MEAN	33.3	MAX	466	MIN	2.8	CFSM	2.27	IN	30.82
WTR YR 1977	TOTAL	9547.8	MEAN	26.2	MAX	548	MIN	1.2	CFSM	1.78	IN	24.16

HUDSON RIVER BASIN

49

01329000 BATTEN KILL AT ARLINGTON, VT

LOCATION.--Lat 43°04'38", long 73°09'26", Bennington County, Hydrologic Unit 02020003, on left bank 5 ft (1.5 m) upstream from bridge on Highway 313 at Arlington and 0.9 mi (1.4 km) downstream from Warm Brook.

DRAINAGE AREA.--152 mi² (394 km²).

PERIOD OF RECORD.--October 1928 to current year.

REVISED RECORDS.--WSP 756: Drainage area. WSP 851: 1936 (maximum gage height). WSP 1302: 1929-34(M).

GAGE.--Water-stage recorder. Datum of gage is 597.68 ft (182.173 m) above mean sea level, unadjusted. Prior to Nov. 18, 1941, nonrecording gage at downstream side of bridge at same datum.

REMARKS.--Records excellent except those for winter period, which are fair. Prior to 1949, diurnal fluctuation at low flow caused by mill upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--49 years, 340 ft³/s (9.629 m³/s), 30.38 in/yr (772 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,100 ft³/s (314 m³/s) Mar. 18, 1936, gage height, 11.3 ft (3.44 m), from floodmarks, present site, from rating curve extended above 6,100 ft³/s (173 m³/s) on basis of slope-area measurement at gage height 10.8 ft (3.29 m) and computation of peak flow over dam; minimum, 37 ft³/s (1.05 m³/s) Sept. 25, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,200 ft³/s (62.3 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	1030	*4100 116	*9.06 2.761	Apr. 24	2000	2420 68.5	7.97 2.429
Mar. 31	1230	2710 76.7	8.19 2.496				

Minimum discharge, 94 ft³/s (2.66 m³/s) Feb. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259	734	184	155	110	245	2090	416	174	254	212	119
2	238	523	205	145	110	185	1350	394	270	221	350	115
3	224	460	185	145	110	155	1250	394	267	198	198	121
4	208	570	195	145	110	151	1230	353	218	182	154	142
5	199	500	208	140	110	286	1130	332	190	179	142	126
6	187	482	199	135	110	299	1410	329	177	195	242	166
7	187	443	551	140	110	227	1030	302	195	174	270	139
8	215	411	745	140	110	198	772	283	329	201	206	121
9	1330	376	388	135	110	212	625	486	251	280	215	113
10	1470	363	325	130	110	367	567	562	503	209	174	106
11	782	355	327	200	113	546	525	548	778	174	296	104
12	442	323	281	185	117	730	745	702	468	190	286	100
13	415	315	241	170	126	1730	1370	767	346	239	245	104
14	542	308	200	160	131	3680	1830	525	286	239	312	800
15	514	296	234	150	117	2980	1420	409	248	179	357	544
16	431	285	224	145	108	2140	931	361	218	156	229	289
17	384	273	224	140	108	1720	767	329	203	151	203	670
18	347	266	215	135	115	1190	756	364	203	154	190	576
19	319	262	199	135	108	847	745	655	248	135	161	655
20	427	252	208	140	106	681	707	440	203	126	149	823
21	1100	231	262	145	106	600	645	357	264	119	142	1000
22	837	228	220	140	105	548	645	312	264	137	201	600
23	575	224	208	135	105	553	853	283	224	126	226	434
24	478	218	190	130	103	477	2050	260	190	115	169	377
25	570	211	184	125	126	424	1880	251	221	161	166	383
26	724	205	187	120	138	394	1110	226	772	239	147	425
27	580	234	160	120	123	394	745	212	464	164	132	597
28	473	277	165	115	261	468	605	201	302	132	126	426
29	435	266	170	115	---	1070	516	209	289	119	119	355
30	411	211	155	115	---	1800	460	195	343	115	132	310
31	703	---	155	115	---	2590	---	182	---	113	130	---
TOTAL	16046	10102	7594	4345	3316	27887	30759	11639	9108	5376	6281	10840
MEAN	518	337	245	140	118	900	1025	375	304	173	203	361
MAX	1470	734	745	200	261	3680	2090	767	778	280	357	1000
MIN	187	205	155	115	103	151	460	182	174	113	119	100
CFSM	3.41	2.22	1.61	.92	.78	5.92	6.74	2.47	2.00	1.14	1.34	2.38
IN.	3.93	2.47	1.86	1.06	.81	6.82	7.53	2.85	2.23	1.32	1.54	2.65

CAL YR 1976	TOTAL	198992	MEAN 544	MAX 4100	MIN 155	CFSM 3.58	IN 48.70
WTR YR 1977	TOTAL	143293	MEAN 393	MAX 3680	MIN 100	CFSM 2.59	IN 35.07

HUDSON RIVER BASIN

01329650 HUDSON RIVER AT SCHUYLERVILLE, NY

LOCATION.--Lat 43°05'54", long 73°34'25", at Saratoga-Washington County line, Hydrologic Unit 02020003, at bridge on State Highway 29, 0.2 mi (0.3 km) east of Schuylerville, 0.8 mi (1.3 km) downstream from Batten Kill, and 1.0 mi (1.6 km) downstream from Champlain (Barge) Canal lock 5.

DRAINAGE AREA.--3,440 mi² (8,910 km²) approximately.

PERIOD OF RECORD.--March to September 1977.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: March to September 1977.

REMARKS.--Water discharge estimated from staff gage located at downstream approach to lock 5 and from wire-weight gage located at bridge. Water-discharge records are poor. Streamflow affected by regulation for power generation and diversion for canal operations.

COOPERATION.--Staff-gage records furnished by the New York State Department of Transportation.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 56 mg/L Apr. 25; minimum daily mean, 1 mg/L Apr. 20, 22, June 18-20.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 5,080 tons (4,610 Mg) Apr. 25; minimum daily, 6.2 tons (5.6 Mg) June 20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
MAR									
14...	1400	41400	11000	380	20	.48	1.2	1.7	.22
15...	1315	44200	2900	130	10	.52	.68	1.2	.08
30...	1600	8100	630	40	7	.64	.90	1.5	.09
31...	0930	19400	700	40	9	.56	.70	1.3	.03
APR									
06...	1600	23300	720	40	23	.48	.40	.88	.05
14...	1000	15200	280	30	10	.50	.70	1.2	.02
24...	1500	20000	1100	60	10	.54	.70	1.2	.03
25...	1300	35300	1300	60	19	.41	.60	1.0	.07
26...	1205	33600	870	50	11	.38	.80	1.2	.06
27...	0945	31000	720	40	18	.46	.70	1.2	.05
28...	0915	27000	470	40	14	.50	.50	1.0	.01
MAY									
04...	1200	11500	290	30	5	.59	.59	1.2	.02
24...	1000	6600	310	40	6	.41	.53	.94	.03
JUN									
06...	1100	3500	310	60	8	.68	.64	1.3	.04
30...	0800	4500	360	50	--	.75	1.2	2.0	.05
JUL									
11...	0915	880	1000	40	8	.75	.79	1.5	.03
22...	1000	2450	190	100	10	.67	.49	1.2	.05
28...	1130	3140	220	20	7	.57	.64	1.2	.07
AUG									
02...	1315	2450	280	30	2	.59	.85	1.4	.04
10...	1130	2870	290	40	8	.40	.62	1.0	.07
17...	1330	3100	190	20	4	.43	.53	.96	.05
22...	0900	2790	310	20	9	.52	.53	1.1	.05
25...	0800	4310	250	30	0	.76	.66	1.4	.04
29...	1015	3280	210	20	2	.48	.65	1.1	.03
31...	1330	3760	410	20	13	.58	.58	1.2	.03
SEP									
02...	0715	3540	430	20	11	1.5	.64	2.1	.05
06...	1030	1270	280	40	11	.20	.64	.84	.04
20...	1315	5850	550	40	30	.34	.49	.83	.08
27...	1145	8300	680	60	11	.38	.74	1.1	.09

01329650 HUDSON RIVER AT SCHUYLERVILLE, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	VOL. NON- FILT- RABLE RESIDUE (MG/L)	OIL AND GREASE (MG/L)	TOTAL PCB (UG/L)	POLY- CHLO- RINATED NAPH- THA- LENES (JG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)
MAR									
14....	276	32	--	.6	.00	.00	.0	.00	.00
15....	81	13	--	.4	.00	.00	.0	.00	.00
30....	18	1	0	.0	.00	.00	.0	.00	.00
31....	14	1	0	.0	.00	.00	.0	.00	.00
APR									
06....	15	1	0	.0	.00	.00	.0	.00	.00
14....	11	3	0	.2	.00	.00	.0	.00	.00
24....	47	21	0	.2	.00	.00	.0	.00	.00
25....	46	9	1	1.6	.00	.00	.0	.00	.00
26....	24	7	0	.8	.00	.00	.0	.00	.00
27....	28	8	1	.8	.00	.00	.0	.00	.00
28....	19	6	1	.4	.00	.00	.0	.00	.00
MAY									
04....	7	0	0	.1	.00	.00	.0	.00	.00
24....	8	1	3	.1	.00	.00	.0	.00	.00
JUN									
06....	1	0	2	.0	.00	.00	.0	.00	.00
30....	6	6	0	1.3	.00	.00	.0	.00	.00
JUL									
11....	0	0	2	2.2	.00	.00	.0	.00	.00
22....	3	3	3	.7	.00	.00	.0	.00	.00
28....	10	0	3	.7	.00	.00	.0	.00	.00
AUG									
02....	12	5	0	.5	.00	.00	.0	.00	.00
10....	1	0	2	1.2	.00	.00	.0	.00	.00
17....	2	1	1	.8	.00	.00	.0	.00	.00
22....	5	0	17	.6	.00	.00	.0	.00	.00
25....	4	1	11	.6	.00	.00	.0	.00	.00
29....	4	0	0	--	--	--	--	--	--
31....	4	0	8	.0	.00	.00	.0	.00	.00
SEP									
02....	7	0	18	.0	.00	.00	.0	.00	.00
06....	3	0	4	.7	.00	.00	.0	.00	.00
20....	22	16	0	.2	.00	.00	.0	.00	.00
27....	24	20	0	.1	.00	.00	.0	.00	.00

DATE	TOTAL DDT (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MIREX (UG/L)	TOTAL TOX- APHENE (UG/L)
MAR								
14....	.00	.00	.00	.00	.00	.00	--	0
15....	.00	.00	.00	.00	.00	.00	--	0
30....	.00	.00	.00	.00	.00	.00	.00	0
31....	.00	.00	.00	.00	.00	.00	.00	0
APR								
06....	.00	.00	.00	.00	.00	.00	.00	0
14....	.00	.00	.00	.00	.00	.00	.00	0
24....	.00	.00	.00	.00	.00	.00	.00	0
25....	.00	.00	.00	.00	.00	.00	.00	0
26....	.00	.00	.00	.00	.00	.00	.00	0
27....	.00	.00	.00	.00	.00	.00	.00	0
28....	.00	.00	.00	.00	.00	.00	.00	0
MAY								
04....	.00	.00	.00	.00	.00	.00	.00	0
24....	.00	.00	.00	.00	.00	.00	.00	0
JUN								
06....	.00	.00	.00	.00	.00	.00	.00	0
30....	.00	.00	.00	.00	.00	.00	.00	0
JUL								
11....	.00	.00	.00	.00	.00	.00	.00	0
22....	.00	.00	.00	.00	.00	.01	.00	0
28....	.00	.00	.00	.00	.00	.00	.00	0
AUG								
02....	.00	.00	.00	.00	.00	.00	.00	0
10....	.00	.00	.00	.00	.00	.00	.00	0
17....	.00	.00	.00	.00	.00	.00	.00	0
22....	.00	.00	.00	.00	.00	.00	.00	0
25....	.00	.00	.00	.00	.00	.00	.00	0
29....	--	--	--	--	--	--	--	--
31....	.00	.00	.00	.00	.00	.00	.00	0
SEP								
02....	.00	.00	.00	.00	.00	.00	.00	0
06....	.00	.00	.00	.00	.00	.00	.00	0
20....	.00	.00	.00	.00	.00	.00	.00	0
27....	.00	.00	.00	.00	.00	.00	.00	0

01329650 HUDSON RIVER AT SCHUYLERVILLE, NY--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER # 60	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER # 60
MAR						JUN					
31...	0900	19100	28	1440	54	24...	1630	3620	10	98	93
31...	0930	19400	39	2040	66	29...	1530	4780	4	52	73
31...	0945	19600	34	1800	75	30...	1730	4430	7	84	100
31...	1025	19900	32	1720	72	JUL					
APR						01...	2100	3330	6	54	100
25...	1200	34900	76	7160	56	02...	1905	3700	5	50	93
25...	1250	35100	50	4740	72	03...	1735	1590	5	21	64
25...	1300	35300	55	5240	75	04...	1745	734	8	16	67
25...	1345	35100	54	5120	67	05...	2230	1270	9	31	85
25...	1720	35200	65	6180	71	06...	1600	3140	8	68	76
26...	1045	33800	50	4560	64	07...	1545	3180	10	86	68
26...	1200	33600	44	3990	72	08...	2145	3220	17	148	52
26...	1205	33600	44	3990	68	09...	1930	2790	11	83	80
26...	1250	33300	41	3690	70	10...	1810	1270	12	41	80
27...	0945	31000	25	2090	75	11...	2010	1100	10	30	78
JUN						12...	1710	2570	10	69	91
25...	2045	3850	8	83	84	14...	1630	3050	9	74	86
26...	1900	3500	19	180	88						
27...	1845	4870	32	421	95						

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1							---	---	---
2							---	---	---
3							---	---	---
4							---	---	---
5							---	---	---
6							---	---	---
7							---	---	---
8							---	---	---
9							---	---	---
10							8280	---	---
11							9730	---	---
12							9870	---	---
13							17800	---	---
14							38300	---	---
15							42100	---	---
16							31700	---	---
17							28800	---	---
18							24800	---	---
19							20800	---	---
20							18700	10	505
21							14900	8	322
22							13400	8	289
23							12500	10	337
24							12800	10	346
25							12700	13	446
26							9950	10	269
27							9710	10	262
28							8040	10	217
29							9080	18	441
30							11400	22	677
31							19600	40	2120
TOTAL							384960	---	6231

01329650 HUDSON RIVER AT SCHUYLERVILLE, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	26200	28	1980	20300	8	438	4880	10	132
2	25400	18	1230	18900	19	964	4850	5	65
3	25000	15	1010	13300	14	503	4970	5	67
4	19200	14	726	11400	5	154	4890	6	79
5	20000	26	1400	10500	5	170	4890	6	79
6	22800	26	1600	9990	9	243	3450	5	47
7	20800	12	674	9870	11	293	4610	6	75
8	19300	21	1090	8780	13	305	4850	6	79
9	19500	18	948	8210	10	222	4770	7	90
10	18100	4	195	11800	9	287	4720	8	102
11	13900	5	188	11300	9	275	4820	10	130
12	13200	4	143	11300	9	275	3610	7	68
13	12900	10	348	11300	9	275	3170	7	60
14	15300	6	248	10400	5	140	3860	7	73
15	18100	7	342	10100	6	164	4230	5	57
16	18500	6	300	7760	7	147	4370	2	24
17	12300	5	166	8470	7	160	4500	3	36
18	14400	6	233	7740	6	125	3650	1	9.9
19	13500	2	73	9060	9	220	2470	1	6.7
20	12600	1	34	9030	7	171	2290	1	6.2
21	12300	2	66	9870	6	160	3740	10	101
22	11700	1	32	7290	6	118	3830	5	52
23	12300	3	100	5380	10	145	3230	6	52
24	19300	30	1560	6560	6	108	3320	8	72
25	33600	56	5080	6400	5	86	3480	8	75
26	33700	48	4370	6600	4	71	3780	14	143
27	30200	25	2040	6540	3	54	4480	28	339
28	26600	14	1010	6200	3	50	5350	18	260
29	24100	13	846	5130	3	42	5500	5	74
30	22300	12	723	2940	3	24	4680	6	76
31	---	---	---	4140	4	45	---	---	---
TOTAL	587100	---	28755	286660	---	6437	125240	---	2529.8
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	4470	7	84	1820	8	39	2900	12	94
2	4040	5	55	2900	5	38	3100	7	59
3	1550	5	21	3260	7	62	3500	5	47
4	1020	7	19	3100	5	42	2340	5	32
5	1620	8	35	2900	5	38	1060	4	11
6	3320	8	72	3090	5	42	2000	7	38
7	3580	10	97	1590	4	17	3420	10	92
8	3630	14	137	1600	7	30	3320	6	54
9	3840	12	124	2360	7	45	3590	5	48
10	2940	11	87	2600	5	35	3240	6	52
11	2000	11	59	3000	5	40	2280	8	49
12	2870	10	77	3200	6	52	1320	5	18
13	3010	10	81	3300	8	71	2600	4	28
14	4180	9	102	1700	10	46	3880	16	168
15	3500	6	57	2080	7	39	4690	14	177
16	3300	3	27	2900	8	63	4690	6	76
17	2340	4	25	2800	6	45	4960	6	80
18	1820	6	29	3600	6	58	5360	6	87
19	3710	5	50	3600	7	68	4680	5	63
20	3490	3	28	3300	6	53	5890	11	175
21	2940	5	40	2500	6	42	6920	14	262
22	3270	3	26	2300	5	31	7590	10	205
23	2720	5	37	3580	5	48	7800	9	190
24	1800	4	19	3760	12	122	7040	8	152
25	2380	4	26	4300	13	151	6240	5	84
26	2460	3	20	4300	17	197	6190	13	217
27	2910	4	31	4000	9	97	8920	18	434
28	2720	7	51	3900	5	53	11400	20	616
29	2710	4	29	2900	5	39	11600	13	407
30	3110	5	42	3200	4	35	10100	12	327
31	3090	15	125	2900	4	31	---	---	---
TOTAL	90340	---	1712	92240	---	1769	152620	---	4342

01330500 KAYADEROSSERAS CREEK NEAR WEST MILTON, NY

LOCATION.--Lat 43°02'18", long 73°54'35", Saratoga County, Hydrologic Unit 02020003, on left bank 600 ft (183 m) downstream from Glowegee Creek, 1.0 mi (1.6 km) east of West Milton, and 3.5 mi (5.6 km) northwest of Ballston Spa. Water-quality sampling site at discharge station.

DRAINAGE AREA.--90.1 mi² (233.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1927 to current year.

REVISED RECORDS.--WSP 741: Drainage area. WSP 1202: 1935-40.

GAGE.--Water-stage recorder. Datum of gage is 376.06 ft (114.623 m) above mean sea level.

REMARKS.--Records poor. Slight occasional diurnal fluctuation at low flow caused by mills above station.

AVERAGE DISCHARGE.--50 years, 136 ft³/s (3.852 m³/s), 20.52 in/yr (521 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,710 ft³/s (133 m³/s) Mar. 18, 1936, gage height, 10.78 ft (3.286 m), from floodmarks; maximum gage height, 11.20 ft (3.414 m) Mar. 14, 1977, from floodmarks; minimum discharge, 6.1 ft³/s (0.17 m³/s) Aug. 23, 1927, gage height, 0.86 ft (0.262 m); minimum daily, 12 ft³/s (0.34 m³/s) Aug. 5-9, Sept. 8, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s (34 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2100	1,270 36.0	5.33 1.625	Apr. 24	1700	1,230 34.8	5.24 1.597
Mar. 14	--	*4,250 120	*11.20 3.414				

Minimum discharge, 20 ft³/s (0.57 m³/s) Sept. 12, gage height, 1.20 ft (0.366 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	368	90	60	50	231	650	184	57	64	37	31
2	102	240	90	58	50	145	431	173	70	53	50	29
3	91	209	100	58	52	120	472	174	60	48	42	28
4	82	428	150	58	54	138	406	154	53	44	39	26
5	75	336	140	58	56	413	539	147	51	41	40	27
6	72	321	110	56	58	368	624	146	49	36	38	33
7	71	277	160	54	62	261	399	134	54	36	38	33
8	161	227	250	56	72	216	316	124	56	68	36	26
9	773	190	190	56	80	225	266	357	56	70	35	25
10	839	178	150	54	88	344	245	382	101	47	34	24
11	386	175	120	56	96	470	233	261	72	39	34	23
12	231	170	110	56	100	554	221	210	63	42	34	22
13	183	160	110	56	100	1820	218	176	58	55	34	26
14	282	150	100	56	100	2500	206	148	55	46	34	133
15	235	145	90	54	96	1400	184	133	54	46	35	82
16	203	135	80	54	90	900	167	121	49	39	32	58
17	169	130	70	52	86	638	157	112	46	38	31	159
18	144	125	68	52	84	414	146	105	55	38	30	129
19	130	125	66	52	84	349	138	191	67	36	30	166
20	165	121	62	52	84	314	133	141	58	34	30	304
21	696	113	70	50	84	280	129	117	64	35	30	408
22	442	107	68	50	84	278	123	102	55	39	30	377
23	295	106	62	50	100	319	290	88	49	35	34	377
24	252	106	62	50	145	289	1050	84	46	34	30	377
25	397	101	60	50	218	240	1010	81	68	85	32	377
26	492	101	60	50	434	223	535	73	237	104	32	436
27	328	110	60	49	343	247	357	67	158	56	31	395
28	235	111	58	50	336	322	280	63	94	49	29	375
29	204	120	58	50	---	707	235	63	86	43	28	374
30	184	98	60	49	---	847	205	64	90	39	28	374
31	354	---	62	49	---	933	---	59	---	39	29	---
TOTAL	8391	5283	2986	1655	3286	16505	10365	4435	2131	1478	1046	5254
MEAN	271	176	96.3	53.4	117	532	346	143	71.0	47.7	33.7	175
MAX	839	428	250	60	434	2500	1050	382	237	104	50	436
MIN	71	98	58	49	50	120	123	59	46	34	28	22
CFSM	3.01	1.95	1.07	.59	1.30	5.90	3.84	1.59	.79	.53	.37	1.94
IN.	3.46	2.18	1.23	.68	1.36	6.81	4.28	1.83	.88	.61	.43	2.17

CAL YR 1976 TOTAL 81926 MEAN 224 MAX 1920 MIN 42 CFSM 2.49 IN 33.82
WTR YR 1977 TOTAL 62815 MEAN 172 MAX 2500 MIN 22 CFSM 1.91 IN 25.93

Note.--No gage-height record Dec. 12 to Jan. 10, Mar. 14-16.

HUDSON RIVER BASIN

55

01330500 KAYADEROSSERAS CREEK NEAR WEST MILTON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1952 to June 1970, June 1971 to current year.

INSTRUMENTATION.--Temperature recorder since October 1952.

REMARKS.--Unpublished records of daily temperatures (June 1950 to September 1952) are available in files of the Geological Survey. No record Jan. 2-10, due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1953-69, 1971-77), 28.5°C July 10, 1955; minimum (water years 1953-70, 1972-77), freezing point on many days during winter periods, except 1953, 1965, and 1975.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 26.0°C July 20, 21, 22; minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11.5	10.5	5.5	4.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0
2	11.5	10.5	4.0	2.5	0.0	0.0	---	---	1.0	0.5	0.0	0.0
3	11.5	10.0	4.0	3.5	0.0	0.0	---	---	0.5	0.5	0.0	0.0
4	11.5	10.0	5.5	4.0	0.0	0.0	---	---	0.5	0.5	0.0	0.0
5	11.0	10.0	5.5	3.5	0.0	0.0	---	---	0.5	0.5	0.0	0.0
6	11.5	10.5	3.5	3.0	0.0	0.0	---	---	0.5	0.5	0.0	0.0
7	12.5	11.5	4.0	3.5	0.0	0.0	---	---	0.5	0.5	0.0	0.0
8	12.5	11.5	4.0	2.5	0.5	0.0	---	---	0.5	0.5	1.0	0.0
9	12.0	10.0	2.5	1.0	0.5	0.5	---	---	0.5	0.5	3.0	0.5
10	10.0	9.0	2.0	1.5	1.0	0.5	---	---	0.5	0.0	3.0	1.5
11	9.0	7.5	2.0	2.0	1.0	1.0	2.0	2.0	0.0	0.0	2.5	1.0
12	7.5	6.5	2.0	0.5	1.0	1.0	2.0	2.0	0.0	0.0	2.5	1.0
13	7.5	6.5	1.5	0.0	1.5	1.0	2.0	2.0	0.0	0.0	2.0	0.5
14	8.0	7.5	2.0	1.5	1.5	1.5	2.0	2.0	0.0	0.0	0.5	0.5
15	8.0	7.0	3.0	2.0	1.5	1.5	2.0	2.0	0.0	0.0	2.0	0.5
16	8.0	7.5	3.0	2.5	1.5	1.0	2.0	2.0	0.0	0.0	2.0	1.0
17	7.5	6.5	2.5	1.5	1.0	1.0	2.0	1.5	0.0	0.0	2.0	1.0
18	6.5	5.0	2.5	1.5	1.0	1.0	1.5	1.5	0.0	0.0	1.0	0.5
19	5.0	4.0	3.0	2.0	1.0	1.0	1.5	1.5	0.0	0.0	1.0	0.5
20	6.0	4.5	3.0	2.0	1.0	1.0	1.5	1.5	0.0	0.0	1.0	0.5
21	7.0	6.0	2.0	0.5	1.0	1.0	1.5	1.5	0.0	0.0	3.5	1.0
22	7.0	5.5	0.5	0.5	1.0	1.0	1.5	1.5	0.0	0.0	2.5	0.5
23	5.5	5.0	1.0	0.5	1.5	1.0	1.5	1.5	0.0	0.0	2.0	0.5
24	5.0	4.0	1.0	1.0	1.0	1.0	1.5	1.5	0.0	0.0	2.5	1.0
25	5.0	4.0	1.0	0.5	1.0	1.0	1.5	1.0	0.0	0.0	2.5	0.5
26	5.0	4.0	2.0	0.5	1.0	1.0	1.0	1.0	0.0	0.0	4.0	1.0
27	4.0	3.0	3.5	2.0	1.0	1.0	1.0	1.0	0.0	0.0	4.5	2.0
28	3.0	2.0	3.5	3.5	1.0	1.0	1.0	1.0	0.0	0.0	4.5	3.0
29	3.5	2.5	3.5	1.0	1.0	1.0	1.0	1.0	---	---	4.0	2.5
30	4.5	3.5	1.0	0.0	1.0	1.0	1.0	1.0	---	---	6.5	3.0
31	5.5	4.5	---	---	1.0	1.0	1.0	1.0	---	---	6.5	5.0
MONTH	12.5	2.0	5.5	0.0	1.5	0.0	2.0	1.0	1.0	0.0	6.5	0.0

HUDSON RIVER BASIN

01330500 KAYADEROSSERAS CREEK NEAR WEST MILTON, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.0	3.5	10.0	5.5	14.5	11.5	21.0	19.5	21.5	20.5	21.5	21.0
2	5.0	3.5	9.0	7.0	14.5	11.0	21.5	20.0	22.5	20.5	21.5	21.0
3	6.0	3.0	10.0	6.5	14.0	12.0	21.0	19.0	22.0	21.0	21.5	21.0
4	6.0	4.0	9.0	5.0	13.5	10.0	21.0	19.5	22.0	20.5	21.5	21.0
5	4.0	3.5	8.5	7.5	14.0	12.0	21.5	20.0	22.0	21.0	21.5	20.5
6	4.5	2.5	12.0	7.0	13.0	11.0	21.5	20.0	22.0	21.5	21.0	20.0
7	4.5	3.5	12.0	8.5	11.5	11.0	20.0	17.5	22.0	21.0	20.5	19.0
8	5.0	3.5	9.5	6.5	11.0	9.5	20.0	19.5	22.5	21.0	19.5	18.5
9	3.5	2.0	7.5	2.0	10.0	8.5	20.0	18.5	23.0	21.5	19.5	18.5
10	6.0	2.5	3.5	1.5	10.5	9.0	21.0	19.0	22.5	21.0	19.5	19.0
11	7.5	4.0	7.0	3.0	12.5	10.5	22.0	20.0	22.5	21.0	19.5	18.5
12	10.0	5.5	7.5	4.5	13.0	12.0	21.0	20.0	22.5	22.0	18.5	16.0
13	12.0	8.5	9.5	6.0	15.0	13.0	22.0	20.0	22.0	20.0	16.5	16.0
14	12.0	10.0	8.5	5.0	15.5	13.5	23.0	21.0	21.5	21.0	17.0	16.0
15	10.5	7.5	9.0	5.5	16.5	14.5	24.0	21.5	21.5	20.0	17.0	16.0
16	9.5	6.5	10.0	5.5	16.5	14.0	24.0	23.0	21.0	19.5	17.5	16.0
17	10.5	6.0	12.0	7.0	16.5	15.0	24.5	23.5	21.0	20.0	17.0	16.0
18	11.0	6.0	13.0	10.0	15.5	14.5	25.0	24.0	20.5	19.0	17.5	17.0
19	12.0	7.5	13.0	11.0	18.0	16.0	25.5	24.0	20.0	18.0	17.5	17.0
20	11.0	8.5	12.0	10.5	19.0	16.5	26.0	24.5	19.5	18.0	17.5	15.5
21	13.0	9.0	15.0	10.0	17.5	14.5	26.0	25.0	19.0	16.5	15.5	14.5
22	13.0	10.5	16.0	12.0	17.0	15.0	26.0	24.0	19.5	18.5	14.5	14.0
23	12.5	8.5	15.5	12.0	17.0	14.5	24.0	21.0	19.5	17.5	14.0	14.0
24	8.5	5.5	16.0	13.5	17.5	15.0	23.0	21.5	19.0	18.0	14.0	14.0
25	5.5	5.0	17.0	14.0	17.5	17.0	23.0	21.0	18.5	18.0	14.0	13.0
26	6.0	5.0	16.0	13.5	17.0	16.0	21.0	19.5	18.0	16.5	13.0	13.0
27	7.5	5.0	14.0	11.5	19.0	16.5	21.0	19.0	18.5	17.5	13.5	13.0
28	9.0	6.5	15.5	12.0	20.0	18.0	20.5	17.5	20.5	18.5	13.0	12.5
29	8.0	5.0	14.0	10.5	20.0	17.0	20.5	19.0	21.0	20.0	13.5	12.5
30	8.5	4.0	13.5	10.5	20.5	14.5	21.0	20.0	21.5	21.0	13.0	12.5
31	---	---	15.0	11.0	---	---	21.0	19.5	21.5	21.0	---	---
MONTH	13.0	2.0	17.0	1.5	20.5	8.5	26.0	17.5	23.0	16.5	21.5	12.5

HUDSON RIVER BASIN

57

01331095 HUDSON RIVER AT STILLWATER, NY

LOCATION.--Lat 42°56'16", long 73°39'04" at Saratoga-Rensselaer County line, Hydrologic Unit 02020003, at bridge on State Highway 67 in Stillwater, 0.4 mi (0.6 km) upstream from Champlain (Barge) Canal lock 4, and 0.9 mi (1.4 km) upstream from Hoosic River.

DRAINAGE AREA.--3,773 mi² (9,772 km²).

PERIOD OF RECORD.--Water years 1969 to 1975, March to September 1977.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: March to September 1977.

REMARKS.--Water discharge estimated from staff gage located at upstream approach to lock 4 and from wire-weight gage located at bridge. Water-discharge records are poor. Streamflow affected by regulation for power generation and diversion for canal operations.

COOPERATION.--Staff-gage records furnished by the New York State Department of Transportation.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 66 mg/L Apr. 25; minimum daily mean, 2 mg/L May 10, Aug. 21, 22, Sept. 6.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 5,720 tons (5,190 Mg) Apr. 25; minimum daily, 11 tons (10 Mg) Sept. 6.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL LEAD (PB) (JG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
MAR									
14...	1230	38000	19000	550	40	.55	2.3	2.8	.47
15...	1445	42600	4700	190	15	.54	.80	1.3	.11
30...	1230	13200	2400	50	16	.64	.90	1.5	.03
31...	0915	17000	780	40	12	.56	.60	1.2	.04
APR									
01...	1400	25000	1100	50	9	.50	.50	1.0	.06
06...	1445	22200	1400	60	140	.51	.60	1.1	.03
14...	1345	15000	330	40	3	.52	.80	1.3	.02
24...	1330	17000	1800	70	10	.56	.60	1.2	.03
25...	1000	31100	1400	70	12	.46	.60	1.1	.03
26...	1025	34900	1000	60	14	.39	.90	1.3	.08
27...	0930	29500	630	40	12	.47	.70	1.2	.03
28...	1000	25900	490	30	14	.48	.40	.88	.05
MAY									
04...	0800	10200	320	40	4	.53	.42	.95	.02
24...	1100	6330	280	30	6	.41	.33	.74	.02
JUN									
06...	0830	2480	280	50	6	.67	.88	1.6	.04
20...	1230	1640	550	40	2	.75	.90	1.7	.05
JUL									
11...	1130	1600	1000	30	6	.74	.72	1.5	.07
22...	1115	2520	240	20	7	.55	.51	1.1	.06
28...	1030	3330	250	20	3	.30	.42	.72	.06
AUG									
02...	1500	2650	320	20	2	.66	.53	1.2	.04
12...	1130	3110	350	30	10	.50	.48	.98	.07
15...	0900	1100	380	20	3	.33	.53	.86	.05
22...	1330	3240	420	30	6	.38	.49	.87	.03
24...	1000	4150	390	30	4	.47	.53	1.0	.04
30...	0730	3850	260	30	0	.54	.50	1.0	.09
SEP									
01...	0800	3420	430	40	10	.46	.48	.94	.04
06...	1100	1920	280	30	14	.54	.68	1.2	.03
20...	1100	6070	600	40	48	.45	.62	1.1	.07
27...	1330	8150	720	50	9	.37	.66	1.0	.06

HUDSON RIVER BASIN

01331095 HUDSON RIVER AT STILLWATER, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NON- FILTRABLE RESIDUE (MG/L)	VOL. NON- FILTRABLE RESIDUE (MG/L)	OIL AND GREASE (MG/L)	TOTAL PCB (UG/L)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLO- DANE (UG/L)	TOTAL DDO (UG/L)	TOTAL DDE (UG/L)
MAR									
14...	512	62	--	.0	.00	.00	.0	.00	.00
15...	124	19	--	.3	.00	.00	.0	.00	.00
30...	17	0	0	.1	.00	.00	.0	.00	.00
31...	28	6	0	.0	.00	.00	.0	.00	.00
APR									
01...	37	0	0	.1	.00	.00	.0	.00	.00
06...	40	0	--	.1	.00	.00	.0	.00	.00
14...	12	2	0	.2	.00	.00	.0	.00	.00
24...	72	9	0	.4	.00	.00	.0	.00	.00
25...	38	22	0	1.2	.00	.00	.0	.00	.00
26...	31	6	1	2.4	.00	.00	.0	.00	.00
27...	30	4	1	.7	.00	.00	.0	.00	.00
28...	15	2	1	.4	.00	.00	.0	.00	.00
MAY									
04...	6	0	1	.3	.00	.00	.0	.00	.00
24...	6	0	3	.2	.00	.00	.0	.00	.00
JUN									
06...	34	4	1	.2	.00	.00	.0	.00	.00
20...	4	0	1	.9	.00	.00	.0	.00	.00
JUL									
11...	0	0	--	1.2	.00	.00	.0	.00	.00
22...	3	3	0	.8	.00	.00	.0	.00	.00
28...	9	7	1	.9	.00	.00	.0	.00	.00
AUG									
02...	8	2	0	.7	.00	.00	.0	.00	.00
12...	4	3	1	.7	.00	.00	.0	.00	.00
15...	6	2	0	.7	.00	.00	.0	.00	.00
22...	2	1	0	.8	.00	.00	.0	.00	.00
24...	18	0	0	.8	.00	.00	.0	.00	.00
30...	3	2	1	1.1	.00	.00	.0	.00	.00
SEP									
01...	5	0	20	.9	.00	.00	.0	.00	.00
06...	2	0	0	1.0	.00	.00	.0	.00	.00
20...	0	0	1	.2	.00	.00	.0	.00	.00
27...	11	11	0	.0	.00	.00	.0	.00	.00

DATE	TOTAL DDT (UG/L)	TOTAL DIE- LDRI- N (UG/L)	TOTAL ENDRI- N (UG/L)	TOTAL HEPTA- CHLO- R EPOXIDE (UG/L)	TOTAL HEPTA- CHLO- R (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MIREX (UG/L)	TOTAL TOX- APHENE (UG/L)
MAR								
14...	.00	.00	.00	.00	.00	.00	--	0
15...	.00	.00	.00	.00	.00	.00	--	0
30...	.00	.00	.00	.00	.00	.00	.00	0
31...	.00	.00	.00	.00	.00	.00	.00	0
APR								
01...	.00	.00	.00	.00	.00	.00	.00	0
06...	.00	.00	.00	.00	.00	.00	.00	0
14...	.00	.00	.00	.00	.00	.00	.00	0
24...	.00	.00	.00	.00	.00	.00	.00	0
25...	.00	.00	.00	.00	.00	.00	.00	0
26...	.00	.00	.00	.00	.00	.00	.00	0
27...	.00	.00	.00	.00	.00	.00	.00	0
28...	.00	.00	.00	.00	.00	.00	.00	0
MAY								
04...	.00	.00	.00	.00	.00	.00	.00	0
24...	.00	.00	.00	.00	.00	.00	.00	0
JUN								
06...	.00	.00	.00	.00	.00	.00	.00	0
20...	.00	.00	.00	.00	.00	.00	.00	0
JUL								
11...	.00	.00	.00	.00	.00	.00	.00	0
22...	.00	.00	.00	.00	.00	.01	.00	0
28...	.00	.00	.00	.00	.00	.00	.00	0
AUG								
02...	.00	.00	.00	.00	.00	.00	.00	0
12...	.00	.00	.00	.00	.00	.00	.00	0
15...	.00	.00	.00	.00	.00	.01	.00	0
22...	.00	.00	.00	.00	.00	.00	.00	0
24...	.00	.00	.00	.00	.00	.00	.00	0
30...	.00	.00	.00	.00	.00	.00	.00	0
SEP								
01...	.00	.00	.00	.00	.00	.00	.00	0
06...	.00	.00	.00	.00	.00	.00	.00	0
20...	.00	.00	.00	.00	.00	.00	.00	0
27...	.00	.00	.00	.00	.00	.00	.00	0

HUDSON RIVER BASIN

59

01331095 HUDSON RIVER AT STILLWATER, NY--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR						JUN					
24...	1830	24800	54	3620	94	05...	1930	2810	10	76	81
27...	0930	29500	30	2390	71	06...	1600	4000	8	86	85
MAY						07...	1600	4000	12	130	74
29...	1030	5600	11	166	70	08...	1600	4000	13	140	82
30...	1600	5040	13	177	87	09...	1700	4250	10	115	88
31...	1630	3700	9	90	67	10...	1600	4500	7	85	82
JUN						11...	1600	10300	9	250	74
01...	1930	5600	10	151	80	13...	1600	2690	8	58	87
02...	1600	4760	8	103	97	14...	1500	3600	15	146	81
03...	1800	4000	4	43	74						
04...	1100	4500	8	97	74						

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1							6040	---	---
2							4820	---	---
3							4090	---	---
4							4600	---	---
5							7840	---	---
6							7840	---	---
7							5130	---	---
8							6520	---	---
9							6490	---	---
10							8590	---	---
11							10500	---	---
12							10200	---	---
13							14800	---	---
14							36000	---	---
15							40400	---	---
16							32300	62	5410
17							28600	40	3090
18							23300	23	1450
19							21600	12	700
20							20000	10	540
21							14300	11	425
22							12700	10	343
23							12500	16	540
24							11200	13	393
25							10500	11	312
26							9140	6	148
27							8350	9	203
28							8430	16	364
29							9660	18	469
30							13100	21	743
31							18600	30	1510
TOTAL							428140	---	16640

HUDSON RIVER BASIN

01331095 HUDSON RIVER AT STILLWATER, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	25000	35	2360	19200	8	415	5270	10	142
2	25700	20	1390	17500	13	614	4550	8	98
3	24400	13	856	13200	6	214	4990	4	54
4	17800	15	721	11000	7	208	4900	8	106
5	19400	20	1050	10500	4	113	4900	10	132
6	22000	42	2490	9320	6	151	2750	8	59
7	19900	22	1180	8400	12	272	3880	12	126
8	17600	9	428	7870	10	212	4900	13	172
9	16300	8	352	8180	10	221	4900	10	132
10	14900	6	241	11500	2	62	4570	7	86
11	11900	5	161	10800	11	321	4670	9	113
12	11300	6	183	10400	12	337	4420	8	95
13	11800	7	223	11000	7	208	2930	8	63
14	14600	9	355	10800	6	175	3880	15	157
15	15300	11	454	9110	4	98	4400	10	119
16	17100	10	462	6760	5	91	4500	13	158
17	16400	5	221	8280	6	134	4500	19	231
18	13800	5	186	7470	4	81	3770	18	183
19	12700	5	171	8100	5	109	3800	15	154
20	11900	5	161	9300	5	126	2200	14	83
21	10800	5	146	8170	5	110	3640	23	226
22	10500	4	113	7300	5	99	3960	28	299
23	11000	5	148	6120	5	83	3690	15	149
24	18400	44	2190	6640	6	108	2720	10	73
25	32100	66	5720	6710	4	72	3210	11	95
26	32300	52	4530	5870	4	63	4000	12	130
27	29100	30	2360	6400	5	86	4500	14	170
28	25900	15	1050	5650	4	61	5400	10	146
29	23200	14	877	5860	11	174	5600	12	181
30	21300	10	575	3040	13	107	4900	10	132
31	---	---	---	3580	9	89	---	---	---
TOTAL	554400	---	31354	274130	---	5214	126300	---	4064
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	4500	9	109	1940	6	31	2820	5	38
2	4100	10	111	2620	4	28	2910	7	55
3	2360	10	64	3210	4	35	3370	6	55
4	1220	10	33	3140	4	34	2240	8	48
5	2060	10	56	2980	4	31	1330	9	32
6	3180	10	86	2550	3	21	1950	2	11
7	3350	10	90	2230	6	36	3400	8	73
8	3590	10	97	1300	8	28	2700	8	58
9	4270	10	115	2330	8	50	2960	7	56
10	3110	10	84	2530	8	55	3070	6	50
11	2140	9	52	2900	8	63	2600	5	35
12	2920	9	71	2750	6	45	1730	5	23
13	3130	9	76	3240	5	44	2250	12	73
14	3350	9	81	2160	5	29	3340	17	153
15	3290	10	89	1970	4	21	3330	17	153
16	3760	10	102	2820	6	46	3770	9	92
17	2810	10	76	2600	5	35	4090	10	110
18	2120	10	57	3080	5	42	4410	6	71
19	3410	10	92	3640	5	49	4000	6	65
20	2960	10	80	3360	4	36	5740	8	124
21	2700	10	73	2710	2	15	8050	8	174
22	3010	11	89	2430	2	13	7160	8	155
23	2810	11	83	2960	4	32	6710	6	109
24	2090	10	56	2960	7	56	6640	8	143
25	1610	8	35	3030	5	41	6400	7	121
26	2650	10	72	3970	5	54	5070	5	68
27	3460	10	93	4380	5	59	8000	10	216
28	3580	11	106	3820	5	52	10900	15	441
29	3650	10	99	2860	5	39	11600	15	470
30	3180	8	69	3160	8	68	9930	14	375
31	3190	6	52	2910	10	79	---	---	---
TOTAL	93560	---	2448	88440	---	1267	142470	---	3647

01332500 HOOSIC RIVER NEAR WILLIAMSTOWN, MA

LOCATION.--Lat 42°42'21", long 73°10'50", Berkshire County, Hydrologic Unit 02020003, on left bank 1.0 mi (1.6 km) upstream from Green River and 1.2 mi (1.9 km) east of Williamstown.

DRAINAGE AREA.--132 mi² (342 km²).

PERIOD OF RECORD.--Discharge: July 1940 to current year.

Water-quality records: Water years 1953-54, 1957-58, 1967-69.

GAGE.--Water-stage recorder. Altitude of gage is 595 ft (181 m), from topographic map.

REMARKS.--Records good above 200 ft³/s (5.66 m³/s) and fair below. Slight diurnal fluctuation at low flow prior to 1966 caused by mills upstream. Some regulation by Cheshire Reservoir 17 mi (27 km) upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--37 years, 274 ft³/s (7.760 m³/s), 28.19 in/yr (716 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s (368 m³/s) Dec. 31, 1948, gage height, 14.85 ft (4.526 m), from rating curve extended above 4,300 ft³/s (122 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 5.8 ft³/s (0.16 m³/s) Aug. 30, 31, Oct. 26, 1940; minimum daily, 25 ft³/s (0.71 m³/s) Sept. 2, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,400 ft³/s (68.0 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 13	2030	a*7680 217	*10.59 3.228	Mar. 30	2230	2830 80.1	6.04 1.841

a From rating curve extended above 2,200 ft³/s (62.3 m³/s) on basis of slope-area measurements at gage heights 11.80 ft (3.597 m) and 13.02 ft (3.968 m).

Minimum discharge not determined; minimum daily, 60 ft³/s (1.70 m³/s) July 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	277	135	116	97	181	1260	304	110	150	83	90
2	122	220	120	116	97	142	800	293	130	130	190	110
3	113	208	110	116	97	135	896	304	115	110	120	155
4	106	216	115	113	97	135	784	270	105	100	86	110
5	100	208	120	113	97	375	918	280	100	100	84	105
6	97	220	120	113	97	299	1220	270	105	145	97	208
7	94	212	581	113	97	204	695	260	115	100	82	140
8	91	200	480	113	94	184	550	260	140	150	82	110
9	389	181	285	109	94	220	452	580	130	208	110	100
10	347	177	240	109	94	426	421	600	190	155	120	98
11	208	177	232	109	94	576	413	615	160	110	460	94
12	173	169	200	109	94	825	595	742	140	130	180	86
13	166	169	185	109	94	3580	842	752	120	160	150	92
14	196	162	170	106	94	5540	784	499	110	215	140	215
15	181	159	162	106	94	2080	512	402	100	140	175	200
16	162	159	155	106	94	1530	421	353	94	110	130	150
17	155	155	152	106	94	1090	387	321	90	96	205	286
18	155	152	148	106	91	716	368	308	180	94	244	237
19	152	152	142	103	91	585	332	413	270	86	165	293
20	184	148	142	103	91	483	304	342	170	80	135	680
21	484	148	173	103	91	452	290	300	179	90	120	595
22	290	145	152	103	91	440	283	270	193	80	205	365
23	228	145	145	103	91	468	342	240	160	74	215	290
24	208	142	132	103	91	395	1090	210	130	70	155	350
25	260	142	125	103	162	365	907	190	135	125	165	533
26	325	138	122	103	181	350	550	170	265	180	130	516
27	256	138	119	100	148	353	448	150	186	100	110	595
28	220	138	119	100	248	413	395	135	150	82	100	394
29	208	148	119	100	---	1050	361	125	180	76	97	344
30	192	152	116	100	---	1970	328	115	219	69	98	301
31	269	---	116	100	---	2500	---	110	---	60	94	---
TOTAL	6263	5157	5432	3312	2995	28062	17948	10183	4471	3575	4527	7842
MEAN	202	172	175	107	107	905	598	328	149	115	146	261
MAX	484	277	581	116	248	5540	1260	752	270	215	460	680
MIN	91	138	110	100	91	135	283	110	90	60	82	86
CFSM	1.53	1.30	1.33	.81	.81	6.86	4.53	2.49	1.13	.87	1.11	1.98
IN.	1.77	1.45	1.53	.93	.84	7.91	5.06	2.87	1.26	1.01	1.28	2.21

CAL YR 1976 TOTAL 115208 MEAN 315 MAX 4740 MIN 69 CFSM 2.39 IN 32.47
WTR YR 1977 TOTAL 99767 MEAN 273 MAX 5540 MIN 60 CFSM 2.07 IN 28.12

Note.--No gage-height record most days May 22 to Sept. 16.

HUDSON RIVER BASIN

01333000 GREEN RIVER AT WILLIAMSTOWN, MA

LOCATION.--Lat 42°42'32", long 73°11'50", Berkshire County, Hydrologic Unit 02020003, on left bank 0.1 mi (0.2 km) upstream from bridge on State Highway 2 at Williamstown and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--42.6 mi² (110.3 km²).

PERIOD OF RECORD.--Discharge: September 1949 to current year.
Water-quality records: Water years 1967-69.

GAGE.--Water-stage recorder. Altitude of gage is 615 ft (187 m), from topographic map.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are poor. Slight diurnal fluctuation at times caused by mill upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--28 years, 83.1 ft³/s (2.353 m³/s), 26.49 in/yr (673 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,060 ft³/s (115 m³/s) Dec. 21, 1973, gage height, 5.68 ft (1.731 m) in gage well, from rating curve extended above 750 ft³/s (21.2 m³/s) on basis of slope-area measurement at gage height 4.94 ft (1.506 m); maximum gage height, 6.35 ft (1.935 m) Mar. 13, 1977, from floodmarks, gage height in well unknown; minimum discharge, 3.1 ft³/s (0.088 m³/s) Sept. 20, 22, 24, 25, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 31, 1948, reached a stage of about 7.5 ft (2.3 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 850 ft³/s (24.1 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 13	-	*a3580 101	*b6.35 1.935	Mar. 30	1915	948 26.8	3.63 1.106

a Slope-area measurement of peak flow.

b From floodmarks.

Minimum discharge not determined; minimum daily, 13 ft³/s (0.37 m³/s) Jan. 28 to Feb. 10, Feb. 19-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	109	22	22	13	55	448	102	34	21	19	22
2	34	91	19	21	13	39	319	100	41	20	23	40
3	32	88	14	20	13	36	310	92	33	18	17	52
4	30	95	24	19	13	36	249	83	31	17	16	31
5	29	88	29	18	13	73	354	88	28	60	17	28
6	27	93	31	18	13	86	393	79	28	41	18	54
7	27	88	200	18	13	74	249	71	38	27	16	33
8	26	79	140	18	13	65	212	66	38	48	17	29
9	138	73	84	18	13	92	175	178	36	41	24	27
10	103	70	76	18	13	150	157	219	44	30	21	26
11	67	67	81	18	14	200	143	182	39	26	119	23
12	56	61	66	18	14	400	149	226	34	33	44	22
13	51	59	49	18	14	1700	163	257	31	34	36	25
14	57	56	43	17	15	1800	152	188	28	33	36	60
15	51	55	56	17	15	1100	126	152	27	25	44	40
16	45	52	48	17	14	740	110	126	24	23	30	38
17	42	50	44	16	14	502	100	110	23	21	53	69
18	41	49	40	16	14	324	92	104	38	21	43	57
19	39	46	38	16	13	249	86	131	33	20	34	98
20	57	44	40	15	13	198	81	100	27	20	30	262
21	143	42	41	15	13	175	76	90	35	24	27	213
22	97	41	35	15	13	175	74	79	28	23	48	137
23	79	40	37	15	13	201	117	71	25	18	37	110
24	73	39	35	15	18	149	344	66	23	16	33	120
25	99	38	32	14	35	128	274	60	25	37	34	148
26	133	37	30	14	50	117	205	54	34	31	29	160
27	105	38	29	14	40	126	172	50	26	21	26	146
28	90	38	28	13	86	191	152	45	23	18	25	118
29	83	40	26	13	---	668	128	41	28	17	24	104
30	76	35	25	13	---	791	112	38	25	16	27	88
31	119	---	23	13	---	800	---	36	---	16	22	---
TOTAL	2086	1801	1485	512	538	11440	5722	3284	927	816	989	2380
MEAN	67.3	60.0	47.9	16.5	19.2	369	191	106	30.9	26.3	31.9	79.3
MAX	143	109	200	22	86	1800	448	257	44	60	119	262
MIN	26	35	14	13	13	36	74	36	23	16	16	22
CFSM	1.58	1.41	1.12	.39	.45	8.66	4.48	2.49	.73	.62	.75	1.86
IN.	1.82	1.57	1.30	.45	.47	9.99	5.00	2.87	.81	.71	.86	2.08

CAL YR 1976 TOTAL 37777 MEAN 103 MAX 1210 MIN 13 CFSM 2.42 IN 32.99
WTR YR 1977 TOTAL 31980 MEAN 87.6 MAX 1800 MIN 13 CFSM 2.06 IN 27.93

Note.--No gage-height record Jan. 1 to Feb. 27, Mar. 9-16.

HUDSON RIVER BASIN

63

01333500 LITTLE HOOSIC RIVER AT PETERSBURG, NY

LOCATION.--Lat 42°45'50", long 73°20'16", Rensselaer County, Hydrologic Unit 02020003, on left bank 100 ft (30 m) downstream from highway bridge on dirt road, 1.0 mi (1.6 km) downstream from Petersburg, and 4.9 mi (7.9 km) upstream from mouth.

DRAINAGE AREA.--56.1 mi² (145 mi²).

PERIOD OF RECORD.--July 1951 to current year.

REVISED RECORDS.--WSP 1702: 1959.

GAGE.--Water-stage recorder. Datum of gage is 587.40 ft (179.039 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--26 years, 95.4 ft³/s (2.702 m³/s), 23.10 in/yr (587 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft³/s (142 m³/s) June 30, 1973, gage height, 9.20 ft (2.804 m); minimum, 1.9 ft³/s (0.054 m³/s) Sept. 11, 12, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 31, 1948, reached a stage of 9.4 ft (2.87 m), from floodmarks, discharge, 7,470 ft³/s (212 m³/s), on basis of contracted-opening measurements of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,250 ft³/s (35 m³/s):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 13	1815	4,020 114	8.45 2.576

Minimum discharge 13 ft³/s (0.37 m³/s) July 31, Aug. 1, gage height 2.25 ft (0.686 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	144	50	35	25	149	485	109	29	33	37	16
2	55	127	56	33	26	70	362	98	29	28	28	25
3	53	123	62	32	25	84	326	94	28	24	17	40
4	49	144	141	31	25	87	268	82	25	22	16	23
5	46	127	149	31	26	323	262	77	22	106	15	24
6	45	130	119	31	25	201	311	75	21	67	15	37
7	44	130	323	30	24	146	246	67	27	46	15	24
8	44	119	215	30	24	144	219	60	34	56	15	19
9	181	107	180	29	25	237	187	116	27	51	18	18
10	127	100	140	28	26	505	170	262	40	40	41	17
11	100	92	110	27	26	575	152	289	53	35	144	16
12	88	83	92	27	27	715	136	265	41	42	51	15
13	81	79	76	26	28	2240	128	252	30	39	40	17
14	107	76	70	26	30	3090	120	222	26	37	37	55
15	88	72	64	26	27	1130	109	187	24	29	43	34
16	76	69	59	26	26	814	98	157	21	25	31	31
17	70	66	56	25	25	538	88	125	19	23	61	66
18	92	62	54	25	25	385	80	111	67	20	46	51
19	62	61	54	25	25	311	74	113	51	19	35	104
20	85	58	52	25	25	252	67	98	34	19	30	184
21	195	54	52	26	27	222	63	82	40	17	27	197
22	136	53	49	26	29	216	60	72	38	18	36	144
23	123	50	49	26	29	237	72	63	33	15	32	113
24	117	49	48	25	32	187	177	56	27	15	28	131
25	130	48	47	26	100	172	237	51	30	28	27	147
26	172	46	45	26	250	150	213	46	59	27	22	160
27	132	45	43	26	230	155	190	42	42	17	19	147
28	121	44	41	26	524	249	167	39	32	15	18	120
29	115	47	39	25	---	541	147	35	47	14	17	109
30	105	44	38	25	---	701	125	34	43	14	21	88
31	175	---	37	26	---	725	---	31	---	14	17	---
TOTAL	3075	2449	2610	851	1736	15613	5339	3410	1039	955	999	2172
MEAN	99.2	81.6	84.2	27.5	62.0	504	178	110	34.6	30.8	32.2	72.4
MAX	195	144	323	35	524	3090	485	289	67	106	144	197
MIN	44	44	37	25	24	84	60	31	19	14	15	15
CFSM	1.77	1.45	1.50	.49	1.11	8.98	3.17	1.96	.62	.55	.57	1.29
IN.	2.04	1.62	1.73	.56	1.15	10.35	3.54	2.26	.69	.63	.66	1.44
CAL YR 1976	TOTAL	49110	MEAN 134	MAX 1730	MIN 15	CFSM 2.39	IN 32.56					
WTR YR 1977	TOTAL	40248	MEAN 110	MAX 3090	MIN 14	CFSM 1.96	IN 26.69					

HUDSON RIVER BASIN

01334000 WALLOOMSAC RIVER NEAR NORTH BENNINGTON, VT

LOCATION.--Lat 42°54'47", long 73°15'25", Bennington County, Hydrologic Unit 02020003, on left bank 0.6 mi (1.0 km) downstream from Paran Creek and 1.4 mi (2.3 km) south of North Bennington.

DRAINAGE AREA.--111 mi² (287 km²).

PERIOD OF RECORD.--Discharge: June 1931 to current year.

Water-quality records: Water years 1953-54.

REVISED RECORDS.--WSP 781: 1933(M).

GAGE.--Water-stage recorder. Altitude of gage is 525 ft (160 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Occasional diurnal fluctuation at low flow caused by mills upstream; diurnal fluctuation greater prior to 1960. Diversion upstream for municipal supply of Bennington and North Bennington since 1961. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--46 years, 222 ft³/s (6.287 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,450 ft³/s (239 m³/s) Sept. 21, 1938, gage height, 12.04 ft (3.670 m), from rating curve extended above 2,800 ft³/s (79.3 m³/s) on basis of contracted-opening measurements at gage heights 10.13 ft (3.088 m), 10.49 ft (3.197 m), 11.50 ft (3.505 m), and 12.04 ft (3.670 m) and slope-area measurement and computation of flow over dam at gage height 12.04 ft (3.670 m); minimum, 4 ft³/s (0.11 m³/s) Sept. 27, 1932; minimum daily, 21 ft³/s (0.59 m³/s) Sept. 22, 23, 1964, July 12, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Mar. 14	1200	a*6680	189	*10.57	3.222	Mar. 31	1345	2110	59.8	5.72	1.743

a From rating curve extended as explained above.

Minimum discharge, 58 ft³/s (1.64 m³/s) Sept. 12, 13; minimum daily, 59 ft³/s (1.67 m³/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	343	108	98	79	173	1100	250	106	151	611	84
2	125	262	126	96	78	134	738	251	140	123	393	81
3	120	244	100	95	78	117	832	260	130	108	193	85
4	112	286	115	93	78	122	732	225	111	102	145	82
5	105	259	127	100	78	322	667	214	101	109	129	77
6	100	263	123	105	78	257	829	203	95	119	168	84
7	100	253	529	99	78	188	553	183	159	102	164	72
8	100	231	480	94	78	171	451	172	288	160	141	67
9	596	206	275	94	78	216	384	439	167	247	131	64
10	428	201	240	94	80	389	358	530	272	143	131	63
11	247	195	216	140	82	506	360	457	334	111	295	62
12	199	179	183	130	84	680	590	527	204	208	192	59
13	186	177	160	120	88	2470	983	500	160	232	160	77
14	255	175	150	110	90	5250	1100	358	135	264	139	393
15	223	171	160	105	85	1990	684	296	120	158	167	199
16	199	164	149	100	80	1450	536	261	106	125	128	144
17	180	157	150	98	78	1040	464	236	98	119	205	450
18	170	157	143	96	82	694	434	258	127	115	193	356
19	164	153	139	95	76	554	402	565	204	99	138	415
20	226	148	144	95	75	458	366	333	134	90	119	622
21	518	134	175	98	74	419	332	264	196	84	111	547
22	357	134	120	96	79	418	312	227	254	83	129	344
23	279	132	135	92	70	480	451	200	158	74	134	258
24	252	130	120	88	70	374	1110	182	124	71	113	255
25	306	127	115	86	118	321	777	169	139	174	124	292
26	407	126	120	85	116	300	510	151	368	181	104	300
27	309	147	105	84	113	308	420	140	219	105	94	308
28	260	177	110	83	254	377	360	133	150	87	89	233
29	243	175	105	82	---	912	312	125	188	77	86	228
30	231	133	100	81	---	1330	272	118	245	73	107	181
31	350	---	98	80	---	1900	---	111	---	72	91	---
TOTAL	7480	5639	5120	3012	2497	24320	17419	8338	5232	3966	5124	6482
MEAN	241	188	165	97.2	89.2	785	581	269	174	128	165	216
MAX	596	343	529	140	254	5250	1110	565	368	264	611	622
MIN	100	126	98	80	70	117	272	111	95	71	86	59
CAL YR 1976	TOTAL	118872	MEAN 325	MAX 3470	MIN 98							
WTR YR 1977	TOTAL	94629	MEAN 259	MAX 5250	MIN 59							

01334500 HOOSIC RIVER NEAR EAGLE BRIDGE, NY

LOCATION.--Lat 42°56'19", long 73°22'39", Rensselaer County, Hydrologic Unit 02020003, on right bank 0.5 mi (0.8 km) upstream from Case Brook, 1.2 mi (1.9 km) downstream from Walloomsac River, and 1.2 mi (1.9 km) southeast of Eagle Bridge.

DRAINAGE AREA.--510 mi² (1,321 km²).

PERIOD OF RECORD.--August 1910 to March 1922, July 1923 to current year.

REVISED RECORDS.--WSP 741: Drainage area. WSP 756: 1913(m). WSP 1302: 1922(M). WSP 1432: 1913 (minimum gage height). WSP 1502: 1911-12, 1914, 1920-21, 1928(M), 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 355.41 ft (108.329 m) above mean sea level. Prior to March 1922, nonrecording gage and July 24, 1923 to July 18, 1936, water-stage recorder, at site 0.2 mi (0.3 km) upstream at different datums.

REMARKS.--Records good except those for winter periods, which are poor. Diurnal fluctuation at medium and low flow caused by powerplants above station.

AVERAGE DISCHARGE.--65 years (1910-21, 1923-77), 937 ft³/s (26.54 m³/s), 24.92 in/yr (633 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,400 ft³/s (1,570 m³/s) Dec. 31, 1948, gage height, 21.15 ft (6.447 m), from highwater mark in gage house, from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of peak flow over downstream dams and contracted-opening measurements at gage heights 17.8 ft (5.42 m) and 21.15 ft (6.447 m); minimum, 24 ft³/s (0.68 m³/s) Sept. 14, 1913; minimum daily, 30 ft³/s (0.85 m³/s) Sept. 14, 1913.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,400 ft³/s (210 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	1415	*29,500 835	*15.74 4.798	Mar. 31	0415	9,130 259	9.47 2.886

Minimum daily discharge, 220 ft³/s (6.23 m³/s) Jan. 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	578	1440	350	230	250	1100	5760	1370	729	860	1020	575
2	532	1110	330	230	240	800	3790	1310	771	764	1140	552
3	496	1010	310	230	240	660	3680	1350	820	689	801	689
4	472	1180	300	230	240	700	3440	1240	709	650	689	625
5	442	1060	350	230	240	2000	3220	1210	676	709	631	569
6	415	1110	450	230	240	1920	4730	1190	650	960	682	643
7	410	1090	1930	230	250	1250	3010	1120	716	771	702	669
8	410	995	2160	230	250	1140	2460	1060	974	764	650	575
9	1800	896	960	240	250	1490	2030	1830	827	1030	656	540
10	1400	860	740	240	270	3160	1880	2730	1010	854	631	528
11	1200	824	600	240	300	3990	1790	2380	1100	729	1320	515
12	1000	754	520	230	340	5040	1930	2610	923	820	997	496
13	900	730	450	230	390	12200	2880	2720	827	909	833	490
14	1000	722	430	230	440	27200	3190	2020	764	1060	764	961
15	880	698	400	220	310	13400	2230	1660	716	840	874	989
16	780	655	380	220	280	8000	1830	1500	669	743	771	764
17	760	627	370	230	270	5860	1630	1370	637	689	833	1210
18	900	613	360	230	270	3960	1550	1310	736	676	1000	1220
19	700	599	350	240	270	3090	1470	1800	1220	643	1030	1380
20	714	578	350	240	270	2500	1380	1490	860	618	1000	2030
21	1880	532	340	240	280	2270	1300	1300	909	594	1030	2580
22	1470	546	330	240	280	2160	1250	1190	997	606	1050	1620
23	1150	528	310	240	280	2700	1400	1100	860	552	895	1340
24	1010	515	300	230	300	2080	3890	1030	750	528	757	1290
25	1170	490	290	230	560	1790	3770	982	716	631	743	1670
26	1530	478	280	230	1000	1690	2510	916	1210	894	702	1640
27	1290	502	270	230	900	1720	2080	874	1030	676	643	1940
28	1090	552	260	230	1500	2070	1810	847	840	582	618	1500
29	1000	550	250	240	---	4940	1590	813	800	540	600	1390
30	941	450	240	250	---	6780	1470	764	1070	515	656	1210
31	1290	---	240	250	---	8930	---	750	---	508	606	---
TOTAL	29610	22694	15200	7240	10710	136630	74950	43836	25516	22404	25324	32200
MEAN	955	756	490	234	383	4407	2498	1414	851	723	817	1073
MAX	1880	1440	2160	250	1500	27200	5760	2730	1220	1060	1320	2580
MIN	410	450	240	220	240	660	1250	750	637	508	600	490
CFSM	1.87	1.48	.96	.46	.75	8.64	4.90	2.77	1.67	1.42	1.60	2.10
IN.	2.16	1.66	1.11	.53	.78	9.97	5.47	3.20	1.86	1.63	1.85	2.35
CAL YR 1976	TOTAL	517197	MEAN	1413	MAX	18000	MIN	192	CFSM	2.77	IN	37.72
WTR YR 1977	TOTAL	446314	MEAN	1223	MAX	27200	MIN	220	CFSM	2.40	IN	32.55

HUDSON RIVER BASIN

01335770 HUDSON RIVER AT WATERFORD, NY

LOCATION.--Lat 42°47'19", long 73°40'28", at Saratoga-Rensselaer County line, Hydrologic Unit 02020003, at bridge on U.S. Highway 4 in Waterford, 0.4 mi (0.6 km) upstream from first branch of Mohawk River, and 2.8 mi (4.5 km) downstream from dam at lock 1 of the Champlain (Barge) Canal.

DRAINAGE AREA.--4,620 mi² (11,966 km²).

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: October 1976 to September 1977.

REMARKS.--During periods of ice effect, sediment samples collected from intake of Waterford water treatment plant. Water discharge estimated from staff gages located at upstream approach to lock 1 and 0.3 mi (0.5 km) upstream from lock 1; except during the period Dec. 24 to Apr. 24 and when flow was under 5,000 ft³/s (142 m³/s), water discharge was estimated by subtracting the flow of the Mohawk River at Cohoes (station 01357500) from the flow of the Hudson River at Green Island (station 01358000). Water-discharge records are poor. Streamflow affected by regulation for power generation and diversion for canal operations.

COOPERATION.--Staff-gage records for lock 1 furnished by the New York State Department of Transportation. *

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 810 mg/L Mar. 14; minimum daily mean, 1 mg/L Dec. 27.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 119,000 tons (108,000 Mg) Mar. 14; minimum daily, 11 tons (10 Mg) Sept. 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GAVESE (MN) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
NOV									
15...	1300	11000	270	30	7	--	--	--	--
JAN									
26...	0900	5600	220	--	2	.48	.63	1.1	.03
FEB									
04...	1430	5700	330	--	9	--	--	--	--
23...	1400	5000	240	--	2	.51	.83	1.3	.03
28...	1215	7000	1200	--	12	--	--	--	--
MAR									
11...	1400	15900	3500	180	9	--	--	--	.13
13...	0945	24400	4800	210	20	--	--	--	.15
14...	1230	65500	25000	1000	62	--	--	--	.65
14...	2030	67400	26000	860	46	--	--	--	--
15...	1000	70500	11000	430	28	--	--	--	.29
15...	2015	55000	6300	250	15	--	--	--	--
16...	1630	41500	3200	--	12	--	--	--	--
17...	1345	39000	2000	100	14	--	--	--	.06
21...	1615	18000	600	--	120	--	--	--	--
23...	1200	16400	710	50	5	--	--	--	.04
24...	1330	14500	950	--	6	.66	.56	1.2	.04
30...	1400	22000	2200	90	12	.59	.80	1.4	.09
31...	1140	24400	2400	100	8	.58	.70	1.3	.08
APR									
01...	1515	35200	1800	70	14	.51	.60	1.1	.05
05...	1130	18400	490	40	12	.57	.30	.87	.01
06...	1315	31600	1800	60	70	.52	.50	1.0	.05
15...	1030	23300	430	40	2	.51	.50	1.0	.02
21...	1230	12800	270	--	2	.62	.50	1.1	.04
22...	1030	15600	270	--	4	--	--	--	--
24...	1215	24200	1800	80	8	.58	.50	1.1	.07
25...	0730	38400	1400	70	8	.50	1.2	1.7	.03
26...	0710	39700	1100	60	12	.39	.80	1.2	.06
27...	0830	35900	790	50	11	.42	.70	1.1	.06
28...	0800	33300	580	40	16	.48	.70	1.2	.05
MAY									
06...	0900	12900	360	50	6	.51	.63	1.1	.03
20...	1000	11900	0	0	5	.46	.51	.97	.03
24...	1330	7550	330	40	7	.41	.44	.85	.02
25...	0800	7000	370	--	5	.42	.45	.87	.03
JUN									
01...	1130	5040	490	70	0	.50	.73	1.2	.04
10...	0645	3700	500	50	2	.70	.01	.71	.05
16...	1200	3100	380	--	18	--	--	--	--
30...	1200	4240	440	60	5	.81	1.3	2.1	.06
JUL									
13...	1000	2800	490	50	8	.72	.62	1.3	.05
25...	0900	2900	260	--	5	--	--	--	--

HUDSON RIVER BASIN

01335770 HUDSON RIVER AT WATERFORD, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	
JUL										
27...	1400	2400	310	--	5	.42	.55	.97	.06	
28...	0900	2000	190	30	3	.45	.59	1.0	.05	
AUG										
03...	0800	2900	320	50	9	.53	.58	1.1	.08	
10...	1400	2400	220	30	38	.33	.58	.91	.06	
12...	0900	3420	300	--	7	--	--	--	--	
15...	1400	1700	320	--	3	.34	.65	.99	.07	
17...	0900	3460	240	--	4	--	--	--	--	
18...	1430	3400	210	40	4	.32	.39	.71	.07	
22...	1500	2600	240	30	6	.55	.67	1.2	.03	
24...	1300	3300	350	--	10	--	--	--	--	
30...	1200	3560	270	30	2	.55	.58	1.1	.03	
SEP										
01...	1200	3420	440	--	9	--	--	--	--	
06...	1200	950	240	40	12	.55	.48	1.0	.04	
07...	1100	7540	280	--	18	.53	.48	1.0	.05	
27...	1430	12100	1000	--	10	--	--	--	--	
DATE		TOTAL NON- FILT- RABLE RESIDUE (MG/L)	VOL. NON- FILT- RABLE RESIDUE (MG/L)	OIL AND GREASE (MG/L)	TOTAL PCB (UG/L)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)
NOV										
15...	--	--	--	--	.0	.00	.00	.0	.00	.00
JAN										
26...	3	--	0	--	--	--	--	--	--	--
FEB										
04...	--	--	--	--	.0	.00	.00	.0	.00	.00
23...	6	--	0	--	--	--	--	--	--	--
28...	--	--	--	--	.0	.00	.00	.0	.00	.00
MAR										
11...	103	13	--	--	.0	.00	.00	.0	.00	.00
13...	147	25	--	--	.0	.00	.00	.0	.00	.00
14...	827	66	--	--	.9	.00	.00	.0	.00	.00
14...	686	40	--	--	.8	.00	.00	.0	.00	.00
15...	348	36	--	--	1.4	.00	.00	.0	.00	.00
15...	162	3	--	--	.4	.00	.00	.0	.00	.00
16...	--	--	--	--	.4	.00	.00	.0	.00	.00
17...	63	10	--	--	.0	.00	.00	.0	.00	.00
21...	--	--	--	--	.0	.00	.00	.0	.00	.00
23...	19	2	--	--	.2	.00	.00	.0	.00	.00
24...	20	--	0	--	--	--	--	--	--	--
30...	95	2	0	--	.0	.00	.00	.0	.00	.00
31...	82	7	1	--	.0	.00	.00	.0	.00	.00
APR										
01...	54	4	0	--	.2	.00	.00	.0	.00	.00
05...	12	2	0	--	.2	.00	.00	.0	.00	.00
06...	30	10	0	--	.2	.00	.00	.0	.00	.00
15...	23	0	0	--	.2	.00	.00	.0	.00	.00
21...	5	--	0	--	--	--	--	--	--	--
22...	--	--	--	--	.1	.00	.00	.0	.00	.00
24...	54	9	0	--	.1	.00	.00	.0	.00	.00
25...	64	11	0	--	.5	.00	.00	.0	.00	.00
26...	44	5	0	--	1.2	.00	.00	.0	.00	.00
27...	20	7	1	--	.5	.00	.00	.0	.00	.00
28...	5	0	1	--	.4	.00	.00	.0	.00	.00
MAY										
06...	0	0	2	--	.3	.00	.00	.0	.00	.00
20...	4	0	0	--	.4	.00	.00	.0	.00	.00
24...	4	0	3	--	.1	.00	.00	.0	.00	.00
25...	0	--	1	--	--	--	--	--	--	--
JUN										
01...	22	0	0	--	.0	.00	.00	.0	.00	.00
10...	--	--	0	--	.0	.00	.00	.0	.00	.00
16...	0	--	--	--	--	--	--	--	--	--
30...	12	6	0	--	.0	.00	.00	.0	.00	.00
JUL										
13...	0	0	5	--	.4	.00	.00	.0	.00	.00
25...	--	--	--	--	.4	.00	.00	.0	.00	.00

HUDSON RIVER BASIN

01335770 HUDSON RIVER AT WATERFORD, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	VOL. NON- FILT- RABLE RESIDUE (MG/L)	OIL AND GREASE (MG/L)	TOTAL PCB (UG/L)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)
JUL									
27...	51	--	2	--	--	--	--	--	--
28...	4	0	2	.3	.00	.00	.0	.00	.00
AUG									
03...	6	0	0	.6	.00	.00	.0	.00	.00
10...	2	0	2	.3	.00	.00	.0	.00	.00
12...	--	--	--	.0	.00	.00	.0	.00	.00
15...	4	--	--	--	--	--	--	--	--
17...	--	--	--	.6	.00	.00	.0	.00	.00
18...	4	0	0	.8	.00	.00	.0	.00	.00
22...	6	2	8	.6	.00	.00	.0	.00	.00
24...	--	--	--	.9	.00	.00	.0	.00	.00
30...	4	2	0	.7	.00	.00	.0	.00	.00
SEP									
01...	--	--	--	.3	.00	.00	.0	.00	.00
06...	1	1	0	.4	.00	.00	.0	.00	.00
07...	6	--	1	--	--	--	--	--	--
27...	--	--	--	.0	.00	.00	.0	.00	.00

DATE	TOTAL DDT (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MIREX (UG/L)	TOTAL TOX- APHENE (UG/L)
NOV								
15...	.00	.00	.00	.00	.00	.00	.00	0
JAN								
26...	--	--	--	--	--	--	--	--
FEB								
04...	.00	.00	.00	.00	.00	.00	--	0
23...	--	--	--	--	--	--	--	--
28...	.00	.00	.00	.00	.00	.00	--	0
MAR								
11...	.00	.00	.00	.00	.00	.00	.00	0
13...	.00	.00	.00	.00	.00	.00	.00	0
14...	.00	.00	.00	.00	.00	.00	.00	0
14...	.00	.00	.00	.00	.00	.00	--	0
15...	.00	.00	.00	.00	.00	.00	.00	0
15...	.00	.00	.00	.00	.00	.00	--	0
16...	.00	.00	.00	.00	.00	.00	--	0
17...	.00	.00	.00	.00	.00	.00	.00	0
21...	.00	.00	.00	.00	.00	.00	--	0
23...	.00	.00	.00	.00	.00	.00	.00	0
24...	--	--	--	--	--	--	--	--
30...	.00	.00	.00	.00	.00	.00	.00	0
31...	.00	.00	.00	.00	.00	.00	.00	0
APR								
01...	.00	.00	.00	.00	.00	.00	.00	0
05...	.00	.00	.00	.00	.00	.00	.00	0
06...	.00	.00	.00	.00	.00	.00	.00	0
15...	.00	.00	.00	.00	.00	.00	.00	0
21...	--	--	--	--	--	--	--	--
22...	.00	.00	.00	.00	.00	.00	--	0
24...	.00	.00	.00	.00	.00	.00	.00	0
25...	.00	.00	.00	.00	.00	.00	.00	0
26...	.00	.00	.00	.00	.00	.00	.00	0
27...	.00	.00	.00	.00	.00	.00	.00	0
28...	.00	.00	.00	.00	.00	.00	.00	0
MAY								
06...	.00	.00	.00	.00	.00	.00	.00	0
20...	.00	.00	.00	.00	.00	.00	.00	0
24...	.00	.00	.00	.00	.00	.00	.00	0
25...	--	--	--	--	--	--	--	--
JUN								
01...	.00	.00	.00	.00	.00	.00	.00	0
10...	.00	.00	.00	.00	.00	.00	.00	0
16...	--	--	--	--	--	--	--	--
30...	.00	.00	.00	.00	.00	.00	.00	0
JUL								
13...	.00	.00	.00	.00	.00	.00	.00	0
25...	.00	.00	.00	.00	.00	.01	--	0

01335770 HUDSON RIVER AT WATERFORD, NY--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SUS- PENDED SEDI- MENT	SUS- SED. SIEVE DIAM. & FINER THAN .062 MM	DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SUS- PENDED SEDI- MENT	SUS- SED. SIEVE DIAM. & FINER THAN .062 MM		
			(MG/L)	(T/DAY)				(MG/L)	(T/DAY)		
UCT					MAR						
09...	1000	12400	19	636	93	11...	1400	15900	107	4590	91
09...	1345	13600	38	1400	92	13...	0945	24400	162	10700	92
10...	0845	25600	112	7740	95	14...	0715	47700	787	101000	92
10...	1815	24200	108	7060	96	14...	1110	63000	1000	170000	79
11...	0900	19000	64	3280	96	14...	1215	65500	948	168000	89
11...	1400	18400	41	2040	100	14...	1220	65500	961	170000	90
12...	1115	14800	24	959	90	14...	1230	65500	987	175000	89
12...	1815	14600	19	749	95	14...	1315	65500	975	172000	77
13...	1700	15500	21	879	88	14...	1430	60600	924	151000	93
14...	0915	14200	14	537	76	14...	2030	67400	791	144000	80
15...	1345	15400	9	374	100	14...	2130	64300	796	138000	86
18...	0900	8500	10	232	66	15...	0900	17800	414	80300	81
18...	2215	8800	26	618	93	15...	1000	70500	401	76300	89
19...	0945	10600	10	286	84	15...	1005	70500	359	68300	71
21...	0930	14500	14	548	90	15...	1010	70500	411	78200	80
22...	0945	20800	35	1470	88	15...	1100	69700	351	66100	72
22...	1015	20700	31	1730	97	15...	2100	55000	189	28100	78
22...	2000	17000	27	1240	94	16...	0930	45000	102	12400	86
25...	0945	14500	13	509	74	16...	1335	44000	61	7250	80
26...	0900	15000	12	518	88	17...	1345	39000	70	7370	87
27...	0930	16600	12	538	74	23...	1200	16400	20	886	81
28...	0845	14600	10	394	94	31...	1310	25600	89	6150	76
29...	0900	14400	70	2720	76	APR					
NOV					26...						
01...	0930	17000	18	826	90	26...	0915	38000	46	4720	78
07...	0830	14700	8	318	77	27...	0730	35800	36	3480	77
13...	0945	11200	5	151	79	27...	0820	35800	34	3290	73
14...	0830	12500	2	67	80	27...	0850	35800	33	3190	69
15...	1300	11000	9	267	100	27...	1615	30000	29	2350	79
15...	1310	11000	2	59	100						
15...	1320	11000	8	238	95						
20...	1130	12000	6	194	73						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDIMENT (MG/L)	SUS-PENDED SEDIMENT DIS-CHARGE	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.
				(T/DAY)	% FINER THAN .002 MM	% FINER THAN .004 MM	% FINER THAN .008 MM
MAR							
13...	0945	24400	162	10700	37	54	63
14...	0715	47700	787	101000	33	45	59
14...	1215	65500	948	168000	26	40	54
14...	1220	65500	961	170000	28	40	54
14...	1430	60600	924	151000	33	39	54
14...	2130	64300	796	138000	29	34	48
15...	1000	70500	401	76300	28	38	55

	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.
	% FINER THAN	% FINER THAN	% FINER THAN	% FINER THAN	% FINER THAN	% FINER THAN
DATE	.016 MM	.031 MM	.062 MM	.125 MM	.250 MM	.500 MM
MAR						
13...	76	83	92	97	99	100
14...	72	82	92	97	99	100
14...	68	78	89	93	97	100
14...	68	78	90	96	98	100
14...	70	80	93	97	99	100
14...	63	74	86	92	97	100
15...	67	79	89	94	98	100

01335770 HUDSON RIVER AT WATERFORD, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	8660	10	234	16900	16	730	8480	4	92
2	7990	10	216	15100	13	530	8480	5	114
3	7250	10	196	14300	10	400	7560	5	102
4	5560	10	150	15100	5	204	7250	5	98
5	4960	10	134	15100	5	204	7210	2	39
6	6080	10	164	15700	12	509	5070	3	41
7	5430	10	147	15500	8	337	6660	4	72
8	6290	10	170	11700	6	190	11700	20	632
9	14100	46	1750	13700	5	185	13800	15	559
10	25800	109	7590	12900	3	104	10700	5	144
11	20200	55	3000	12500	7	238	11000	5	148
12	15300	24	991	12700	4	137	10600	5	143
13	15400	20	832	12100	5	163	8960	5	121
14	14900	14	563	11900	3	96	8990	2	49
15	14100	10	381	11100	5	150	8570	5	116
16	12400	8	268	10900	5	147	9290	5	125
17	11700	9	284	10900	5	146	10000	19	513
18	8800	22	523	10400	5	140	8870	15	359
19	9610	12	311	10300	5	167	7630	13	268
20	10800	6	175	10000	6	162	8350	10	225
21	15600	14	590	9500	9	233	9870	40	1070
22	19700	30	1600	8850	2	48	11300	50	1530
23	18700	23	1160	9020	8	195	10300	8	222
24	18100	18	880	9340	5	126	7600	5	102
25	16900	14	639	9100	5	123	7940	5	106
26	17900	12	580	9020	5	122	7590	5	98
27	17500	12	567	8700	5	117	5490	1	14
28	15600	11	463	8560	5	116	7550	20	407
29	14800	7	280	9610	5	130	8490	4	91
30	13400	7	253	9030	3	73	8160	4	87
31	14400	10	389	---	---	---	8450	4	89
TOTAL	407930	---	25480	350160	---	6222	271910	---	7776
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	6920	5	93	5310	15	215	9400	48	1220
2	6780	5	92	5580	14	211	7530	21	427
3	4340	6	70	5150	12	167	6300	13	221
4	7030	6	114	4790	12	155	6530	19	335
5	6940	5	94	4720	11	140	12400	65	2180
6	6740	5	91	4560	9	111	13400	65	2350
7	5750	5	78	3570	6	59	9100	32	786
8	5780	5	78	5320	6	86	9100	16	393
9	5340	5	72	4840	7	91	10200	21	578
10	4050	5	55	5260	7	99	13800	49	1830
11	6260	5	85	4580	7	87	19100	87	4490
12	6610	5	89	4690	10	127	17000	80	3670
13	5120	5	69	5410	18	263	25500	225	15500
14	5180	5	70	2040	23	127	54200	810	119000
15	5320	15	215	5560	41	615	62000	400	67000
16	5280	10	143	5220	68	958	46000	116	14400
17	5120	2	28	5240	18	255	39100	65	6860
18	5410	50	730	4390	20	237	31700	48	4110
19	5980	2	32	4210	10	114	24800	28	1870
20	5610	2	30	4020	5	54	20400	24	1320
21	5330	3	43	3290	5	44	19100	16	825
22	5430	4	59	4660	8	101	17100	15	693
23	5270	11	157	5150	10	139	17100	20	923
24	3080	7	58	5050	7	95	15600	23	969
25	4740	10	128	7000	33	624	11900	20	643
26	5780	12	187	6790	28	513	11400	19	585
27	5940	13	208	6300	12	204	10800	19	554
28	4950	10	134	7280	32	629	11900	18	578
29	4870	9	118	---	---	---	14000	46	1740
30	4660	10	126	---	---	---	19300	66	3440
31	2420	11	72	---	---	---	25900	77	5380
TOTAL	168030	---	3618	140080	---	6520	611660	---	264870

HUDSON RIVER BASIN

01335770 HUDSON RIVER AT WATERFORD, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	34000	63	5780	23200	13	814	6110	10	165
2	29600	33	2640	21800	15	883	4740	11	141
3	25000	22	1490	16500	15	672	5920	15	240
4	23100	23	1430	13000	15	526	5390	6	87
5	23000	32	1990	12400	11	368	5240	5	71
6	30300	55	4500	11700	7	221	4070	5	55
7	26800	22	1590	11900	8	257	6060	5	82
8	22400	11	665	10300	8	222	7520	6	122
9	18800	11	558	9200	11	273	5460	6	88
10	17200	10	464	16900	24	1100	5940	7	112
11	14600	4	158	16700	17	767	5820	3	47
12	15000	4	162	15000	15	607	5080	6	82
13	15500	4	167	15200	10	410	4020	10	109
14	18400	7	348	14500	6	237	5420	10	146
15	21800	8	471	11500	9	279	5130	7	97
16	21300	19	1090	8280	5	112	4600	6	75
17	19600	5	265	9820	10	265	5120	5	69
18	16800	3	136	8760	12	284	4180	5	56
19	15500	2	84	9470	7	179	3640	5	49
20	14100	4	152	12000	11	356	3720	9	90
21	13400	3	109	10500	8	227	5350	15	217
22	11700	4	126	9080	5	123	5820	6	94
23	12700	6	206	6800	5	110	4340	5	59
24	22100	44	2630	7940	7	150	4020	8	87
25	36900	62	6180	7580	9	184	4030	7	76
26	40600	50	5480	7360	10	199	5340	19	274
27	36400	31	3050	7420	10	200	5440	39	573
28	31800	20	1720	7430	10	201	5950	15	241
29	27700	15	1120	6180	8	133	5770	16	249
30	24300	14	919	3590	9	87	5350	13	188
31	---	---	---	3650	10	99	---	---	---
TOTAL	680400	---	45680	345860	---	10545	154590	---	4041
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	4260	15	173	1960	7	37	3670	8	79
2	3740	12	121	5120	6	83	3440	5	46
3	3120	5	42	3720	8	80	2700	4	29
4	3180	7	60	3390	18	165	2440	5	33
5	2190	12	71	3140	15	127	1850	5	25
6	4690	11	139	2900	13	98	3240	5	44
7	4450	11	132	2760	9	67	3420	8	74
8	3370	10	91	1180	9	29	2670	6	43
9	3460	10	93	3300	7	62	2870	10	77
10	3410	10	92	2170	10	59	2500	10	67
11	3120	12	101	1310	10	35	2080	9	51
12	6160	20	333	5460	7	103	1200	6	19
13	6130	14	232	5570	17	256	1990	2	11
14	5460	15	221	5510	7	104	2600	9	63
15	5040	10	136	2080	8	45	5660	7	107
16	4310	10	116	3300	8	71	5990	7	113
17	4110	7	78	2370	7	45	5750	8	124
18	2840	17	130	2760	12	89	6250	32	540
19	3660	11	109	4250	10	115	5510	25	372
20	5370	13	188	4520	10	130	8620	24	559
21	5020	13	176	3500	16	156	12500	25	844
22	2760	13	97	2430	6	39	10000	13	351
23	2770	7	52	3480	6	56	9770	12	317
24	3590	2	19	4360	9	106	9010	12	292
25	3770	2	20	4140	6	67	8180	10	221
26	3830	10	103	4440	10	120	8570	16	370
27	3890	13	137	4850	11	144	12400	23	770
28	3720	3	30	4060	8	88	14200	35	1340
29	2930	16	127	1670	6	27	14500	42	1640
30	3300	15	134	2230	6	36	12900	24	836
31	3590	9	87	2170	6	35	---	---	---
TOTAL	121240	---	3640	104400	---	2674	186480	---	9457

01336000 MOHAWK RIVER BELOW DELTA DAM, NEAR ROME, NY

LOCATION.--Lat 43°15'52", long 75°26'12", Oneida County, Hydrologic Unit 02020004, on right bank at Rome Fish Hatchery, 1.0 mi (1.6 km) downstream from Delta Dam, and 4.0 mi (6.4 km) north of Rome. Water-quality sampling site at discharge station.

DRAINAGE AREA.--150 mi² (389 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1921 to current year. Monthly discharge only for some periods, published in WSP 1302.

REVISED RECORDS.--WSP 851: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 474.00 ft (144.475 m) above mean sea level (Barge Canal datum). Prior to Jan. 24, 1937, nonrecording gage at site 200 ft (61 m) downstream at same datum.

REMARKS.--Records good. During canal navigation season, water is diverted from Black River through Forestport feeder and Black River Canal (flowing south) into basin above Delta Reservoir (see station 04252000). Flow regulated by Delta Reservoir (usable capacity, 2,800 mil ft³ or 79.0 hm³) except for Oct. 22 to Nov. 14, Dec. 8, Mar. 16-27, Mar. 30 to May 13, July 15-18, Sept. 17, 19-30, when reservoir spilled. Small quantity of water diverted from Delta Reservoir for fish hatchery use and later returned to river, part above and part below station.

AVERAGE DISCHARGE.--56 years, 379 ft³/s (10.73 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,560 ft³/s (242 m³/s) Oct. 2, 1945, gage height, 11.18 ft (3.408 m); minimum, 30 ft³/s (0.85 m³/s) Sept. 27, 1945, gage height, 0.65 ft (0.198 m); minimum daily, 45 ft³/s (1.27 m³/s) Jan. 17, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 3,110 ft³/s (88.1 m³/s) Mar. 31, gage height, 7.03 ft (2.143 m); minimum, 156 ft³/s (4.42 m³/s) May 13, 14, gage height, 1.71 ft (0.521 m); minimum daily, 167 ft³/s (4.73 m³/s) May 26, 27, 29-31.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	547	1400	445	519	299	225	2250	302	166	198	205	262
2	232	550	445	515	295	224	1520	282	169	198	205	261
3	232	599	445	515	295	221	1620	345	181	198	205	251
4	232	478	445	511	290	224	1490	373	205	198	205	213
5	229	406	445	511	287	242	1200	305	205	198	207	213
6	229	354	445	493	287	248	1330	281	205	198	215	213
7	229	332	450	420	287	242	973	255	205	196	221	213
8	250	348	707	420	273	237	742	232	205	200	221	213
9	361	372	874	420	253	242	571	249	205	198	220	212
10	287	424	570	417	245	254	575	245	205	198	220	210
11	220	354	865	417	245	261	591	229	203	198	223	210
12	218	305	860	413	245	320	787	218	203	199	224	210
13	213	281	860	344	245	312	1170	201	203	224	319	211
14	237	207	856	290	243	399	1350	169	200	216	298	241
15	226	253	787	296	250	313	1040	172	198	220	261	217
16	221	299	751	296	248	403	769	172	198	229	261	223
17	218	445	747	293	248	1090	607	171	198	222	261	347
18	226	449	747	293	245	1010	515	170	199	209	261	553
19	242	449	742	293	245	314	460	169	198	205	261	1130
20	245	438	677	302	242	501	414	169	198	205	261	1910
21	673	442	656	305	242	357	381	169	198	205	260	2240
22	923	434	548	305	229	343	364	169	198	208	261	1220
23	943	427	540	305	213	315	605	169	198	205	261	782
24	860	431	540	305	213	434	2130	169	198	205	273	566
25	1040	431	636	302	216	475	1640	165	198	205	265	505
26	1030	438	636	302	224	555	1190	167	198	205	263	775
27	738	471	536	302	224	419	782	167	198	204	261	1140
28	543	456	532	302	226	1150	574	165	198	203	261	844
29	438	456	527	302	---	1500	437	167	198	203	262	839
30	413	449	527	299	---	1200	352	167	198	205	264	634
31	998	---	623	299	---	2800	---	167	---	205	263	---
TOTAL	13684	13550	20470	11812	7051	18545	28830	6566	5931	6360	7648	17058
MEAN	441	432	660	381	252	598	961	212	198	205	247	569
MAX	1040	1400	874	519	299	2400	2250	373	205	229	319	2240
MIN	218	253	445	293	213	221	352	167	166	196	205	210

CAL YR 1976 TOTAL 178463 MEAN 468 MAX 4400 MIN 213 MEAN + 478 CFSM + 3.19 IN + 43.39
WTR YR 1977 TOTAL 137516 MEAN 432 MAX 2500 MIN 167 MEAN + 443 CFSM + 2.95 IN + 40.13

+ Adjusted for change in contents in Delta Reservoir and diversion from Black River basin.

HUDSON RIVER BASIN

01336000 MOHAWK RIVER BELOW DELTA DAM, NEAR ROME, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961, 1962, 1964-72, 1974 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1960 to September 1962, October 1963 to December 1965, September 1966 to September 1972, April 1974 to current year.

INSTRUMENTATION.--Temperature recorder since September 1966.

REMARKS.--Prior to May 1964 water-temperature measurements were made at Delta Dam, 1 mile upstream from present site. Temperature recorder clock stopped Oct. 18, 19 (range in temperature 11.0 to 12.0°C), Jan. 16-19 (range in temperature 0.0 to 0.5°C), and July 9-13 (range in temperature 16.0 to 17.5°C).

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 24.5°C June 23, 24, 1976; minimum (except water years 1964, 1968, and 1970), freezing point on many days during winter periods most years.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 22.0°C Aug. 19, 21; minimum, 0.0°C Jan. 10, 13.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	15.0	7.0	6.5	2.0	1.5	0.5	0.5	1.0	0.5	2.0	1.5
2	15.5	14.5	6.5	6.5	2.0	1.5	1.0	0.5	1.0	0.5	2.5	1.5
3	15.0	14.5	6.5	6.0	1.5	1.0	0.5	0.5	1.0	1.0	2.5	1.0
4	15.0	14.0	6.0	6.0	1.5	1.0	1.0	0.5	1.5	1.0	1.5	1.0
5	15.5	14.5	6.0	6.0	1.5	1.0	1.0	0.5	1.5	1.0	2.0	1.5
6	15.0	14.5	6.0	5.5	1.5	1.0	1.0	0.5	1.5	1.0	1.5	1.5
7	15.0	14.5	5.5	5.0	1.0	1.0	0.5	0.5	1.5	1.0	2.0	1.5
8	15.0	14.5	5.0	5.0	1.0	1.0	0.5	0.5	1.5	1.0	2.5	1.0
9	14.5	13.0	5.0	5.0	1.0	1.0	0.5	0.5	1.0	1.0	2.5	1.0
10	14.0	13.5	5.0	4.5	1.0	1.0	0.5	0.0	1.5	1.0	2.5	1.0
11	13.5	11.5	4.5	4.0	1.0	1.0	0.5	0.5	2.0	1.0	2.5	1.0
12	12.0	11.0	4.0	4.0	1.0	1.0	0.5	0.5	1.5	1.5	2.5	0.5
13	11.5	11.5	4.0	4.0	1.0	1.0	0.5	0.0	2.0	1.5	1.0	0.5
14	12.5	11.5	4.0	4.0	1.0	1.0	0.5	0.5	1.5	1.0	1.5	0.5
15	12.0	11.0	4.0	4.0	1.0	1.0	0.5	0.5	1.5	1.0	2.0	1.5
16	11.5	11.0	4.0	3.5	1.0	1.0	---	---	1.5	0.5	1.5	1.0
17	12.0	11.0	4.0	3.5	1.0	1.0	---	---	1.5	0.5	1.0	1.0
18	---	---	4.0	3.5	1.0	1.0	---	---	2.0	0.5	1.0	1.0
19	---	---	3.5	3.5	1.0	1.0	---	---	2.0	1.5	1.0	0.5
20	11.0	11.0	3.5	3.5	1.0	1.0	1.0	1.0	1.5	1.5	1.0	0.5
21	11.0	10.0	3.5	3.0	1.0	1.0	1.0	1.0	2.0	1.5	1.0	0.5
22	10.0	10.0	3.0	2.5	1.0	1.0	1.0	0.5	1.5	1.0	0.5	0.5
23	10.0	9.5	2.5	2.5	1.0	1.0	1.0	0.5	1.5	1.5	1.0	0.5
24	9.5	9.0	2.5	2.0	1.0	1.0	1.0	1.0	1.5	1.5	1.0	0.5
25	9.0	9.0	2.5	2.0	1.0	1.0	1.0	1.0	1.5	1.5	1.0	0.5
26	9.0	8.0	2.5	2.5	1.0	1.0	1.0	1.0	2.0	1.5	2.0	0.5
27	8.0	8.0	2.5	2.5	1.0	0.5	1.0	0.5	2.0	1.5	1.5	1.0
28	8.0	7.5	2.5	2.5	0.5	0.5	0.5	0.5	2.0	1.5	1.5	1.5
29	7.5	7.0	2.5	2.0	0.5	0.5	0.5	0.5	---	---	1.5	1.5
30	7.5	7.0	2.0	2.0	0.5	0.5	1.0	0.5	---	---	2.5	1.5
31	7.0	7.0	---	---	0.5	0.5	1.0	0.5	---	---	1.5	1.5
MONTH	15.5	7.0	7.0	2.0	2.0	0.5	1.0	0.0	2.0	0.5	2.5	0.5

HUDSON RIVER BASIN

75

01336000 MOHAWK RIVER BELOW DELTA DAM, NEAR ROME, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.0	1.5	11.0	9.0	13.5	13.0	17.0	15.5	19.5	18.5	18.5	17.5
2	2.0	2.0	10.5	10.0	13.5	13.0	17.5	15.5	20.5	18.5	18.0	17.5
3	2.0	2.0	12.5	10.0	14.0	12.5	17.5	15.5	20.0	18.5	18.5	17.5
4	2.0	2.0	11.0	10.0	14.5	12.5	16.5	15.5	20.0	19.0	19.5	17.5
5	2.0	2.0	10.0	9.5	14.0	13.0	17.0	15.5	19.5	19.0	18.5	18.0
6	2.0	2.0	12.0	10.0	13.5	12.5	16.0	15.5	19.0	18.5	18.5	18.0
7	2.0	2.0	12.0	10.0	13.5	13.0	17.0	15.5	19.0	19.0	19.0	17.0
8	2.0	1.5	11.5	10.0	14.0	13.0	16.0	16.0	20.5	19.0	19.0	17.0
9	2.0	1.5	10.0	9.5	13.5	13.0	---	---	20.5	19.5	19.5	17.5
10	2.5	1.5	11.5	10.0	13.0	13.0	---	---	20.0	19.0	19.0	17.5
11	3.5	2.0	13.0	11.0	14.5	13.0	---	---	20.5	19.5	18.5	17.5
12	3.5	2.5	13.5	11.5	14.0	13.0	---	---	20.5	19.5	18.5	17.5
13	3.5	3.0	14.0	12.0	14.5	13.5	---	---	20.5	19.0	18.0	18.0
14	5.0	3.5	14.5	12.0	14.5	13.5	18.0	16.5	20.5	20.0	18.0	18.0
15	6.0	5.0	14.5	12.0	15.0	13.5	18.5	17.0	21.0	19.5	19.0	17.5
16	6.5	6.0	14.0	12.0	16.0	13.5	18.5	17.0	21.0	19.5	18.0	17.0
17	6.5	5.5	15.0	12.0	15.0	14.5	18.5	17.5	21.0	20.5	18.5	17.0
18	8.5	6.5	14.0	13.0	15.0	14.5	18.0	17.0	21.0	20.0	18.5	18.0
19	10.0	6.5	14.5	13.0	16.0	14.5	18.0	17.0	22.0	20.0	18.5	18.0
20	9.5	6.0	14.5	12.5	16.5	14.5	18.0	17.0	21.0	20.5	18.5	17.0
21	10.0	7.0	15.0	13.0	16.0	15.0	18.0	17.0	22.0	20.5	17.0	17.0
22	12.5	10.0	15.0	13.0	16.0	15.0	19.0	16.5	21.5	20.5	17.0	16.5
23	12.0	7.5	15.0	13.0	16.5	15.0	19.0	17.0	21.0	20.5	16.5	16.5
24	8.5	7.0	14.0	13.0	16.5	15.0	19.0	17.5	20.5	20.0	16.5	15.5
25	9.5	7.0	15.0	13.0	15.5	15.5	18.5	17.5	21.0	19.5	15.5	15.0
26	10.0	9.5	15.0	13.0	16.0	15.5	19.0	17.0	19.5	18.5	15.0	15.0
27	11.0	9.5	15.0	13.0	17.0	15.0	19.0	17.0	18.5	18.0	15.0	15.0
28	10.5	9.5	15.0	13.0	16.5	15.5	19.0	17.0	18.5	17.5	15.0	15.0
29	10.5	9.0	15.0	12.5	16.5	15.5	18.5	17.5	18.5	17.5	15.0	15.0
30	10.5	9.0	15.0	13.0	17.0	15.5	19.0	18.5	18.5	17.5	15.0	15.0
31	---	---	15.0	13.0	---	---	20.0	18.0	19.0	17.5	---	---
MONTH	12.5	1.5	15.0	9.0	17.0	12.5	20.0	15.5	22.0	17.5	19.5	15.0

HUDSON RIVER BASIN

01346000 WEST CANADA CREEK AT KAST BRIDGE, NY

LOCATION.--Lat 43°04'08", long 74°59'26", Herkimer County, Hydrologic Unit 02020004, on left bank 600 ft (183 m) downstream from bridge on old State Highway 28 at Kast Bridge, 1.2 mi (1.9 km) downstream from North Creek, 2.2 mi (3.5 km) north of Herkimer, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--556 mi² (1,440 km²).

PERIOD OF RECORD.--May 1905 to December 1906 (gage height and discharge measurements only), January 1907, April to December 1907, March 1908 to December 1909, April 1910 to December 1913, April to December 1914, April 1915 to January 1917, April to November 1917, April to June 1918, October 1920 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 438.99 ft (133.804 m) above mean sea level. Prior to Sept. 18, 1920, nonrecording gage at former highway bridge 500 ft (152 m) upstream at different datum.

REMARKS.--Records good except those for winter periods, which are poor. Since March 1914, flow regulated by Hinckley Reservoir, 31 mi (50 km) above station (usable capacity, 3,320 mil ft³ or 94.0 hm³). During this year flow regulated except for Oct. 22 to Nov. 14, Mar. 17-20, Apr. 15 to May 18, July 14-19, Sept. 17-30, when reservoir spilled. Diurnal fluctuation at low and medium flow caused by powerplants above station. Diversion at Trenton Falls, 26 mi (42 km) above station, by Ninemile feeder since 1915 during canal navigation season. Diversion from Hinckley Reservoir for Utica water supply returned to Mohawk River.

AVERAGE DISCHARGE.--57 years (1920-77), 1,316 ft³/s (37.27 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,300 ft³/s (660 m³/s) Mar. 26, 1913, from reports of State Engineer and Surveyor; maximum gage height, 10.47 ft (3.191 m) probably Feb. 17, 1943, from floodmark in gage well (ice jam); minimum discharge, 20 ft³/s (0.57 m³/s) Sept. 3, 1929, gage height, 0.90 ft (0.274 m); minimum daily, 59 ft³/s (1.67 m³/s) Sept. 2, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,700 ft³/s (445 m³/s) Apr. 19, gage height, 7.25 ft (2.210 m); minimum, 276 ft³/s (7.82 m³/s) July 2, 3, 4, 5, 22, but may have been less during period of ice effect, gage height, 1.90 ft (0.579 m); minimum daily, 300 ft³/s (8.50 m³/s) Feb. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	786	4020	1460	942	860	540	4240	1580	772	473	663	890
2	705	3550	1400	940	700	560	3890	1450	954	472	832	840
3	655	2590	1400	940	700	500	4700	1370	846	432	719	696
4	852	2140	1300	940	780	560	3840	1370	656	486	674	742
5	849	1710	1300	925	560	560	3850	1300	643	500	632	798
6	761	1570	1300	1010	620	680	3990	1260	675	528	752	898
7	785	1470	1300	1050	700	800	3530	1100	721	571	652	861
8	1480	1480	1400	972	680	1000	3340	930	669	628	777	683
9	4130	1280	1500	993	760	1500	3370	1560	779	473	737	687
10	2290	1110	1430	1170	700	2420	3370	1410	840	451	696	923
11	1340	1260	1470	1100	580	2670	3370	1250	700	519	765	753
12	1060	938	1410	1000	300	2580	3460	1260	535	498	691	708
13	992	1370	1250	1000	400	2780	3500	1190	684	2380	715	833
14	1870	1340	1420	1000	450	2630	3560	1170	716	1080	605	1780
15	1440	1400	1510	1000	460	2100	3440	879	658	781	737	844
16	1120	1450	1330	980	500	2490	3690	901	586	783	624	1030
17	1010	1440	1490	800	540	3350	3820	945	631	888	720	2150
18	1130	1580	1170	840	580	4010	6240	710	733	733	705	1590
19	1140	1320	1360	1000	330	3650	13000	999	672	817	747	2210
20	1210	1630	1260	900	350	2690	8450	930	580	718	715	3340
21	4820	1350	1660	1000	560	2790	3220	876	725	652	643	2940
22	3580	1420	1190	900	420	3430	3200	835	655	577	812	2400
23	4800	1230	1340	800	600	3440	4920	849	589	605	840	2800
24	3620	1470	1180	1000	500	3240	12300	863	587	651	994	2250
25	3350	1320	1180	900	500	3300	12600	797	797	830	906	1860
26	3020	1390	1110	800	500	3110	7860	812	719	659	869	2980
27	2380	1500	1220	880	400	3250	4800	764	774	682	889	4720
28	2160	1500	1280	950	540	3630	3260	756	738	587	878	4920
29	1730	1500	1130	940	---	6180	2320	714	581	611	789	4070
30	1450	1500	1060	700	---	5470	1950	773	611	677	1020	2850
31	2690	---	993	900	---	5610	---	775	---	626	797	---
TOTAL	59215	48828	40803	29192	15570	82380	147080	32377	20826	21368	23595	54946
MEAN	1910	1628	1316	941	556	2657	4903	1044	694	689	761	1832
MAX	4820	4020	1660	1170	860	6180	13000	1580	954	2380	1020	4920
MIN	655	938	993	700	300	540	1950	710	535	432	605	683

CAL YR 1976 TOTAL 665771 MEAN 1819 MAX 7130 MIN 655
WTR YR 1977 TOTAL 576170 MEAN 1579 MAX 13000 MIN 300

01347000 MOHAWK RIVER NEAR LITTLE FALLS, NY

LOCATION.--Lat 43°00'52", long 74°46'48", Herkimer County, Hydrologic Unit 02020004, on left bank 1,800 ft (549 m) downstream from Rocky Rift Dam, 2.1 mi (3.4 km) upstream from East Canada Creek, and 4.5 mi (7.2 km) southeast of city of Little Falls.

DRAINAGE AREA.--1,348 mi² (3,491 km²).

PERIOD OF RECORD.--October 1927 to current year.

REVISED RECORDS.--WSP 741: 1929(M), Drainage area. WSP 1302: 1901, 1932(M). WSP 1432: 1928-30.

GAGE.--Water-stage recorder. Datum of gage is 308.84 ft (94.134 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Record fair. Records of daily discharge do not include diversion at Rocky Rift Dam into Erie (Barge) Canal for lockages at lock 16, near St. Johnsville. Monthly and annual figures of diversion at Rocky Rift Dam are published separately below. During canal navigation season, water is received from Black River basin through Black River Canal flowing south (see station 04252000), and from Chenango River basin through Oriskany Creek feeder. Water is diverted into (or may occasionally be received from) Oswego River basin through summit level of Erie (Barge) Canal between New London and Utica. Diurnal fluctuation caused by powerplants and locks and dams on Erie (Barge) Canal. Regulation by Delta and Hinckley Reservoirs (combined usable capacity, 6,120 mil ft³ or 173 hm³) (see Reservoirs in Hudson River Basin).

AVERAGE DISCHARGE.--50 years, 2,795 ft³/s (79.15 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (river channel only), 33,100 ft³/s (937 m³/s) Mar. 14, 1977, gage height, 19.17 ft (5.843 m), from high-water mark in gage house; minimum (river channel only), 214 ft³/s (6.06 m³/s) Aug. 18, 1949, gage height, 3.75 ft (1.43 m); minimum daily (including canal), probably not less than 463 ft³/s (13.1 m³/s) Sept. 2, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 16,000 ft³/s (450 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1800	19,000 538	14.75 4.496	Mar. 31	0500	17,000 481	13.84 4.218
Mar. 14	†2000	*33,100 937	*19.17 5.843				

† About.

Minimum discharge (river channel only), 340 ft³/s (9.63 m³/s) July 4, gage height, 4.03 ft (1.228 m); minimum daily (river channel only), 456 ft³/s (12.9 m³/s) July 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1570	8240	2810	2070	2620	4700	13000	3100	1380	526	978	1460
2	1840	7590	2810	2130	2410	3380	11000	2700	1670	499	1260	1490
3	1370	5550	2680	2170	2420	2670	10000	2500	1540	460	1120	1390
4	1390	4030	2320	2140	2360	2460	9200	2400	1260	456	1080	1200
5	1540	3530	2600	2020	2370	4550	8400	2400	1180	512	964	1210
6	1390	3410	2910	2080	2270	5660	8000	2400	1180	672	1030	1340
7	1360	3070	4290	1980	2230	4590	7600	2400	1300	667	1290	1390
8	2640	2940	6540	1990	2460	4030	6800	2500	1210	777	1260	1140
9	10500	2840	4790	1820	2420	4770	6000	2700	1310	777	1640	1150
10	10300	2520	3790	1760	2410	9220	5600	5000	1420	661	1280	1200
11	8790	2630	3470	1750	2230	10600	5400	7000	1390	508	1380	1150
12	6470	2420	3290	1670	2050	11500	5600	2430	1080	559	1180	1080
13	3530	2500	3100	1750	1850	19900	5600	2130	1210	2440	1220	1170
14	4800	2730	3120	1720	2190	29900	6200	2170	1210	2480	1180	3440
15	4620	2710	3180	1660	2260	22200	6600	1890	1180	1510	1180	2640
16	3500	2750	2870	1640	2090	15100	5600	1750	1110	1370	1090	1750
17	2840	2770	2810	1450	1910	10400	5000	1680	1050	1630	1180	5510
18	2480	2940	2710	1500	1890	9480	4300	1560	1250	1640	1200	4380
19	2510	3060	2840	1740	1890	8200	4000	1650	1340	1510	1160	6430
20	2500	3290	2700	1900	1630	6210	3800	1690	1200	1270	1100	10200
21	12700	3000	3430	1710	1600	5430	3800	1580	1350	1250	1080	10400
22	9800	2750	3140	1830	1760	6170	4200	1470	1310	1070	1180	8750
23	10800	2730	2770	1770	1580	6360	6400	1440	1310	1060	1400	8990
24	8460	2560	2640	1690	1630	5450	12000	1460	737	1090	1350	6340
25	8280	2500	2770	1860	2480	5510	16000	1400	689	1250	1720	4660
26	7750	2510	2500	1740	4610	5270	10000	1390	999	1420	1500	6640
27	5900	3650	2620	1600	4220	5420	8000	1430	818	1210	1390	10400
28	4900	4620	2580	1750	4930	6320	5600	1370	777	951	1360	9610
29	3730	4130	2270	2470	---	11800	4400	1290	588	1110	1250	8010
30	3290	3320	2660	2440	---	14600	3800	1370	608	1100	1720	5790
31	5510	---	2440	2340	---	18000	---	1310	---	1140	1510	---
TOTAL	157060	103290	95450	58150	66770	280750	211900	67560	34656	33615	39232	130310
MEAN	5066	3443	3079	1876	2385	9056	7063	2179	1155	1084	1266	4344
MAX	12700	8240	6540	2470	4930	29900	16000	7000	1670	2480	1720	10400
MIN	1360	2420	2270	1450	1580	2460	3800	1290	588	456	964	1030
†	17.4	11.5	0.24	0	0	0	0	18.8	23.4	30.2	25.9	18.9

CAL YR 1976 TOTAL 1541400 MEAN 4211 MAX 16100 MIN 1340 † 11.2
WTR YR 1977 TOTAL 1278743 MEAN 3503 MAX 29900 MIN 456 † 12.3

† Diversion, equivalent in cubic feet per second, at Rocky Rift Dam into Erie (Barge) Canal for lockages at Lock 16.

HUDSON RIVER BASIN

01348000 EAST CANADA CREEK AT EAST CREEK, NY

LOCATION.--Lat 43°01'00", long 74°44'28", Herkimer County, Hydrologic Unit 0202004, on right bank at village of East Creek, 0.2 mi (0.3 km) downstream from Niagara Mohawk Power Corp. Beardslee powerplant, 1.2 mi (1.9 km) upstream from mouth, and 3.5 mi (5.6 km) northwest of St. Johnsville.

DRAINAGE AREA.--291 mi² (754 km²).

PERIOD OF RECORD.--December 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 335.70 ft (102.321 m) above mean sea level.

REMARKS.--Records good. Extensive diurnal fluctuation and slight regulation caused by powerplants above station. City of Little Falls diverts about 5 ft³ (0.14 m³/s) for municipal supply.

AVERAGE DISCHARGE.--31 years (1947-77), 678 ft³/s (19.20 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 ft³/s (377 m³/s) Mar. 14, 1977, gage height, 7.42 ft (2.262 m); minimum, 0.16 ft³/s (0.005 m³/s) July 29, 1977, gage height, 0.44 ft (0.134 m); minimum daily, 0.43 ft³/s (0.012 m³/s) July 29, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 9.0 ft (2.74 m) Oct. 2, 1945, from floodmarks (discharge, 24,000 ft³/s or 680 m³/s, from slope-area measurement of peak flow).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,000 ft³/s (200 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	0800	*13,300 377	*7.42 2.262	Apr. 24	1500	11,800 334	7.13 2.173

Minimum discharge, 0.16 ft³/s (0.005 m³/s) July 29, gage height, 0.44 ft (0.134 m); minimum daily, 0.43 ft³/s (0.012 m³/s) July 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	643	2560	543	252	173	498	4530	758	64	76	41	230
2	319	1810	173	270	117	217	3020	715	204	37	256	192
3	162	1220	270	184	177	468	2910	496	208	37	180	123
4	357	1070	496	213	129	819	3000	423	37	36	138	50
5	275	1060	132	50	169	550	2200	404	39	173	120	39
6	416	921	536	314	243	429	1940	368	37	45	117	96
7	503	884	970	184	120	420	1540	132	158	52	110	88
8	402	811	1250	188	56	592	1250	138	36	54	158	54
9	2390	784	1040	173	58	732	950	865	213	56	341	230
10	4640	690	829	309	226	990	893	820	275	58	314	294
11	2280	564	820	76	536	780	941	510	35	177	284	66
12	1590	475	503	314	120	1210	1330	707	35	208	239	1.7
13	874	462	643	299	58	4550	3040	577	68	221	252	2.1
14	1450	577	398	58	230	11000	4350	410	36	523	196	564
15	1820	570	275	247	173	7470	3100	309	36	265	177	1370
16	1490	635	489	50	230	5330	2200	279	284	56	110	902
17	1000	570	530	314	169	3730	1720	592	289	56	2.5	1140
18	1130	468	475	52	363	2650	1540	346	35	416	2.3	1660
19	690	435	180	213	54	2060	1370	346	120	304	2.1	2580
20	865	325	294	325	107	1560	1290	204	352	265	2.1	3710
21	5220	80	489	184	145	1270	1160	429	368	138	2.1	4430
22	3410	468	256	177	166	990	921	43	221	50	208	2560
23	1910	346	423	50	410	974	1810	64	341	48	138	1720
24	1510	392	380	304	180	820	7710	243	503	48	1.3	1380
25	1530	62	304	188	357	766	7030	230	110	398	107	1300
26	1940	455	325	180	319	749	3430	226	346	200	352	1950
27	1660	766	217	166	309	784	2040	120	592	17	192	4960
28	1490	802	346	126	489	811	1540	44	380	52	120	2760
29	980	1080	374	158	---	1180	1110	41	319	43	93	2150
30	793	628	289	104	---	3120	865	40	226	60	84	1560
31	1560	---	221	352	---	5710	---	101	---	76	110	---
TOTAL	45699	21970	14470	6114	5883	64478	70730	10980	5967	4016.31	4449.4	38161.8
MEAN	1474	732	467	197	210	2080	2358	354	199	130	144	1272
MAX	5220	2560	1250	352	536	11800	7710	865	592	523	352	4960
MTN	162	62	132	58	54	217	865	40	35	43	1.3	1.7
CAL YR 1976 TOTAL	358049.00			MEAN 978	MAX 8290	MIN 37						
WTR YR 1977 TOTAL	292918.51			MEAN 803	MAX 11800	MIN 43						

01349000 OTSQUAGO CREEK AT FORT PLAIN, NY

LOCATION.--Lat 42°55'46", long 74°37'35", Montgomery County, Hydrologic Unit 02020004, on left bank 25 ft (8 m) downstream from bridge on State Highway 163 in Fort Plain, and 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--59.2 mi² (153 km²).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 302.16 ft (92.098 m) above mean sea level. Prior to Oct. 1, 1973, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good except those for winter periods, which are poor. Occasional diurnal fluctuation at low flow, cause unknown.

AVERAGE DISCHARGE.--28 years, 84.7 ft³/s (2.399 m³/s), 19.43 in.yr (494 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,640 ft³/s (273 m³/s) July 3, 1974, gage height, 9.67 ft (2.947 m), from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of slope-area measurement at gage height 9.24 ft (2.816 m); minimum, 0.6 ft³/s (0.017 m³/s) Nov. 30, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (57 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1500	4,490 127	7.25 2.210	Apr. 24	1715	5,900 167	8.05 2.454
Mar. 13	1330	4,840 137	7.46 2.271	Sept. 20	1030	*5,960 169	*8.08 2.463
Mar. 29	1800	3,120 88.4	6.28 1.914	Sept. 26	1445	2,910 82.4	6.11 1.862

Minimum discharge, 3.4 ft³/s (0.096 m³/s) Aug. 19, gage height, 1.03 ft (0.314 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	137	40	21	9.2	205	342	62	14	9.8	6.3	6.6
2	25	85	45	21	9.0	123	252	62	15	9.1	6.3	8.7
3	24	77	40	22	9.0	90	483	62	13	8.4	5.7	17
4	22	93	33	20	9.0	76	204	48	11	8.4	5.7	11
5	20	97	46	19	8.8	90	182	58	11	9.5	5.7	7.3
6	19	128	35	18	8.8	500	234	72	11	11	6.9	7.6
7	19	106	100	18	8.6	177	138	46	11	10	7.6	6.6
8	42	72	110	17	8.6	188	123	36	11	15	9.8	6.0
9	1480	56	58	17	8.6	477	88	228	12	14	11	5.7
10	250	60	50	16	8.8	1190	87	357	25	11	7.6	5.7
11	96	66	45	16	8.8	588	90	145	16	9.1	9.1	5.3
12	66	56	43	15	9.0	500	103	81	13	9.5	7.6	5.7
13	57	58	42	15	10	2410	98	62	12	52	6.6	8.4
14	476	58	45	14	15	2330	87	49	11	25	6.0	115
15	154	61	40	14	40	579	60	41	11	14	5.7	32
16	170	54	38	14	100	483	50	35	9.8	13	5.3	21
17	86	47	35	14	60	259	44	31	9.8	11	7.3	281
18	65	49	33	13	25	147	39	27	12	9.8	6.6	111
19	55	51	31	13	19	140	36	94	17	8.7	5.0	361
20	300	52	30	12	15	111	33	37	13	8.4	5.0	1870
21	760	42	30	12	12	105	31	26	19	8.0	4.2	691
22	190	37	31	12	11	121	30	22	13	7.2	10	237
23	125	35	31	11	10	132	765	20	11	6.6	9.8	155
24	200	33	29	11	10	101	2880	18	10	6.6	6.9	169
25	500	30	26	11	11	94	967	17	17	19	6.3	417
26	250	31	25	10	200	87	299	15	50	22	5.3	1210
27	124	42	24	10	703	94	180	14	18	10	4.7	456
28	94	39	23	10	351	167	127	14	13	9.1	4.2	219
29	81	55	23	9.6	---	1380	94	13	12	6.9	4.4	175
30	69	36	22	9.4	---	1600	76	12	11	6.9	12	127
31	300	---	22	9.2	---	1200	---	12	---	6.6	7.3	---
TOTAL	6146	1843	1225	444.2	1738.2	15744	8222	1816	432.6	375.6	211.9	6748.6
MEAN	198	61.4	39.5	14.3	62.1	508	274	58.6	14.4	12.1	6.84	225
MAX	1480	137	110	22	703	2410	2880	357	50	52	12	1870
MIN	19	30	22	9.2	8.6	76	30	12	9.8	6.6	4.2	5.3
CFSM	3.34	1.04	.67	.24	1.05	8.58	4.63	.99	.24	.20	.12	3.80
IN.	3.86	1.16	.77	.28	1.09	9.89	5.17	1.14	.27	.24	.13	4.24
CAL YR 1976	TOTAL	49192.0	MEAN 134	MAX 2680	MIN 12	CFSM 2.26	IN 30.91					
WTR YR 1977	TOTAL	44947.1	MEAN 123	MAX 2880	MIN 4.2	CFSM 2.08	IN 28.24					

HUDSON RIVER BASIN

01349858 SILVER LAKE OUTLET AT HENSONVILLE, NY

LOCATION.--Lat 42°17'43", long 74°12'49", Greene County, Hydrologic Unit 02020005, on right bank, 10 ft (3 m) downstream from bridge on County Highway 65, 0.4 mi (0.644 km) north of Hensonville, and 0.6 m (0.965 km) south of State Highway 23.

DRAINAGE AREA.--6.59 mi² (17.1 km²).

PERIOD OF RECORD.--May 1976 to September 1977, no winter records (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 1,600 ft (488 m), from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 616 ft³/s (17.4 m³/s) Aug. 10, 1976, gage height, 5.91 ft (1.801 m) from rating curve extended above 110 ft³/s (3.12 m³/s) on basis of slope-conveyance study; minimum, 0.03 ft³/s (0.001 m³/s) May 11, 1976, gage height, 0.94 ft (0.287 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 480 ft³/s (13.6 m³/s) Sept. 20, gage height, 5.00 ft (1.524 m); minimum, 0.05 ft³/s (0.001 m³/s) Aug. 4, 5, gage height, 1.08 ft (0.329 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.85	12				17	78	12	1.5	.60	.07	.30
2	.85	9.7				13	54	11	1.5	.51	.09	.24
3	.85	9.1				11	63	9.1	1.3	.43	.06	.24
4	.72	9.1				20	45	7.6	1.0	.30	.06	.30
5	.72	8.1				70	57	11	.85	.30	.15	.30
6	.72	8.6				25	55	9.7	.72	.30	.13	.30
7	.51	8.1				12	40	8.1	1.3	.30	.10	.19
8	.51	8.1				13	36	6.4	1.0	.30	.19	.15
9	49	7.2				21	29	12	1.0	.30	.09	.15
10	33	6.8				62	26	31	13	.30	.13	.15
11	17	6.4				74	14	62	6.0	.24	2.4	.10
12	13	5.6				75	13	54	3.8	.85	1.3	.09
13	10	5.6				148	12	40	3.0	.43	1.2	.13
14	13	5.2				218	12	28	2.4	.30	3.5	.30
15	12	4.8				83	11	21	2.6	.19	2.8	.19
16	9.1	4.8				60	8.6	17	2.0	.30	1.3	.61
17	7.2	4.4				44	7.6	14	2.2	.30	3.8	1.2
18	6.8	4.4				31	6.4	12	1.5	.24	3.5	.61
19	6.0	4.4				32	6.0	14	2.0	.15	2.0	8.6
20	12	4.4				34	6.0	12	2.6	.24	1.2	157
21	76	4.4				23	5.6	10	2.0	.15	1.0	66
22	33	4.1				21	5.6	8.6	1.5	.13	1.2	33
23	22	3.8				39	6.4	7.2	1.3	.10	1.0	25
24	17	3.8				34	32	5.6	1.2	.09	.85	31
25	15	4.1				30	35	5.6	1.0	.24	.72	75
26	27	3.5				20	26	4.4	.72	.30	.51	94
27	18	4.1				20	28	3.8	.72	.13	.43	50
28	14	4.4				23	22	3.0	.72	.09	.43	28
29	13	4.8				97	17	1.7	.60	.09	.36	18
30	10	5.6				235	14	2.0	.85	.07	.30	14
31	13	---				171	---	2.0	---	.07	.24	---
TOTAL	451.83	179.4				1777	771.2	445.8	61.88	8.34	31.11	605.15
MEAN	14.6	5.98				57.3	25.7	14.4	2.06	.27	1.00	20.2
MAX	76	12				236	78	62	13	.85	3.8	157
MIN	.51	3.5				11	5.6	1.7	.60	.07	.06	.09
CFSM	2.22	.91				8.69	3.90	2.19	.31	.04	.15	3.07
IN.	2.55	1.01				10.03	4.35	2.52	.35	.05	.18	3.42

LOCATION.--Lat 42°19'15", long 74°26'10", Greene County, Hydrologic Unit 02020005, on left bank 100 ft (30 m) upstream from bridge on State Highway 23 in Prattsville, 0.2 mi (0.3 km) upstream from Schoharie Reservoir, 0.2 mi (0.3 km) downstream from Huntersfield, and 1.6 mi (2.6 km) downstream from Batavia Kill. Water-quality sampling site at discharge station.

WATER-DISCHARGE RECORDS

REVISED RECORDS.--WSP 351: Drainage area. WSP 1432: 1937-38.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--74 years, 457 ft³/s (12.94 m³/s), 26.30 in/yr (668 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft³/s (1,560 m³/s) Oct. 16, 1955, gage height, 19.14 ft (5.834 m), from rating curve extended above 16,000 ft³/s (453 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 4.8 ft³/s (0.14 m³/s) Sept. 22, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,400 ft³/s (120 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Oct. 9	1030	7,890	223	8.26	2.518	Mar. 14	0330	13,000	368	9.99	3.045
Oct. 21	0515	7,200	204	7.99	2.435	Mar. 30	1930	8,800	249	8.60	2.621
Dec. 7	1545	7,300	207	8.03	2.448	Sept. 20	1400	*14,800	419	10.51	3.203
Dec. 10	1415	ice jam	--	9.46	2.883	Sept. 25	1815	6,110	173	7.54	2.298
Feb. 25	1030	ice jam	--	8.36	2.548	Sept. 30	1045	4,420	125	6.75	2.057
Mar. 5	0400	ice jam	--	*13.42	4.090						

Minimum discharge, 20 ft³/s (0.566 m³/s) Sept. 12, 13, gage height, 2.22 ft (0.677 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	722	150	550	76	2000	2600	500	130	69	30	32
2	90	532	150	540	76	1700	1720	447	130	61	32	31
3	74	477	150	500	76	1600	1960	413	127	45	31	32
4	68	538	170	490	76	1800	1540	364	110	50	29	32
5	63	477	250	450	76	10000	1740	435	97	48	30	31
6	59	466	292	420	74	1500	1780	402	92	46	43	30
7	59	460	2640	390	74	144	1260	349	113	46	41	29
8	117	431	1650	350	74	574	1070	309	110	46	38	26
9	3590	372	2300	300	74	782	853	447	102	48	33	26
10	1360	349	3000	250	80	1540	719	988	902	42	32	23
11	715	317	4740	220	100	1430	644	1780	500	40	110	23
12	507	292	1450	200	130	2070	622	2050	309	59	78	25
13	396	275	1300	170	150	6410	806	2080	228	61	110	23
14	460	263	1200	140	170	9230	829	1520	189	50	92	36
15	381	251	1100	120	150	3470	651	1110	167	43	156	38
16	372	239	1100	100	130	2230	533	877	146	36	90	43
17	279	224	1100	90	110	1620	458	719	124	52	133	181
18	251	224	1000	78	100	1000	418	601	118	61	146	130
19	228	217	1000	76	96	900	380	608	189	45	90	1210
20	317	217	1100	76	100	700	354	506	150	40	69	5350
21	3800	195	1100	74	100	580	334	447	124	37	57	2980
22	1460	188	1100	74	100	540	324	402	107	38	71	1350
23	905	175	1000	74	120	520	354	334	99	36	78	1030
24	715	165	900	74	180	500	1390	304	87	31	65	995
25	722	155	840	74	4500	500	1630	369	80	36	57	2100
26	980	158	800	74	4000	490	1100	276	99	53	50	3300
27	729	178	700	74	3200	480	995	232	95	43	45	2460
28	583	192	680	76	3000	673	837	204	78	35	41	1430
29	507	213	640	78	---	3320	673	178	76	30	37	1040
30	460	160	620	78	---	6100	566	156	80	31	35	790
31	752	---	580	76	---	5560	---	140	---	31	32	---
TOTAL	21029	9122	34802	6346	17192	71168	29140	19547	4958	1389	1981	25026
MEAN	678	304	1123	205	614	2295	971	631	165	44.8	63.9	834
MAX	3800	722	4740	560	4500	10000	2600	2080	902	69	156	5350
MIN	59	155	150	74	74	480	324	140	76	30	29	23
CFSM	2.87	1.29	4.76	.87	2.60	9.73	4.11	2.67	.70	.19	.27	3.53
IN.	3.31	1.44	5.49	1.00	2.71	11.22	4.59	3.08	.78	.22	.31	3.94
CAL YR 1976	TOTAL	219739	MEAN 600	MAX 11600	MIN 33	CFSM 2.54	IN 34.64					
WTR YR 1977	TOTAL	241700	MEAN 662	MAX 10000	MIN 23	CFSM 2.81	IN 38.10					

HUDSON RIVER BASIN

01350000 SCHOHARIE CREEK AT PRATTSVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966, 1971, 1972, May to October 1977 (discontinued).

SUSPENDED-SEDIMENT MEASUREMENTS, MAY TO OCTOBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
MAY , 1977					AUG . 1977				
25...	1230	364	13	13	31...	0900	33	5	.45
JUN					SEP				
09...	1200	95	2	.51	13...	1030	24	3	.19
13...	1000	232	5	3.1	22...	0830	1420	13	50
23...	1330	100	7	1.9	29...	1030	1060	8	23
JUL					OCT				
07...	1030	46	4	.50	13...	1100	594	2	3.2
20...	1000	42	3	.34					
AUG									
03...	1000	32	6	.52					
17...	1000	97	9	2.4					

01350100 SCHOHARIE RESERVOIR NEAR GRAND GORGE, NY

LOCATION.--Lat 42°21'21", long 74°26'42", Schoharie County, Hydrologic Unit 02020005, in Shandaken Tunnel intake house on Intake Road, 1.6 mi (2.6 km) north of junction of Intake Road and State Highway 23, 2.5 mi (4.0 km) upstream from Gilboa Dam, and 2.6 mi (4.2 km) east of Grand Gorge.

DRAINAGE AREA.--314 mi² (813 km²).

PERIOD OF RECORD.--January 1973 to current year. Monthly contents only published as "at Gilboa" for September 1928 to December 1972.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York).

REMARKS.--Reservoir is formed by masonry and earth dam. Storage began July 24, 1926. Usable capacity 19,583 mil gal (74.12 hm³) between minimum operating level, elevation, 1,050.00 ft (320.040 m), and crest of spillway, elevation, 1,130.00 ft (344.424 m). Dead storage below elevation 1,050.00 (320.040 m), 1,968 mil gal (7.449 hm³). Figures given herein represent usable contents. Reservoir impounds water except for periods of spilling, for diversion through Shandaken Tunnel into Esopus Creek to Ashokan Reservoir, for New York City water supply.

COOPERATION.--Capacity table furnished by City of New York, Department of Water Resources.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 1,135.17 ft (346.000 m) Oct. 16, 1955, contents, 23,566 mil gal (89.20 hm³); minimum observed (after initial filling), 1,062.00 ft (323.698 m) Aug. 20, 1970, contents, 1,520 mil gal (5.753 hm³).

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,132.42 ft (345.162 m) Mar. 14, contents, 20,524 mil gal (77.68 hm³); minimum, 1,083.12 ft (330.135 m) Sept. 18, contents, 5,710 mil gal (21.61 hm³).

Capacity table (elevation, in feet, and usable contents in million gallons).

1,070.0	2,850	1,100.0	10,080
1,080.0	4,969	1,120.0	16,100
1,090.0	7,407	1,133.0	20,750

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090.15	1125.82	1129.97	1129.35	1122.62	1127.18	1130.93	1130.38	1128.19	1119.06	1102.50	1090.18
2	1089.32	1126.90	1129.95	1129.20	1122.35	1128.18	1130.62	1130.30	1128.27	1118.42	1102.08	1089.63
3	1088.48	1127.65	1129.88	1129.06	1122.01	1128.80	1130.64	1130.30	1125.73	1117.75	1101.60	1089.10
4	1087.62	1126.48	1129.74	1128.91	1121.79	1129.07	1130.57	1130.27	1127.18	1117.10	1101.03	1088.56
5	1086.76	1129.25	1129.68	1128.76	1121.47	1130.53	1130.51	1130.30	1126.35	1116.44	1100.66	1088.01
6	1085.88	1129.94	1129.71	1128.56	1121.22	1130.46	1130.63	1130.24	1125.13	1115.77	1100.10	1087.50
7	1085.00	1130.28	1130.41	1128.37	1120.89	1130.16	1130.49	1130.10	1125.15	1115.12	1099.61	1086.98
8	1084.15	1130.30	1130.67	1128.18	1120.54	1130.16	1130.42	1130.07	1124.89	1114.48	1099.09	1086.52
9	1083.48	1130.25	1130.38	1127.96	1120.20	1130.15	1130.37	1130.20	1124.57	1113.93	1098.57	1086.15
10	1083.83	1130.23	1130.34	1127.80	1119.85	1130.40	1130.35	1130.42	1124.86	1113.40	1098.02	1085.87
11	1096.44	1130.23	1130.35	1127.57	1119.57	1130.50	1130.35	1130.64	1125.71	1113.10	1097.99	1085.54
12	1097.53	1130.20	1130.30	1127.45	1119.26	1129.01	1130.34	1130.74	1125.85	1112.65	1097.71	1085.26
13	1098.14	1130.19	1130.24	1127.21	1118.99	1131.20	1130.38	1130.74	1125.17	1112.25	1097.38	1085.08
14	1098.64	1130.18	1130.16	1127.00	1118.85	1131.94	1130.44	1130.62	1125.59	1111.76	1097.07	1085.01
15	1099.21	1130.17	1130.21	1126.82	1118.70	1131.03	1130.41	1130.49	1125.39	1111.23	1096.89	1084.93
16	1099.50	1130.16	1130.18	1126.54	1118.47	1130.71	1130.37	1130.44	1125.14	1110.67	1096.58	1084.44
17	1099.63	1130.14	1130.19	1126.33	1118.17	1130.54	1130.35	1130.39	1124.84	1110.17	1096.37	1083.89
18	1099.66	1130.14	1130.15	1126.07	1117.74	1130.41	1130.34	1130.36	1124.51	1109.71	1096.41	1083.40
19	1099.59	1130.11	1130.10	1125.89	1117.57	1130.34	1130.30	1130.40	1124.29	1109.20	1096.18	1084.92
20	1099.67	1130.05	1130.15	1125.63	1117.32	1130.28	1130.26	1130.36	1124.07	1108.68	1095.82	1090.55
21	1105.22	1130.04	1130.18	1125.38	1117.02	1130.26	1130.17	1130.33	1123.79	1108.20	1095.41	1104.40
22	1110.46	1130.01	1130.06	1125.12	1116.72	1130.26	1130.07	1130.32	1123.44	1107.67	1095.00	1108.92
23	1112.53	1129.96	1130.01	1124.84	1116.34	1130.28	1130.07	1130.27	1123.06	1107.10	1094.66	1111.34
24	1113.86	1129.93	1130.04	1124.61	1116.04	1130.28	1130.62	1130.17	1122.69	1106.57	1094.29	1112.93
25	1115.02	1129.90	1129.94	1124.40	1117.69	1130.23	1130.80	1130.18	1122.28	1106.05	1093.88	1116.16
26	1116.55	1129.95	1129.94	1124.14	1120.88	1130.22	1130.66	1130.08	1121.83	1105.60	1093.37	1121.39
27	1118.40	1129.94	1129.93	1123.92	1122.40	1130.21	1130.56	1129.95	1121.37	1105.09	1092.85	1128.12
28	1120.02	1129.99	1129.86	1123.64	1125.11	1130.26	1130.49	1129.32	1120.79	1104.58	1092.37	1130.14
29	1121.34	1130.09	1129.76	1123.41	---	1130.57	1130.41	1129.51	1120.23	1104.06	1091.84	1130.22
30	1122.51	1130.10	1129.68	1123.11	---	1131.28	1130.36	1129.25	1119.65	1103.48	1091.30	1130.10
31	1123.88	---	1129.50	1122.87	---	1131.53	---	1128.80	---	1102.94	1090.76	---
MEAN	1101.43	1129.69	1130.05	1126.39	1119.64	1130.21	1130.44	1130.19	1124.33	1110.72	1096.69	1097.51
MAX	1123.88	1130.30	1130.67	1129.35	1125.11	1131.94	1130.93	1130.74	1128.27	1119.06	1102.50	1130.22
MIN	1084.15	1125.82	1129.50	1122.87	1115.04	1127.18	1130.07	1128.80	1119.65	1102.94	1090.76	1083.40
†	17,297	19,580	19,425	17,090	17,685	20,178	19,726	19,199	16,039	10,943	7,621	19,622
‡	+479	+118	-7.74	-117	+32.9	+124	-23.3	-26.3	-163	-254	-166	+619
CAL YR 1976	MEAN	1120.41	MAX	1130.91	MIN	1072.87	‡	+52.4				
WTR YR 1977	MEAN	1118.92	MAX	1131.94	MIN	1083.40	‡	+50.5				

† Contents, in millions of gallons, on last day of month.

‡ Change in contents, equivalent in cubic feet per second.

Note.--Elevations for Feb. 6-10, Mar. 23 to Apr. 5, Apr. 11-21, Sept. 29, 30 are instantaneous wire-weight readings furnished by city of New York Department of Water Resources.

HUDSON RIVER BASIN

01350101 SCHOHARIE CREEK AT GILBOA, NY

LOCATION.--Lat 42°23'50", long 74°27'03", Schoharie County, Hydrologic Unit 02020005, on left bank, 200 ft (61 m) upstream from bridge on County Highway 322, 0.2 mi (0.3 km) west of village of Gilboa, 0.4 mi (0.6 km) downstream from dam on Schoharie Reservoir, and 0.8 mi (1.3 km) upstream from the Platter Kill.

DRAINAGE AREA.--314 mi² (813 km²).

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 939.56 ft (286.378 m) above mean sea level.

REMARKS.--Records good except those between 1,000 and 4,000 ft³/s (28.3 and 113 m³/s) which are fair, and those below 150 ft³/s (4.25 m³/s), which are poor. Entire flow, runoff from 314 mi² (813 km²), except for period of spill Nov. 6-23, Nov. 28 to Dec. 1, Dec. 7-28, Mar. 5 to May 26, and Sept. 28-30, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of city of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,400 ft³/s (436 m³/s) Mar. 14, 1977, gage height, 19.64 ft (5.986 m); minimum daily, 0.04 ft³/s (0.001 m³/s) on many days, June to October 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 32,000 ft³/s (906 m³/s) Mar. 18, 1936, from information furnished by New York City Board of Water Supply.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,400 ft³/s (436 m³/s) Mar. 14, gage height, 19.64 ft (5.986 m); minimum daily, 0.04 ft³/s (0.001 m³/s) Oct. 1-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.91	1.6	1.7	.32	.65	4140	761	1.0	.45	1.5	.12
2	.04	.81	1.3	1.7	.31	1.4	3010	660	.83	.40	1.3	.13
3	.04	.74	1.1	1.7	.30	1.0	3150	600	.74	.40	.66	.13
4	.04	.76	1.0	1.7	.29	3.7	2720	520	.66	.40	.51	.13
5	.04	.81	.90	1.7	.28	3010	2710	643	.51	.40	.45	.13
6	.04	.61	2.1	1.7	.27	2250	3060	474	.51	.40	.45	.13
7	.04	479	2830	.50	.26	800	2220	103	.66	.35	.45	.12
8	.05	399	2760	.50	.25	444	1820	47	.51	.21	.40	.12
9	1.1	293	839	.50	.24	539	1350	205	.58	.27	.40	.12
10	.76	232	677	.50	.23	2040	1130	982	.74	.24	1.3	.12
11	.08	184	743	.50	.22	2720	990	2490	.51	.27	2.4	.12
12	.07	142	479	.50	.21	2930	902	3230	.45	.66	.93	.10
13	.06	113	369	.50	.20	6220	1110	3170	.45	.35	.66	.12
14	.08	91	95	.50	.19	11300	1210	2540	.45	.40	.66	.27
15	.08	80	194	.50	.19	5110	960	1860	.40	.40	.66	.24
16	.07	65	163	.50	.19	3750	761	1390	.40	.40	.66	.27
17	.07	50	159	.50	.18	2980	649	1080	.40	.40	1.9	.66
18	.06	41	108	.50	.17	2330	520	880	.51	.40	1.0	.58
19	.06	38	37	.50	.16	1880	269	880	.74	.40	.07	5.4
20	.10	37	98	.50	.16	1490	184	730	.51	.40	.40	11
21	2.8	26	157	.40	.16	1270	61	627	.66	.40	.20	2.8
22	.89	18	109	.40	.16	1350	14	544	.45	.40	.20	1.4
23	.59	10	3.0	.40	.15	1080	11	350	.40	.40	.20	1.2
24	.38	4.6	2.3	.39	.15	997	1670	136	.40	.40	.20	1.0
25	.38	1.1	1.8	.38	4.0	800	2820	157	.45	.58	.18	3.1
26	1.1	2.4	1.2	.37	.35	751	2130	32	.45	.66	.18	5.7
27	.81	1.7	1.0	.36	3.2	743	1820	8.9	.40	.40	.16	2.5
28	.59	1.3	.80	.35	5.0	1030	1440	1.5	.40	.40	.13	160
29	.59	4.5	1.9	.34	---	4500	1100	1.2	.66	.40	.12	376
30	.31	10	1.8	.33	---	7330	894	.93	.58	.40	.12	58
31	1.0	---	1.7	.32	---	7150	---	.83	---	.40	.12	---
TOTAL	12.36	2388.63	9840.50	21.24	17.79	76850.75	44825	25104.35	16.41	12.44	18.57	631.71
MEAN	.40	79.6	317	.69	.64	2479	1494	810	.55	.40	.60	21.1
MAX	2.8	479	2830	1.7	5.0	11300	4140	3230	1.0	.66	2.4	376
MIN	.04	.74	.80	.32	.15	.65	11	.83	.40	.21	.07	.10

CAL YR 1976 TOTAL 166854.14 MEAN 455 MAX 4050 MIN .04
WTR YR 1977 TOTAL 159749.76 MEAN 438 MAX 11300 MIN .04

01350120 PLATTER KILL AT GILBOA, NY

LOCATION.--Lat 42°24'18", long 74°26'36", Schoharie County, Hydrologic Unit 02020005, on right bank, 190 ft (58 m) upstream from culvert on County Highway 17, 0.5 mi (0.8 km) upstream from mouth, and 0.6 mi (1.0 km) northeast of Gilboa.

DRAINAGE AREA.--11.1 mi² (28.7 km²).

PERIOD OF RECORD.--Occasional measurements, water years 1969-73. January 1975 to current year.

GAGE.--Water-stage recorder. Concrete control since Nov. 12, 1976. Altitude of gage is 1,110 ft (338 m), from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 309 ft³/s (8.75 m³/s) Mar. 30, 1977, gage height, 3.66 ft (1.12 m); minimum daily, 1.3 ft³/s (0.037 m³/s) Oct. 6, 1976; minimum gage height, 0.12 ft (0.037 m) Sept. 8, 11, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 80 ft³/s (2.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 25	0145	ice jam	3.03 0.924	Sept. 20	0915	245 6.94	3.41 1.039
Mar. 14	0515	298 8.44	3.62 1.103	Sept. 26	1500	154 4.36	2.95 .899
Mar. 30	1730	*309 8.75	*3.66 1.116				

Minimum daily discharge, 1.3 ft³/s (0.037 m³/s) Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	21	7.4	4.6	2.0	21	110	13	6.4	3.7	3.0	3.7
2	1.8	15	7.6	4.4	2.0	11	84	12	5.8	3.5	3.0	3.5
3	1.7	12	8.0	4.2	2.0	11	74	11	5.4	3.2	3.0	3.7
4	1.5	11	9.0	4.0	2.0	20	66	12	5.0	3.2	3.0	3.5
5	1.4	11	10	3.8	2.0	60	58	13	4.8	3.0	3.0	3.2
6	1.3	10	11	3.6	2.0	44	50	12	4.6	3.0	3.0	3.2
7	1.8	10	12	3.5	2.0	29	40	11	4.8	3.2	3.0	3.0
8	3.0	9.8	18	3.4	1.9	25	39	10	5.6	3.0	3.0	2.9
9	90	9.6	22	3.2	1.9	35	30	20	6.2	2.9	3.0	2.8
10	50	9.4	30	3.2	1.9	72	28	45	6.8	2.8	3.0	2.8
11	25	9.6	16	3.0	2.0	80	26	54	5.0	2.8	3.0	2.7
12	17	9.6	14	2.8	2.3	84	24	62	4.3	5.0	3.2	2.6
13	22	9.8	12	2.7	3.0	160	22	48	3.5	5.0	3.2	2.9
14	27	9.8	13	2.7	3.3	233	19	39	3.1	4.2	3.2	4.7
15	20	9.5	15	2.6	3.1	125	16	30	2.9	3.9	3.2	3.3
16	16	9.5	10	2.6	3.0	83	14	25	2.8	3.7	3.2	5.9
17	13	9.5	10	2.5	2.8	64	12	26	2.7	3.7	3.2	7.8
18	12	9.5	10	2.5	2.7	52	11	29	2.8	3.5	6.7	6.2
19	11	9.5	12	2.4	2.5	44	10	35	3.0	3.3	9.8	18
20	28	9.5	10	2.4	2.4	39	10	30	2.9	3.3	8.8	84
21	56	9.5	13	2.3	2.4	36	9.6	24	2.8	3.2	8.1	60
22	40	9.5	12	2.3	2.4	34	9.2	21	2.7	3.0	7.5	37
23	28	9.5	10	2.2	2.5	38	12	19	2.8	3.0	6.2	28
24	21	9.5	8.0	2.2	4.0	34	27	16	3.0	3.0	6.2	34
25	23	9.1	7.2	2.1	66	33	56	14	2.9	4.7	5.7	100
26	29	9.1	6.6	2.1	19	39	43	12	2.9	3.3	5.0	118
27	21	9.1	6.2	2.1	26	56	33	10	3.0	2.9	4.7	123
28	16	9.1	5.8	2.0	38	90	25	9.0	3.2	2.9	4.4	47
29	14	9.0	5.4	2.0	---	130	20	8.2	3.9	2.9	4.2	36
30	20	8.0	5.2	2.0	---	160	14	7.6	3.9	2.9	3.9	28
31	25	---	4.8	2.0	---	150	---	7.0	---	3.0	3.7	---
TOTAL	638.5	306.0	341.2	87.4	207.1	2093	991.8	684.8	119.5	104.7	137.1	781.4
MEAN	20.6	10.2	11.0	2.82	7.40	67.5	33.1	22.1	3.98	3.38	4.42	26.0
MAX	90	21	30	4.6	66	233	110	62	6.8	5.0	9.8	123
MIN	1.3	8.0	4.8	2.0	1.9	11	9.2	7.0	2.7	2.8	3.0	2.6
CFSM	1.86	.92	.99	.25	.67	6.08	2.98	1.99	.36	.30	.40	2.34
IN.	2.14	1.03	1.14	.29	.69	7.01	3.32	2.29	.40	.35	.46	2.62

CAL YR 1976 TOTAL 6749.2 MEAN 18.4 MAX 200 MIN 1.3 CFSM 1.66 IN 22.62
WTR YR 1977 TOTAL 6492.5 MEAN 17.8 MAX 233 MIN 1.3 CFSM 1.60 IN 21.76

Note.--No gage-height record Oct. 1 to Nov. 11.

HUDSON RIVER BASIN

01350140 MINE KILL NEAR NORTH BLENHEIM, NY

LOCATION.--Lat 42°25'44", long 74°28'24", Schoharie County, Hydrologic Unit 02020005, on left bank 200 ft (61 m) upstream from bridge on State Highway 30, 0.6 mi (1.0 km) upstream from mouth, and 3.0 mi (4.8 km) southwest of North Blenheim.

DRAINAGE AREA.--16.3 mi² (42.2 km²).

PERIOD OF RECORD.--Occasional discharge measurements, water years 1969-74. December 1974 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 23, 1975. Altitude of gage is 1,060 ft (323 m), from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,190 ft³/s (33.7 m³/s) Mar. 14, 1977, gage height, 3.41 ft (1.039 m), minimum daily, 0.50 ft³/s (0.014 m³/s) Sept. 11, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 670 ft³/s (19 m³/s):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	0230	1,190 33.7	3.41 1.039

Minimum discharge, 0.72 ft³/s (0.020 m³/s) July 11, gage height, 0.73 ft (0.223 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	36	10	13	3.0	41	152	35	7.0	1.5	16	2.1
2	3.8	29	12	12	3.0	40	105	25	5.2	1.1	17	9.0
3	3.4	27	14	11	3.0	38	105	19	4.0	.89	6.3	4.3
4	2.8	28	17	10	3.0	38	84	13	3.6	.89	3.2	3.9
5	2.8	25	19	9.0	3.1	123	86	25	3.2	.80	1.1	2.7
6	2.5	24	17	8.0	3.1	76	80	18	2.9	.89	1.1	2.4
7	2.5	27	70	7.4	3.1	52	55	13	3.9	.89	1.1	1.9
8	6.8	28	67	7.0	3.1	47	50	18	3.6	.89	1.1	1.7
9	96	23	32	6.6	3.1	67	38	35	4.3	.99	1.2	1.5
10	42	23	44	6.4	3.1	123	40	90	20	.99	2.9	1.4
11	24	21	41	6.0	3.1	116	37	107	10	.89	44	1.2
12	20	20	34	5.6	3.4	116	36	71	4.5	22	12	1.2
13	18	20	26	5.0	4.0	409	36	51	3.7	3.9	6.3	1.2
14	29	20	30	4.6	5.0	610	35	38	3.0	2.4	3.9	10
15	24	19	35	4.3	4.0	219	30	31	2.7	1.5	4.3	6.3
16	20	18	31	4.0	4.0	141	26	26	2.4	1.2	2.9	12
17	18	16	30	4.0	5.0	98	23	22	1.7	1.9	59	41
18	16	16	24	3.8	7.0	67	20	18	2.4	3.6	35	46
19	15	16	20	3.6	5.6	59	18	23	3.9	3.6	22	103
20	47	16	25	3.5	4.5	59	16	14	2.7	3.2	20	138
21	102	16	33	3.5	4.2	44	15	11	2.9	3.2	21	115
22	43	15	20	3.4	4.2	38	13	9.2	2.1	3.2	16	82
23	34	14	20	3.4	4.3	32	32	8.0	1.7	2.7	12	65
24	31	13	19	3.4	4.5	38	305	7.0	1.5	2.1	6.3	68
25	35	13	19	3.4	180	35	212	6.2	1.5	10	3.9	121
26	54	13	18	3.4	50	36	130	5.8	2.7	20	3.9	118
27	35	13	17	3.3	43	38	100	5.2	1.9	9.0	3.2	110
28	32	13	16	3.3	74	43	80	4.9	1.4	5.5	2.7	79
29	25	15	15	3.2	---	301	60	4.5	1.7	4.3	2.4	67
30	24	13	15	3.1	---	432	45	4.2	2.1	4.3	2.1	53
31	52	---	14	3.0	---	323	---	4.0	---	3.9	1.9	---
TOTAL	864.4	590	804	171.2	440.4	3899	2064	762.0	114.2	122.22	335.8	1268.8
MEAN	27.9	19.7	25.9	5.52	15.7	126	68.8	24.6	3.81	3.94	10.8	42.3
MAX	102	36	70	13	180	610	305	107	20	22	59	138
MIN	2.5	13	10	3.0	3.0	32	13	4.0	1.4	.80	1.1	1.2
CAL YR 1976	TOTAL	10846.80	MEAN	29.6	MAX	240	MIN	1.6				
WTR YR 1977	TOTAL	11436.02	MEAN	31.3	MAX	610	MIN	.80				

HUDSON RIVER BASIN

87

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, NY

LOCATION.--Lat 42°27'57", long 74°27'45", Schoharie County, Hydrologic Unit 02020005, on left bank 2300 ft (701 m) upstream from West Kill, and 1.2 mi (1.9 km) upstream from bridge on State Highway 30 in North Blenheim.
Water-quality sampling site at discharge station.

DRAINAGE AREA.--359 mi² (930 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional measurements, water years 1969-70. October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 800 ft (244 m), from topographic map. Prior to Oct. 1, 1971, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good except those for winter periods, which are poor. Regulation of flow by Blenheim-Gilboa Pumped Storage Project immediately upstream from gage. Entire flow, runoff from 314 mi² (813 km²), except for periods of spill, Nov. 6-23, Nov. 28 to Dec. 1, Dec. 7-28, Mar. 5 to May 26, Sept. 28-30, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of City of New York.

AVERAGE DISCHARGE.--7 years, 515 ft³/s (14.58 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41,400 ft³/s (1,170 m³/s) June 23, 1972, gage height, 12.29 ft (3.746 m) from rating curve extended above 14,000 ft³/s (396 m³/s); no flow Oct. 21-28, 1972, Sept. 12-14, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,100 ft³/s (484 m³/s) Mar. 14, gage height, 11.47 ft (3.496 m); minimum, 1.2 ft³/s (0.034 m³/s) Oct. 5, 6; minimum gage height, 1.03 ft (0.314 m) Jan. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	104	38	30	10	174	3640	760	37	4.2	7.3	5.0
2	1.6	51	16	20	15	104	2320	562	27	4.5	14	5.0
3	1.5	38	14	30	20	19	2400	684	13	4.2	7.0	5.3
4	1.3	30	6.3	17	20	40	2050	636	11	4.0	6.0	5.3
5	1.3	74	4.5	23	20	2190	2000	556	8.3	3.6	4.5	4.8
6	2.3	137	8.3	25	15	1950	2510	545	7.3	4.2	4.0	4.2
7	2.3	343	2200	23	12	1040	1480	187	10	4.0	3.6	4.5
8	2.1	485	2110	28	13	555	1370	146	7.3	4.5	3.2	4.2
9	350	348	842	27	13	642	1100	365	7.6	4.5	3.8	4.2
10	96	285	585	32	15	1780	1070	953	21	4.0	5.9	4.2
11	15	212	776	18	20	2140	923	1920	19	4.5	55	4.2
12	11	201	430	3.4	25	2260	734	2590	25	25	66	4.0
13	12	169	253	3.2	20	6650	947	2290	35	37	57	4.0
14	11	113	195	3.2	14	12300	1100	1820	29	33	43	7.0
15	17	93	339	3.2	16	6140	888	1440	7.3	4.8	15	10
16	14	113	234	3.0	13	3370	709	1110	6.6	4.5	12	9.4
17	12	104	250	3.5	13	2340	596	978	4.0	4.0	182	38
18	11	115	201	7.0	16	1730	522	792	5.0	3.6	58	37
19	8.6	91	74	100	13	1450	343	814	3.8	4.0	25	260
20	18	63	123	80	10	1190	281	747	8.6	4.0	13	781
21	350	67	267	70	20	1180	87	602	17	4.0	14	237
22	100	77	77	60	45	1230	28	608	3.2	4.0	19	169
23	33	57	23	60	60	978	28	303	3.0	4.0	14	123
24	19	30	16	60	77	876	1550	105	3.2	3.8	13	113
25	62	14	19	64	296	740	2360	257	3.8	4.8	8.6	369
26	148	8.3	13	74	129	715	1690	93	3.4	5.0	7.6	528
27	82	5.3	36	70	131	792	1410	31	3.0	3.8	5.0	218
28	28	5.0	25	70	174	1050	1250	31	4.0	3.8	4.8	534
29	15	46	16	60	---	4190	984	21	4.8	3.8	8.0	534
30	16	87	34	7.0	---	8150	876	19	4.5	4.5	14	167
31	95	---	23	6.0	---	7810	---	27	---	4.0	5.0	---
TOTAL	1537.5	3565.6	9248.1	1080.5	1245	75776	37246	21992	342.7	211.6	698.3	4193.3
MEAN	49.6	119	298	34.9	44.5	2444	1242	709	11.4	6.83	22.5	140
MAX	350	485	2200	100	296	12300	3640	2590	37	37	182	781
MIN	1.3	5.0	4.5	3.0	10	19	28	19	3.0	3.6	3.2	4.0

CAL YR 1976 TOTAL 158530.8 MEAN 433 MAX 4210 MIN 1.3
WTR YR 1977 TOTAL 157136.6 MEAN 431 MAX 12300 MIN 1.3

HUDSON RIVER BASIN

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1971 to current year.

INSTRUMENTATION.--Temperature recorder since October 1971.

REMARKS.--Temperature probe may be influenced by solar radiation during periods of low flow. No temperature record Mar. 13 to Aug. 5, due to damaged temperature probe; no temperature record Aug. 5-8, 12-23, Sept. 23-27, due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (except 1977), 33.5°C Aug. 7, 1973; minimum, freezing point on many days during all winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	17.0	13.0	14.5	9.5	7.0	8.0	3.0	1.5	2.0	0.0	0.0	0.0
2	16.5	13.0	14.5	9.0	6.0	7.5	2.0	0.5	1.5	0.0	0.0	0.0
3	19.0	13.0	15.0	8.0	7.5	8.0	1.0	0.0	0.5	0.0	0.0	0.0
4	20.5	12.5	15.0	9.0	7.5	8.0	0.0	0.0	0.0	0.5	0.0	0.0
5	20.5	11.5	15.0	7.5	6.0	7.0	2.5	0.0	0.5	0.0	0.0	0.0
6	18.0	14.5	16.0	8.5	7.5	8.0	1.5	0.5	1.0	0.0	0.0	0.0
7	18.5	15.0	16.5	8.0	7.5	8.0	2.0	1.0	1.5	0.0	0.0	0.0
8	17.5	15.0	16.0	7.5	7.0	7.0	2.0	2.0	2.0	0.0	0.0	0.0
9	17.0	14.5	16.0	7.5	6.5	7.0	2.0	1.0	1.5	0.0	0.0	0.0
10	16.0	14.0	15.0	7.0	6.0	6.5	1.5	1.5	1.5	0.0	0.0	0.0
11	15.0	11.5	13.0	6.5	6.0	6.0	1.5	1.5	1.5	0.0	0.0	0.0
12	15.5	10.0	12.5	6.5	5.5	6.0	1.5	1.5	1.5	0.0	0.0	0.0
13	15.5	11.5	13.5	6.0	5.5	6.0	1.5	0.0	1.0	0.0	0.0	0.0
14	13.5	11.5	12.5	6.5	5.0	5.5	1.0	0.0	0.5	0.0	0.0	0.0
15	15.0	10.5	12.5	6.5	5.0	5.5	1.0	1.0	1.0	0.0	0.0	0.0
16	13.5	11.5	12.0	6.0	5.0	5.5	1.0	0.5	1.0	0.0	0.0	0.0
17	11.5	10.0	11.0	6.0	4.5	5.0	1.0	1.0	1.0	0.0	0.0	0.0
18	12.0	8.5	9.5	5.5	5.0	5.0	1.0	0.5	1.0	0.0	0.0	0.0
19	12.0	7.5	9.0	6.0	4.5	5.0	1.5	0.0	0.5	0.0	0.0	0.0
20	11.5	8.5	9.5	5.0	4.5	4.5	2.0	0.5	1.0	0.0	0.0	0.0
21	12.5	9.5	12.0	5.0	4.0	4.5	1.0	0.5	0.5	0.0	0.0	0.0
22	11.0	8.0	9.5	4.5	4.0	4.0	1.0	0.0	0.5	0.0	0.0	0.0
23	11.5	8.5	10.0	4.5	3.5	4.0	1.0	0.0	0.5	0.0	0.0	0.0
24	9.5	8.0	8.5	4.0	2.5	3.5	1.0	0.0	0.0	0.0	0.0	0.0
25	10.5	9.0	10.0	3.0	1.5	2.5	0.5	0.0	0.5	0.0	0.0	0.0
26	10.0	9.5	9.5	5.5	2.0	4.0	0.5	0.0	0.5	0.0	0.0	0.0
27	10.0	8.5	9.0	8.0	5.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
28	9.5	7.5	8.5	7.0	5.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0
29	9.5	6.5	8.0	5.5	3.0	3.5	0.5	0.0	0.0	0.0	0.0	0.0
30	9.5	6.5	8.0	3.5	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
31	10.0	8.5	9.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	20.5	6.5	12.0	9.5	1.5	5.5	3.0	0.0	1.0	0.5	0.0	0.0

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	2.0	1.5	1.5						
2	0.0	0.0	0.0	4.0	1.0	2.0						
3	0.0	0.0	0.0	4.0	0.5	2.0						
4	0.0	0.0	0.0	2.0	0.5	1.5						
5	0.0	0.0	0.0	2.0	1.5	2.0						
6	0.0	0.0	0.0	1.5	1.5	1.5						
7	0.0	0.0	0.0	1.5	1.5	1.5						
8	0.0	0.0	0.0	2.0	1.5	1.5						
9	0.0	0.0	0.0	2.5	1.5	2.0						
10	0.0	0.0	0.0	2.0	2.0	2.0						
11	0.0	0.0	0.0	2.5	2.0	2.0						
12	0.0	0.0	0.0	2.5	2.0	2.0						
13	0.5	0.0	0.0	---	---	---						
14	0.5	0.0	0.5	---	---	---						
15	1.0	0.5	0.5	---	---	---						
16	0.5	0.0	0.0	---	---	---						
17	0.5	0.0	0.0	---	---	---						
18	0.0	0.0	0.0	---	---	---						
19	0.5	0.0	0.5	---	---	---						
20	0.5	0.0	0.0	---	---	---						
21	0.0	0.0	0.0	---	---	---						
22	0.0	0.0	0.0	---	---	---						
23	0.5	0.0	0.5	---	---	---						
24	1.0	0.5	0.5	---	---	---						
25	1.0	0.5	1.0	---	---	---						
26	2.5	1.0	1.5	---	---	---						
27	4.0	1.0	2.0	---	---	---						
28	2.0	1.5	1.5	---	---	---						
29	---	---	---	---	---	---						
30	---	---	---	---	---	---						
31	---	---	---	---	---	---						
MONTH	4.0	0.0	0.5	4.0	0.5	2.0						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1							---	---	---	27.5	20.5	23.5
2							---	---	---	27.5	22.5	24.5
3							---	---	---	27.0	22.0	23.5
4							---	---	---	26.5	20.5	23.0
5							---	---	---	24.5	21.0	22.5
6							---	---	---	26.5	21.0	23.0
7							---	---	---	25.5	19.5	22.0
8							---	---	---	25.5	19.0	22.0
9							28.5	23.0	25.0	25.5	19.0	21.5
10							25.0	21.5	23.5	25.0	19.5	21.5
11							22.5	20.0	21.5	21.0	16.0	19.0
12							---	---	---	22.5	15.0	18.0
13							---	---	---	18.5	17.5	18.0
14							---	---	---	21.5	18.0	19.0
15							---	---	---	21.0	16.0	18.5
16							---	---	---	18.5	17.5	18.0
17							---	---	---	21.5	18.0	19.5
18							---	---	---	22.0	18.5	20.0
19							---	---	---	19.5	19.0	19.0
20							---	---	---	20.0	18.5	19.5
21							---	---	---	19.0	17.0	18.5
22							---	---	---	17.0	16.5	17.0
23							---	---	---	---	---	---
24							21.0	18.5	20.0	---	---	---
25							22.5	17.0	19.5	---	---	---
26							24.0	17.5	20.5	---	---	---
27							25.5	19.0	22.0	---	---	---
28							28.5	21.0	24.5	17.0	15.0	16.0
29							29.5	22.5	25.5	16.5	16.0	16.5
30							26.0	21.5	23.5	16.5	15.0	15.5
31							23.5	21.5	22.5	---	---	---
MONTH							29.5	17.0	22.5	27.5	15.0	20.0

HUDSON RIVER BASIN

01350200 WEST KILL AT NORTH BLENHEIM, NY

LOCATION.--Lat 42°28'07", long 74°27'34", Schoharie County, Hydrologic Unit 02020005, on left bank 75 ft (23 m) upstream from highway bridge on State Highway 30, in North Blenheim, 100 ft (30 m) downstream from Mill Creek and 0.2 mi (0.3 km) upstream from mouth.

DRAINAGE AREA.--44.6 mi² (115.5 km²).

PERIOD OF RECORD.--July 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 810 ft (247 m), from topographic map.

REMARKS.--Records fair except those for winter periods, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,100 ft³/s (343 m³/s) Oct. 18, 1975, gage height, 5.91 ft (1.801 m) from rating extended above 2,700 ft³/s (76 m³/s); maximum gage height, 6.08 ft (1.853 m) Mar. 14, 1977; minimum discharge, 1.4 ft³/s (0.040 m³/s) Aug. 24, 1975; minimum gage height, 0.68 ft (0.207 m) July 25, 1977.

EXTREMES FOR CURRENT YEAR: Peak discharges above base of 2,000 ft³/s (57 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	0245	*†6,270 178	*6.08 1.853	Apr. 24	2130	2,150 60.9	4.11 1.253
Mar. 30	1700	3,760 106	4.99 1.521	Sept. 26	1200	2,450 69.4	4.31 1.314

† From rating curve extended above 2,700 ft³/s (76 m³/s) on basis of velocity-area study.

Minimum discharge, 3.0 ft³/s (0.085 m³/s) July 25, gage height, 0.68 ft (0.207 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	107	35	16	7.0	140	466	97	19	6.8	5.8	5.9
2	7.6	85	50	14	7.0	97	343	85	23	5.8	8.1	6.8
3	6.9	81	38	14	7.0	74	240	76	18	5.3	5.6	6.3
4	6.3	94	92	14	7.0	84	328	65	15	4.9	4.6	6.8
5	5.7	81	110	17	7.0	290	240	103	13	4.9	4.2	5.6
6	5.1	80	92	17	6.0	260	209	75	12	5.4	4.9	7.3
7	5.1	81	150	17	6.0	155	170	60	16	5.8	6.8	6.3
8	16	76	120	17	6.0	128	149	53	14	5.8	6.1	5.1
9	671	65	66	17	6.0	200	118	114	15	6.1	5.1	4.5
10	184	64	66	17	6.0	400	109	256	57	5.1	5.6	4.1
11	100	58	84	17	6.0	300	103	432	26	4.9	4.8	3.8
12	73	53	60	14	8.0	2000	101	351	18	4.6	16	3.5
13	64	51	47	12	10	3800	95	222	14	15	12	4.1
14	120	48	37	10	12	3620	87	158	12	10	12	17
15	88	46	45	10	12	1190	72	126	12	7.5	12	15
16	74	44	45	10	10	687	62	103	10	6.1	7.8	18
17	60	41	42	12	12	416	56	87	9.1	5.6	40	49
18	51	41	33	12	14	240	51	75	9.4	5.1	26	27
19	48	41	26	12	10	209	46	231	21	4.8	13	121
20	90	42	26	12	10	161	41	103	12	4.5	10	1010
21	504	38	35	10	10	141	39	87	13	4.2	8.3	307
22	180	35	31	10	10	126	37	70	11	3.9	11	152
23	133	32	29	10	10	108	76	57	9.1	3.5	13	109
24	123	30	28	8.0	12	107	1440	49	8.9	3.2	9.7	231
25	141	23	28	8.0	180	91	968	46	12	4.9	9.7	637
26	190	32	26	8.0	140	89	424	37	18	9.4	7.8	1140
27	123	51	24	8.0	160	89	250	32	11	5.4	6.6	408
28	102	48	22	7.0	220	121	185	27	8.3	4.3	5.9	218
29	92	54	21	7.0	---	1040	141	24	8.6	3.9	5.4	155
30	81	25	20	7.0	---	2110	114	22	8.6	4.2	5.4	114
31	138	---	18	7.0	---	1770	---	19	---	4.6	5.6	---
TOTAL	3491.1	1647	1546	371.0	911.0	20843	6760	3342	454.0	216.9	342.0	4798.1
MEAN	113	54.9	49.9	12.0	32.5	672	225	108	15.1	7.00	11.0	160
MAX	671	107	150	17	220	3800	1440	432	57	4.6	4.8	1140
MIN	5.1	23	18	7.0	6.0	74	37	19	8.3	3.2	4.2	3.5
CFSM	2.53	1.23	1.12	.27	.73	15.1	5.04	2.42	.34	.16	.25	3.59
IN.	2.91	1.37	1.29	.31	.76	17.38	5.64	2.79	.38	.18	.29	4.00
CAL YR 1976 TOTAL	36618.9			MEAN 100	MAX 1650	MIN 3.7	CFSM 2.24	IN 30.54				
WTR YR 1977 TOTAL	44722.1			MEAN 123	MAX 3800	MIN 3.2	CFSM 2.76	IN 37.30				

HUDSON RIVER BASIN

91

01350355 SCHOHARIE CREEK AT BREAKABEEN, NY

LOCATION.--Lat 42°32'10", long 74°24'40", Schoharie County, Hydrologic Unit 02020005, on left bank 100 ft (30 m) downstream from bridge on State Highway 30, 0.9 mi (1.4 km) north of Breakabeen, and 1.1 mi (1.8 km) downstream from Keyser Kill.

DRAINAGE AREA.--471 mi² (1,220 km²).

PERIOD OF RECORD.--July 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 700 ft (213.4 m), from topographic map.

REMARKS.--Records good except those for winter periods, which are poor. Regulation of flow by Blenheim-Gilboa Pumped Storage Project. Entire flow, runoff from 314 mi² (813 km²), except for periods of spill, Nov. 6-23, Nov. 28 to Dec. 1, Dec. 7-28, Mar. 5 to May 26, and Sept. 28-30, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of City of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,700 ft³/s (671 m³/s) Mar. 14, 1977, gage height, 12.98 ft (3.956 m); minimum, 10 ft³/s (0.28 m³/s) Sept. 18, 19, 1975, gage height, 0.63 ft (0.192 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,700 ft³/s (671 m³/s) Mar. 14, gage height, 12.98 ft (3.956 m); minimum, 14 ft³/s (0.40 m³/s) Oct. 8, minimum gage height, 0.67 ft (0.204 m) July 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	288	125	92	31	300	5120	1000	72	23	18	19
2	19	167	84	90	29	220	3070	749	76	21	34	21
3	18	161	88	88	30	160	3130	903	52	20	25	20
4	17	155	80	86	35	186	2610	789	47	19	24	21
5	15	183	82	80	40	2430	2490	789	41	19	21	20
6	15	236	84	78	40	2500	3200	773	36	19	18	20
7	15	448	1200	78	40	1310	2700	362	39	20	18	21
8	15	559	2600	76	35	710	2200	258	42	20	20	20
9	1000	497	977	76	30	826	1800	601	38	20	18	19
10	400	401	664	74	29	2250	1500	1310	100	20	18	18
11	170	335	885	72	32	2990	1300	2530	81	19	100	17
12	135	300	541	60	35	3190	995	3440	57	83	98	17
13	117	280	416	40	45	8620	1150	2940	59	61	77	17
14	149	225	240	35	50	18200	1380	2330	63	54	68	26
15	164	189	459	30	37	8700	1090	1840	37	31	44	42
16	133	193	339	29	31	4740	928	1470	32	21	31	31
17	113	189	321	28	28	3050	733	1250	28	20	197	96
18	101	186	304	28	28	2120	718	1000	27	19	145	76
19	90	186	170	35	28	1750	498	1270	40	18	56	436
20	110	152	176	110	28	1430	455	1040	32	18	38	1510
21	848	143	353	100	30	1400	207	823	46	17	31	749
22	296	146	176	92	35	1390	119	806	32	17	35	436
23	232	135	110	86	50	1150	128	541	27	16	38	326
24	173	108	100	80	130	1010	2530	226	24	16	34	336
25	232	78	90	80	540	848	3700	346	24	17	30	1180
26	391	78	86	92	320	789	2390	222	33	23	27	1560
27	276	84	100	94	290	895	1920	98	28	20	23	863
28	196	96	110	78	400	1150	1650	96	24	18	21	928
29	155	117	100	78	---	4570	1340	71	25	17	20	936
30	141	155	100	56	---	11300	1140	65	27	16	26	448
31	236	---	96	40	---	11300	---	61	---	17	21	---
TOTAL	5993	6470	11256	2161	2476	101484	52191	29999	1289	739	1374	10229
MEAN	193	216	363	69.7	88.4	3274	1740	968	43.0	23.8	44.3	341
MAX	1000	559	2600	110	540	18200	5120	3440	100	83	197	1560
MIN	15	78	80	28	28	160	119	61	24	16	18	17
CAL YR 1976	TOTAL	213288	MEAN 583	MAX	5420	MIN 11						
WTR YR 1977	TOTAL	225661	MEAN 618	MAX	18200	MIN 15						

HUDSON RIVER BASIN

01351500 SCHOHARIE CREEK AT BURTONSVILLE, NY

LOCATION.--Lat 42°48'00", long 74°15'48", Schenectady County, Hydrologic Unit 02020005, on right bank 0.4 mi (0.6 km) south of Burtonsville, 2.7 mi (4.3 km) north of Esperance, and 13.5 mi (21.7 km) upstream from mouth.

DRAINAGE AREA.--883 mi² (2,287 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 507.98 ft (154.832 m) above sea level, unadjusted.

REMARKS.--Records good except those for winter periods and period of no gage-height record, Mar. 9 to June 8, which are poor. Regulation of flow by Blenheim-Gilboa Pumped Storage Project. Entire flow, runoff from 314 mi² (813 km²), except for periods of spill, Nov. 6-23, Nov. 28 to Dec. 1, Dec. 7-28, Mar. 5 to May 26, Sept. 28-30, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of City of New York.

AVERAGE DISCHARGE.--38 years, 979 ft³/s (27.73 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,500 ft³/s (2,170 m³/s) Oct. 16, 1955, gage height, 12.39 ft (3.776 m); minimum, 2.4 ft³/s (0.068 m³/s) Sept. 24, 25, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of March 1936 and September 1938 reached stages of 10.5 (3.20 m) and 10.2 ft (3.11 m), respectively, from information furnished by local resident. However, flood of October 1903 is known to have reached a higher stage than the 1936 or 1938 flood.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 35,500 ft³/s (1,010 m³/s) Mar. 14, gage height, 7.89 ft (2.405 m), from telemark reading by National Weather Service; minimum, 19 ft³/s (0.54 m³/s) Sept. 12, 13, gage height, 0.59 ft (0.180 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	1330	250	250	110	1300	13300	1900	280	73	29	31
2	87	856	250	240	100	1000	6400	1600	270	68	29	36
3	77	735	290	230	100	700	5800	1600	260	59	29	34
4	72	852	350	220	100	900	5000	1400	240	55	36	30
5	66	852	547	210	96	4810	4400	1500	230	52	37	29
6	66	942	665	200	96	5800	5300	1600	205	48	34	27
7	61	1210	1320	190	96	2950	4600	1400	190	47	37	26
8	75	1240	5060	180	96	2030	2900	1400	180	47	38	25
9	3150	1290	2000	180	100	2300	2700	820	148	48	35	24
10	3430	948	1360	170	100	5800	2300	3300	248	47	35	23
11	1080	932	1540	160	110	7100	2200	6500	375	44	44	22
12	630	780	1280	130	130	7000	1900	6300	256	49	78	20
13	475	743	1090	120	160	13700	1800	5000	197	75	119	21
14	762	674	544	110	200	31700	1900	4600	174	98	100	37
15	964	594	921	110	200	19200	1900	3100	168	85	89	44
16	694	560	1040	100	180	10200	1900	2400	141	75	78	59
17	556	541	714	100	160	6600	1700	2100	121	58	71	89
18	437	505	672	100	140	4300	1600	1900	112	46	190	133
19	357	519	578	110	120	3400	1600	2000	110	40	158	222
20	390	478	439	130	110	3100	1400	2100	118	35	97	1460
21	4360	428	675	150	110	2400	800	1900	117	32	72	2670
22	2360	390	583	160	120	2500	540	1500	109	29	61	1090
23	1310	374	386	160	150	2700	500	1400	102	26	60	686
24	966	335	351	140	250	2200	8200	1120	86	25	60	507
25	1210	295	326	140	1000	2100	11700	820	83	30	58	1750
26	1840	278	320	140	2300	1900	7200	870	92	32	52	3130
27	1480	298	280	150	1200	1900	4600	450	112	34	46	3610
28	1010	322	280	150	1700	1900	3400	500	97	36	41	1720
29	834	354	290	140	---	5300	2800	390	83	35	37	1640
30	710	354	270	130	---	22000	2300	380	75	32	33	1170
31	955	---	260	120	---	25000	---	380	---	30	30	---
TOTAL	30565	20009	24931	4820	9334	203990	112640	62230	4979	1490	1913	20365
MEAN	986	667	804	155	333	6580	3755	2007	166	48.1	61.7	679
MAX	4360	1330	5060	250	2300	31700	13300	6500	375	98	190	3610
MIN	61	278	250	100	96	700	500	380	75	25	29	20
CAL YR 1976	TOTAL	512760	MEAN	1401	MAX	12100	MIN	54				
WTR YR 1977	TOTAL	497266	MEAN	1362	MAX	31700	MIN	20				

HUDSON RIVER BASIN

93

01354000 MOHAWK RIVER AT TRIBES HILL, NY

LOCATION.--Lat 42°56'42", long 74°17'21", Montgomery County, Hydrologic Unit 02020004, at bridge on highway between Tribes Hill and Fort Hunter, 0.3 mi (0.5 km) downstream from Schoharie Creek.

DRAINAGE AREA.--3,096 mi² (8,019 km²).

PERIOD OF RECORD.--Water years 1973 to current year.

REMARKS.--Water-discharge data are based on records for 01357499 diversion from Mohawk River at Crescent Dam, and 01357500 Mohawk River at Cohoes.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI- FORM (7UM-MF (COL./ 100 ML)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)	TOTAL SODIUM (NA) (MG/L)
JAN 25...	0930	335	7.8	.0	3.9	13.4	93	<10	1700	--	--	--
FEB 24...	1600	345	6.9	.0	2.0	13.9	97	--	1100	45	7.3	15
MAR 25...	1000	240	7.4	.5	7.9	15.2	104	--	81400	--	--	--
APR 20...	1300	146	6.8	9.5	3.0	11.5	103	<10	280	--	--	--
MAY 24...	1530	270	7.8	23.0	3.0	9.5	112	10	<100	29	5.2	6.9
JUN 17...	0800	340	7.4	18.5	4.0	9.8	104	4	8100	--	--	--
JUL 28...	1430	275	8.4	23.5	3.0	10.4	122	160	150	--	--	--
AUG 16...	1200	295	7.9	22.5	1.0	9.5	109	15	8100	--	--	--
SEP 08...	1100	280	6.6	22.0	4.0	8.8	98	15	170	--	--	--

DATE	TOTAL PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
JAN 25...	--	--	--	--	190	6	.82	.65	.45	1.1	1.9	.06
FEB 24...	1.3	131	33	22	213	6	.86	.52	1.1	1.6	2.5	.09
MAR 25...	--	--	--	--	120	20	1.1	.28	.62	.90	2.0	.06
APR 20...	--	--	--	--	85	11	.85	.27	.33	.60	1.5	.06
MAY 24...	1.2	100	23	11	168	0	.52	.44	.15	.59	1.1	.03
JUN 17...	--	--	--	--	194	10	--	--	--	--	--	--
JUL 28...	--	--	--	--	178	8	.44	.13	.64	.77	1.2	.06
AUG 16...	--	100	32	16	182	10	.53	.21	.71	.92	1.5	.05
SEP 08...	--	--	--	--	162	5	.47	.49	.46	.95	1.4	.08

B Results based on colony count outside the acceptable range (non-ideal colony count).

HUDSON RIVER BASIN

01354000 MOHAWK RIVER AT TRIBES HILL, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FF) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)
JAN 25...	--	0	1	20	10	250	<.5	3	10	4.3	0
FEB 24...	--	0	0	60	0	240	<.5	7	20	6.2	0
MAR 25...	--	1	0	50	10	430	<.5	2	20	3.1	1
APR 20...	--	1	0	50	0	340	<.5	5	20	3.1	0
MAY 24...	--	1	0	10	3	180	.3	11	10	8.1	1
JUN 17...	--	1	0	10	4	150	1.0	8	10	--	--
JUL 28...	.01	1	0	20	3	160	.0	4	10	7.1	0
AUG 16...	.01	0	0	30	3	290	.0	8	10	6.8	2
SEP 08...	.01	0	0	10	4	290	<.5	14	20	3.5	0

HUDSON RIVER BASIN

95

01354160 MOHAWK RIVER AT LOCK 10 AT CRANESVILLE, NY

LOCATION.--Lat 42°55'03", long 74°08'31", Montgomery County, Hydrologic Unit 02020004, at Erie (Barge) Canal Lock 10, 0.2 mi (0.3 km) upstream from Evas Kill, 0.3 mi (0.5 km) west of Cranesville, and 0.8 mi (1.3 km) downstream from Terwilleger Creek.

DRAINAGE AREA.--3,220 mi² (8,340 km²).

PERIOD OF RECORD.--Water years 1969 to current year.

REMARKS.--Water-discharge data are based on records for 01357499 diversion from Mohawk River at Crescent Dam, and 01357500 Mohawk River at Cohoes.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPF - CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI- FORM (7UM-MF (CUL./ 100 ML)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)	TOTAL SODIUM (NA) (MG/L)
JAN 25...	1100	320	7.8	.0	2.8	13.1	88	<10	B700	--	--	--
FEB 24...	1400	385	7.1	.0	2.1	13.0	89	--	B750	44	7.1	17
MAR 25...	1200	215	7.2	.5	8.1	15.0	104	--	B300	--	--	--
APR 20...	1000	154	7.2	9.5	4.0	11.7	104	<10	B200	--	--	--
MAY 24...	1700	230	7.9	23.5	3.0	9.0	106	12	B100	27	4.5	7.2
JUN 17...	1000	310	7.6	19.0	3.0	9.6	104	13	B200	--	--	--
JUL 28...	1630	300	7.9	23.0	7.0	8.5	118	20	550	--	--	--
AUG 16...	0900	300	8.0	23.0	1.0	8.8	100	20	B1000	--	--	--
SEP 08...	0900	260	6.4	22.0	4.0	8.7	95	20	B25	--	--	--

DATE	TOTAL PU- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
JAN 25...	--	--	--	--	177	5	.82	.64	.13	.77	1.6	.06
FEB 24...	1.4	115	34	27	216	7	.86	.72	.24	.96	1.8	.09
MAR 25...	--	--	--	--	106	24	1.0	.14	.26	.40	1.4	.04
APR 20...	--	--	--	--	83	11	.40	.15	.35	.50	1.3	.05
MAY 24...	1.1	85	20	9.8	140	0	.43	.24	.21	.45	.88	.02
JUN 17...	--	--	--	--	178	11	--	--	--	--	--	--
JUL 28...	--	--	--	--	194	14	.39	.13	.61	.74	1.1	.05
AUG 16...	--	99	32	21	190	14	.55	.19	.79	.98	1.5	.04
SEP 08...	--	--	--	--	146	14	.55	.19	.42	.61	1.2	.10

B Results based on colony count outside the acceptable range (non-ideal colony count).

HUDSON RIVER BASIN

01354160 MOHAWK RIVER AT LOCK 10 AT CRANESVILLE, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)
JAN 25...	--	0	1	20	0	230	<.5	3	0	4.9	0
FEB 24...	--	0	0	90	10	250	<.5	6	10	6.3	0
MAR 25...	--	0	0	10	10	740	<.5	6	20	1.3	1
APR 20...	--	0	0	30	0	340	<.5	3	20	3.1	0
MAY 24...	--	1	0	20	3	120	.3	5	10	7.9	0
JUN 17...	--	2	0	10	8	170	.2	9	20	--	--
JUL 28...	.00	1	0	<10	4	290	.2	3	10	6.8	2
AUG 16...	.01	1	0	<10	2	330	.0	5	10	7.1	3
SEP 08...	.02	0	0	10	5	230	<.5	29	0	5.4	0

HUDSON RIVER BASIN

97

01354490 MOHAWK RIVER AT SCHENECTADY, NY

LOCATION.--Lat 42°49'06", long 73°57'04", Schenectady County, Hydrologic Unit 02020004, at new (1977) Schenectady-Scotia bridge, 0.5 mi (0.8 km) upstream from railroad bridge, and 1.0 mi (1.6 km) upstream from Collins Creek.

DRAINAGE AREA.--3,302 mi² (8,552 km²).

PERIOD OF RECORD.--Water years 1969 to current year.

REMARKS.--Water-discharge data are based on records for 01357499 diversion from Mohawk River at Crescent Dam, and 01357500 Mohawk River at Cohoes. Prior to January 1977, sampling site was 0.2 mi (0.3 km) upstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM (COL./100 ML)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG)	TOTAL SODIUM (NA) (MG/L)
JAN 25...	1300	325	7.8	.0	3.3	13.5	91	<10	825	--	--	--
FEB 24...	1015	390	7.0	.0	2.5	12.8	88	--	8450	46	7.8	20
MAR 24...	0900	235	7.0	1.0	9.0	14.4	102	--	2500	--	--	--
APR 21...	1440	170	6.9	12.0	3.0	10.5	100	11	8180	--	--	--
MAY 24...	1200	248	7.4	22.0	3.0	8.9	102	9	<100	27	4.5	7.6
JUN 16...	1600	375	7.2	20.5	4.0	9.5	107	5	<100	--	--	--
JUL 28...	1200	310	8.1	23.5	5.0	8.8	104	15	8700	--	--	--
AUG 15...	1630	305	7.6	25.0	1.0	8.7	105	20	200	--	--	--
SEP 07...	1500	300	7.4	22.5	4.0	9.5	112	15	860	--	--	--

DATE	TOTAL PHOSPHORUS (P) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NON-FILTERABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JAN 25...	--	--	--	--	184	4	.86	.57	.53	1.1	2.0	.05
FEB 24...	1.5	120	35	30	225	3	.87	.79	.51	1.3	2.2	.07
MAR 24...	--	--	--	--	135	20	1.0	.17	.48	.65	1.7	.05
APR 21...	--	--	--	--	90	8	.87	.20	.20	.40	1.3	.05
MAY 24...	1.1	87	20	12	148	0	.47	.21	.22	.43	.90	.02
JUN 16...	--	--	--	--	201	10	--	--	--	--	--	--
JUL 28...	--	--	--	--	200	20	.51	.06	.64	.70	1.2	.05
AUG 15...	--	100	30	17	186	4	.56	.10	.53	.63	1.2	.04
SEP 07...	--	--	--	--	108	9	.62	.16	.46	.62	1.2	.05

B Results based on colony count outside the acceptable range (non-ideal colony count).

HUDSON RIVER BASIN

01354490 MOHAWK RIVER AT SCHENECTADY, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)
JAN 25...	--	0	0	<10	0	220	<.5	6	10	4.2	0
FEB 24...	--	0	0	30	10	190	<.5	3	20	3.8	1
MAR 24...	--	1	0	10	10	910	<.5	7	20	3.0	0
APR 21...	--	1	0	20	10	290	<.5	4	20	3.0	0
MAY 24...	--	2	0	10	4	150	.4	4	20	7.1	1
JUN 16...	--	1	0	10	5	190	.3	11	10	--	--
JUL 28...	.01	1	0	10	4	240	.1	3	0	6.3	0
AUG 15...	.01	1	0	30	3	240	.0	0	10	6.3	7
SEP 07...	.01	0	0	10	4	170	.6	17	10	6.7	2

01357500 MOHAWK RIVER AT COHOES, NY

LOCATION.--Lat 42°47'07", long 73°42'29", Albany County, Hydrologic Unit 02020004, on right bank at Niagara Mohawk Power Corp. School Street powerplant in Cohoes, and 2.0 mi (3.2 km) upstream from mouth. Water-quality sampling site at bridge on State Highway 32, 0.7 mi (1.1 km) downstream from discharge station.

DRAINAGE AREA.--3,456 mi² (8,951 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1917 to current year. Monthly discharge only for some periods, published in WSP 1302. Prior to July 17, 1925, published as "at Crescent Dam".

REVISED RECORDS.--WSP 741: Drainage area. WSP 1302: 1919-23 (M). WRD NY 1974: 1970.

GAGE.--Water-stage recorder. Datum of gage is 49.13 ft (14.975 m) above mean sea level. Dec. 1, 1917, to July 16, 1925, water-stage recorder at site 1.7 mi (2.74 km) upstream at Crescent Dam at datum 130.87 ft (39.889 m) higher. July 17 to Oct. 19, 1925, powerplant gage at present site.

REMARKS.--Records fair. Total flow of Mohawk River equals flow published at Cohoes which includes small diversion for Cohoes water supply plus flow diverted at Crescent Dam to Barge Canal through Lock 6. Prior to 1925 records published as total flow. See Diversions in Hudson River Basin for regulation and diversions upstream from this station.

COOPERATION.--Diversions through Barge Canal at Lock 6 furnished by New York State Department of Transportation.

AVERAGE DISCHARGE.--7 years (1919-25), 5,820 ft³/s (164.8 m³/s), includes diversion at Lock 6; 52 years (1926-77), 5,713 ft³/s (161.8 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 143,000 ft³/s (4,050 m³/s) Mar. 6, 1964, result of release from ice jam, gage height, 23.15 ft (7.056 m), from rating curve extended above 100,000 ft³/s (2,830 m³/s); minimum, 6 ft³/s (0.17 m³/s) Sept. 18, 1941, gage height, 3.40 ft (1.036 m); minimum daily, 23 ft³/s (0.65 m³/s) Aug. 24, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 41,000 ft³/s (1,160 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 10	0345	45,100 1,277	17.42 5.310	Mar. 31	1400	67,300 1,906	19.11 5.825
Mar. 14	2015	*112,000 3,172	*21.76 6.632	Apr. 25	1115	65,100 1,844	18.96 5.779

Minimum discharge, 149 ft³/s (4.22 m³/s) Oct. 7, 8, gage height, 4.76 ft (1.451 m); minimum daily, 860 ft³/s (24.36 m³/s) July 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4040	14600	5390	3380	2240	11300	46600	7710	1760	2380	1770	2470
2	2620	13000	5680	2810	2280	8770	28100	5440	1750	1560	1600	2340
3	2670	9210	6230	3080	2530	7100	24000	4890	2360	1110	1870	2480
4	2470	9090	5310	3170	2240	6170	23100	4390	2470	879	1770	1870
5	2270	8030	4040	3350	2280	8770	19800	3740	1240	1600	2340	1930
6	2200	7740	4630	2630	2100	17700	20300	2120	1810	879	1930	1300
7	2250	7600	7710	3210	2270	15000	17600	3400	1880	1620	1690	1330
8	2630	7070	12900	3050	1730	11400	15000	2150	1620	1530	2140	1970
9	18600	5660	10800	2840	2120	10600	12600	5740	1460	1900	2120	2050
10	35500	5850	7920	2910	2000	17400	10900	10700	2240	1540	2310	1730
11	15100	5060	7430	2440	2200	26400	10100	13100	1880	1510	2910	1380
12	11500	5140	6870	2130	2350	26300	9660	9860	1630	1720	2190	2020
13	7640	4800	6080	1920	2510	39600	10100	9360	2220	1530	2290	1320
14	6720	4700	4570	2570	2500	97800	12200	7880	1440	4260	1950	2250
15	11800	4770	4150	2500	2470	85000	13200	5290	1350	3380	2150	5940
16	8280	4820	4170	2300	2880	46700	11400	5090	2040	2130	2080	3900
17	6650	4450	5260	2200	2930	31500	9860	4230	1530	1600	2120	5800
18	5260	4500	5390	2100	2570	22000	8730	4540	1830	1690	2160	8030
19	5210	4360	4840	1800	2530	17900	6380	4480	2350	2280	1710	10100
20	5190	4450	4020	2000	2500	15100	4870	4890	1870	2560	1600	18600
21	25500	4800	4040	2200	2250	12500	6110	4110	2470	2080	1710	30100
22	22200	3570	3840	2240	2100	11600	5990	3450	2620	2200	1800	15100
23	17300	3400	3960	2290	2240	13000	6810	2700	1730	1670	2200	12900
24	13800	3640	3900	2750	2270	12100	32200	3120	1990	860	2680	12300
25	14000	3880	3860	2080	3300	10600	59200	2890	2080	1850	2010	9700
26	16800	3400	3610	2590	5210	9940	43700	2670	3080	1640	2200	16600
27	12300	3340	3510	2600	10400	9550	27200	3010	3960	2710	2650	27300
28	10300	5570	3050	2590	9820	10600	18200	2600	3510	1710	2250	18200
29	7670	6720	2310	2310	---	18000	13100	2320	2780	1880	1860	14400
30	6260	5570	2240	2180	---	45700	9430	2290	2670	1360	2160	10300
31	8620	---	2250	2270	---	61700	---	2310	---	917	1990	---
TOTAL	313350	178790	159960	78620	84820	738200	536440	150470	63620	56535	64210	245710
MEAN	10110	5960	5160	2536	3029	23810	17880	4854	2121	1824	2071	8190
MAX	35500	14600	12900	3380	10400	97800	59200	13100	3960	4260	2910	30100
MIN	2200	3340	2240	1800	1730	6170	4870	2120	1240	860	1600	1300
CAL YR 1976	TOTAL	2982880	MEAN	8150	MAX	43700	MIN	1620				
WTR YR 1977	TOTAL	2670725	MEAN	7317	MAX	97800	MIN	860				

HUDSON RIVER BASIN

01357500 MOHAWK RIVER AT COHOES, NY--Continued

(01357499) Diversion, in cubic feet per second, from Mohawk River at Crescent Dam, NY, through Barge Canal at lock 6, water year October 1976 to September 1977

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	105	111	3.0	3.0	3.0	3.0	53	140	184	160	124
2	135	111	105	3.0	3.0	3.0	3.0	53	128	196	142	142
3	123	129	117	3.0	3.0	3.0	3.0	71	116	172	142	172
4	141	141	111	3.0	3.0	3.0	3.0	65	104	142	160	160
5	159	129	117	3.0	3.0	3.0	3.0	71	98	148	148	172
6	147	105	117	3.0	3.0	3.0	3.0	95	128	118	160	154
7	123	93	111	3.0	3.0	3.0	3.0	95	152	142	154	124
8	129	105	117	3.0	3.0	3.0	3.0	125	128	148	136	118
9	117	117	117	3.0	3.0	3.0	3.0	71	110	130	148	112
10	87	129	111	3.0	3.0	3.0	3.0	119	128	166	142	148
11	141	117	93	3.0	3.0	3.0	3.0	95	134	136	136	148
12	129	123	87	3.0	3.0	3.0	3.0	113	158	148	124	106
13	117	117	135	3.0	3.0	3.0	3.0	113	136	118	130	118
14	129	99	123	3.0	3.0	3.0	3.0	95	154	142	142	142
15	129	111	87	3.0	3.0	3.0	3.0	107	130	160	136	148
16	135	111	105	3.0	3.0	3.0	3.0	95	136	172	136	118
17	123	123	87	3.0	3.0	3.0	3.0	107	166	124	124	112
18	123	111	87	3.0	3.0	3.0	3.0	125	112	130	136	124
19	153	93	87	3.0	3.0	3.0	3.0	95	148	154	124	118
20	111	87	87	3.0	3.0	3.0	3.0	137	142	166	118	106
21	93	99	87	3.0	3.0	3.0	3.0	134	124	136	142	88
22	99	117	36	3.0	3.0	3.0	621	116	166	142	130	112
23	105	135	3.0	3.0	3.0	3.0	53	128	130	130	154	136
24	93	105	3.0	3.0	3.0	3.0	53	98	118	148	136	106
25	111	99	3.0	3.0	3.0	3.0	53	104	136	148	148	124
26	123	105	3.0	3.0	3.0	3.0	53	122	160	142	142	148
27	123	123	3.0	3.0	3.0	3.0	59	134	136	130	118	106
28	111	87	3.0	3.0	3.0	3.0	53	122	106	130	148	142
29	147	87	3.0	3.0	---	3.0	59	170	136	142	124	136
30	123	111	3.0	3.0	---	3.0	53	104	166	112	130	166
31	111	---	3.0	3.0	---	3.0	---	140	---	148	148	---
TOTAL	3825	3324	2262.0	93.0	84.0	93.0	1120.0	3272	4026	4504	4318	3930
MEAN	123	111	73.0	3.00	3.00	3.00	37.3	106	134	145	139	131
MAX	159	141	135	3.0	3.0	3.0	621	170	166	196	160	172
MIN	87	87	3.0	3.0	3.0	3.0	3.0	53	98	112	118	88

CAL YR 1976 TOTAL 27253.0 MEAN 74.5 MAX 621 MIN 3.0
WTR YR 1977 TOTAL 30851.0 MEAN 84.5 MAX 621 MIN 3.0

01357500 MOHAWK RIVER AT COHOES, NY

REGULATION
(see Reservoirs in Hudson River Basin)

Delta Dam.
Hinckley Reservoir.
Schoharie Reservoir.

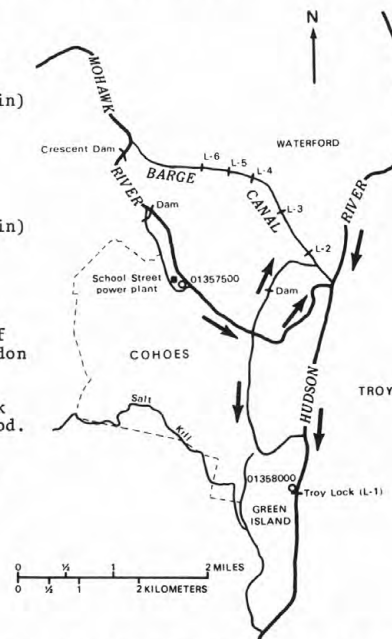
DIVERSIONS
(see Reservoirs in Hudson River Basin)

From Chenango River basin through
Oriskany Creek Feeder.

From (and occasionally into) Oswego
River basin through summit level of
Erie (Barge) Canal between New London
and Utica.

From Black River basin through Black
River Canal during navigation period.

Into Esopus Creek from Schoharie
Reservoir through Shandaken Tunnel
for New York City water supply.



01358000 HUDSON RIVER AT GREEN ISLAND, NY

REGULATION

Great Sacandaga Lake at Conklingville
(see station 01323500).
Indian Lake near Indian Lake (see
station 01314500).
Mohawk River regulation listed
under Mohawk River at Cohoes.

DIVERSIONS

Mohawk River diversions listed
under Mohawk River at Cohoes.

Into St. Lawrence River basin through:
Glens Falls feeder at Dunham Basin
(see station 01327500).
Bond Creek at Dunham Basin (see
station 01328000).
Champlain (Barge) Canal (see station
01327500).

From St. Lawrence River basin through
summit level of Champlain (Barge)
Canal at Dunham Basin.

Figure 7.--Gaging stations and diversions near mouth of Mohawk River.

01357500 MOHAWK RIVER AT COHOES, NY--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-59, 1970, 1976 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: May 1956 to June 1959.

SUSPENDED-SEDIMENT DISCHARGE: January 1954 to June 1959, August 1976 to current year.

REMARKS.--Unpublished records of once-daily specific-conductance measurements for January 1954 to June 1959 and once-daily pH measurements for January 1954 to April 1956 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,230 mg/L Oct. 17, 1955; minimum daily mean, 1 mg/L Jan. 6, 1956, Jan. 6, 7, Feb. 21, 22, 25, 1977.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 300,000 tons (272,000 Mg) Oct. 17, 1955; minimum daily, 0.8 tons (0.7 Mg) Aug. 7, 1955.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,010 mg/L Mar. 14; minimum daily mean, 1 mg/L Jan. 6, 7, Feb. 21, 22, 25.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 267,000 tons (242,000 Mg) Mar. 14; minimum daily, 5.7 tons (5.2 Mg) Feb. 22.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI- FORM (7UM-MF (COL./ 100 ML)	TOTAL CAL- CIUM (MG/L)	TOTAL MAG- NE- SIUM (MG/L)	TOTAL SODIUM (MG/L)
JAN 25...	1500	360	7.8	.0	3.0	15.5	103	<10	220	--	--	--
FEB 24...	0800	400	8.0	.0	3.8	13.9	93	--	B200	47	7.7	25
MAR 24...	1100	245	7.1	1.0	14	14.7	102	--	2000	--	--	--
APR 21...	1500	173	7.1	11.5	10	10.8	102	11	<1	--	--	--
MAY 24...	1000	174	7.5	21.5	8.0	9.2	106	10	<100	27	4.7	8.1
JUN 16...	1400	355	7.1	21.0	3.0	8.5	97	170	<100	--	--	--
JUL 28...	1030	320	7.4	23.5	6.0	7.1	83	10	1800	--	--	--
AUG 15...	1230	325	7.2	24.0	1.0	7.4	87	20	B2000	--	--	--
SEP 07...	1200	330	7.0	23.5	9.0	6.9	79	15	B68	--	--	--

DATE	TOTAL PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
JAN 25...	--	--	--	--	201	3	.86	.68	.32	1.0	1.9	.09
FEB 24...	1.9	136	35	41	258	4	1.1	.73	.37	1.1	2.2	.08
MAR 24...	--	--	--	--	131	34	.99	.18	.30	.48	1.5	.05
APR 21...	--	--	--	--	94	24	.83	.21	.29	.50	1.3	.07
MAY 24...	1.3	92	20	12	157	11	.49	.19	.16	.35	.84	.05
JUN 16...	--	--	--	--	191	11	--	--	--	--	--	--
JUL 28...	--	--	--	--	201	13	.29	.21	.43	.64	.93	.09
AUG 15...	--	110	32	23	201	5	.41	.21	.57	.78	1.2	.08
SEP 07...	--	--	--	--	190	15	.56	.35	.27	.62	1.2	.18

B Results based on colony count outside the acceptable range (non-ideal colony count).

HUDSON RIVER BASIN

01357500 MOHAWK RIVER AT COHOES, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ORTHOPHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)
JAN 25....	--	0	0	10	0	270	<.5	5	10	5.1	0
FEB 24....	--	0	0	<10	10	200	<.5	5	10	5.0	0
MAR 24....	--	0	1	<10	0	1300	<.5	9	30	2.8	0
APR 21....	--	0	0	20	0	430	<.5	5	20	2.8	0
MAY 24....	--	2	0	10	5	650	.2	8	10	7.2	1
JUN 16....	--	1	0	<10	7	550	.2	15	10	--	--
JUL 28....	.02	1	0	10	5	470	.1	7	0	6.2	3
AUG 15....	.03	1	0	40	5	660	.0	3	10	7.3	--
SEP 07....	.02	0	0	<10	5	370	<.5	15	10	6.4	0

DATE	TIME	TOTAL ALUM- INIUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
FEB , 1977												
28....	1130	420	1	1	20	0	1100	9	70	<.5	4	10
MAR												
11....	1030	2100	2	0	40	25	4600	13	180	<.5	7	40
13....	1450	2200	2	0	30	24	4800	10	160	<.5	9	30
14....	1630	15000	9	0	220	97	35000	45	980	<.5	45	200
15....	1615	6900	8	0	80	63	15000	28	440	<.5	23	90
18....	0930	700	2	1	20	10	1900	6	70	<.5	8	30

DATE	TOTAL PCB (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDO (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDO- SULFAN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)
FEB , 1977												
28....	.0	.00	.0	.00	.00	.00	--	.00	--	.00	--	.00
MAR												
11....	.0	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
13....	.0	.00	.0	.00	.00	.00	.02	.00	.00	.00	.00	.00
14....	.3	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
15....	.2	.00	.0	.00	.00	.00	.03	.00	.00	.00	.00	.00
18....	.0	.00	.0	.00	.00	.00	.02	.00	.00	.00	.00	.00

DATE	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL LINUANE (UG/L)	TOTAL MALA- THION (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
FEB , 1977											
28....	.00	.01	--	--	--	--	0	--	.00	.00	.00
MAR											
11....	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
13....	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
14....	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
15....	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00
18....	.00	.00	.00	.00	.00	.00	0	.00	.00	.00	.00

HUDSON RIVER BASIN

103

01357500 MOHAWK RIVER AT COHOES, NY--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, AUGUST 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SUS- PENDE D SEDI- MENT (MG/L)	SUS- PENDE D SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. & FINER THAN .062 MM	DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SUS- PENDE D SEDI- MENT (MG/L)	SUS- PENDE D SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. & FINER THAN .062 MM
AUG , 1976						NOV , 1976					
10...	1130	13400	36	1300	95	01...	0930	14800	17	679	99
10...	1230	13500	41	1490	90	02...	1130	13400	15	543	100
10...	1315	13400	36	1300	99	03...	2030	6440	15	278	100
10...	1320	13400	39	1410	93	04...	0930	10300	20	556	94
10...	1400	13300	39	1400	92	05...	1130	8590	22	510	94
26...	1400	3200	14	121	94	06...	1130	7820	19	401	87
27...	1530	3250	10	88	98	07...	0830	7630	16	330	96
28...	1400	3170	11	94	92	08...	1430	7210	14	273	100
29...	1015	3240	11	96	95	09...	1200	5350	12	173	75
30...	1130	4120	18	200	96	10...	1030	5040	10	163	83
SEP						11...	0930	4990	7	94	80
20...	1045	3370	14	127	98	12...	1255	5200	7	98	85
21...	1130	3180	12	103	93	13...	1000	4620	8	100	86
22...	1045	3220	13	113	95	19...	1130	3850	13	135	73
23...	0945	1660	9	40	82	20...	1130	3940	18	191	74
26...	1900	3190	13	112	97	21...	0830	4780	14	181	72
27...	1745	5600	22	333	100	22...	0930	3830	12	124	75
28...	1115	7110	13	250	100	23...	1130	3010	12	98	74
29...	1030	4100	19	210	100	24...	1030	3140	17	144	92
30...	0930	4430	30	359	84	25...	1430	3860	8	83	87
OCT						26...	2115	3680	13	129	83
01...	1130	4250	23	264	100	27...	1315	2920	8	63	98
02...	1430	3200	14	121	84	28...	0845	5240	10	141	94
03...	0845	3330	10	90	100	MAR , 1977					
04...	0930	3190	12	103	100	11...	1015	30300	134	11000	91
05...	1130	3040	12	98	100	11...	1030	30500	135	11200	99
06...	1330	3030	14	115	97	13...	1445	39500	150	16000	93
07...	0930	3150	14	119	100	13...	1450	39700	149	16000	91
08...	1130	3440	17	158	86	14...	0745	92800	412	229000	95
09...	1015	8170	29	640	91	14...	1415	105000	1700	340000	93
09...	1400	15600	75	3160	100	14...	1535	107000	1280	370000	83
10...	0900	42300	139	15900	100	14...	1630	108000	1220	356000	91
10...	1815	26300	118	8380	98	14...	1635	108000	1250	364000	90
11...	0930	15200	77	3160	100	14...	1645	109000	1230	362000	86
11...	1415	14200	66	2530	100	14...	1730	109000	1290	380000	86
12...	1130	10100	84	2290	100	14...	2100	111000	1130	354000	91
12...	1800	10500	91	2580	94	15...	0940	89800	706	171000	92
13...	1030	7350	76	1510	98	15...	1400	78000	513	108000	86
14...	0930	5510	46	684	99	15...	1610	72600	505	99000	93
15...	1130	14600	50	1970	100	15...	1615	72600	501	98200	83
15...	1600	8200	34	753	98	15...	1620	72600	481	94300	93
16...	1845	8820	20	476	100	15...	1800	73000	431	85000	87
17...	1800	5050	19	259	100	15...	2045	67100	356	64500	92
18...	0930	4780	24	310	93	15...	0945	47200	196	25000	93
19...	1130	5200	22	309	100	16...	1645	42600	147	16900	88
20...	1000	4950	20	267	96	18...	0920	22100	52	3100	94
21...	0930	22700	25	1530	97	18...	0930	22100	53	3160	98
21...	1600	35800	67	6480	99	30...	1630	48100	291	37800	92
21...	2200	37700	140	14300	98	31...	0930	64000	345	59600	83
22...	1130	23400	74	4680	100	31...	1645	64800	408	71400	96
22...	1945	12100	78	2550	100	APR					
23...	1415	18000	58	2820	100	01...	0930	49100	170	22500	88
24...	1800	12800	62	2140	98	01...	1930	38200	119	12300	98
25...	0930	16100	42	1830	100	25...	1630	63600	324	55600	95
26...	1930	18400	32	1590	99	26...	0930	42000	103	11700	95
27...	1030	11400	32	.985	90	26...	1615	39400	107	11400	96
28...	0930	10000	22	594	96	27...	1645	24600	25	1660	98
29...	1130	8610	21	488	90	MAY					
30...	1330	6060	17	278	92	10...	0930	10800	40	1170	90
31...	1815	7650	17	351	100						

HUDSON RIVER BASIN

01357500 MOHAWK RIVER AT COHOES, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
MAR , 1977								
11...	1030	30500	136	11200	49	65	82	94
13...	1445	39500	150	16000	42	50	65	79
14...	0745	92800	912	229000	42	42	55	61
14...	1415	105000	1200	340000	36	39	52	66
14...	1630	108000	1220	356000	34	39	50	63
14...	1635	108000	1250	364000	37	38	51	64
14...	2100	111000	1180	354000	30	40	53	65
15...	0940	89800	706	171000	40	44	55	61
15...	1610	72600	505	99000	36	45	57	70
15...	1620	72600	481	94300	--	--	--	--
18...	0930	22100	53	3160	--	--	--	--
31...	1645	64800	408	71400	40	45	59	73
APR								
01...	1930	38200	119	12300	--	--	--	--
25...	1630	63600	324	55600	43	43	56	70

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
MAR , 1977							
11...	98	99	99	100	--	--	--
13...	88	93	94	95	96	98	100
14...	80	95	98	99	100	--	--
14...	78	93	99	100	--	--	--
14...	75	91	98	98	99	99	100
14...	76	90	97	98	98	99	100
14...	80	91	98	99	100	--	--
15...	76	92	98	99	100	--	--
15...	80	93	98	99	99	100	--
15...	--	93	98	98	100	--	--
18...	--	98	99	100	--	--	--
31...	86	96	100	--	--	--	--
APR							
01...	--	98	100	--	--	--	--
25...	83	95	99	99	99	100	--

HUDSON RIVER BASIN

105

01357500 MOHAWK RIVER AT COHOES, NY--Continued

SUSPENDED SEDIMENT, AUGUST AND SEPTEMBER 1976

DAY	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN- TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1									---	---	15	90
2									---	---	17	107
3									---	---	14	96
4									---	---	22	159
5									---	---	16	112
6									---	---	12	59
7									---	---	16	70
8									---	---	18	91
9									---	---	24	133
10									---	---	18	121
11									---	---	17	112
12									---	---	14	91
13									---	---	17	113
14									---	---	10	66
15									---	---	14	72
16									---	---	15	98
17									---	---	11	71
18									---	---	13	79
19									---	---	16	168
20									---	---	14	102
21									---	---	12	81
22									---	---	13	89
23									---	---	9	56
24									---	---	10	53
25									---	---	11	64
26									14	86	13	81
27									10	60	22	220
28									11	65	13	236
29									11	73	19	233
30									18	195	30	357
31									21	189	---	---
TOTAL									---	668	---	3480

01357500 MOHAWK RIVER AT COHOES, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)					
OCTOBER			NOVEMBER			DECEMBER			JANUARY			FEBRUARY			MARCH		
1	23	251	17	670	4	116	4	37	2	12	21	641					
2	14	99	15	526	11	169	4	30	2	12	26	616					
3	10	72	16	398	30	505	2	17	2	14	20	383					
4	12	80	20	491	32	459	3	26	2	12	15	250					
5	12	74	22	477	21	229	4	36	2	12	22	521					
6	14	83	19	397	17	213	1	7.2	2	11	82	3920					
7	14	85	16	328	22	458	1	8.7	2	12	53	2150					
8	17	121	14	267	32	1110	2	16	2	9.3	21	646					
9	76	3820	12	183	37	1080	2	15	2	11	14	401					
10	138	13200	10	158	23	492	2	16	2	11	26	1250					
11	75	3060	7	96	16	421	2	13	2	12	135	9620					
12	79	2450	7	97	12	223	2	12	2	13	137	9730					
13	75	1550	8	104	13	213	2	10	2	14	174	22000					
14	49	889	16	203	11	136	2	14	2	13	1010	267000					
15	46	1470	8	103	6	67	2	13	2	13	655	150000					
16	21	469	8	104	9	101	2	12	2	16	191	24100					
17	19	341	12	144	6	85	2	12	2	16	93	7910					
18	23	327	9	109	6	87	2	11	2	14	54	3210					
19	22	309	13	153	15	196	2	9.7	4	27	33	1590					
20	20	280	18	216	4	43	2	11	2	13	25	1020					
21	59	4060	14	131	4	44	2	12	1	6.1	25	844					
22	86	5150	12	116	4	41	2	12	1	5.7	21	658					
23	63	2940	12	110	3	32	2	12	3	18	35	1230					
24	60	2240	17	167	5	53	2	15	6	37	19	621					
25	43	1630	8	84	4	42	2	11	1	8.9	24	687					
26	32	1450	13	119	5	49	2	14	8	113	21	564					
27	30	996	8	72	4	38	2	14	17	477	18	464					
28	22	612	10	150	4	33	2	14	17	451	16	458					
29	21	435	12	218	6	37	2	12	---	---	25	1220					
30	17	287	10	150	6	36	2	12	---	---	186	23000					
31	17	396	---	---	4	24	2	12	---	---	346	57600					
TOTAL	---	49226	---	6591	---	6732	---	466.6	---	1384.0	---	594304					
DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)					
APRIL			MAY			JUNE			JULY			AUGUST			SEPTEMBER		
1	168	21100	35	729	13	62	15	96	8	38	12	80					
2	29	2200	20	294	13	61	14	59	7	30	9	57					
3	21	1360	20	264	15	96	7	21	9	45	11	74					
4	22	1370	21	249	18	120	7	17	12	57	10	50					
5	30	1600	25	252	13	44	7	30	16	101	12	63					
6	25	1370	18	103	25	122	15	36	26	135	9	32					
7	22	1050	20	184	27	137	11	48	14	64	6	22					
8	22	891	38	221	19	83	8	33	9	52	11	59					
9	16	544	24	372	16	63	10	51	8	46	8	44					
10	11	324	35	1010	21	127	14	58	11	69	8	37					
11	12	327	29	1030	13	66	15	61	9	71	35	130					
12	14	365	24	639	16	70	25	116	19	112	83	453					
13	18	491	32	809	17	102	36	149	21	130	44	157					
14	16	527	32	681	15	58	28	322	8	42	54	328					
15	18	642	24	343	13	47	9	82	26	151	22	353					
16	20	616	23	316	16	88	7	40	25	140	17	179					
17	20	532	18	206	17	70	4	17	30	172	25	391					
18	21	495	13	159	14	69	5	23	28	163	34	737					
19	26	448	11	133	14	89	7	43	15	69	38	1040					
20	28	368	10	132	12	61	10	69	36	156	53	2660					
21	40	660	11	122	16	107	6	34	20	92	72	5850					
22	32	518	17	158	7	50	30	178	36	175	51	2080					
23	30	552	7	51	10	47	2	9.0	26	154	48	1670					
24	78	7930	6	51	12	64	4	9.3	29	210	132	4380					
25	270	43200	14	109	14	79	16	80	40	217	104	2720					
26	118	13900	16	115	10	83	9	40	143	849	50	2240					
27	47	3450	9	73	14	150	8	59	78	558	57	4200					
28	37	1820	9	63	14	133	10	46	36	219	46	2260					
29	36	1270	13	81	12	90	17	86	8	40	45	1750					
30	31	789	10	62	16	115	24	88	23	134	28	779					
31	---	---	5	31	---	---	7	17	19	102	---	---					
TOTAL	---	110709	---	9042	---	2553	---	2017.3	---	4593	---	34875					

HUDSON RIVER BASIN

107

01358000 HUDSON RIVER AT GREEN ISLAND, NY
(National stream-quality accounting network station)
(National pesticide network station)

LOCATION.--Lat 42°45'08", long 73°41'22", Albany County, Hydrologic Unit 02020003, on right bank at Green Island, just upstream from Troy lock and dam, and 0.5 mi (0.8 km) downstream from 5th branch Mohawk River. Water-quality sampling site at bridge on State Highway 7, 1.7 mi (2.7 km) downstream from discharge station.

DRAINAGE AREA.--8,090 mi² (20,953 km²), approximately (including that above site of former auxiliary gage).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 0.31 ft (0.094 m) below mean sea level (Corps of Engineers bench mark). From July 1, 1946 to Mar. 12, 1962 auxiliary water-stage recorder on bypass channel at datum 10.59 ft (3.228 m) higher.

REMARKS.--Records fair. Records include flow over spillway, estimates of flow through lock, and flow through power-plant. Powerplant, located on right bank just downstream from gage, was inoperative from Nov. 20, 1960 to Feb. 23, 1971. See Diversions in Hudson River Basin for regulation and diversions upstream from this station.

AVERAGE DISCHARGE.--31 years, 13,690 ft³/s (387.7 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 181,000 ft³/s (5,130 m³/s) Dec. 31, 1948, gage height, 27.05 ft (8.245 m), from high-water mark in gage well; maximum daily, 152,000 ft³/s (4,305 m³/s) Mar. 14, 1977; minimum daily, 882 ft³/s (25.0 m³/s) Sept. 2, 1968; minimum gage height 13.92 ft (4.243 m) Sept. 2, 1946.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 19, 1936, reached a stage of 29.48 ft (8.986 m) at gage on opposite bank, from information by Corps of Engineers (discharge, 215,000 ft³/s or 6,090 m³/s). Flood of Mar. 28, 1913, prior to construction of Sacandaga Reservoir and Troy lock and dam, reached a stage about 0.2 ft (0.06 m) higher upstream from former dam near same site. Downstream from dams, flood in 1913 was about 3.3 ft (1.01 m) higher than flood in 1936, from information by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 175,000 ft³/s (4,956 m³/s) Mar. 14, gage height, 26.53 ft (8.086 m); minimum daily, 3,220 ft³/s (91.2 m³/s) Sept. 12; minimum gage height, 14.53 ft (4.429 m) Aug. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12900	31500	15100	10300	7550	20700	80600	30200	7870	6640	3730	6140
2	10600	27300	15100	9590	7860	16400	57700	27500	6490	5300	6720	5780
3	10500	23000	14400	7420	7680	13400	49000	20600	8280	4230	5590	5180
4	10000	24800	14100	10200	7030	12700	46200	17400	7860	4060	5160	4310
5	9460	22500	11500	10300	7000	21200	42800	17000	6460	3790	5460	3780
6	10100	22500	9850	9420	6660	31100	50600	13900	5880	5570	4730	4540
7	9610	22600	15300	8960	5940	24100	44400	15100	7940	6070	4450	4750
8	11300	18800	26200	8830	7050	20500	37400	13000	9140	4900	3320	4640
9	32200	18000	23900	8180	6960	20800	31400	15600	6920	5360	5420	4920
10	60600	19300	17500	6960	7260	31400	28100	26300	7470	4950	4480	4230
11	34400	17900	18800	8700	6780	45500	24700	28100	7820	4630	4220	3460
12	27000	17000	20100	8760	7040	43300	24700	24400	6710	7880	7650	3220
13	23600	16500	15600	7040	7920	65100	25600	24900	6240	7660	7860	3310
14	21000	17200	12200	7750	4540	152000	30600	21900	8860	9720	7460	4850
15	26400	16300	13700	7820	8030	147000	35000	17500	6480	8420	4230	11600
16	21100	16100	14600	7580	8100	92700	32700	14700	6640	6440	5380	9890
17	18700	16000	15700	7320	8170	70600	29500	14300	6650	5710	4490	11600
18	14700	15700	15200	7510	5960	53700	25500	13900	6010	4530	4920	15100
19	15600	15400	13800	7780	6740	42700	21900	14700	5990	5940	5960	16000
20	15800	16100	9070	7610	6520	35500	19000	16500	5590	7930	6420	27100
21	39600	15100	15200	7530	5540	31600	19500	14000	7820	7100	5310	43400
22	41700	13800	12900	7720	5760	28700	17700	12600	8440	4960	4230	25400
23	34800	13000	10600	7560	7390	30100	19500	10900	6070	4440	5680	21800
24	29700	13800	11500	5830	7320	27700	54300	11600	6010	4450	7040	19900
25	29500	13700	11800	6820	10300	22500	96100	11600	6110	5620	6150	17200
26	32800	13100	11200	8370	12000	21300	85000	9730	8420	5470	6640	24600
27	29000	13000	9000	8540	16700	20300	63600	9880	11200	6600	7500	40800
28	24500	14400	10600	7540	17100	22500	49500	9190	10200	5430	6310	32900
29	21700	17400	10800	7180	---	32000	40400	7860	8420	4810	3530	28900
30	19000	16100	10400	6840	---	65000	33900	5880	7750	4660	4390	23000
31	22400	---	10700	4690	---	87600	---	5960	---	4510	4160	---
TOTAL	720270	537900	436420	246650	224900	1349800	1216900	496700	219760	177780	168610	432300
MEAN	23230	17930	14080	7956	8032	43540	40560	16020	7325	5735	5439	14410
MAX	60600	31500	26200	10300	17100	152000	96100	30200	11200	9720	7860	43400
MIN	9460	13000	9000	4690	4540	12700	17700	5880	5590	3790	3320	3220
CAL YR 1976 TOTAL	7799740			21310		99900		6320				
WTR YR 1977 TOTAL	6227990			17060		152000		3220				

HUDSON RIVER BASIN

01358000 HUDSON RIVER AT GREEN ISLAND, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1954 to current year.

REMARKS.--Daily water-temperature measurements (at 0800 hours) made at Troy lock and dam. Prior to October 1968 sampling site at old bridge on State Highway 7 about 100 ft (33 m) upstream, and between April 1971 and September 1973 sampling site at bridge on road between Green Island and Troy at Starbuck Island. No record Dec. 7 to Aug. 24 (stream frozen during winter period).

COOPERATION.--Water-temperature record furnished by the Corps of Engineers.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily (water years 1955-76), 28.5°C July 27-30, 1963; minimum, freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Minimum, freezing point on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)
OCT										
14...	1200	E21000	150	8.1	23	11.4	100	--	B360	--
NOV										
29...	1330	E17400	195	7.1	5	13.2	100	86500	--	B1000
MAR										
17...	1100	E70600	148	6.9	37	14.9	107	11000	--	B2600
APR										
19...	1130	E21900	107	7.4	3	12.2	105	324000	--	B1200
MAY										
19...	1200	E14700	156	6.9	3	9.8	105	820	--	B200
JUN										
21...	1100	E7820	215	7.7	1	8.8	100	82000	--	230
JUL										
26...	1200	E5470	219	6.7	1	8.0	88	81700	--	B100
AUG										
11...	1100	E4220	250	7.6	1	8.8	104	9400	--	B100
31...	1100	E4160	155	6.9	4	8.3	95	53000	--	B2200

DATE	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT										
14...	62	11	19	3.6	3.6	1.4	62	0	51	11
NOV										
29...	77	13	24	4.1	6.3	.9	78	0	64	17
MAR										
17...	52	13	16	3.0	3.9	1.2	48	0	39	8.3
APR										
19...	45	12	14	2.5	3.3	.6	40	0	33	8.3
MAY										
19...	64	22	20	3.4	5.6	.9	51	0	42	15
JUN										
21...	77	24	23	4.7	9.2	1.1	64	0	53	20
JUL										
26...	80	24	24	4.8	8.6	1.1	68	0	56	23
AUG										
11...	93	22	29	4.9	11	1.7	86	0	71	22
31...	65	27	20	3.6	8.7	1.1	46	0	38	21

B Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated.

HUDSON RIVER BASIN

109

01358000 HUDSON RIVER AT GREEN ISLAND, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF TUEENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 14...	5.3	.1	5.8	91	81	.33	.50	.83	.10	--
NOV 29...	10	.1	4.8	112	106	.49	.43	.92	.04	7.6
MAR 17...	6.2	.1	4.0	80	67	.79	.74	1.5	.09	6.7
APR 19...	5.6	.1	4.3	76	58	.64	.40	1.0	.05	--
MAY 19...	7.9	.0	3.5	94	82	.47	.61	1.1	.04	6.8
JUN 21...	13	.0	2.9	143	105	.86	.70	1.6	.06	--
JUL 26...	11	.1	1.7	134	108	--	--	--	--	--
AUG 11...	17	.0	1.5	170	130	.35	1.1	1.5	.06	5.8
AUG 31...	11	.1	3.0	108	91	.52	.51	1.0	.05	--

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
NOV 29...	1330	0	0	1	0	<10	<10	0	0	0	10	380
MAR 17...	1100	2	0	1	1	10	<10	2	0	10	0	2700
MAY 19...	1200	1	1	0	0	<10	1	0	0	2	4	270
AUG 11...	1100	--	0	22	16	10	1	3	0	50	13	210

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV 29...	70	9	6	40	30	<.5	<.5	0	0	10	30
MAR 17...	110	20	6	110	30	<.5	<.5	1	0	40	0
MAY 19...	80	11	3	30	0	.4	.0	0	0	10	0
AUG 11...	50	19	3	60	10	--	.0	--	0	50	10

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON) METHOD (PC/L)	DIS-SOLVED NATURAL URANIUM (U) (UG/L)	DIS-SOLVED URANIUM (U) (UG/L)
MAR 17...	1100	<1.2	7.2	2.9	4.4	2.3	3.5	.03	--	.05
MAY 19...	1200	<1.2	<.4	2.6	.7	2.1	.7	.32	.0	.07

HUDSON RIVER BASIN

01358000 HUDSON RIVER AT GREEN ISLAND, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ALDRIN (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELURIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)
NOV 29...	1330	7.6	ND	ND	ND	ND	ND	ND	ND	ND
MAR 17...	1100	6.7	ND	ND	ND	ND	ND	ND	ND	ND
MAY 19...	1200	6.8	ND	ND	ND	ND	ND	ND	ND	ND
AUG 11...	1100	5.8	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA- THION (UG/L)	TOTAL METH- OXY- CHLOR (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL TRI- THION (UG/L)
NOV 29...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAR 17...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 19...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 11...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ND Material specifically analyzed for, but not detected.

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. & FINER THAN .062 MM	DATE	TIME	DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. & FINER THAN .062 MM
UCT , 1976						AUG . 1977					
14...	1200	E21000	28	E1590	98	11...	1100	E4220	17	E194	97
NOV 29...	1330	E17400	7	E329	95	31...	1100	E4100	11	E140	100
MAY , 1977											
19...	1200	E14700	13	E516	83						

E Estimated.

01358000 HUDSON RIVER AT GREEN ISLAND, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON														
DATE TIME	OCT 14,76 1200		NOV 29,76 1330		MAY 19,77 1200		JUN 21,77 1100		JUL 25,77 1200		AUG 11,77 1100		AUG 31,77 1100	
TOTAL CELLS/ML	1100		8500		3600		22000		31000		64000		8300	
DIVERSITY: DIVISION	1.2		0.4		0.5		1.2		1.5		1.2		1.0	
..CLASS	1.2		0.4		0.5		1.2		1.6		1.2		1.0	
...ORDER	1.6		0.5		1.4		1.4		1.7		1.2		1.6	
...FAMILY	2.4		1.1		2.0		1.9		2.0		1.3		1.9	
....GENUS	2.6		1.1		2.2		2.3		2.5		1.9		2.7	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)														
..CHLOROPHYCEAE														
...CHLOROCOCCALES														
...CHARACIACEAE														
...SCHROEDERIA	--	-	* 0		--	-	--	-	--	-	--	-	--	-
...COELASTRACEAE														
...COELASTRUM	--	-	--	-	--	-	--	-	--	-	--	-	95	1
...HYDRODICTYACEAE														
...PEDIATRUM	--	-	--	-	--	-	--	-	1800	6	--	-	150	2
...MICRACINIAEAE														
...GULENKINIA	--	-	--	-	--	-	250	1	180	1	--	-	* 0	
...MICRACINIUM	--	-	--	-	--	-	1300	6	180	1	--	-	--	-
...UOCYSTACEAE														
...ANKISTROUESMUS	--	-	--	-	38	1	* 0		610	2	--	-	49	1
...CHODATELLA	--	-	--	-	--	-	170	1	--	-	--	-	49	1
...DICTYOSPHAERIUM	--	-	--	-	--	-	660	3	--	-	--	-	--	-
...KIRCHNERIELLA	--	-	--	-	--	-	170	1	610	2	1000	2	85	1
...UOCYSTIS	--	-	--	-	--	-	--	-	--	-	--	-	97	1
...TETRAEDRON	--	-	--	-	--	-	--	-	--	-	--	-	* 0	
...SCENEDESMACEAE														
...ACTINASTRUM	--	-	--	-	--	-	1800	8	--	-	--	-	* 0	
...SCENEDESMUS	38	4	--	-	--	-	1200	6	880	3	1000	2	240	3
...TETRASTRUM	--	-	--	-	--	-	660	3	350	1	--	-	--	-
...VOLVOCALES														
...CHLAMYDOMONADACEAE														
...CHLAMYDOMONAS	--	-	--	-	110	3	580	3	--	-	--	-	--	-
...VOLVOCAEAE														
...GONIUM	--	-	--	-	250	7	--	-	--	-	--	-	--	-
...ZYGNEMATALES														
...UESMIDIACEAE														
...COSMANIUM	--	-	--	-	--	-	--	-	--	-	--	-	* 0	
CHRYSOPHYTA														
..BACILLARIOPHYCEAE														
...CENTRALES														
...COSCINODISCACEAE														
...CYCLOTELLA	67	6	* 0		2100#	59	13000#	60	* 0		4200	7	120	1
...MELOSIRA	180#	17	240	3	--	-	170	1	12000#	40	29000#	46	750	9
...STEPHANODISCUS	--	-	--	-	--	-	* 0		180	1	* 0		* 0	
...PENNALES														
...ACHNANTHACEAE														
...ACHNANTHES	--	-	--	-	19	1	--	-	--	-	--	-	--	-
...CUCCONEIS	10	1	* 0		--	-	--	-	* 0		--	-	--	-
...RHODICOSPHEVIA	10	1	--	-	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE														
...AMPHORA	--	-	--	-	--	-	* 0		--	-	--	-	--	-
...CYMBELLA	38	4	--	-	38	1	--	-	--	-	--	-	--	-
...EPITHEMIA	--	-	* 0		--	-	--	-	--	-	--	-	--	-
...DIATOMACEAE														
...DIATOMA	--	-	270	3	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE														
...ASTERIONELLA	--	-	--	-	57	2	--	-	--	-	--	-	--	-
...FRAGILARIA	* 0		* 0		590#	16	--	-	--	-	--	-	--	-
...SYNEORA	--	-	--	-	38	1	170	1	--	-	* 0		* 0	
...GOMPHUNEMATACEAE														
...GOMPHONEMA	29	3	* 0		110	3	--	-	--	-	* 0		--	-
...MERIDIONACEAE														
...MERIDION	--	-	--	-	--	-	--	-	--	-	--	-	* 0	
...NAVICULACEAE														
...NAVICULA	120	11	78	1	76	2	* 0		--	-	--	-	49	1
...STAURONEIS	--	-	* 0		--	-	--	-	--	-	--	-	--	-
...NITZSCHIAEAE														
...NITZSCHIA	10	1	--	-	130	4	--	-	--	-	--	-	* 0	
...SURIARELLACEAE														
...SURIARELLA	--	-	--	-	19	1	--	-	--	-	--	-	--	-
...TABELLARIACEAE														
...TABELLARIA	10	1	--	-	--	-	--	-	--	-	--	-	--	-
..CHRYSOPHYCEAE														
...CHRYSOMONADALES														
...MALLOMONADACEAE														
...MALLOMONAS	--	-	--	-	--	-	* 0		--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

HUDSON RIVER BASIN

01358000 HUDSON RIVER AT GREEN ISLAND, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE TIME	OCT 14,76 1200		NOV 29,76 1330		MAY 19,77 1200		JUN 21,77 1100		JUL 26,77 1200		AUG 11,77 1100		AUG 31,77 1100	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)														
..CYANOPHYCEAE														
...CHROCOCCALES														
...CHROCOCCACEAE														
....AGMENELLUM	--	-	--	-	--	-	--	-	5300#	17	6700	11	--	-
....ANACYSTIS	--	-	--	-	--	-	--	-	7300#	24	21000#	33	2300#	24
...HORMOGONALES														
...NOSTOCACEAE														
....ANABAENA	87	8	920	11	--	-	--	-	--	-	--	-	690	8
....APHANIZOMENON	*	0	--	-	--	-	--	-	--	-	--	-	--	-
...USCILLATORIACEAE														
....USCILLATORIA	480#	45	6900#	81	--	-	1200	6	610	2	--	-	260	3
...CHROCOCCALES														
...CHROCOCCACEAE														
...GUMPHOSPHAERIA	--	-	--	-	--	-	--	-	--	-	--	-	3100#	38
EUGLENOPHYTA (EUGLENOIDS)														
..CRYPTOPHYCEAE														
...CRYPTOMONIDALES														
...CRYPTOCHRYSIDACEAE														
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-	--	-	61	1
...CRYPTOMONODACEAE														
....CRYPTOMONAS	--	-	--	-	--	-	--	-	*	0	--	-	--	-
..EUGLENOPHYCEAE														
...EUGLENALES														
....EUGLENACEAE														
...TRACHELOMONAS	--	-	*	0	19	1	--	-	350	1	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

Dates of exposure	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Sept. 21 to Oct. 19	29	0.692	0.231	0.132	0.027	3490	Polyethylene strip
Apr. 26 to June 17	53	1.110	.551	.001	.001	--	Polyethylene strip
Sept. 01 to Oct. 31	61	.315	.236	.004	.001	19750	Polyethylene strip

113

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ONCE DAILY AT 0800)

[illegible]

HUDSON RIVER BASIN

01359150 MILL CREEK NEAR EAST GREENBUSH, NY

LOCATION.--Lat 42°36'45", long 73°41'45", Rensselaer County, Hydrologic Unit 02020006, on left bank, 15 ft (4.6 m) downstream from bridge on Michael Road, 0.5 mi (0.8 km) south of State Highway 151, and 1.6 mi (2.6 km) north of East Greenbush.

DRAINAGE AREA.--9.74 mi² (25.2 km²).

PERIOD OF RECORD.--November 1974 to September 1977 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (76.2 m), from topographic map (nearest 10 ft).

REMARKS.--Records good except those for winter periods, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 507 ft³/s (14.4 m³/s) Jan. 27, 1976, gage height, 5.60 ft (1.707 m); minimum, 0.63 ft³/s (0.018 m³/s) Aug. 7, 1977, gage height, 2.34 ft (0.713 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 7	1530	168 4.76	3.97 1.210	Mar. 5	0100	198 5.61	4.12 1.256
Feb. 27	2330	209 5.92	4.17 1.271	Mar. 14	0545	*496 14.0	*5.55 1.692

Minimum discharge, 0.63 ft³/s (0.018 m³/s) Aug. 7, gage height, 2.34 ft (0.713 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	16	4.5	2.3	1.2	34	24	11	2.6	1.9	2.3	1.0
2	2.1	10	4.0	2.2	1.1	25	22	10	2.8	1.7	2.0	1.0
3	2.1	10	4.0	2.1	1.1	25	23	10	2.5	1.5	1.3	1.5
4	2.0	20	4.0	2.0	1.1	28	17	8.4	2.3	1.5	1.1	1.3
5	1.8	15	4.0	2.0	1.1	118	26	14	2.2	1.5	1.1	1.1
6	1.8	18	4.5	1.9	1.1	45	31	14	3.1	1.4	1.2	1.0
7	1.8	19	30	1.9	1.1	31	19	8.9	6.4	1.4	1.6	1.0
8	2.1	15	15	1.9	1.1	31	17	7.3	5.0	1.7	1.9	.96
9	4.7	12	12	1.8	1.1	37	14	55	4.3	1.6	1.8	.96
10	25	12	9.0	1.8	1.2	45	14	73	17	1.3	2.0	.96
11	11	12	8.0	1.7	2.0	38	12	30	6.4	1.2	7.3	.89
12	7.4	9.9	7.0	1.7	10	32	10	19	4.3	2.6	2.9	.96
13	6.5	9.5	6.0	1.7	25	138	10	16	4.1	1.6	1.9	1.1
14	9.5	9.0	8.0	1.6	15	348	8.4	13	3.3	1.3	1.7	2.2
15	7.4	8.6	4.0	1.6	12	104	7.6	11	2.6	1.2	1.6	1.4
16	5.5	8.2	4.0	1.6	10	67	7.3	9.3	2.2	1.2	1.3	1.6
17	4.7	7.4	3.8	1.5	6.0	44	6.6	8.1	2.0	1.5	2.0	3.7
18	4.0	7.4	3.7	1.5	3.0	27	6.3	7.3	7.7	1.2	1.9	2.8
19	3.7	7.4	3.6	1.4	2.2	30	6.0	14	8.1	1.2	1.3	7.0
20	22	7.0	3.4	1.3	2.1	28	5.8	8.4	3.9	1.2	1.0	28
21	44	6.0	3.2	1.3	2.0	27	5.2	6.7	4.7	1.1	.96	17
22	19	6.0	3.1	1.3	2.1	37	5.2	5.5	3.3	1.0	1.5	6.7
23	13	6.0	3.0	1.3	2.5	58	18	5.0	2.3	.96	1.5	4.3
24	12	5.1	3.0	1.3	10	35	92	4.5	2.0	.96	1.3	7.3
25	14	5.1	2.9	1.3	150	30	54	4.3	2.6	1.9	1.3	17
26	23	5.1	2.8	1.2	93	29	31	3.7	3.1	1.6	1.1	22
27	15	5.1	2.7	1.2	73	38	24	3.5	2.3	1.1	1.1	17
28	12	4.7	2.6	1.2	102	49	19	3.3	1.8	1.1	1.0	8.9
29	10	6.0	2.5	1.2	---	76	14	3.1	2.8	1.0	1.0	6.1
30	4.5	5.4	2.5	1.2	---	40	12	2.9	2.6	1.0	1.0	4.5
31	19	---	2.4	1.2	---	33	---	2.8	---	1.0	1.0	---
TOTAL	360.2	287.9	173.2	49.2	533.1	1730	561.4	393.0	120.3	42.42	51.96	171.23
MEAN	11.6	9.60	5.59	1.59	19.0	55.8	18.7	12.7	4.01	1.37	1.68	5.71
MAX	47	20	30	2.3	150	348	92	73	17	2.6	7.3	28
MIN	1.8	4.7	2.4	1.2	1.1	25	5.2	2.8	1.8	.96	.96	.89
CFSM	1.19	.99	.57	.16	1.95	5.73	1.92	1.30	.41	.14	.17	.59
IN.	1.38	1.10	.66	.19	2.04	6.61	2.14	1.50	.46	.16	.20	.65
CAL YR 1976	TOTAL	6057.10	MEAN	16.5	MAX	379	MIN	1.7	CFSM	1.69	IN	23.13
WTR YR 1977	TOTAL	4473.91	MEAN	12.3	MAX	348	MIN	.89	CFSM	1.26	IN	17.09

HUDSON RIVER BASIN

115

01359513 HUNGER KILL AT GUILDERLAND, NY

LOCATION.--Lat 42°41'22", long 73°54'26", Albany County, Hydrologic Unit 02020006, on left bank, 100 ft (30 m) downstream from bridge on Nott Road, and 1.0 mi (1.6 km) south of Guilderland. Water-quality sampling site at discharge station.

DRAINAGE AREA.--8.16 mi² (21.1 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1967 to September 1977 (discontinued). Occasional low-flow measurements, water years 1962-65.

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (40 m), from topographic map.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--10 years, 12.3 ft³/s (0.348 m³/s), 20.47 in/yr (520 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135 ft³/s (3.82 m³/s) Oct. 19, 1975, gage height, 6.39 ft (1.948 m); minimum, 4.1 ft³/s (0.12 m³/s) Aug. 6, 1975; minimum gage height, 1.42 ft (0.433 m) Sept. 6, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 60 ft³/s (1.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1430	68 1.93	4.91 1.497	Apr. 24	0730	70 1.98	4.86 1.481
Mar. 14	0600	*85 2.41	*5.21 1.591				

Minimum daily discharge, 7.0 ft³/s (0.20 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	13	10	9.6	8.2	11	17	16	10	8.6	8.9	7.4
2	10	13	10	9.6	8.2	10	16	15	11	8.5	8.3	7.7
3	10	13	11	9.6	8.2	10	17	14	11	8.5	7.7	7.7
4	10	14	13	9.4	8.2	11	16	15	10	8.6	7.5	7.6
5	10	14	15	9.4	8.0	30	21	16	9.5	8.7	7.5	7.5
6	10	14	14	9.2	8.0	20	19	15	9.5	8.3	7.9	7.1
7	11	14	13	9.0	8.0	17	16	14	10	8.6	8.5	7.1
8	12	14	16	9.0	8.0	16	15	14	11	9.0	9.3	7.3
9	41	13	19	9.0	8.0	16	15	17	11	9.0	9.1	7.0
10	16	13	20	9.0	8.0	17	15	17	17	8.6	9.1	7.5
11	13	13	16	8.8	8.0	18	15	17	11	8.5	15	7.4
12	13	13	14	8.8	9.0	17	15	16	11	10	8.9	7.4
13	12	12	13	8.8	10	48	14	15	13	8.7	8.3	8.0
14	13	13	15	8.8	9.4	54	14	15	11	8.1	8.6	10
15	13	12	16	8.8	9.0	22	14	14	10	8.0	8.3	8.3
16	12	12	13	8.8	8.6	20	13	13	9.5	7.9	8.1	9.0
17	12	12	12	8.8	8.4	18	13	13	9.4	7.9	11	11
18	12	12	11	8.8	8.2	16	13	12	9.8	7.9	8.6	9.4
19	12	12	11	8.8	8.0	17	13	13	11	7.9	8.1	11
20	13	12	10	8.8	8.0	15	12	13	9.8	7.9	8.3	21
21	18	12	10	8.8	8.0	15	12	12	10	7.7	8.0	11
22	16	11	10	8.8	8.0	18	12	11	9.7	7.6	8.7	9.1
23	14	11	10	8.6	8.2	26	15	11	9.3	7.4	8.3	8.9
24	13	11	10	8.6	8.6	19	54	10	8.7	7.4	8.2	11
25	13	11	10	8.6	10	18	32	10	9.1	11	8.1	13
26	15	11	10	8.6	13	15	22	10	10	9.0	7.7	17
27	14	11	9.8	8.4	11	18	20	9.8	9.5	8.0	7.9	11
28	13	11	9.8	8.4	15	23	18	9.8	9.3	7.7	7.7	10
29	13	11	9.6	8.4	---	37	17	9.8	9.7	7.5	7.5	10
30	13	11	9.6	8.4	---	24	16	9.8	8.7	7.5	7.4	9.7
31	13	---	9.6	8.4	---	20	---	9.7	---	7.7	7.3	---
TOTAL	420	369	380.4	274.8	249.2	637	521	406.9	309.5	257.7	263.8	287.1
MEAN	13.5	12.3	12.3	8.86	8.90	20.5	17.4	13.1	10.3	8.31	8.51	9.57
MAX	41	14	20	9.6	15	54	54	17	17	11	15	21
MIN	10	11	9.6	8.4	8.0	10	12	9.7	8.7	7.4	7.3	7.0
CFSM	1.65	1.51	1.51	1.09	1.09	2.51	2.13	1.61	1.26	1.02	1.04	1.17
IN.	1.91	1.68	1.73	1.25	1.14	2.90	2.37	1.85	1.41	1.17	1.20	1.31

CAL YR 1976	TOTAL	5230.8	MEAN 14.3	MAX 41	MIN 8.7	CFSM 1.75	IN 23.84
WTR YR 1977	TOTAL	4376.4	MEAN 12.0	MAX 54	MIN 7.0	CFSM 1.47	IN 19.95

HUDSON RIVER BASIN

01359513 HUNGER KILL AT GUILDERLAND, NY--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971, current year.

WATER QUALITY DATA, AUGUST 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)
AUG 25...	1400	8.3	540	7.8	16.0	10.5	103	.7	4800	640

01359519 NORMANS KILL NEAR WESTMERE, NY

LOCATION.--Lat 42°40'43", long 73°54'25", Albany County, Hydrologic Unit 02020006, on right bank, 100 ft (30 m) upstream from bridge on State Highway 155 (State Farm Road), 1.6 mi (2.6 km) southwest of Westmere, and 1.8 mi (2.9 km) southeast of Guilderland. Water-quality sampling site at discharge station.

DRAINAGE AREA.--131 mi² (339 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1967 to current year.

REVISED RECORDS.--WRD NY 1972: 1968(P), 1969(M), 1970(P).

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (40 m), from topographic map.

REMARKS.--Records good except those above 1,000 ft³/s (28 m³/s), and those for winter periods, which are poor. Diversion above station for municipal supply by city of Watervliet and town of Guilderland.

AVERAGE DISCHARGE.--10 years, 171 ft³/s (4.843 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,580 ft³/s (158 m³/s) Oct. 18, 1975, gage height, 11.86 ft (3.615 m); minimum, 5.0 ft³/s (0.14 m³/s) July 29, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,200 ft³/s (62 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	1600	*4,720 134	*10.82 3.298	Mar. 30	2400	3,410 96.6	8.95 2.728

Minimum discharge, 11 ft³/s (0.31 m³/s) Sept. 9, gage height, 1.15 ft (0.351 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	207	60	35	20	480	886	128	39	29	19	13
2	40	144	55	35	20	317	507	117	41	27	28	13
3	41	121	58	34	20	261	468	111	40	27	27	13
4	40	189	52	34	20	272	393	99	35	27	27	13
5	40	205	45	33	20	619	384	109	34	27	26	13
6	41	272	40	33	20	712	544	117	34	29	16	13
7	42	269	150	33	20	412	327	106	36	29	16	13
8	51	223	200	32	20	355	260	87	35	31	18	13
9	214	164	140	32	20	453	198	271	39	30	19	12
10	520	144	110	32	20	931	176	856	67	28	33	12
11	216	144	90	32	23	1100	157	583	57	28	45	12
12	140	125	82	31	28	922	160	308	53	34	31	12
13	106	114	74	30	30	2410	230	203	59	29	29	14
14	140	110	90	29	27	4360	190	145	44	27	29	19
15	158	102	80	29	26	1510	160	116	39	27	27	14
16	129	96	60	28	25	904	130	99	33	27	28	17
17	106	89	45	27	25	599	120	90	32	27	36	23
18	87	89	42	26	25	375	110	79	34	27	29	32
19	67	87	42	26	25	260	100	246	35	27	28	37
20	65	82	41	25	25	244	100	208	33	26	27	76
21	1130	76	40	25	25	236	94	145	35	38	26	41
22	447	71	40	25	25	254	90	111	33	33	29	55
23	264	68	40	25	26	390	110	89	31	14	27	82
24	196	61	40	24	28	357	350	77	30	13	27	85
25	212	58	39	24	300	254	700	69	33	23	23	205
26	342	58	38	23	642	241	545	57	33	18	14	563
27	282	58	37	23	480	260	422	53	31	14	14	603
28	194	61	37	22	759	445	283	46	30	13	14	246
29	158	74	37	21	---	1540	203	43	32	13	13	165
30	132	68	36	21	---	2510	155	40	30	13	13	114
31	166	---	35	21	---	2090	---	38	---	13	13	---
TOTAL	5807	3629	1975	870	2744	26073	8552	4846	1137	768	751	2543
MEAN	187	121	63.7	28.1	98.0	841	285	156	37.9	24.8	24.2	84.8
MAX	1130	272	200	35	759	4360	886	856	67	38	45	603
MIN	40	58	35	21	20	236	90	38	30	13	13	12
†	6.40	6.45	6.02	6.64	6.32	6.01	6.82	7.37	7.05	8.04	7.11	6.96

CAL YR 1976	TOTAL	68972	MEAN	188	MAX	2030	MIN	30	†	6.52
WTR YR 1977	TOTAL	59695	MEAN	164	MAX	4360	MIN	12	†	6.77

† Diversion, equivalent in cubic feet per second, by city of Watervliet and town of Guilderland for water supply (figures furnished by city of Watervliet and town of Guilderland Water Departments).

HUDSON RIVER BASIN

01359519 NORMANS KILL NEAR WESTMERE, NY--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970, 1971, 1973, current year.

WATER QUALITY DATA, AUGUST 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM 7UM-MF (COL./ 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)
AUG 23...	1800	20	500	7.8	17.5	10.0	106	4.0	811600	98

B Results based on colony count outside the acceptable range (non-ideal colony count).

HUDSON RIVER BASIN

119

01359560 HUDSON RIVER AT GLENMONT, NY

LOCATION.--Lat 42°35'43", long 73°45'43", Albany County, Hydrologic Unit 02020006, at Niagara Mohawk Glenmont Power Station (intake), 0.2 mi (0.3 km) downstream from lower mouth of Normans Kill, and 0.9 mi (1.4 km) southeast of Glenmont.

DRAINAGE AREA.--8,476 mi² (21,953 km²).

PERIOD OF RECORD.--Water years 1969 to current year.

REMARKS.--Water-discharge data are based on records for 01358000 Hudson River at Green Island.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM (7UM-MF) (COL./100 ML)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG)	TOTAL SODIUM (NA) (MG/L)
JAN 26...	1000	238	7.3	.0	3.8	14.0	96	10	89000	--	--	--
FEB 23...	1000	262	7.3	.0	1.0	13.2	90	--	4000	27	4.3	14
MAR 24...	1600	225	6.9	1.0	11	14.2	97	--	11000	--	--	--
APR 21...	1030	149	6.6	11.0	4.0	10.4	94	12	14000	--	--	--
MAY 25...	1100	170	6.9	23.0	4.0	7.2	87	12	81200	18	3.3	6.3
JUN 16...	1030	258	6.7	20.0	3.0	7.5	83	16	2100	--	--	--
JUL 27...	1100	215	6.9	24.0	7.0	6.0	71	20	5600	--	--	--
AUG 15...	1030	220	6.6	23.0	1.0	6.8	78	15	5000	--	--	--
SEP 07...	0800	223	7.1	23.5	7.0	6.5	75	20	82940	--	--	--

DATE	TOTAL PHOSPHORUS (P) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JAN 26...	--	--	--	--	136	5	.73	.51	.59	1.1	1.8	.07
FEB 23...	1.3	64	22	25	160	5	.77	.70	.30	1.0	1.8	.05
MAR 24...	--	--	--	--	143	22	.84	.17	.38	.55	1.4	.06
APR 21...	--	--	--	--	83	10	.68	.19	.31	.50	1.2	.05
MAY 25...	1.0	50	16	9.3	99	0	.52	.22	.60	.82	1.3	.06
JUN 16...	--	--	--	--	140	8	--	--	--	--	--	--
JUL 27...	--	--	--	--	139	19	.45	.21	.53	.74	1.2	.13
AUG 15...	--	61	25	15	128	9	.50	.16	.50	.66	1.2	.08
SEP 07...	--	--	--	--	119	7	.67	.21	.34	.55	1.2	.09

B Results based on colony count outside the acceptable range (non-ideal colony count).

HUDSON RIVER BASIN

01359560 HUDSON RIVER AT GLENMONT, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (JG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)
JAN											
26...	--	0	1	<10	0	230	<.5	2	10	6.0	0
FEB											
23...	--	0	0	<10	0	220	<.5	7	20	6.3	0
MAR											
24...	--	0	0	<10	10	1200	<.5	5	10	2.1	0
APR											
21...	--	1	0	10	0	400	<.5	7	20	4.4	0
MAY											
25...	--	2	0	10	3	260	.4	6	10	6.5	2
JUN											
16...	--	1	0	10	6	390	.3	15	10	--	--
JUL											
27...	.03	1	0	10	6	700	.0	7	10	7.1	3
AUG											
15...	.03	1	0	<10	5	550	.0	5	20	5.9	--
SEP											
07...	.04	0	0	<10	6	590	<.5	11	10	7.2	0

HUDSON RIVER BASIN

121

01359750 MOORDENER KILL AT CASTLETON-ON-HUDSON, NY

LOCATION.--Lat 42°32'02", long 73°44'15", Rensselaer County, Hydrologic Unit 02020006, on left bank 800 ft (244 m) downstream from bridge on State Highway 150, 0.2 mi (0.3 km) east of village of Castleton-on-Hudson, 0.5 mi (0.8 km) downstream from unnamed tributary, and 1.2 mi (1.9 km) upstream from mouth.

DRAINAGE AREA.--32.6 mi² (84.4 km²).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 98.72 ft (30.090 m) above mean sea level. Prior to Nov. 25, 1957, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. Slight diurnal fluctuation of low flow by mills upstream and occasional regulation at dam 800 ft (244 m) upstream.

AVERAGE DISCHARGE.--20 years, 37.0 ft³/s (1.048 m³/s), 15.41 in/yr (391 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft³/s (38.2 m³/s) Jan. 22, 1959, gage height, 3.63 ft (1.106 m); maximum gage height, 4.02 ft (1.225 m) Jan. 27, 1976 (ice jam); minimum, 0.30 ft³/s (0.008 m³/s) Aug. 9, 10, 1964, gage height, 0.25 ft (0.076 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Sept. 6, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 400 ft³/s (11 m³/s):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	1130	1,140 32.3	3.46 1.055

Minimum discharge, 4.8 ft³/s (0.14 m³/s) Sept. 9, 10, 11, 12, 13, gage height, 0.61 ft (0.186 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	50	20	14	8.8	187	106	44	13	14	9.6	5.9
2	13	37	18	14	8.8	119	88	39	13	11	10	5.9
3	12	34	16	15	8.8	101	86	39	12	9.0	7.3	5.9
4	12	47	15	16	8.8	101	71	35	11	9.0	6.4	5.5
5	11	45	15	15	8.6	370	84	47	11	8.4	6.4	5.5
6	11	47	25	14	8.6	246	103	49	12	8.4	6.4	5.9
7	12	50	90	14	8.6	129	77	39	18	7.9	11	5.5
8	13	43	70	13	8.6	110	68	32	22	9.0	14	5.5
9	77	39	50	13	9.0	119	59	131	18	9.6	9.0	5.1
10	74	35	40	13	11	171	54	305	50	7.9	7.9	5.1
11	39	35	35	12	15	159	50	177	35	7.3	33	5.1
12	28	32	30	12	25	131	47	108	23	12	17	5.1
13	24	30	30	12	45	349	44	82	17	10	12	5.5
14	26	29	35	11	35	897	41	64	15	8.4	10	7.9
15	25	28	29	11	25	427	36	54	13	6.8	10	7.9
16	21	26	26	11	20	260	33	47	12	9.0	8.4	7.9
17	19	25	23	10	17	180	30	42	11	8.4	10	13
18	18	25	21	10	15	126	29	38	13	7.3	10	12
19	17	24	21	9.8	13	108	28	53	23	6.8	7.9	18
20	26	23	20	9.6	12	99	25	42	17	6.4	6.8	61
21	100	22	19	9.4	12	97	24	35	16	6.4	6.4	56
22	60	21	19	9.4	12	117	23	28	14	6.4	7.9	29
23	42	20	18	9.4	12	196	38	24	12	5.5	8.4	19
24	35	19	17	9.2	18	139	165	22	11	5.5	7.9	22
25	37	19	17	9.2	260	108	165	20	12	7.9	7.3	51
26	51	19	17	9.2	224	103	108	18	16	9.0	6.4	61
27	45	19	16	9.0	165	122	84	17	12	6.8	6.4	58
28	36	19	16	9.0	383	159	69	16	10	5.9	5.9	38
29	33	21	16	9.0	---	278	58	14	18	5.9	5.9	27
30	31	22	15	9.0	---	180	49	14	23	5.9	5.5	21
31	41	---	15	9.0	---	134	---	13	---	5.9	5.5	---
TOTAL	1002	905	814	350.2	1397.6	6022	1942	1688	503	247.7	286.6	581.2
MEAN	32.3	30.2	26.3	11.3	49.9	194	64.7	54.5	16.8	7.99	9.25	19.4
MAX	100	50	90	16	383	497	165	305	50	14	33	61
MIN	11	19	15	9.0	8.6	97	23	13	10	5.5	5.5	5.1
CFSM	.99	.93	.81	.35	1.53	5.95	1.98	1.67	.52	.25	.28	.60
IN%	1.14	1.03	.93	.40	1.59	6.87	2.22	1.93	.57	.28	.33	.66

CAL YR 1976	TOTAL	17388.6	MEAN	47.5	MAX	450	MIN	9.6	CFSM	1.46	IN	19.84
WTR YR 1977	TOTAL	15739.3	MEAN	43.1	MAX	897	MIN	5.1	CFSM	1.32	IN	17.96

HUDSON RIVER BASIN

01359902 COEYMANS CREEK NEAR SELKIRK, NY

LOCATION.--Lat 42°31'38", long 73°49'14", Albany County, Hydrologic Unit 02020006, on right bank, 40 ft (12 m) downstream from bridge on Pictuay Road, and 1.2 mi (1.9 km) southwest of Selkirk. Water-quality sampling site at discharge station.

DRAINAGE AREA.--35.1 mi² (90.9 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1967 to September 1977 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 80 ft (24 m), from topographic map. Prior to Sept. 17, 1974, water-stage recorder at site on left bank at same datum.

REMARKS.--Records poor. Diversion from Onesquethaw Creek, a tributary above station, for municipal supply of town of Bethlehem. Water discharged to Onesquethaw Creek from city of Albany filtration plant at point 4 mi (6.4 km) upstream from station.

AVERAGE DISCHARGE.--10 years, 53.8 ft³/s (1.524 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,240 ft³/s (91.8 m³/s) June 30, 1973, gage height, 9.89 ft (3.014 m), from rating curve extended above 820 ft³/s (23.2 m³/s) on basis of contracted-opening measurement at gage height 7.60 ft (2.316 m); minimum, 0.49 ft³/s (0.014 m³/s) Aug. 6, 7, 1976; minimum gage height, 1.71 ft (0.521 m), Aug. 28, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (23 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 13	2000	*1,700 48.1	*7.85 2.393	Mar. 29	2200	847 24.0	6.29 1.917

Minimum discharge, 2.1 ft³/s (0.59 m³/s) Oct. 8, gage height, 2.15 ft (0.655 m); minimum daily, 2.3 ft³/s (0.65 m³/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	45	12	10	6.6	125	209	45	17	8.2	4.8	4.2
2	3.0	36	11	11	6.6	77	136	41	16	7.9	6.3	4.2
3	3.4	31	11	12	6.6	70	117	39	15	7.6	6.1	4.6
4	2.4	51	10	13	6.6	73	94	34	14	7.3	5.7	3.9
5	3.0	57	10	15	6.6	443	98	40	13	7.0	5.3	4.2
6	2.7	99	10	15	6.6	226	152	43	12	6.8	5.0	4.2
7	2.3	70	100	12	6.6	121	95	35	13	6.8	5.2	3.5
8	2.3	57	80	11	6.6	113	81	30	11	6.8	16	3.6
9	277	48	60	11	7.0	159	66	109	11	7.0	7.0	3.6
10	127	38	45	11	8.2	271	59	365	26	6.8	5.7	3.6
11	54	34	31	10	10	279	54	264	32	6.8	16	3.9
12	29	31	28	10	13	260	52	163	26	7.0	7.9	3.8
13	20	26	27	10	18	351	48	96	20	7.3	6.3	3.9
14	24	25	30	9.4	15	1330	43	74	17	6.5	5.7	5.3
15	20	22	22	9.0	14	452	38	62	14	6.3	5.7	4.2
16	15	20	18	9.0	13	249	32	51	13	6.1	4.8	4.8
17	12	18	17	8.6	11	168	29	46	12	7.9	5.3	10
18	10	17	16	8.4	10	120	27	43	12	6.8	5.3	6.8
19	9.6	17	16	8.2	10	100	26	54	18	6.3	4.3	13
20	15	16	15	8.0	9.6	65	27	55	17	6.1	4.8	79
21	472	15	14	8.0	9.4	79	24	46	15	5.7	4.3	53
22	143	14	14	7.8	9.4	95	22	39	13	6.1	6.1	23
23	77	12	13	7.6	10	172	25	34	12	5.7	5.0	13
24	54	12	13	7.6	10	149	256	31	9.6	5.2	5.2	18
25	54	11	12	7.4	27	97	324	28	9.2	5.3	4.6	70
26	115	10	11	7.4	35	93	182	27	9.2	7.9	4.5	156
27	79	10	11	7.2	127	110	125	25	8.9	6.3	4.2	116
28	57	10	11	7.2	326	150	86	22	8.2	5.5	4.0	46
29	45	11	10	7.2	---	730	65	20	8.2	5.0	3.9	33
30	36	12	9.6	7.2	---	645	53	18	8.5	5.0	4.2	25
31	45	---	10	7.0	---	400	---	17	---	4.6	3.9	---
TOTAL	1812.5	875	697.6	293.2	754.2	8073	2646	1997	430.8	201.6	183.1	727.3
MEAN	58.5	29.2	22.5	9.46	26.9	261	88.2	64.4	14.4	6.50	5.91	24.2
MAX	472	99	100	15	328	1330	324	365	32	8.2	16	156
MIN	2.3	10	9.6	7.0	6.6	70	22	17	8.2	4.6	3.9	3.5

CAL YR 1976 TOTAL 18071.10 MEAN 49.4 MAX 701 MIN .58
WTR YR 1977 TOTAL 18711.30 MEAN 51.3 MAX 1330 MIN 2.3

HUDSON RIVER BASIN

01359902 COEYMANS CREEK NEAR SELKIRK, NY--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-72, current year.

WATER QUALITY DATA, AUGUST 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM 7UM-MF (COL./ 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)
AUG 26...	1030	5.2	530	7.4	15.5	9.0	91	1.5	88500	160

B Results based on colony count outside the acceptable range (non-ideal colony count).

01359924 HANNACROIS CREEK NEAR NEW BALTIMORE, NY

LOCATION.--Lat 42°26'22", long 73°48'41", Greene County, Hydrologic Unit 02020006, on left bank, 1,200 ft (366 m) downstream from bridge on U.S. Highway 9W, 1.2 mi (1.9 km) southwest of New Baltimore, and 3.5 mi (5.6 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--61.6 mi² (160 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1967 to September 1977 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 140 ft (43 m), from topographic map.

REMARKS.--Records fair except those for winter periods, which are poor. Diversion above station for Albany municipal water supply from Alcove Reservoir which includes diversion from Catskill Creek basin through Basic Reservoir.

AVERAGE DISCHARGE.--10 years, 54.7 ft³/s (1.549 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,780 ft³/s (50.4 m³/s) July 1, 1973, gage height, 5.43 ft (1.655 m); maximum gage height, 5.91 ft (1.801 m) Jan. 27, 1976 (ice jam); minimum, 0.01 ft³/s (<0.001 m³/s) Sept. 12, 13, 1977, gage height, 0.36 ft (0.110 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft³/s (10 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 25	0745	ice jam	3.94 1.201	Mar. 14	0500	*883 25.0	*4.26 1.298
Feb. 28	0345	363 10.3	3.08 0.939	Mar. 30	0430	792 22.4	4.10 1.250
Mar. 5	0345	396 11.2	3.19 0.972	May 10	2000	500 14.2	3.49 1.064

Minimum discharge 0.01 ft³/s (<0.001 m³/s) Sept. 12, 13, gage height, 0.36 ft (0.110 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	39	12	6.6	3.0	138	428	45	8.6	3.8	1.5	.05
2	4.9	33	11	6.0	2.9	104	286	38	8.6	3.0	2.7	.04
3	5.6	31	10	6.0	2.9	94	265	59	9.0	2.4	2.2	.05
4	4.2	31	9.0	6.6	2.9	91	152	39	11	1.1	.66	.05
5	4.4	32	8.0	6.0	2.8	322	159	36	7.4	1.4	1.5	.05
6	3.8	42	7.0	5.4	2.7	210	210	38	6.3	.60	.49	.05
7	4.9	46	50	5.0	2.7	136	159	49	6.6	.66	.91	.06
8	3.6	43	40	4.5	2.7	112	173	38	6.6	1.8	.54	.04
9	63	39	35	4.5	2.6	114	124	130	7.7	.74	.74	.04
10	72	36	32	4.5	2.6	147	91	412	18	.82	.31	.02
11	44	35	29	4.5	2.6	150	56	471	9.0	.54	1.1	.02
12	32	31	27	4.4	3.0	135	63	346	11	2.0	.49	.02
13	27	30	25	4.3	5.0	357	54	250	9.4	1.0	1.0	.02
14	25	28	31	4.2	8.0	672	86	159	8.6	1.7	.49	.21
15	22	27	25	4.2	6.0	387	61	100	8.0	.60	.28	.74
16	18	25	21	4.1	5.0	412	56	66	7.0	1.7	.31	.31
17	17	24	18	4.0	4.5	363	36	61	8.0	5.5	1.7	3.0
18	14	23	15	3.8	4.0	268	27	45	9.0	4.8	3.0	2.8
19	13	22	14	3.6	3.7	226	25	64	9.0	1.4	.54	9.9
20	13	21	13	3.5	3.5	169	23	52	7.0	1.2	.24	58
21	141	20	12	3.5	3.5	142	22	41	5.5	.66	.44	47
22	98	18	11	3.5	3.5	154	20	35	5.9	.82	.35	27
23	71	18	10	3.4	4.0	275	23	28	3.5	.39	.44	18
24	56	17	10	3.4	6.0	260	65	25	3.2	.44	.21	20
25	52	17	9.0	3.4	280	208	114	23	4.4	.49	.39	63
26	62	16	9.0	3.3	185	133	145	28	6.3	1.2	.18	103
27	56	16	8.4	3.2	141	120	140	23	4.4	.39	.07	95
28	48	15	8.0	3.2	270	173	140	20	2.4	.35	.07	63
29	44	17	7.6	3.1	---	504	119	18	5.5	.28	.11	49
30	38	14	7.2	3.1	---	744	66	13	7.4	.60	.07	34
31	38	---	7.0	3.0	---	697	---	9.9	---	.66	.05	---
TOTAL	1101.0	806	531.2	131.8	956.1	8017	3388	2761.9	224.3	43.04	23.08	594.50
MEAN	35.5	26.9	17.1	4.25	34.5	259	113	89.1	7.48	1.39	.74	19.8
MAX	141	46	50	6.6	280	744	428	471	18	5.5	3.0	103
MIN	3.6	14	7.0	3.0	2.6	91	20	9.9	2.4	.28	.05	.02

CAL YR 1976 TOTAL 20141.10 MEAN 55.0 MAX 740 MIN 3.3
WTR YR 1977 TOTAL 18587.92 MEAN 50.9 MAX 744 MIN .02

HUDSON RIVER BASIN

125

01359924 HANNACROIS CREEK NEAR NEW BALTIMORE, NY--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970, current year.

WATER QUALITY DATA, AUGUST 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	HIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM •7UM-MF (COL./ 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)
AUG 24...	1530	.28	370	7.7	17.0	9.9	100	1.2	4100	63

01361500 CATSKILL CREEK AT OAK HILL, NY

LOCATION.--Lat 42°24'16", long 74°09'07", Greene County, Hydrologic Unit 02020006, on right bank 550 ft (168 m) downstream from bridge on County Highway 22 in southernmost part of Oak Hill, 650 ft (198 m) downstream from unnamed tributary, and 1.1 mi (1.8 km) upstream from Tenmile Creek. Water-quality sampling site at discharge station.

DRAINAGE AREA.--98 mi² (254 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1910 to current year. Monthly discharge only for some periods, published in WSP 1302.

REVISED RECORDS.--WSP 756: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 610.65 ft (186.126 m) above mean sea level. Prior to Aug. 4, 1930, nonrecording gage and Aug. 4, 1930 to Sept. 30, 1968, water-stage recorder at site 530 ft (162 m) upstream at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--67 years, 126 ft³/s (3.568 m³/s), 17.46 in/yr (443 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s (354 m³/s) Nov. 25, 1950, gage height, 14.08 ft (4.292 m) at site and datum then in use, from floodmarks in gage house, from rating curve extended above 61,100 ft³/s (173 m³/s) on basis of slope-area measurement of peak flow; minimum, no flow part or all of each day Sept. 7-10, 25, 26, 1964, Aug. 29 to Sept. 3, 1966; minimum gage height, 0.59 ft (0.180 m) Sept. 26, 27, 1939, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,300 ft³/s (65 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	0530	*6,930 196	*8.18 2.493	Sept. 20	1030	3,460 98.0	6.31 1.923
Mar. 30	1700	5,990 170	7.73 2.356	Sept. 26	1100	4,530 128	6.94 2.115
Apr. 24	2030	2,360 66.8	5.54 1.689				

Minimum discharge, 3.7 ft³/s (0.10 m³/s) Sept. 11-13, gage height, 1.61 ft (0.491 m).

REVISIONS.--The peak discharge of Aug. 10, 1976 (0900 hours) has been revised to 3,140 ft³/s (88.9 m³/s), gage height, 6.10 ft (1.859 m), superseding figure published in the report for 1976.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	198	42	28	13	276	910	147	35	9.3	4.7	4.5
2	8.4	160	42	27	13	189	525	134	36	7.6	7.6	4.5
3	8.1	147	41	27	13	171	537	121	31	6.7	6.0	4.3
4	7.9	168	41	27	13	207	369	105	26	6.4	5.7	4.3
5	7.6	158	40	26	13	1010	525	147	22	6.4	5.2	4.3
6	7.4	171	50	26	13	511	531	132	19	6.0	5.2	5.0
7	7.4	183	350	25	13	284	322	107	22	6.4	5.2	4.5
8	7.4	171	180	25	13	246	260	90	22	7.2	5.0	4.3
9	565	147	120	25	13	466	190	215	22	7.2	4.7	4.0
10	284	142	130	25	13	1120	173	1030	76	6.4	4.5	4.0
11	155	137	110	24	15	1150	162	947	48	5.7	9.3	3.8
12	112	121	90	24	19	1100	162	751	34	25	8.5	3.7
13	92	116	66	22	30	3110	160	450	27	16	7.2	3.8
14	126	109	56	21	52	4780	147	280	23	9.3	6.7	4.3
15	109	105	50	20	40	1450	124	205	24	7.2	7.2	4.2
16	90	98	45	19	23	862	109	170	22	6.4	7.2	4.5
17	74	90	40	17	20	561	98	147	19	6.0	41	7.2
18	66	90	37	16	19	359	90	124	19	5.7	30	7.6
19	59	87	35	16	19	292	85	268	32	5.2	16	61
20	201	82	33	16	18	231	77	165	23	5.0	10	824
21	934	74	32	15	17	215	74	137	20	4.7	8.0	300
22	322	66	32	15	17	208	68	114	17	4.3	7.6	157
23	222	60	32	15	17	202	77	96	13	4.3	6.8	119
24	186	57	31	15	20	187	1210	170	11	4.2	6.4	359
25	201	48	31	15	900	167	1120	147	9.3	4.5	6.4	894
26	359	52	30	15	461	157	537	85	10	5.0	6.0	1460
27	229	57	30	14	369	173	400	65	9.3	4.3	5.5	585
28	189	62	30	14	685	235	280	57	8.5	4.3	5.5	300
29	168	60	30	13	---	1590	205	50	8.0	4.2	5.2	224
30	152	45	29	13	---	3830	170	44	14	4.2	4.7	165
31	232	---	28	13	---	2310	---	39	---	4.3	4.5	---
TOTAL	5190.2	3261	1933	613	2871	27649	9697	6739	702.1	209.4	263.5	5530.8
MEAN	167	109	62.4	19.8	103	892	323	217	23.4	6.75	8.50	184
MAX	934	198	350	28	900	4780	1210	1030	76	25	41	1460
MIN	7.4	45	28	13	13	157	68	39	8.0	4.2	4.5	3.7
CFSM	1.70	1.11	.64	.20	1.05	9.10	3.30	2.21	.24	.07	.09	1.88
INF.	1.97	1.24	.73	.23	1.09	10.50	3.68	2.56	.27	.08	.10	2.10
CAL YR 1976	TOTAL	54014.4	MEAN 148	MAX 2040	MIN 4.8	CFSM 1.51	IN 20.50					
WTR YR 1977	TOTAL	64659.0	MEAN 177	MAX 4780	MIN 3.7	CFSM 1.81	IN 24.54					

HUDSON RIVER BASIN

01361500 CATSKILL CREEK AT OAK HILL, NY--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966, 1972, current year.

WATER QUALITY DATA, AUGUST 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO- MHQS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL./ 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)
AUG 24...	1300	6.0	145	7.5	17.5	10.2	107	.4	2400	81900

B Results based on colony count outside the acceptable range (non-ideal colony count).

HUDSON RIVER BASIN

01361570 TENMILE CREEK AT OAK HILL, NY

LOCATION.--Lat 42°24'26", long 74°08'06", Greene County, Hydrologic Unit 02020006, on left bank 425 ft (130 m) upstream from bridge on State Highway 81, about 1,500 ft (457 m) upstream from mouth, 0.9 mi (1.4 km) east of Oak Hill, and 2.3 mi (3.7 km) downstream from Eightmile Creek. Water-quality sampling site at discharge station.

DRAINAGE AREA.--35.3 mi² (91.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 588.19 ft (179.280 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--9 years, 55.3 ft³/s (1.566 m³/s), 21.27 in/yr (540 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,620 ft³/s (74.2 m³/s) July 3, 1974, gage height, 6.48 ft (1.975 m), from rating curve extended above 700 ft³/s (19.8 m³/s); minimum daily, 0.5 ft³/s (0.014 m³/s) Oct. 1-4, 1968; minimum gage height, 2.18 ft (0.664 m) July 13, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 650 ft³/s (18 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	0700	*2,170 61.5	*6.19 1.887	Mar. 30	1730	2,120 60.0	6.16 1.878

Minimum discharge, 0.68 ft³/s (0.019 m³/s) Sept. 10-13, gage height, 2.32 ft (0.707 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	52	17	7.4	3.7	108	311	45	12	3.7	5.2	1.5
2	3.7	45	15	7.2	3.7	88	171	40	11	3.4	6.9	1.7
3	3.7	41	14	7.2	3.6	72	148	36	9.7	3.2	5.2	1.8
4	3.2	47	13	7.2	3.6	65	123	32	8.4	3.0	4.8	1.5
5	3.0	47	13	7.0	3.5	284	148	46	12	3.0	4.6	1.7
6	3.0	53	16	6.8	3.3	217	182	45	11	2.6	4.0	2.0
7	3.0	58	50	6.8	3.3	111	114	36	11	2.6	3.4	1.5
8	3.7	53	80	6.6	3.2	84	89	29	9.0	2.8	3.4	1.2
9	142	45	56	6.6	3.1	123	65	94	9.3	2.8	3.0	.89
10	96	41	40	6.6	3.1	304	57	449	25	2.4	3.0	.89
11	49	40	35	6.2	3.1	369	52	340	19	2.4	5.7	.68
12	33	36	30	6.0	3.3	326	54	236	14	6.9	5.0	.68
13	27	33	25	5.8	3.7	815	51	126	12	4.8	4.4	1.5
14	29	32	20	5.6	4.5	1560	46	75	10	3.7	4.2	2.8
15	24	30	17	5.4	8.0	419	40	56	9.7	3.0	4.6	2.4
16	21	29	15	5.2	7.0	245	35	46	8.4	3.4	3.9	2.8
17	18	27	13	5.0	6.0	164	30	37	7.6	4.0	8.1	4.6
18	17	26	11	4.8	5.0	114	28	30	7.6	3.4	7.4	4.0
19	15	26	10	4.6	4.5	98	26	45	10	2.6	5.2	13
20	36	25	9.2	4.5	4.3	87	23	38	8.1	2.4	4.2	175
21	380	24	8.6	4.4	4.0	77	22	30	7.4	2.6	3.7	94
22	117	22	8.2	4.4	4.0	91	20	26	6.6	2.8	4.2	48
23	74	21	8.0	4.3	4.0	111	22	20	5.9	2.0	3.9	34
24	59	19	8.0	4.2	7.0	96	295	36	5.4	1.8	3.2	40
25	60	18	7.8	4.2	250	135	327	75	5.4	3.2	2.8	164
26	90	17	7.8	4.1	212	94	158	36	5.7	3.9	2.2	303
27	75	17	7.8	4.0	130	98	129	24	5.0	2.8	2.0	164
28	60	19	7.6	4.0	212	138	96	19	4.0	3.0	1.8	96
29	53	20	7.6	3.9	---	496	69	15	4.2	3.4	1.7	65
30	46	19	7.6	3.9	---	1160	54	13	4.4	3.7	1.5	46
31	52	---	7.4	3.8	---	804	---	12	---	3.0	1.2	---
TOTAL	1600.3	982	585.6	167.7	906.5	8953	2985	2187	278.8	98.3	124.4	1276.14
MEAN	51.6	32.7	18.9	5.41	32.4	289	99.5	70.5	9.29	3.17	4.01	42.5
MAX	380	58	80	7.4	250	1560	327	449	25	6.9	8.1	303
MIN	3.0	17	7.4	3.8	3.1	65	20	12	4.0	1.8	1.2	.68
CFSM	1.46	.93	.54	.15	.92	8.19	2.82	2.00	.26	.09	.11	1.20
IN.	1.69	1.03	.62	.18	.96	9.43	3.15	2.30	.29	.10	.13	1.34
CAL YR 1976	TOTAL	20355.00	MEAN	55.6	MAX	500	MIN	2.4	CFSM	1.58	IN	21.45
WTR YR 1977	TOTAL	20144.74	MEAN	55.2	MAX	1560	MIN	.68	CFSM	1.56	IN	21.23

HUDSON RIVER BASIN

01361570 TENMILE CREEK AT OAK HILL, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970, current year.

WATER QUALITY DATA, AUGUST 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM .7UM-HF (COL./ 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)
AUG 24...	1100	3.2	230	6.5	15.5	8.9	89	.7	81900	8140

B Results based on colony count outside the acceptable range (non-ideal colony count).

HUDSON RIVER BASIN

01362198 ESOPUS CREEK AT SHANDAKEN, NY
(Hydrologic bench-mark station)

LOCATION.--Lat 42°06'59", long 74°23'20", Ulster County, Hydrologic Unit 02020006, on left bank 2,400 ft (732 m) downstream from bridge on State Highway 28, at Shandaken, 0.5 mi (0.8 km) downstream from Bushnellsville Creek, 0.5 mi (0.8 km) upstream from Fox Hollow Creek, and 5.2 mi (8.4 km) northwest of Phoenicia. Water-quality sampling site at discharge station.

DRAINAGE AREA.--59.5 mi² (154.1 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,017.27 ft (310.064 m) above mean sea level.

REMARKS.--Records poor. Occasional slight regulation when filling or draining swimming pools or small ponds above station.

AVERAGE DISCHARGE.--14 years, 136 ft³/s (3.852 m³/s), 31.04 in/yr (788 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,870 ft³/s (223 m³/s) July 28, 1969, gage height, 10.88 ft (3.316 m), from rating curve extended above 2,200 ft³/s (62.3 m³/s) on basis of slope-area measurement of peak flow; minimum, 2.8 ft³/s (0.079 m³/s) Nov. 22, 23, 1964, result of freezeup, gage height, 4.15 ft (1.265 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s (31 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1600	1,330 37.7	7.40 2.256	Mar. 30	2015	1,960 55.5	8.12 2.475
Mar. 14	0245	*4,280 121	*10.00 3.048				

Minimum discharge, 7.3 ft³/s (0.21 m³/s) Sept. 9-13, gage height, 4.71 ft (1.436 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	242	48	56	15	131	833	238	76	28	12	8.8
2	22	219	44	54	14	137	583	222	72	26	12	9.4
3	21	200	40	54	14	122	577	208	65	25	11	10
4	21	193	83	52	14	173	489	193	63	22	11	8.8
5	19	176	131	50	14	117	523	219	61	21	13	8.3
6	19	163	180	48	14	415	517	200	63	21	14	8.8
7	18	149	410	45	14	328	430	190	63	19	13	8.3
8	19	134	369	44	13	263	374	180	53	19	12	8.3
9	456	119	303	42	13	259	313	208	55	19	11	8.3
10	410	113	230	40	13	343	267	254	131	19	11	7.3
11	215	103	204	36	13	517	242	308	88	18	10	7.3
12	159	92	180	33	13	588	234	415	74	18	17	7.3
13	134	85	156	30	13	2070	267	506	67	18	13	7.8
14	134	81	130	27	13	2600	276	446	61	18	14	10
15	113	76	131	25	13	1150	242	363	57	17	14	10
16	100	70	116	23	16	779	219	299	51	15	13	18
17	90	65	108	22	21	552	200	254	47	15	17	29
18	83	63	97	21	26	420	183	226	49	15	17	22
19	76	61	94	20	25	333	170	238	57	14	14	31
20	134	57	90	18	23	276	166	193	47	14	15	159
21	608	53	84	17	22	238	163	176	41	14	15	153
22	390	53	80	17	22	254	156	159	38	17	19	105
23	285	49	70	16	23	250	163	143	36	14	18	90
24	234	45	64	16	50	208	299	143	34	12	19	90
25	230	43	64	15	733	190	400	134	34	12	17	242
26	263	41	64	15	272	176	385	119	38	13	11	583
27	226	41	62	15	140	180	363	108	33	13	11	494
28	200	41	62	15	197	200	328	97	29	13	11	333
29	180	45	60	15	---	511	289	90	33	13	10	238
30	159	48	58	15	---	1430	263	83	31	13	9.4	190
31	250	---	56	15	---	1430	---	78	---	11	9.4	---
TOTAL	5291	2920	3868	911	1773	17140	9914	6690	1647	526	413.8	2905.7
MEAN	171	97.3	125	29.4	53.3	553	330	216	54.9	17.0	13.3	96.9
MAX	608	242	410	56	733	2600	833	506	131	28	19	583
MIN	18	41	40	15	13	122	156	78	29	11	9.4	7.3
CFSM	2.87	1.64	2.10	.49	1.06	9.29	5.55	3.63	.92	.29	.22	1.63
IN.	3.31	1.83	2.42	.57	1.11	10.72	6.20	4.18	1.03	.33	.26	1.82

CAL YR 1976	TOTAL	52301.0	MEAN 143	MAX	3100	MIN	11	CFSM 2.40	IN 32.70
WTR YR 1977	TOTAL	53999.5	MEAN 148	MAX	2600	MIN	7.3	CFSM 2.49	IN 33.76

01362198 ESOPUS CREEK AT SHANDAKEN, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1963 to July 1968, January 1970 to current year.

INSTRUMENTATION.--Temperature recorder since July 1963.

REMARKS.--No temperature record Nov. 9-17, Feb. 1-11, due to instrument malfunctions. From June 20 to Sept. 20 the temperature probe was greatly affected by solar radiation.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (except 1977), 28.5°C Aug. 16, 1965; minimum, freezing point on many days during winter periods except 1967 and 1976.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Minimum, freezing point on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL./ 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT										
22...	1130	356	47	7.2	12.0	100	84	88	--	B10
NOV										
23...	1500	51	50	7.2	14.3	104	78	83	--	<1
DEC										
29...	1830	59	54	6.4	14.7	102	220	B12	20	--
JAN										
27...	1030	E15	58	6.7	14.8	100	140	B5	B1	--
FEB										
22...	1400	E22	48	7.2	14.2	97	822	B1	<1	--
MAR										
18...	1230	421	49	6.5	14.5	103	400	B4	B7	--
APR										
12...	1400	222	48	6.6	11.0	104	864	B1	B3	--
MAY										
17...	1400	246	45	7.7	10.9	114	880	<5	B4	--
JUN										
22...	1000	37	59	6.2	11.1	105	--	--	--	--
JUL										
20...	1500	14	71	8.0	8.7	113	7700	75	B72	--
AUG										
17...	0830	17	76	6.2	9.3	99	500	5200	290	--
SEP										
13...	1000	8.6	81	6.0	10.8	104	148	74	B95	--

DATE	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (MG/L)	CAR- BONATE (MG/L)	ALKA- LINITY AS CAC03 (MG/L)
OCT									
22...	15	1	4.2	1.2	1.2	.3	18	0	15
NOV									
23...	12	0	3.5	.8	2.0	.3	17	0	14
DEC									
29...	19	5	4.7	1.8	1.9	.3	17	0	14
JAN									
27...	17	4	5.5	.9	2.4	.3	17	0	14
FEB									
22...	24	9	7.3	1.4	4.5	.3	18	0	15
MAR									
18...	16	3	4.8	1.0	1.9	.3	16	0	13
APR									
12...	13	0	3.9	.8	1.8	.4	16	0	13
MAY									
17...	14	5	4.0	.9	1.7	.4	11	0	9
JUN									
22...	12	0	2.5	1.3	2.7	.5	16	0	13
JUL									
20...	22	7	6.7	1.3	3.6	.6	19	0	16
AUG									
17...	25	8	7.2	1.6	4.0	.6	20	0	16
SEP									
13...	26	10	7.7	1.7	4.0	.7	20	0	16

B Results based on colony count outside the acceptable range (non-ideal colony count).

E Estimated.

HUDSON RIVER BASIN

01362198 ESOPUS CREEK AT SHANDAKEN, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED SULFATE (SO ₄) (MG/L)	DIS-SOLVED CHLO- RIDE (CL) (MG/L)	DIS-SOLVED SILICA (SiO ₂) (MG/L)	DIS-SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL FILT- RABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
OCT 22...	6.2	2.7	2.9	30	30	28	2	.68	.03
NOV 23...	8.4	4.3	2.2	25	--	30	--	.30	.02
DEC 29...	8.1	3.7	2.7	31	--	32	--	.46	.01
JAN 27...	12	4.8	3.1	29	--	37	--	.48	.02
FEB 22...	8.3	13	3.1	55	--	47	--	.51	.03
MAR 18...	3.6	3.1	2.2	33	--	25	--	.65	.01
APR 12...	7.7	3.0	2.0	33	--	28	--	.36	.01
MAY 17...	6.1	2.5	2.0	--	--	23	--	.19	.00
JUN 22...	6.8	3.4	2.7	40	--	28	--	.25	.01
JUL 20...	6.9	4.7	3.5	41	--	37	--	.05	.02
AUG 17...	7.2	5.8	2.8	48	--	39	--	.21	.01
SEP 13...	7.0	6.0	2.2	47	--	39	--	--	--

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT 22...	0	100	0	<10	0	140	3	10	<.5	0	0	0
JUL 20... 1977	1	0	0	10	0	50	2	10	.0	0	1	10
SEP 13...	0	100	--	10	--	40	--	10	.5	0	0	20

DATE	CYANIDE (CN) (MG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)
OCT 22...	.00	.0	0	.00	.00	.0	.0	0	.00	.5	.00	1.2
SEP 13...	.00	.0	0	.00	.00	.0	.0	0	.00	.0	.00	.9

DATE	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)
OCT 22...	.00	1.7	.00	.00	.0	.00	.0	.00	.00	.0	.00	.0
SEP 13...	.00	3.2	.00	.00	.0	.00	.0	.00	.00	.0	.00	.0

DATE	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT 22...	.00	.0	.00	.00	.00	.00	0	0	.00	.00	.00	.00
SEP 13...	.00	.0	.00	.00	.00	.00	0	0	.00	.00	.00	.00

HUDSON RIVER BASIN

01362198 ESOPUS CREEK AT SHANDAKEN, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)
OCT 22...	1130	<.4	<.4	.6	<.4	.5	<.4	.03	.03
SEP 13...	1030	<.5	<.4	2.2	<.4	1.8	<.4	.08	<.01

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
MAY					AUG				
17...	1400	246	2	1.3	03...	1200	11	2	.06
24...	1800	122	4	1.3	17...	0830	17	1	.05
JUN					31...	1200	8.5	3	.07
08...	1530	47	2	.25	SEP				
13...	1200	66	4	.71	13...	1000	4.6	--	--
22...	1000	37	--	--	22...	1030	96	3	.78
23...	1030	37	2	.20	29...	1630	287	4	3.1
JUL					OCT				
07...	1230	21	1	.06	13...	1100	221	3	1.8
20...	1500	14	3	.11					

HUDSON RIVER BASIN

01362198 ESOPUS CREEK AT SHANDAKEN, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	14.5	12.0	6.5	5.0	1.0	1.0	0.0	0.0	---	---	3.0	1.0
2	14.0	13.0	5.5	4.5	1.0	1.0	0.0	0.0	---	---	3.0	2.0
3	14.0	12.5	4.5	4.0	1.0	1.0	0.0	0.0	---	---	4.0	2.0
4	15.0	11.0	5.5	4.0	1.0	1.0	0.0	0.0	---	---	2.0	2.0
5	15.0	11.0	4.5	3.5	1.0	1.0	0.0	0.0	---	---	4.0	2.0
6	15.0	13.5	4.5	3.5	1.0	1.0	0.0	0.0	---	---	3.0	2.5
7	16.0	13.5	4.0	4.0	2.0	1.0	0.0	0.0	---	---	3.5	3.0
8	15.5	15.0	4.0	3.5	2.0	1.0	0.0	0.0	---	---	5.5	2.5
9	15.0	11.0	---	---	1.0	1.0	0.0	0.0	---	---	7.0	3.0
10	11.0	9.5	---	---	3.0	1.0	0.0	0.0	---	---	7.0	4.0
11	11.0	9.0	---	---	3.0	1.5	0.0	0.0	---	---	7.0	4.0
12	11.0	8.0	---	---	3.5	1.5	0.0	0.0	0.0	0.0	7.0	4.0
13	12.0	8.5	---	---	3.5	1.0	0.0	0.0	0.0	0.0	6.0	5.0
14	10.5	8.5	---	---	1.0	1.0	0.0	0.0	0.0	0.0	5.0	3.5
15	12.0	8.0	---	---	2.5	1.0	0.0	0.0	0.0	0.0	5.0	4.0
16	11.0	9.0	---	---	2.5	1.0	0.0	0.0	0.0	0.0	4.5	3.0
17	9.0	8.0	---	---	2.5	2.5	0.5	0.0	0.0	0.0	3.0	1.0
18	8.5	8.0	4.0	3.0	2.5	1.0	0.5	0.0	0.0	0.0	1.0	1.0
19	8.0	6.0	5.0	3.0	1.0	1.0	0.5	0.0	0.0	0.0	2.0	1.0
20	7.5	6.5	4.0	3.0	3.0	1.0	0.0	0.0	0.0	0.0	1.5	1.0
21	7.5	7.0	3.0	2.0	3.0	1.0	0.0	0.0	0.0	0.0	4.0	1.0
22	7.0	6.5	3.0	2.5	1.0	1.0	0.0	0.0	0.0	0.0	1.5	1.0
23	6.0	5.5	3.0	2.5	1.0	0.5	0.0	0.0	0.0	0.0	1.5	1.5
24	5.5	5.5	3.0	2.5	1.0	0.5	0.0	0.0	0.0	0.0	2.0	1.5
25	6.0	5.5	3.0	2.0	0.5	0.5	0.0	0.0	0.0	0.0	2.0	1.5
26	6.0	5.0	5.0	2.5	0.5	0.0	0.0	0.0	0.0	0.0	5.0	1.5
27	5.5	5.0	6.5	5.0	0.0	0.0	0.0	0.0	0.5	0.0	6.0	2.0
28	5.5	5.0	6.0	5.5	0.0	0.0	0.5	0.0	1.0	0.0	3.5	2.5
29	6.5	5.0	6.0	1.5	0.0	0.0	1.0	0.5	---	---	7.0	3.0
30	7.0	5.0	1.5	1.0	0.0	0.0	0.5	0.0	---	---	6.0	3.0
31	7.0	6.5	---	---	0.0	0.0	0.5	0.0	---	---	4.0	3.5
MONTH	16.0	5.0	6.5	1.0	3.5	0.0	1.0	0.0	1.0	0.0	7.0	1.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	5.5	3.0	13.5	7.0	14.0	12.0					---	---
2	3.5	2.5	11.0	8.5	17.0	12.0					---	---
3	7.5	3.0	13.5	7.5	17.0	11.0					---	---
4	4.0	3.5	12.0	7.0	18.0	10.0					---	---
5	4.5	3.5	10.0	9.0	17.5	12.0					---	---
6	4.5	3.5	15.0	9.0	14.5	11.5					---	---
7	5.5	3.5	15.0	9.0	13.5	11.0					---	---
8	5.0	3.5	13.0	7.5	14.0	10.0					---	---
9	5.0	3.5	8.0	7.0	11.0	9.0					---	---
10	8.0	3.5	8.0	7.0	12.0	10.0					---	---
11	9.5	4.0	10.5	7.0	13.0	11.0					---	---
12	12.5	5.5	11.0	7.0	14.0	11.0					---	---
13	12.5	7.5	11.0	8.0	16.0	12.0					---	---
14	11.0	7.5	11.5	7.5	14.0	12.0					---	---
15	10.5	6.0	13.0	8.0	19.0	12.0					---	---
16	10.0	6.0	13.5	8.0	19.5	11.5					---	---
17	11.0	6.0	16.0	9.5	16.0	12.5					---	---
18	11.5	6.0	14.0	11.0	17.0	14.0					---	---
19	13.0	6.0	15.0	12.0	21.0	14.0					---	---
20	11.0	7.0	15.0	10.5	---	---					---	---
21	14.0	8.0	15.5	11.5	---	---					13.5	13.0
22	13.5	8.5	17.5	11.0	---	---					13.0	12.5
23	11.0	9.0	17.0	10.5	---	---					13.5	12.5
24	9.0	8.0	15.0	11.0	---	---					13.0	12.0
25	8.5	7.5	17.0	12.0	---	---					12.0	11.5
26	7.5	7.0	17.5	11.0	---	---					12.0	11.5
27	9.0	7.5	17.0	10.0	---	---					12.5	11.5
28	11.0	7.5	18.0	11.5	---	---					12.0	11.0
29	10.5	6.5	15.0	11.0	---	---					12.0	11.0
30	12.5	6.5	18.0	10.5	---	---					12.5	10.5
31	---	---	18.5	10.0	---	---					---	---
MONTH	14.0	2.5	18.5	7.0	21.0	9.0					13.5	10.5

HUDSON RIVER BASIN

135

01362500 ESOPUS CREEK AT COLD BROOK, NY

LOCATION.--Lat 42°00'51", long 74°16'16", Ulster County, Hydrologic Unit 02020006, on left bank at downstream side of bridge on Coldbrook Road, in Coldbrook, 0.3 mi (0.5 km) downstream from Little Beaver Kill, 1.5 mi (2.4 km) upstream from Ashokan Reservoir, and 2.5 mi (4.0 km) south of Mount Tremper. Water-quality sampling site at discharge station.

DRAINAGE AREA.--192 mi² (497 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1914 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 621.54 ft (189.445 m) above mean sea level. Prior to June 15, 1916, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. Since 1924, water diverted from Schoharie Reservoir through Shandaken Tunnel (see Reservoirs in Hudson River Basin) enters Esopus Creek 10.5 mi (16.9 km) above station and is included in records of daily discharge.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,600 ft³/s (1,690 m³/s) Mar. 30, 1951, gage height, 20.70 ft (6.309 m), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of slope-area measurements at gage heights 12.39 ft (3.776 m), 15.15 ft (4.618 m), and 20.70 ft (6.309 m); minimum daily, 8 ft³/s (0.23 m³/s) Oct. 14, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,700 ft³/s (416 m³/s) Mar. 13, gage height, 12.91 ft (3.935 m); minimum daily, 113 ft³/s (3.20 m³/s) Sept. 13; minimum gage height, 4.43 ft (1.350 m) July 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	470	773	330	270	280	751	2370	557	491	445	309	296
2	460	837	330	280	280	689	1580	512	507	436	305	292
3	470	780	330	300	290	702	1670	470	518	431	296	292
4	460	773	330	290	290	1430	1320	412	656	426	296	288
5	445	730	340	280	290	3320	1700	507	643	422	301	284
6	440	702	340	290	290	2070	1710	507	580	422	318	276
7	431	656	1470	280	290	1500	1290	702	465	422	313	265
8	431	611	1310	280	290	1230	1070	669	417	412	313	235
9	2740	568	923	280	280	1190	854	871	574	377	309	180
10	1720	546	820	270	280	1520	723	1380	967	356	309	168
11	1060	513	744	270	280	2060	636	1230	630	242	309	165
12	689	491	656	280	280	2400	592	1130	557	364	322	157
13	502	475	580	290	280	6770	656	1330	513	360	313	113
14	502	460	518	300	290	8170	662	1130	486	351	313	115
15	507	450	540	300	280	3320	580	871	470	347	313	126
16	574	436	502	320	280	2210	518	696	450	343	305	356
17	540	422	486	320	280	1580	475	592	440	343	318	460
18	513	417	460	330	280	1230	445	523	440	335	313	426
19	491	412	436	320	280	975	574	580	455	331	305	481
20	730	399	440	310	280	773	568	455	426	331	301	1160
21	3840	394	436	310	280	669	662	422	417	326	296	837
22	1850	386	380	330	284	837	730	399	408	339	313	574
23	1310	381	370	320	288	1030	766	394	399	322	305	523
24	1100	373	360	310	301	689	1590	523	403	318	301	571
25	1070	368	350	300	1520	568	1720	605	431	326	296	1210
26	1200	364	300	290	879	513	1150	574	440	322	296	2610
27	845	364	280	280	737	534	1030	568	436	313	313	2220
28	617	364	280	280	914	623	862	546	460	309	309	1840
29	546	377	270	280	---	1670	716	529	465	305	305	1530
30	491	364	270	280	---	4370	623	513	455	305	305	1360
31	820	---	270	280	---	4240	---	496	---	305	301	---
TOTAL	27864	15186	15451	9120	10873	59633	29842	20693	14999	10986	9521	19410
MEAN	899	506	498	294	388	1924	995	668	500	354	307	647
MAX	3840	837	1470	330	1520	8170	2370	1380	967	445	322	2610
MIN	431	364	270	270	280	513	445	394	399	242	296	113

CAL YR 1976 TOTAL 256684 MEAN 701 MAX 12000 MIN 99
WTR YR 1977 TOTAL 243578 MEAN 667 MAX 8170 MIN 113

HUDSON RIVER BASIN

01362500 ESOPUS CREEK AT COLDBROOK, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971, 1973, May to October 1977 (discontinued).

SUSPENDED-SEDIMENT MEASUREMENTS, MAY TO OCTOBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)
MAY , 1977					AUG , 1977				
24...	1230	486	5	6.6	31...	1400	301	4	3.3
JUN					SEP				
08...	1030	417	4	4.5	14...	1030	118	2	.64
13...	1600	502	5	6.8	22...	1500	557	13	20
22...	1030	408	4	4.4	28...	1030	1870	11	56
JUL					OCT				
08...	1000	426	4	4.6	14...	0830	1490	3	12
21...	1000	326	3	2.6					
AUG									
04...	1000	296	6	4.8					
18...	1130	313	6	5.1					

HUDSON RIVER BASIN

137

01364500 ESOPUS CREEK AT MOUNT MARION, NY

LOCATION.--Lat 42°02'16", long 73°58'21", Ulster County, Hydrologic Unit 02020006, on left bank at downstream side of bridge on Glasco Turnpike, 0.8 mi (1.3 km) east of Mount Marion, 1.6 mi (2.6 km) downstream from Plattekill Creek, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--419 mi² (1,085 km²).

PERIOD OF RECORD.--May 1907 to March 1918 (monthly discharge only, published in WSP 1302) occasional miscellaneous measurements, 1951, 1956, 1966, 1967, 1969. March 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 40.16 ft (12.241 m) above mean sea level. Prior to Aug. 12, 1970, nonrecording gage at same site (at different datum May 1907 to March 1908, and at present datum June 9, 1966 to Aug. 12, 1970).

REMARKS.--Records fair except those for winter periods, which are poor. Flow from 256 mi² (663 km²) of drainage area regulated by Ashokan Reservoir since Sept. 9, 1913. Water diverted from Schoharie Creek through Shandaken Tunnel (see Reservoirs in Hudson River Basin) since Feb. 3, 1924, enters Esopus Creek about 12.2 mi (31.6 km) above Ashokan Reservoir. Large diversions from 33 mi² (85 km²) of Saw Kill and 17 mi² (44 km²) of Plattekill tributaries above station for water supply of Kingston and Saugerties. Diversions upstream during summer months for irrigation purposes. Diversions for water supply of city of New York made from Ashokan Reservoir (see Reservoirs in Hudson River Basin). Discharge records for this station now represent the natural flow from 112 mi² (290 km²), together with spillage during high stages from the upstream reservoirs.

AVERAGE DISCHARGE.--7 years (1971-77), 592 ft³/s (16.77 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 28,000 ft³/s (793 m³/s) Apr. 26, 1910, gage height, 25.10 ft (7.650 m), datum then in use; minimum, 10 ft³/s (0.28 m³/s) Aug. 20-22, 1970, gage height, 11.77 ft (3.587 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,920 ft³/s (196 m³/s) Mar. 14, gage height, 19.86 ft (6.053 m); minimum, 15 ft³/s (0.42 m³/s) Sept. 11-13, gage height, 11.88 ft (3.621 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	693	117	50	43	499	5040	626	80	67	26	21
2	127	514	108	76	43	538	3660	494	81	57	37	22
3	175	439	97	74	42	531	3180	418	81	50	36	23
4	329	415	91	72	41	664	2610	327	75	47	32	23
5	259	370	90	70	40	390	2670	368	69	44	28	21
6	203	383	90	66	40	250	3180	390	66	41	28	22
7	171	347	540	64	40	1210	2850	313	73	41	29	22
8	152	312	1380	64	39	423	2320	272	73	46	30	19
9	747	283	836	64	39	664	1870	616	81	51	30	17
10	1470	268	506	62	39	669	1450	1330	251	48	27	17
11	752	257	426	62	42	737	1210	1170	202	43	27	16
12	483	234	349	60	45	714	1060	1120	144	43	27	15
13	364	217	309	58	60	250	986	1100	118	45	28	15
14	319	202	253	56	90	570	899	1040	101	47	28	18
15	281	191	219	56	84	390	773	932	94	43	28	20
16	237	182	216	54	76	410	575	737	86	39	26	24
17	206	172	208	52	60	330	387	560	77	58	26	57
18	144	167	196	50	60	2480	277	422	90	82	28	51
19	167	160	172	50	60	2200	236	336	152	65	28	51
20	185	153	167	50	58	1750	211	274	110	50	25	1350
21	2450	145	177	49	58	1430	191	224	93	42	23	1110
22	1500	140	144	48	56	1580	179	202	79	37	31	451
23	845	135	130	48	56	3750	191	175	70	32	50	299
24	583	127	120	47	62	2770	842	155	65	30	40	336
25	581	124	110	46	1100	2030	2130	141	64	30	37	1230
26	862	121	110	45	1530	1570	2140	126	100	35	32	1600
27	825	121	100	45	1200	1380	2040	115	90	33	28	1470
28	615	118	92	44	1140	1360	1640	104	74	29	25	785
29	491	123	90	43	---	1720	1240	94	69	27	24	481
30	409	133	86	43	---	2370	874	90	71	25	22	336
31	545	---	82	43	---	3740	---	85	---	25	21	---
TOTAL	16661	7246	7613	1741	6243	63519	46911	14356	2879	1352	907	9922
MEAN	537	242	246	56.2	223	2049	1564	463	96.0	43.6	29.3	331
MAX	2450	693	1380	80	1530	5750	5040	1330	251	82	50	1600
MIN	127	118	82	43	39	31	179	85	64	25	21	15
CAL YR 1976 TOTAL	224467			MEAN 613	MAX 15600	MIN 37						
WTR YR 1977 TOTAL	179350			MEAN 491	MAX 5750	MIN 15						

01365000 RONDOUT CREEK NEAR LOWES CORNERS, NY

LOCATION.--Lat 41°52'00", long 74°29'12", Sullivan County, Hydrologic Unit 02020007, on left bank 100 ft (30 m) downstream from small tributary, 350 ft (107 m) upstream from bridge on county road, 1.1 mi (1.8 km) upstream from Sugarloaf Brook, 1.1 mi (1.8 km) east of Lowes Corners, and 1.9 mi (3.1 km) southwest of Sundown.

DRAINAGE AREA.--38.5 mi² (99.7 km²).

PERIOD OF RECORD.--February 1937 to current year.

REVISED RECORDS.--WSP 1702: 1952.

GAGE.--Water-stage recorder. Datum of gage is 874.44 ft (266.529 m) above mean sea level. Prior to Oct. 4, 1938, nonrecording gage at highway bridge 350 ft (107 m) downstream at datum 847.00 ft (258.166 m) above mean sea level (levels by Board of Water Supply, City of New York). Oct. 4, 1938 to July 5, 1951, water-stage recorder at site 1.2 mi (1.9 km) downstream; Oct. 4, 1938 to July 3, 1949, datum 847.00 ft (258.166 m) and July 4, 1949 to July 5, 1951, datum 846.00 ft (257.861 m) above mean sea level (levels by Board of Water Supply, City of New York).

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--40 years, 97.7 ft³/s (2.767 m³/s), 34.46 in/yr (875 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,600 ft³/s (215 m³/s) July 22, 1938, from rating curve extended above 2,600 ft³/s (73.6 m³/s); maximum gage height, 10.38 ft (3.164 m) Oct. 15, 1955; minimum discharge, 4.2 ft³/s (0.12 m³/s) Nov. 13, 15, 21, 23, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s (34 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1430	1,420 40.2	5.81 1.771	Mar. 13	1445	*4,690 133	*8.59 2.618

Minimum discharge, 11 ft³/s (0.31 m³/s) Sept. 12, 13, gage height, 2.35 ft (0.716 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	240	36	37	24	64	403	146	35	19	16	13
2	53	192	33	36	23	68	345	137	38	18	18	13
3	110	186	30	37	23	62	467	125	32	17	16	13
4	88	199	33	36	23	150	337	114	29	17	15	12
5	72	173	37	35	23	555	439	230	28	17	14	12
6	66	156	32	35	23	320	411	167	28	18	14	14
7	61	144	161	34	23	217	308	146	31	19	16	13
8	70	129	126	34	22	170	265	134	27	32	16	12
9	632	118	92	34	22	182	218	167	51	21	15	12
10	496	110	92	33	22	265	195	221	144	18	16	12
11	282	100	90	33	22	385	175	224	49	17	16	12
12	210	92	86	32	22	464	167	215	40	22	18	11
13	176	86	84	32	22	2120	164	198	36	20	16	12
14	176	76	72	32	22	1510	154	175	35	21	15	17
15	146	70	79	32	23	610	137	154	32	18	15	14
16	129	66	70	31	24	429	125	139	30	18	14	20
17	113	62	70	29	24	322	114	125	29	21	16	38
18	102	61	64	28	23	265	107	114	29	21	16	19
19	94	59	59	27	22	224	100	112	28	18	14	19
20	240	59	42	27	21	186	92	97	26	18	13	100
21	583	56	66	27	21	172	84	84	26	17	13	51
22	305	51	51	26	22	224	82	76	25	16	24	29
23	233	48	51	25	23	215	125	67	23	15	20	26
24	233	45	48	24	30	161	330	60	24	15	16	71
25	252	42	45	24	150	134	330	53	27	16	16	357
26	380	41	48	24	95	125	262	47	29	17	14	517
27	265	41	41	24	54	141	252	44	25	15	14	311
28	221	47	42	24	78	169	212	42	24	16	13	201
29	189	45	42	24	---	420	183	42	26	15	13	146
30	167	41	35	24	---	756	161	39	22	14	13	114
31	335	---	36	24	---	663	---	38	---	14	13	---
TOTAL	6535	2835	1893	924	926	11749	6744	3732	1028	560	478	2211
MEAN	211	94.5	61.1	29.8	33.1	379	225	120	34.3	18.1	15.4	73.7
MAX	632	240	161	37	150	2120	467	230	144	32	24	517
MIN	53	41	30	24	21	62	82	38	22	14	13	11
CFSM	5.48	2.45	1.59	.77	.86	9.84	5.84	3.12	.89	.47	.40	1.91
IN.	6.31	2.74	1.83	.89	.89	11.35	6.52	3.61	.99	.54	.46	2.14

CAL YR 1976 TOTAL 43697 MEAN 119 MAX 1700 MIN 21 CFSM 3.09 IN 42.22
WTR YR 1977 TOTAL 39615 MEAN 109 MAX 2120 MIN 11 CFSM 2.83 IN 38.28

Note.--No gage-height record Jan. 31 to Mar. 4.

HUDSON RIVER BASIN

139

01365500 CHESTNUT CREEK AT GRAHAMSVILLE, NY

LOCATION.--Lat 41°50'42", long 74°32'27", Sullivan County, Hydrologic Unit 02020007, on right bank just downstream from bridge in Gramhamsville, 600 ft (183 m) downstream from Red Brook, and 0.6 mi (1.0 km) upstream from bridge on State Highway 55.

DRAINAGE AREA.--20.9 mi² (54.1 km²).

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 880.96 ft (268.516 m) above mean sea level.

REMARKS.--Records fair except those for the winter periods, which are poor. Slight seasonal regulation caused by Beaverdam Pond on Red Brook.

AVERAGE DISCHARGE.--39 years, 39.0 ft³/s (1.104 m³/s), 25.34 in/yr (644 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,640 ft³/s (131 m³/s) Oct. 15, 1955, gage height, 5.02 ft (1.530 m), from rating curve extended above 1,300 ft³/s (36.8 m³/s) on basis of slope-area measurement at gage height 4.68 ft (1.426 m); minimum, 1.4 ft³/s (0.040 m³/s) Nov. 1, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	0115	*1,570 44.5	*2.99 0.911	Sept. 26	0945	908 25.7	2.48 0.756

Minimum discharge, 2.6 ft³/s (0.074 m³/s) Sept. 11, 12, gage height, 0.38 ft (0.116 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	87	14	17	11	25	131	51	17	8.2	12	6.0
2	13	69	13	17	11	50	143	49	20	7.3	16	6.0
3	51	69	11	16	11	46	187	47	15	6.8	12	6.0
4	37	87	12	16	11	113	119	44	14	6.4	10	4.6
5	27	71	12	15	10	210	176	113	14	6.8	8.7	4.3
6	21	69	12	15	9.8	137	143	78	14	6.8	8.2	5.0
7	18	61	85	15	9.6	94	110	63	17	7.7	12	4.3
8	20	53	51	14	9.4	78	94	55	14	17	10	4.0
9	226	46	30	14	9.2	87	78	78	32	9.8	8.2	4.0
10	147	47	24	14	9.0	116	71	97	33	7.7	12	3.8
11	92	44	29	14	8.8	140	65	73	21	7.3	9.8	3.2
12	69	37	25	14	8.6	143	61	63	18	11	14	3.0
13	55	34	21	14	8.6	290	55	55	15	8.7	10	5.3
14	62	32	22	14	9.0	680	49	47	14	8.2	9.8	12
15	46	30	24	14	10	218	46	42	14	7.3	9.8	6.8
16	35	29	24	14	10	156	42	36	13	10	7.7	17
17	32	27	23	13	9.0	116	39	32	12	25	12	31
18	29	25	22	13	9.0	92	38	31	12	21	11	15
19	25	25	23	13	8.6	82	35	33	11	26	7.3	12
20	87	24	24	13	8.4	69	35	29	10	23	6.4	33
21	161	23	23	13	8.4	67	32	28	10	13	5.6	21
22	97	21	21	12	8.4	125	31	26	9.3	9.8	14	20
23	73	20	20	12	9.0	149	47	24	8.7	7.7	9.3	14
24	78	20	20	12	15	97	183	23	8.2	7.3	8.2	39
25	89	18	20	12	250	75	156	21	11	9.3	7.7	162
26	137	18	20	12	50	69	105	21	11	9.8	6.4	285
27	89	20	20	12	25	82	97	19	8.7	7.3	6.4	122
28	69	19	19	12	20	102	80	18	7.7	6.4	7.3	73
29	59	25	18	12	---	244	67	17	12	6.0	6.0	47
30	51	18	18	12	---	280	57	17	9.3	6.8	5.6	38
31	131	---	17	11	---	195	---	16	---	6.0	5.6	---
TOTAL	2140	1168	717	421	576.8	4427	2572	1346	425.9	321.4	289.0	1007.3
MEAN	69.0	38.9	23.1	13.6	20.6	143	85.7	43.4	14.2	10.4	9.32	33.6
MAX	226	87	85	17	250	680	187	113	33	26	16	285
MIN	13	18	11	11	8.4	25	31	16	7.7	6.0	5.6	3.0
CFSM	3.30	1.86	1.11	.65	.99	6.84	4.10	2.08	.68	.50	.45	1.61
IN.	3.81	2.08	1.28	.75	1.03	7.88	4.58	2.40	.76	.57	.51	1.79

CAL YR 1976 TOTAL 19035.8 MEAN 52.0 MAX 649 MIN 7.8 CFSM 2.49 IN 33.88
WTR YR 1977 TOTAL 15411.4 MEAN 42.2 MAX 680 MIN 3.0 CFSM 2.02 IN 27.43

Note.--No gage-height record Dec. 13 to Mar. 2.

HUDSON RIVER BASIN

01366650 SANDBURG CREEK AT ELLENVILLE, NY

LOCATION.--Lat 41°42'54", long 74°23'21", Ulster County, Hydrologic Unit 02020007, on right bank at upstream side of bridge on Canal Street, at Ellenville, 800 ft (244 m) downstream from North Gully, 0.5 mi (0.8 km) upstream from Beer Kill, and 1.7 mi (2.7 km) upstream from mouth.

DRAINAGE AREA.--56.7 mi² (147 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1943, 1949-50, 1955-1957. April 1957 to current year.

REVISED RECORDS.--WRD NY 1971: 1969(P).

GAGE.--Water-stage recorder. Datum of gage is 303.22 ft (92.421 m) above mean sea level. Prior to Aug. 28, 1957, nonrecording gage.

REMARKS.--Records fair except those for winter periods, which are poor. Occasional regulation when filling swimming pools or small ponds upstream from station.

AVERAGE DISCHARGE.--20 years, 101 ft³/s (2.860 m³/s), 24.19 in/yr (614 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,660 ft³/s (132 m³/s) Aug. 19, 1960, gage height, 7.01 ft (2.137 m); minimum 3.2 ft³/s (0.091 m³/s) Oct. 14, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (23 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1700	1,180 33.4	4.36 1.329	Mar. 14	0500	*2,070 58.6	*5.77 1.759
Oct. 21	0330	862 24.4	3.73 1.137	Mar. 30	1930	1,090 30.9	4.18 1.274
Dec. 7	1415	822 23.3	3.65 1.113	Apr. 3	0330	975 27.6	3.95 1.204
Mar. 4	2345	923 26.1	3.85 1.173				

Minimum discharge, 14 ft³/s (0.40 m³/s) Sept. 12, 13, gage height, 0.69 ft (0.210 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	232	40	37	27	240	428	120	34	24	17	17
2	60	182	38	36	27	186	370	114	35	21	26	17
3	340	162	38	36	27	162	697	106	31	20	24	17
4	331	177	38	35	27	326	413	94	29	19	24	17
5	191	175	43	35	27	677	568	243	27	19	21	16
6	144	180	42	34	28	460	482	198	27	20	23	16
7	120	169	367	33	28	326	358	164	33	21	21	16
8	112	154	283	33	28	254	292	136	29	21	22	16
9	626	134	166	32	28	243	232	189	57	21	20	16
10	524	128	136	32	28	292	198	208	152	19	19	16
11	295	122	126	32	28	314	175	175	66	17	19	16
12	208	110	116	31	29	292	160	150	48	18	21	15
13	169	100	96	31	32	970	148	130	41	19	20	17
14	160	94	75	31	43	1420	134	110	38	18	19	17
15	136	86	72	30	38	581	120	98	37	17	20	16
16	118	80	66	30	33	398	110	86	34	43	19	16
17	102	77	62	30	32	295	100	79	32	54	24	17
18	92	74	58	30	32	245	88	72	33	32	25	18
19	84	71	54	30	31	213	82	69	32	25	21	25
20	144	68	52	29	31	182	82	65	28	21	19	50
21	602	64	49	29	31	173	77	59	26	21	19	30
22	317	60	47	29	31	237	74	54	25	20	18	22
23	221	58	46	28	32	331	84	50	24	19	19	20
24	196	56	44	28	38	234	243	49	23	18	18	45
25	232	54	43	28	450	193	331	46	25	20	19	349
26	373	54	42	28	367	184	229	43	28	23	17	326
27	265	52	41	28	268	211	232	40	25	19	16	206
28	213	52	40	28	323	277	184	38	23	18	17	110
29	180	70	39	27	---	540	154	36	28	17	16	74
30	160	80	39	27	---	872	136	36	29	17	16	57
31	265	---	38	27	---	714	---	35	---	18	16	---
TOTAL	7046	3175	2436	954	2144	12042	6981	3092	1099	679	615	1610
MEAN	227	106	78.6	30.8	76.6	388	233	99.7	36.6	21.9	19.8	53.7
MAX	626	232	367	37	450	1420	697	243	152	54	26	349
MIN	60	52	38	27	27	162	74	35	23	17	16	15
CFSM	4.00	1.87	1.39	.54	1.35	6.84	4.11	1.76	.65	.39	.35	.95
IN.	4.62	2.08	1.60	.63	1.41	7.90	4.58	2.03	.72	.45	.40	1.06

CAL YR 1976 TOTAL 44793 MEAN 122 MAX 1300 MIN 21 CFSM 2.15 IN 29.39
WTR YR 1977 TOTAL 41873 MEAN 115 MAX 1420 MIN 15 CFSM 2.03 IN 27.47

HUDSON RIVER BASIN

141

01367500 RONDOUT CREEK AT ROSENDALE, NY

LOCATION.--Lat 41°50'35", long 74°05'11", Ulster County, Hydrologic Unit 02020007, on left bank 30 ft (9 m) upstream from bridge on James Street in Rosendale, and 3 mi (5 km) upstream from Wallkill River.

DRAINAGE AREA.--386 mi² (1,000 km²) (see REMARKS below).

PERIOD OF RECORD.--July 1901 to November 1903, October 1905 to January 1919, August 1926, to current year. Monthly discharge only for some periods, published in WSP 1302, and WRD NY 1970.

REVISED RECORDS.--WSP 641: Drainage Area. WSP 756: 1933.

GAGE.--Water-stage recorder. Datum of gage is 32.83 ft (10.007 m) above mean sea level. Prior to January 1919, nonrecording gage at site 150 ft (46 m) downstream at datum 38.83 ft (11.835 m) above mean sea level. Aug. 3, 1926 to Sept. 10, 1969, at present site at datum 42.83 ft (13.055 m) above mean sea level. Sept. 11, 1969 to Feb. 3, 1970, water-stage recorder, and June 9, 1970 to Jan. 18, 1971, nonrecording gage at site 0.2 mi (0.3 km) upstream at datum 44.03 ft (13.420 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Occasional regulation from hydroelectric plant upstream from station. Diversion from Rondout Creek through the emergency connection to the Delaware Aqueduct at Lackawack for New York City water supply during period April 1944 to May 1951. Since October 1950, flow regulated by Rondout Reservoir (see Reservoirs in Hudson River Basin). Subsequent to May 1951, entire flow except for period of spilling, diverted from Rondout Reservoir for New York City water supply. Discharge records for this station now represent the natural flow from 272 mi² (704 km²), together with spillage during high flow from Rondout Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,800 ft³/s (1,010 m³/s) Oct. 16, 1955, gage height, 36.8 ft (11.22 m), datum then in use, from floodmarks, from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of contracted-opening measurement at gage height 33.93 ft (10.342 m); minimum, 2.2 ft³/s (0.062 m³/s) July 16, 1965; minimum daily, 3.0 ft³/s (0.085 m³/s) July 16, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,900 ft³/s (365 m³/s) Mar. 14, gage height, 18.03 ft (5.496 m); minimum, 44 ft³/s (1.25 m³/s) Sept. 8, 9, 10, 11, gage height, 8.97 ft (2.734 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298	1280	268	220	110	1580	2490	574	139	106	54	53
2	281	901	268	210	110	1110	1770	508	146	84	56	51
3	1670	791	298	200	110	910	3300	496	139	69	65	53
4	2080	832	360	200	110	1390	2110	430	124	62	62	48
5	974	758	442	190	110	4880	2810	928	114	62	62	47
6	696	964	402	180	100	3100	2780	910	114	60	57	46
7	560	832	1990	170	100	1990	1880	750	133	62	60	45
8	490	742	2140	170	100	1430	1510	629	133	69	60	45
9	3170	658	1030	160	100	1210	1090	1130	149	92	60	44
10	3640	567	875	160	110	1440	910	1370	946	84	57	45
11	1780	547	742	160	120	1690	799	1060	502	65	57	45
12	1180	484	567	150	150	1590	703	919	307	65	60	51
13	928	430	502	150	200	4620	629	719	222	65	60	53
14	791	397	430	150	230	11300	567	574	181	76	62	76
15	696	381	541	140	200	5040	496	490	163	62	60	103
16	541	360	402	140	180	2420	454	425	149	59	59	120
17	454	345	360	140	150	1700	419	375	133	108	62	163
18	408	335	345	130	140	1240	370	345	130	127	96	166
19	370	330	345	130	140	1090	335	350	133	103	96	130
20	425	320	307	130	130	955	320	330	120	92	72	237
21	4470	311	300	130	130	875	311	302	108	72	57	335
22	2050	298	290	130	130	1100	307	289	100	60	59	214
23	1350	289	280	120	140	2620	320	256	92	57	59	163
24	964	281	270	120	500	1630	1450	233	88	54	62	173
25	1240	272	260	120	3400	1140	2730	218	92	57	59	1720
26	2050	268	250	120	2610	1050	1700	204	106	80	57	1830
27	1490	268	240	120	1910	1220	1530	181	108	92	56	1440
28	1110	268	240	120	2100	1560	1190	170	92	60	54	758
29	928	298	230	120	---	2820	946	156	100	56	51	508
30	807	330	230	110	---	4760	696	149	127	54	50	397
31	1170	---	220	110	---	4290	---	146	---	54	50	---
TOTAL	39061	15137	15424	4600	13620	73750	36922	15616	5190	2268	1891	9159
MEAN	1260	505	498	148	486	2379	1231	504	173	73.2	61.0	305
MAX	4470	1280	2140	220	3400	11300	3300	1370	946	127	96	1830
MIN	281	268	220	110	100	875	307	146	88	54	50	44
CAL YR 1976 TOTAL	243417			MEAN 665	MAX 8980	MIN 140						
WTR YR 1977 TOTAL	232638			MEAN 637	MAX 11300	MIN 44						

HUDSON RIVER BASIN

01368000 WALLKILL RIVER NEAR UNIONVILLE, NY

LOCATION.--Lat 41°15'36", long 74°32'56", Sussex County, New Jersey, Hydrologic Unit 02020007, on right bank on downstream side of bridge on the Bassetts Bridge Road, 0.6 mi (1.0 km) upstream from small tributary, 2.0 mi (3.2 km) south of the New York-New Jersey State line, and 3.0 mi (4.8 km) south of Unionville. Water-quality sampling site at discharge station.

DRAINAGE AREA.--140 mi² (363 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1937 to current year.

REVISED RECORDS.--WRD NY 1966: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft 119 m, from topographic map. Prior to Nov. 16, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor, and periods of recession above 600 ft³/s (17 m³/s), which may be as much as 35 percent in error. Water diverted from Morris Lake, upstream from station, by the Newton Water and Sewer Authority for municipal use in New Jersey. After use, the water is released into Paulins Kill (Delaware River basin). Diversion records available from the Delaware River Basin Commission.

AVERAGE DISCHARGE.--40 years, 215 ft³/s (6.089 m³/s), 20.86 in/yr (530 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,880 ft³/s (195 m³/s) Aug. 19, 1955, gage height, 13.35 ft (4.069 m); minimum daily, 4.2 ft³/s (0.12 m³/s) Aug. 8-10, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s (34.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 26	1745	1,680 47.6	8.67 2.643	Mar. 24	0230	*1,790 50.7	*8.87 2.704
Mar. 15	1500	1,490 42.2	8.32 2.536				

Minimum discharge, 11 ft³/s (0.31 m³/s) Sept. 12, gage height, 2.85 ft (0.869 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	340	91	60	50	740	314	218	59	25	13	15
2	91	256	88	60	49	456	286	200	74	23	13	16
3	134	211	71	60	49	326	566	191	64	21	14	30
4	191	198	67	58	49	368	671	172	51	20	31	23
5	176	201	64	58	48	789	691	236	46	19	28	16
6	98	258	61	56	48	1000	858	268	45	20	21	14
7	85	222	171	56	48	820	920	304	60	22	33	16
8	80	186	518	56	47	600	760	314	62	34	35	17
9	208	161	385	54	47	418	560	291	60	37	25	18
10	464	151	288	54	47	354	445	298	196	26	21	14
11	335	148	236	54	47	324	383	265	186	21	24	12
12	209	139	199	54	47	298	342	219	107	28	23	13
13	163	128	177	54	50	371	308	190	77	49	20	14
14	153	120	140	54	70	883	280	168	63	33	21	12
15	139	122	130	52	150	1440	247	151	61	25	29	12
16	120	117	120	52	100	1300	225	141	57	21	25	13
17	115	112	110	52	80	920	205	134	47	26	26	33
18	105	113	110	52	70	640	193	123	44	26	74	41
19	95	108	100	52	68	489	184	116	45	20	43	32
20	100	106	94	52	66	459	174	112	47	17	27	43
21	376	100	88	52	64	418	164	104	42	17	22	71
22	434	96	84	52	62	590	154	97	47	16	22	53
23	312	90	80	52	70	1400	153	88	38	14	28	42
24	226	83	76	52	150	1700	285	81	31	13	25	48
25	256	80	74	52	961	1400	421	79	29	13	22	280
26	349	77	70	52	1610	1100	375	75	35	17	20	441
27	344	81	68	50	1400	840	425	67	37	16	18	385
28	267	86	66	50	1000	640	403	60	29	14	16	245
29	224	108	64	50	---	221	305	55	29	13	16	148
30	199	135	64	50	---	450	248	55	27	12	16	98
31	258	---	62	50	---	380	---	59	---	13	14	---
TOTAL	6333	4333	4016	1662	6547	22434	11545	4931	1795	671	765	2215
MEAN	204	144	130	53.6	234	724	385	159	59.8	21.6	24.7	73.8
MAX	464	340	518	60	1610	1700	920	314	196	49	74	441
MIN	77	77	61	50	47	298	153	55	27	12	13	12
CFSM	1.46	1.03	.93	.38	1.67	5.17	2.75	1.14	.43	.15	.18	.53
IN.	1.68	1.15	1.07	.44	1.74	5.96	3.07	1.31	.48	.18	.20	.59
CAL YR 1976	TOTAL	74894	MEAN 205	MAX 2220	MIN 24	CFSM 1.46	IN 19.90					
WTR YR 1977	TOTAL	67247	MEAN 184	MAX 1700	MIN 12	CFSM 1.31	IN 17.87					

HUDSON RIVER BASIN

143

01368000 WALLKILL RIVER NEAR UNIONVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1963 to current year.

SEDIMENT ANALYSES: Water year 1971.

COOPERATION.--Field data and samples for laboratory analyses supplied by New Jersey Department of Environmental Protection, Division of Water Resources after October 1975. Analyses of fecal coliform and fecal streptococci by the MPN method were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	FECAL STREP- TOCOCCI (MPN)	HARD- NESS (CA+MG) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)
OCT 21...	1100	398	280	10.0	10	9.4	4.0	5400	>2400	94	26	7.0
DEC 02...	1130	88	342	1.0	4	13.2	3.0	<20	49	88	23	7.4
FEB 28...	1130	1120	203	5.0	10	11.2	--	220	540	65	17	5.5
MAR 22...	1055	444	328	5.0	2	12.7	<.5	<20	33	130	31	13
APR 19...	1130	184	332	14.0	7	7.3	2.0	20	49	110	38	4.3
MAY 12...	1130	220	304	13.0	8	7.0	1.0	2400	33	120	32	10
JUN 15...	1130	63	376	19.0	1	3.7	<.5	130	240	160	41	14
JUL 20...	1050	17	424	28.0	1	5.1	1.0	20	79	190	46	18
AUG 10...	1100	20	412	24.0	2	8.2	6.0	110	23	170	42	17

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	ALKA- LINIT- AS CACO3 (MG/L)	DIS- SOL- VED SUL- FIDE (S) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
OCT 21...	13	3.4	--	--	31	21	--	143	32	--	--
DEC 02...	8.0	1.0	--	--	18	18	--	130	12	--	--
FEB 28...	11	2.7	47	--	18	20	--	127	24	--	--
MAR 22...	14	1.5	107	--	19	26	--	176	20	--	--
APR 19...	13	1.7	105	--	23	25	--	169	14	--	--
MAY 12...	12	1.3	97	.0	19	22	4.5	166	5	--	--
JUN 15...	14	1.8	--	--	22	26	--	246	13	--	--
JUL 20...	15	2.3	--	--	27	29	--	261	14	.30	.02
AUG 10...	17	3.4	--	--	27	32	--	243	26	.34	.01

01368000 WALLKILL RIVER NEAR UNIONVILLE, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)
OCT 21...	--	--	1.4	--	--	--	6.9	--	--	--	--
DEC 02...	--	--	1.1	--	--	--	3.6	--	--	--	--
FFB 28...	--	--	1.7	--	.36	--	5.3	--	--	--	--
MAR 22...	--	--	1.4	--	.12	--	.9	--	--	--	--
APR 19...	--	--	1.1	--	.12	--	6.3	--	--	--	--
MAY 12...	--	--	1.4	--	.12	--	4.9	50	0	0	0
JUN 15...	--	--	1.4	--	.06	--	6.2	--	--	--	--
JUL 20...	.15	.63	.78	1.1	.13	.04	6.2	--	--	--	--
AUG 10...	.16	1.5	1.7	2.1	.17	.07	5.2	--	--	--	--

[illegible]

HUDSON RIVER BASIN

145

01369000 POCHUCK CREEK NEAR PINE ISLAND, NY

LOCATION.--Lat 41°16'32", long 74°28'18", Orange County, Hydrologic Unit 02020007, on right bank 75 ft (23 m) downstream from bridge on Newport Bridge Road at Newport, 1.5 mi (2.4 km) south of Pine Island, 3.2 mi (5.1 km) west of Edenville, and 4.1 mi (6.6 km) upstream from mouth.

DRAINAGE AREA.--98.0 mi² (254 km²).

PERIOD OF RECORD.--September 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 382.39 ft (116.552 m) above mean sea level (levels by Corps of Engineers). Modified concrete control from July 1944 to April 1960.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--40 years, 164 ft³/s (4.644 m³/s), 22.73 in/yr (577 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,090 ft³/s (87.5 m³/s) Oct. 16, 1955, gage height, 8.62 ft (2.627 m); minimum, 1.1 ft³/s (0.031 m³/s) Aug. 30, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 840 ft³/s (24 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 26	1300	954 27.0	4.83 1.472	Mar. 24	0145	*1,150 32.6	*5.46 1.664

Minimum discharge recorded, 7.2 ft³/s (0.20 m³/s) Aug. 31, gage height, 1.08 ft (0.329 m), but may have been less during period of no gage-height record June 17 to Aug. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	260	72	60	33	353	356	123	39	20	9.0	8.9
2	90	253	71	58	33	320	324	106	42	18	9.4	9.4
3	110	241	71	58	32	280	379	94	46	17	11	9.4
4	140	225	60	56	32	250	427	90	42	17	21	9.1
5	108	213	63	54	32	310	500	88	36	16	18	8.2
6	92	207	60	52	32	503	611	130	31	16	15	8.7
7	79	190	129	52	32	500	597	180	35	17	21	8.4
8	74	174	274	52	31	435	532	180	37	18	20	14
9	142	154	267	50	31	371	469	170	40	18	17	20
10	247	145	247	50	31	291	403	160	70	16	14	13
11	247	138	237	50	32	250	349	160	118	14	16	11
12	222	127	193	49	32	225	305	154	96	18	15	8.7
13	182	119	180	48	32	234	263	147	76	21	14	8.7
14	149	116	150	47	34	368	240	130	61	20	15	9.1
15	127	106	136	47	45	507	210	120	54	17	20	9.1
16	112	95	125	47	110	496	180	110	51	15	14	13
17	99	90	119	46	80	435	160	110	48	16	16	23
18	88	88	116	46	68	383	140	100	45	17	25	22
19	82	85	108	45	62	349	130	92	40	15	19	26
20	90	83	106	45	56	331	110	88	37	13	15	31
21	253	83	100	45	50	305	100	80	34	11	12	35
22	331	80	92	44	47	375	92	74	33	10	12	31
23	356	77	88	43	45	915	90	68	30	9.0	13	30
24	349	74	82	41	52	1120	110	64	28	9.0	12	38
25	327	71	76	40	80	957	200	58	26	10	11	149
26	324	68	74	40	68	776	280	54	28	11	9.9	193
27	327	71	70	39	62	637	250	50	25	12	9.4	215
28	316	71	68	38	56	546	207	45	24	10	8.9	179
29	294	82	66	37	---	496	179	40	24	9.4	8.2	138
30	270	90	64	35	---	444	147	36	22	9.0	7.8	103
31	253	---	62	34	---	399	---	37	---	8.8	7.6	---
TOTAL	5960	3876	3626	1448	1330	14161	8340	3138	1318	448.2	436.2	1381.7
MEAN	192	129	117	46.7	47.5	457	278	101	43.9	14.5	14.1	45.1
MAX	356	260	274	60	110	1120	611	180	118	21	25	215
MIN	74	68	60	34	31	225	90	36	22	8.8	7.6	8.2
CFSM	1.96	1.32	1.19	.48	.48	4.66	2.84	1.03	.45	.15	.14	.47
IN.	2.26	1.47	1.38	.55	.50	5.38	3.17	1.19	.50	.17	.17	.52

CAL YR 1976 TOTAL 57178.0 MEAN 156 MAX 1230 MIN 22 CFSM 1.59 IN 21.70
WTR YR 1977 TOTAL 45463.1 MEAN 125 MAX 1120 MIN 7.6 CFSM 1.28 IN 17.26

Note.--No gage-height record Jan. 15 to Feb. 24, June 17 to Aug. 15.

HUDSON RIVER BASIN

01369500 QUAKER CREEK AT FLORIDA, NY

LOCATION.--Lat 41°20'21", long 74°21'45", Orange County, Hydrologic Unit 02020007, on right bank at downstream side of private bridge, just downstream from Browns Creek, at Florida, and 5.0 mi (8.0 km) southwest of Goshen.

DRAINAGE AREA.--9.74 mi² (25.2 km²).

PERIOD OF RECORD.--September 1937 to current year.

REVISED RECORDS.--WSP 951: 1938(M).

GAGE.--Water-stage recorder. Concrete control since August 1943. Datum of gage is 393.32 ft (119.884 m) above mean sea level (levels by Soil Conservation Service). Prior to Dec. 12, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Minor amount of diversion upstream during low-flow periods for irrigation purposes. Some diversion from Glenmore Lake for village of Florida water supply.

AVERAGE DISCHARGE.--40 years, 12.7 ft³/s (0.360 m³/s), 17.71 in/yr (450 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft³/s (29.7 m³/s) Sept. 21, 1938, gage height, 6.0 ft (1.83 m), from floodmarks, from rating curve extended above 230 ft³/s (6.51 m³/s) on basis of contracted-opening measurement at gage height 5.8 ft (1.77 m); minimum, no flow Aug. 30, 1966 (result of temporary pumping from gage pool).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 25	0015	*372 10.54	*3.83 1.167	Mar. 22	1945	302 8.55	3.54 1.079

Minimum discharge, 0.23 ft³/s (0.007 m³/s) Sept. 12, gage height, 1.25 ft (0.381 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	17	3.4	2.6	1.0	26	16	11	2.1	.56	.46	.51
2	3.6	14	3.2	2.5	.90	21	30	10	1.4	.56	.46	.51
3	19	12	2.9	2.4	.90	18	78	9.4	1.0	.51	.81	.46
4	8.1	12	2.3	2.3	.90	45	32	8.1	.96	.51	.62	.41
5	5.9	15	2.4	2.2	.90	68	107	21	.96	.51	.50	.41
6	4.9	15	3.0	2.1	.90	34	63	18	1.2	.68	.68	.51
7	3.4	12	45	2.1	.90	27	40	14	1.7	.74	.62	.46
8	3.3	10	21	2.1	.90	23	32	9.9	1.3	.81	.56	.46
9	48	8.9	11	2.0	.90	21	26	22	3.7	.68	.50	.41
10	19	9.2	10	2.0	1.0	21	22	17	11	.56	.56	.41
11	11	8.2	9.0	2.0	1.3	20	20	11	3.5	.56	.56	.41
12	8.7	7.3	8.0	2.0	4.0	18	17	9.4	2.1	1.7	.50	.41
13	7.9	6.7	7.0	2.0	10	48	15	7.7	1.6	.81	.62	.41
14	7.6	6.3	6.6	2.0	8.0	51	13	6.5	1.4	.68	.62	.51
15	6.3	5.8	6.0	2.0	6.0	29	10	5.8	1.4	.62	.62	.41
16	5.2	5.5	5.8	2.1	4.5	25	9.0	4.0	1.2	.68	.50	1.6
17	4.4	5.1	5.6	2.1	3.5	20	8.1	3.7	.96	.62	1.3	1.0
18	4.1	5.4	5.4	2.1	3.2	20	7.3	3.2	.96	.56	.68	.56
19	3.7	5.2	5.0	2.1	3.1	26	6.1	3.0	.88	.56	.56	.81
20	25	4.8	4.6	2.0	3.0	21	5.8	2.8	.81	.56	.51	.96
21	58	4.3	4.3	1.7	2.9	26	5.4	2.6	.74	.56	.51	.68
22	19	4.0	4.0	1.6	2.9	125	4.8	2.1	.68	.56	1.0	.61
23	14	3.7	3.8	1.5	2.8	156	10	1.8	.68	.50	.61	.61
24	14	3.5	3.7	1.5	2.8	74	33	1.5	.68	.50	.56	3.0
25	18	3.2	3.5	1.4	197	46	35	1.6	.81	.62	.51	18
26	39	3.2	3.4	1.4	63	37	21	1.4	.68	.56	.51	11
27	20	4.0	3.3	1.3	40	31	28	1.3	.61	.46	.51	7.7
28	16	3.5	3.2	1.3	39	30	18	1.2	.61	.41	.46	3.5
29	15	7.7	3.1	1.2	---	29	14	1.0	.61	.41	.56	2.3
30	13	5.0	2.9	1.2	---	23	12	1.3	.56	.46	.51	1.7
31	27	---	2.7	1.1	---	20	---	1.2	---	.41	.51	---
TOTAL	455.5	227.5	205.1	57.9	406.20	1179	738.5	214.5	46.79	18.92	18.49	60.73
MEAN	14.7	7.58	6.62	1.87	14.5	38.0	24.6	6.92	1.56	.61	.60	2.02
MAX	58	17	45	2.6	197	156	107	22	11	1.7	1.3	18
MIN	3.3	3.2	2.3	1.1	.90	18	4.8	1.0	.56	.41	.46	.41
CFSM	1.51	.78	.68	.19	1.49	3.90	2.53	.71	.16	.06	.06	.21
IN.	1.74	.87	.78	.22	1.55	4.50	2.82	.82	.18	.07	.07	.23

CAL YR 1976 TOTAL 4426.40 MEAN 12.1 MAX 195 MIN 1.2 CFSM 1.24 IN 16.90
WTR YR 1977 TOTAL 3629.13 MEAN 9.94 MAX 197 MIN .41 CFSM 1.02 IN 13.86

01371500 WALLKILL RIVER AT GARDINER, NY

LOCATION.--Lat 41°41'10", long 74°09'56", Ulster County, Hydrologic Unit 02020007, on left bank 400 ft (122 m) upstream from bridge on U.S. Highway 44, 500 ft (152 m) downstream from Shawangunk Kill, and 0.7 mi (1.1 km) northwest of Gardiner.

DRAINAGE AREA.--711 mi² (1,841 km²).

PERIOD OF RECORD.--September 1924 to current year.

REVISED RECORDS.--WSP 756: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 185.70 ft (56.601 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--53 years, 1,048 ft³/s (29.68 m³/s), 20.02 in/yr (509 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,800 ft³/s (872 m³/s) Oct. 16, 1955, gage height, 19.81 ft (6.038 m); minimum, 9.5 ft³/s (0.27 m³/s) Sept. 28, 1964; minimum gage height, 1.59 ft (0.48 m) Aug. 14, 15, 16, 19, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,400 ft³/s (181 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 25	0500	13,000 368	*†13.87 4.228	Mar. 14	0330	10,000 283	9.79 2.984
Mar. 5	0430	8,410 238	8.93 2.722	Mar. 23	0500	*14,100 399	11.90 3.627

† Ice jam.

Minimum discharge, 67 ft³/s (1.90 m³/s), Sept. 3, 9, 10, 12, 13, gage height, 2.06 ft (0.628 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	390	1920	400	370	240	4000	2330	1120	220	133	78	76
2	385	1500	330	360	240	3600	2070	976	220	120	198	74
3	1060	1200	300	350	240	2480	6050	904	231	109	174	74
4	1550	1060	290	340	240	3190	5160	819	212	104	147	72
5	934	1020	290	330	240	7510	5630	1500	194	100	144	74
6	680	1300	350	330	240	5550	6130	2050	187	98	147	87
7	557	1190	2960	320	240	4370	4730	1730	212	98	155	87
8	485	974	2820	320	240	3600	3930	1410	224	106	152	81
9	2100	862	1620	310	240	2800	3240	1920	264	116	144	69
10	3290	780	1300	310	270	2320	2630	2210	802	123	128	67
11	2000	758	1100	300	350	2110	2210	1620	913	116	113	74
12	1340	706	940	200	450	1900	1960	1280	648	118	108	70
13	942	652	720	290	500	4730	1770	1040	450	133	100	70
14	804	610	660	290	800	8620	1400	878	349	147	102	80
15	696	587	600	280	760	5970	1190	770	291	147	111	70
16	615	561	560	270	700	4840	1050	687	260	130	120	78
17	538	533	520	270	680	4140	948	618	231	205	128	118
18	504	516	500	270	660	3510	861	574	220	164	155	161
19	461	507	490	270	640	2880	802	533	286	147	171	155
20	502	495	480	270	620	2630	745	506	243	123	164	243
21	4290	474	460	260	600	2390	703	468	205	109	129	349
22	2780	456	450	260	600	3940	664	426	184	93	116	273
23	1850	441	440	260	600	12700	679	386	167	83	106	220
24	1430	414	430	260	620	8970	1710	354	161	78	104	314
25	1740	404	420	260	10000	6930	3820	324	149	85	104	3070
26	2720	395	410	250	8000	6050	2810	300	149	100	98	3890
27	2360	395	410	250	6300	5100	2630	277	149	93	89	2940
28	1670	395	390	250	5000	4320	2330	252	144	83	87	1730
29	1350	501	380	250	---	4170	1820	231	141	81	83	1040
30	1130	598	380	250	---	3560	1390	220	144	80	78	703
31	1620	---	370	250	---	2940	---	220	---	76	74	---
TOTAL	42773	22204	21770	8850	40310	141820	73392	26603	8250	3498	3807	16409
MEAN	1380	740	702	285	1440	4575	2446	858	275	113	123	547
MAX	4290	1920	2960	370	10000	12700	6130	2210	913	205	198	3890
MIN	385	395	290	200	240	1900	664	220	141	76	74	67
CFSM	1.94	1.04	.99	.40	2.03	6.43	3.44	1.21	.39	.16	.17	.77
IN.	2.24	1.16	1.14	.46	2.11	7.42	3.84	1.39	.43	.18	.20	.86
CAL YR 1976	TOTAL	386826	MEAN	1057	MAX	9000	MIN	157	CFSM	1.49	IN	20.24
WTR YR 1977	TOTAL	409686	MEAN	1122	MAX	12700	MIN	67	CFSM	1.58	IN	21.44

01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, NY

LOCATION.--Lat 41°39'11", long 73°52'23", Dutchess County, Hydrologic Unit 02020008, on left bank 700 ft (213 m) downstream from Red Oak Mill dam, and 4.5 mi (7.2 km) northeast of village of Wappingers Falls.

DRAINAGE AREA.--181 mi² (469 km²).

PERIOD OF RECORD.--May 1903 to June 1905 (gage heights only during some winter months), August 1928 to current year.

REVISED RECORDS.--WSP 741: 1932. WSP 1902: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 114.37 ft (34.860 m) above mean sea level (levels by Corps of Engineers). May 1903 to June 1905 staff gage at site 2.5 mi (4.0 km) downstream at different datum. Aug. 7, 1928 to Sept. 25, 1931, water-stage recorder at site 2 mi (3 km) downstream at different datum.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--49 years (1929-77), 252 ft³/s (7.137 m³/s), 18.91 in/yr (480 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft³/s (527 m³/s) Aug. 19, 1955, gage height, 19.60 ft (5.974 m), from floodmarks in gage shelter, from rating curve extended above 3,800 ft³/s (108 m³/s) on basis of flow-over-dam and contracted-opening measurement at gage height 18.02 ft (5.492 m) and contracted-opening and flow-over-road measurement at gage height 19.60 ft (5.974 m); minimum, 0.90 ft³/s (0.025 m³/s) Sept. 20, 21, 1964, gage height, 2.05 ft (0.625 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 4	0215	2,000 56.6	6.57 2.002	Mar. 14	2230	2,750 77.9	7.51 2.289
Feb. 25	1230	3,100 87.8	7.91 2.411	Mar. 23	0930	*3,370 95.4	*8.21 2.502
Mar. 5	0930	1,860 52.7	6.39 1.948				

Minimum discharge, 15 ft³/s (0.425 m³/s) Sept. 13, gage height, 2.46 ft (0.750 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	507	130	110	70	1010	995	385	120	66	31	23
2	111	421	120	110	68	780	871	347	120	59	62	21
3	703	382	110	110	70	638	981	334	106	53	70	24
4	1520	366	100	100	70	703	818	303	97	49	53	24
5	866	354	100	100	70	1670	1070	491	91	45	45	23
6	625	386	100	100	70	1330	1220	491	86	45	58	22
7	491	346	250	98	68	970	975	390	109	45	58	20
8	412	320	620	96	66	773	846	334	109	45	52	19
9	650	295	380	96	64	663	715	573	102	47	45	17
10	1110	284	382	96	64	612	626	1130	188	43	39	18
11	793	288	331	94	66	570	562	1120	226	38	37	19
12	619	265	298	92	76	518	506	903	174	43	36	17
13	513	249	250	90	110	813	465	715	128	48	42	16
14	470	239	210	90	250	2230	412	579	108	45	39	22
15	421	227	210	90	230	2290	368	491	97	38	45	20
16	370	219	219	90	150	1560	338	422	88	40	43	23
17	331	207	216	88	130	1160	311	381	79	44	45	45
18	305	204	216	86	120	956	291	347	80	51	45	53
19	281	207	199	86	100	866	270	326	137	58	41	48
20	291	199	196	84	90	793	252	303	143	44	36	49
21	637	188	281	84	86	722	239	277	130	37	32	66
22	513	175	190	82	84	1020	222	252	109	34	29	56
23	421	170	170	80	90	3040	245	219	91	29	29	46
24	370	160	150	78	100	2160	639	199	80	27	32	56
25	408	155	150	78	2100	1570	948	182	74	29	34	139
26	558	152	140	78	1900	1220	776	170	77	50	37	193
27	530	155	130	76	1300	1120	683	160	73	48	33	295
28	456	152	130	74	1380	1110	590	150	66	39	29	196
29	416	162	130	72	---	1470	496	140	64	33	29	141
30	378	175	120	72	---	1460	426	130	70	30	24	109
31	447	---	120	70	---	1190	---	130	---	29	23	---
TOTAL	16132	7609	6348	2750	9042	36987	18156	12374	3222	1331	1253	1820
MEAN	520	254	205	88.7	323	1193	605	399	107	42.9	40.4	60.7
MAX	1520	507	620	110	2100	3040	1220	1130	226	66	70	295
MIN	111	152	100	70	64	518	222	130	64	27	23	16
CFSM	2.87	1.40	1.13	.49	1.78	6.59	3.34	2.20	.59	.24	.22	.34
IN.	3.32	1.56	1.30	.57	1.86	7.60	3.73	2.54	.66	.27	.26	.37

CAL YR 1976	TOTAL	119653	MEAN 327	MAX 3030	MIN 46	CFSM 1.81	IN 24.59
WTR YR 1977	TOTAL	117024	MEAN 321	MAX 3040	MIN 16	CFSM 1.77	IN 24.05

HUDSON RIVER BASIN

149

01375000 CROTON RIVER AT NEW CROTON DAM, NEAR CROTON-ON-HUDSON, NY

LOCATION.--Lat 41°13'32", long 73°51'32", Westchester County, Hydrologic Unit 02030101, on left bank 1,000 ft (305 m) downstream from New Croton Dam, and 1.8 mi (2.9 km) northeast of Croton-On-Hudson.

DRAINAGE AREA.--378 mi² (979 km²).

PERIOD OF RECORD.--August 1933 to current year. Prior to Oct. 1, 1941, published as "at Quaker Bridge," (low-flow records at this site are not equivalent owing to well pumpage upstream). Fragmentary records published during August 1933 to September 1941 for "at Cornell Dam near Croton" and "at New Croton near Croton" are equivalent. Oct. 1, 1941 to Sept. 30, 1955 published as "at New Croton Dam near Croton".

REVISED RECORDS.--WRD NY 1969: 1968(M).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 50 ft (15 m), from topographic map. Prior to Oct. 1, 1941, supplementary water-stage recorder and concrete control at site 1.1 mi (1.8 km) downstream at Quaker Bridge.

REMARKS.--Records poor. Entire flow, except for periods of spilling and releases to augment Croton-on-Hudson water supply, diverted from New Croton Reservoir for municipal supply of City of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,400 ft³/s (1,290 m³/s) Oct. 16, 1955, gage height, 18.44 ft (5.621 m), from floodmarks, from rating curve extended above 9,700 ft³/s (275 m³/s) on basis of slope-area measurements of peak flow; minimum daily, 0.1 ft³/s (0.003 m³/s) Mar. 14, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,040 ft³/s (171 m³/s) Mar. 23, gage height, 7.81 ft (2.380 m); minimum daily, 0.27 ft³/s (0.008 m³/s) Feb. 8-12; minimum gage height recorded, 0.30 ft (0.091 m) Feb. 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	507	968	475	202	130	902	606	408	29	1.5	.93	.93
2	445	830	317	202	130	727	631	341	141	1.5	.85	.93
3	524	766	241	188	120	614	1670	348	116	1.2	.93	.77
4	639	743	163	179	120	953	1560	311	67	1.1	.89	.97
5	589	758	119	171	10	1940	2330	665	44	1.1	.89	.97
6	581	773	110	159	.50	1540	2280	909	50	1.1	.97	.97
7	573	735	558	167	.30	1280	1820	1020	74	1.1	.97	1.0
8	565	692	1410	152	.27	1180	1580	735	72	1.2	.97	1.0
9	1010	639	1090	131	.27	1090	1400	871	135	1.2	.89	1.0
10	1310	648	880	226	.27	1030	1240	1020	445	1.1	.97	1.0
11	894	639	781	281	.27	984	1120	846	394	1.1	.93	.97
12	720	648	711	206	.27	946	1010	735	231	.93	.97	.93
13	657	683	631	167	.28	1360	923	648	167	.89	1.0	.93
14	622	692	507	167	.29	2330	846	541	135	.93	.97	.97
15	597	692	467	188	.31	1780	735	445	94	.85	.93	.97
16	614	683	445	179	.35	1460	657	367	31	.93	.93	1.1
17	606	665	437	167	.38	1280	581	311	2.6	.97	.97	1.0
18	589	657	394	180	.43	1270	524	264	1.0	1.0	.89	.97
19	565	648	360	170	.50	1290	475	226	1.0	.89	.89	1.0
20	665	541	360	160	.58	1290	430	192	1.1	1.1	.85	1.1
21	1090	499	430	150	.70	1230	401	179	1.1	1.1	.85	1.1
22	984	467	354	150	.84	2030	374	167	1.1	.97	.85	1.1
23	821	460	306	130	.86	5210	394	152	1.1	1.0	.81	1.0
24	766	499	275	140	7.9	3070	581	138	1.1	.93	.85	.67
25	880	516	258	170	2550	2150	1040	122	1.1	.97	.81	.77
26	999	507	311	160	1880	1780	894	128	1.1	.97	.85	1.2
27	871	507	287	160	1230	1580	813	85	1.3	1.0	.85	.77
28	773	516	269	150	1080	1470	743	62	1.3	.97	.85	.97
29	727	565	252	150	---	1130	606	62	1.3	.89	.81	.85
30	692	550	236	150	---	887	483	12	1.3	.89	.81	.81
31	909	---	226	140	---	743	---	7.2	---	.97	.85	---
TOTAL	22784	19186	13660	5292	7265.57	46526	28747	12317.2	2242.5	32.35	27.78	28.72
MEAN	735	640	441	171	259	1501	958	397	74.8	1.04	.90	.96
MAX	1310	968	1410	281	2550	5210	2330	1020	445	1.5	1.0	1.2
MIN	445	460	110	130	.27	614	374	7.2	1.0	.85	.81	.67

CAL YR 1976 TOTAL 199534.00 MEAN 545 MAX 2150 MIN 1.0
WTR YR 1977 TOTAL 158109.12 MEAN 433 MAX 5210 MIN .27

Note.--No gage-height record Jan. 18 to Feb. 22.

HUDSON RIVER BASIN

01376280 SPARKILL CREEK AT SPARKILL, NY

LOCATION.--Lat 41°01'44", long 73°55'34", Rockland County, Hydrologic Unit 02030101, on right downstream wingwall of New Street Bridge, at Sparkill, 1.25 mi (2.0 km) upstream from mouth, and 1.25 mi (2.0 km) downstream from Sparkill Brook. Water-quality sampling site at discharge station.

DRAINAGE AREA.--11.1 mi² (28.7 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1959 to September 1963, May 1964 to September 1968, August 1976 to current year (no winter records).

GAGE.--Water-stage recorder. Datum of gage is 18.41 ft (5.611 m) above mean sea level.

REMARKS.--Records fair. Sewage effluent enters creek upstream. Occasional diversion upstream from gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 830 ft³/s (23.5 m³/s) May 29, 1968, gage height, 5.34 ft (1.628 m), minimum, 1.3 ft³/s (0.037 m³/s), Aug. 12, 1977, gage height, 0.38 ft (0.116 m).

EXTREMES FOR PERIOD AUGUST 1976 TO SEPTEMBER 1977.--Peak discharges above base of 200 ft³/s (5.66 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Aug. 10, 1976	1015	342 9.69	3.91 1.192	Mar. 23, 1977	0100	563 15.9	4.68 1.426
Feb. 25, 1977	0800	*704 19.9	*5.06 1.542	Apr. 5, 1977	1045	266 7.53	3.51 1.070

Minimum discharge, 1.3 ft³/s (0.037 m³/s) Aug. 12, 1977, gage height, 0.38 ft (0.116 m).

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	AUG 1976	SEP	OCT	NOV 1976	MAR 1977	APR	MAY	JUN	JUL	AUG	SEP 1977
1	20	7.0	7.2	22	22	16	9.0	23	3.7	6.2	3.2
2	6.2	9.6	6.7	14	16	34	8.7	9.9	3.6	4.9	3.2
3	5.1	12	37	12	14	76	9.0	6.0	2.9	4.3	2.9
4	4.7	5.0	14	9.9	74	29	8.2	4.7	3.7	3.9	2.6
5	4.5	4.2	8.2	18	130	197	23	4.1	2.9	2.9	2.9
6	4.3	3.7	7.2	14	40	68	28	4.7	2.8	2.9	3.1
7	5.5	3.2	6.7	13	27	34	21	6.7	2.9	2.9	3.2
8	11	3.0	6.4	9.9	21	27	11	4.7	3.9	2.9	2.8
9	18	2.9	59	10	17	22	20	37	4.3	2.8	2.9
10	242	32	29	12	15	20	17	53	3.4	8.7	11
11	41	19	11	11	14	19	12	12	2.5	2.5	3.4
12	13	14	8.5	8.2	11	18	9.9	7.7	11	2.1	2.5
13	9.6	7.0	7.7	7.2	79	17	9.0	6.7	6.2	6.9	2.5
14	9.9	5.4	7.4	7.4	101	16	7.7	6.4	3.4	13	2.8
15	13	3.6	6.9	7.2	36	15	7.2	6.0	3.1	8.5	2.2
16	52	17	6.7	6.0	25	13	6.9	5.7	3.1	3.6	7.7
17	12	44	6.2	7.2	19	13	6.7	5.5	3.7	36	25
18	8.5	21	6.2	9.3	24	12	6.4	5.3	2.9	11	3.7
19	6.9	8.8	6.4	9.6	35	12	6.7	5.1	3.6	3.7	5.1
20	6.4	7.4	26	9.3	26	11	6.4	17	3.4	4.1	10
21	6.2	8.0	66	9.3	23	11	6.0	23	3.4	3.6	6.0
22	5.7	6.8	16	9.6	161	11	5.5	4.9	2.8	8.5	4.3
23	5.7	5.8	10	9.3	299	11	5.5	4.9	2.5	3.4	3.9
24	5.7	5.6	13	9.0	56	17	5.5	4.7	2.4	4.7	25
25	5.7	5.0	19	9.0	33	29	5.7	6.4	2.8	6.7	119
26	6.2	21	48	8.7	26	16	6.2	6.0	2.9	3.7	68
27	53	42	18	8.7	22	16	5.5	4.3	2.6	3.6	32
28	16	8.7	13	9.0	25	13	5.1	4.7	2.4	3.6	10
29	13	6.0	11	15	27	11	4.5	6.4	2.4	3.2	6.7
30	11	5.7	11	9.9	21	9.6	5.3	4.7	2.9	3.4	5.1
31	8.4	---	48	---	19	---	4.5	---	3.1	3.4	---
TOTAL	630.2	344.4	547.4	314.7	1458	813.6	293.1	301.2	107.2	181.6	382.7
MEAN	20.3	11.5	17.7	10.5	47.0	27.1	9.45	10.0	3.46	5.86	12.8
MAX	242	44	66	22	299	197	28	53	11	36	119
MIN	4.3	2.9	6.2	6.0	11	9.6	4.5	4.1	2.4	2.1	2.2

HUDSON RIVER BASIN

01376280 SPARKILL CREEK AT SPARKILL, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1970, 1976 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	HARD- NESS (CA+MG) (MG/L)	
OCT 21...	1500	36	240	7.1	12.0	3	7.8	73	80	
DATE		NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TA- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT 21...	26	23	5.5	11	3.1	66	0	25	23	
DATE		DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE PLUS NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
OCT 21...	153	20	.29	.05	.55	.60	.89	.10	.04	

HUDSON RIVER BASIN

01376500 SAW MILL RIVER AT YONKERS, NY

LOCATION.--Lat 40°56'11", long 73°53'12", Westchester County, Hydrologic Unit 02030101, on left bank in Yonkers, just upstream from Old Croton aqueduct, near intersection of Nepperhan Avenue and Center Street, and 1.2 mi (1.9 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--25.6 mi² (66.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1943 to September 1973, April 1974 to current year.

REVISED RECORDS.--WRD NY 1971: 1965, 1966.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 90.99 ft (27.734 m) above mean sea level.

REMARKS.--Records poor. Flow affected by diversion by city of Yonkers, village of Tarrytown, and several industries for water supply and industrial purposes. Diurnal fluctuations caused by water supply and industrial operations.

COOPERATION.--Figures for diversion and return in upstream water supply furnished by city of Yonkers and village of Tarrytown.

AVERAGE DISCHARGE.--32 years (1944-73, 1975-77), 31.3 ft³/s (0.886 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,020 ft³/s (28.9 m³/s) Sept. 27, 1975, gage height, 7.26 ft (2.213 m); minimum, 0.05 ft³/s (0.001 m³/s) Dec. 27, 1946, gage height, 0.37 ft (0.113 m); minimum daily, 0.2 ft³/s (0.006 m³/s) Jan. 1, 1944, Sept. 5, Oct. 19, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 685 ft³/s (19.4 m³/s) Feb. 25, gage height, 5.64 ft (1.719 m); maximum gage height, 5.67 ft (1.728 m) Mar. 23; minimum discharge, 0.96 ft³/s (0.027 m³/s) July 31; minimum gage height, 0.70 ft (0.213 m) Dec. 25, Jan. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	5.4	2.6	3.3	9.2	42	54	15	44	12	19	3.3
2	5.9	24	2.4	3.0	10	34	66	16	46	10	8.6	4.5
3	41	22	11	2.7	10	30	133	18	23	9.8	2.5	9.0
4	20	18	9.2	2.6	11	76	68	19	15	9.8	4.4	2.0
5	6.6	18	8.4	2.4	10	183	251	56	11	12	2.6	1.4
6	5.0	17	7.7	2.4	10	67	130	46	11	7.6	2.6	1.8
7	4.5	16	146	2.3	10	52	88	59	20	4.0	2.2	3.0
8	6.2	18	144	2.3	10	45	78	30	14	11	1.5	3.2
9	104	13	37	2.3	10	38	66	53	57	14	3.0	2.6
10	88	13	26	61	11	37	60	52	119	3.8	2.1	7.0
11	20	13	21	91	12	33	56	35	35	2.7	27	6.1
12	15	12	20	22	15	28	53	29	18	5.8	2.5	1.9
13	18	13	20	22	20	100	49	27	15	21	10	2.6
14	23	12	7.7	21	21	182	46	24	14	18	35	2.9
15	17	11	8.8	19	19	71	40	21	14	4.8	5.1	2.7
16	15	11	9.6	18	12	56	36	22	12	2.2	1.9	15
17	14	11	10	18	8.0	46	34	23	10	1.8	78	59
18	14	10	8.4	17	5.9	52	33	22	12	2.5	49	3.3
19	9.3	10	4.7	17	5.0	68	30	21	12	2.0	3.2	4.0
20	45	8.8	9.6	15	4.7	66	28	20	34	2.3	3.5	23
21	206	8.1	33	15	5.9	59	26	18	50	2.6	2.6	11
22	40	8.8	8.1	13	8.4	59	25	16	17	1.8	22	2.9
23	21	8.1	8.8	12	16	460	23	18	14	1.7	5.3	3.6
24	19	8.1	3.7	12	58	196	29	18	14	1.6	3.2	43
25	44	7.1	2.0	11	579	126	54	17	14	1.9	7.6	184
26	89	6.8	6.5	11	187	98	32	17	14	1.9	4.4	111
27	38	7.4	6.5	11	64	83	29	15	12	2.1	2.9	66
28	21	7.7	3.8	11	64	81	26	14	15	1.4	2.5	20
29	19	17	5.7	11	---	93	21	11	22	1.5	2.3	9.0
30	18	10	3.8	11	---	71	17	14	15	1.5	2.4	5.3
31	91	---	5.4	10	---	63	---	17	---	1.0	2.9	---
TOTAL	1082.8	413.9	601.4	472.3	1206.1	2695	1681	783	725	176.1	321.8	614.1
MEAN	34.9	13.8	19.4	15.2	43.1	86.9	56.0	25.3	24.2	5.68	10.4	20.5
MAX	206	54	146	91	579	460	251	59	119	21	78	184
MIN	4.5	6.8	2.0	2.3	4.7	28	17	11	10	1.0	1.5	1.4
†	13.32	2.99	3.04	10.18	9.53	12.40	9.46	3.13	3.96	7.00	8.47	9.29

CAL YR 1976 TOTAL 14370.5 MEAN 39.3 MAX 476 MIN 2.0 † 7.68
WTR YR 1977 TOTAL 10772.5 MEAN 29.5 MAX 579 MIN 1.0 † 7.73

† Indicated net diversion, in cubic feet per second, for diversion and return in upstream supply.

WATER-QUALITY RECORDS

CHEMICAL QUALITY OF BOTTOM MATERIAL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	ORGANIC CARBON IN BUT- TOM MA- TERIAL (G/KG)	PCH IN BOTTOM MA- TERIAL (UG/KG)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDB IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)
NOV 17...	330	28	1300	.0	110	41	7.6	23	.0	5.5	.0

[illegible]

RESERVOIRS IN HUDSON RIVER BASIN

01335900 DELTA RESERVOIR.--Lat 43°16'20", long 75°25'50", Oneida County, Hydrologic Unit 02020004, on superstructure of gatehouse at Delta Dam on Mohawk River, and 4 mi (6 km) upstream from Rome. DRAINAGE AREA, 145 mi² (376 km²). PERIOD OF RECORD, May 1913 to current year. GAGE, nonrecording gage read daily at 0800. Datum of gage is at mean sea level, Barge Canal datum.

Dam completed Aug. 3, 1912, and controlled storage for which records are available began May 1, 1913. Usable capacity 2,800 mil ft³ (79.3 hm³) at crest of spillway, elevation 550.0 ft (167.64 m). Reservoir is used for navigation in Barge Canal. Records furnished by New York State Department of Transportation.

EXTREMES FOR PERIOD OF RECORD: 1951-76: Maximum contents observed, 3,136 mil ft³ (88.8 hm³) June 22, 1972, elevation, 552.8 ft (168.49 m); minimum observed 2.0 mil ft³ (0.0566 hm³) Jan. 10, 13, 16-21, Feb. 7-15, Feb. 22 to Mar. 2, 1959, elevation, 492.0 ft (149.96 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 3,040 mil ft³ (86.1 hm³) Sept. 21, elevation, 552.0 ft (168.25 m); minimum observed, 812 mil ft³ (23.0 hm³) Feb. 25, elevation, 527.2 ft (160.69 ft).

01343900 HINCKLEY RESERVOIR.--Lat 43°18'45", long 75°06'25", Oneida County, Hydrologic Unit 02020004, on south side of north gatehouse at Hinckley Dam on West Canada Creek at Hinckley, and 2.2 mi (3.5 km) east of Prospect. DRAINAGE AREA, 374 mi² (969 km²). PERIOD OF RECORD, March 1914 to current year. GAGE, nonrecording gage read once daily at 0800. Datum of gage is at mean sea level, Barge Canal datum.

Reservoir is formed by earth and concrete dam; storage began March 1914. Usable capacity 3,320 mil ft³ (94.0 hm³) between elevation 1,173.5 (357.68 m) and 1,225.0 ft (373.38 m). Elevation of inverts of four 60-inch discharge pipes at north end of spillway is 1,169.5 ft (356.46 m), and elevation of inverts of two 42-inch pipes at south end for diverting water to city of Utica is 1,164.25 ft (354.863 m). Crest of Ogee spillway is at elevation 1,225.0 ft (373.38 m). Length of spillway is 400 ft (122 m). Area of water surface at crest elevation is 4.46 mi² (11.6 km²). Records furnished by New York State Department of Transportation.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 4,041 mil ft³ (114 hm³) Oct. 2, 1945, elevation, 1,230.2 ft (374.96 m); minimum observed (after initial filling), not determined.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 3,818 mil ft³ (108 hm³) Apr. 25, elevation, 1228.7 ft (374.51 m); minimum observed, 560 mil ft³ (15.9 hm³) Feb. 25, elevation, 1190.7 ft (362.93 m).

01350100 SHOHARIE RESERVOIR (see station for mean daily elevations, skeleton capacity table, monthly contents and change in contents).

01363400 ASHOKAN RESERVOIR.--Lat 41°57'01", long 74°12'30", Ulster County, Hydrologic Unit 02020006, at gatehouse located at Dividing Weir Dyke, and 1.6 mi (2.6 km) south of Shokan. DRAINAGE AREA, 256 mi² (663 km²). PERIOD OF RECORD, September 1913 to current year. REVISED RECORDS, WRD NY 1970: Drainage Area. WRD NY 1972: 1968. GAGE, nonrecording gage read daily at 0900. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York).

The reservoir is formed by the masonry Olive Bridge Dam across Esopus Creek and a series of earth embankments between hills. The reservoir is divided into two basins separated by a weir containing a gatehouse. The storage began Sept. 9, 1913. Usable capacity of West basin 47,180 mil gal (178.6 hm³) between minimum operating level elevation 495.50 ft (151.028 m) and crest of spillway to East basin, elevation 590.00 ft (179.832 m); dead storage below minimum operating level 2,237 mil gal (8.467 hm³). Usable capacity of East basin 80,678 mil gal (305.4 hm³) between elevation 500.00 ft (152.400 m) and crest of spillway, elevation 587.10 ft (178.948 m); no dead storage. Figures given herein represent total contents for each basin. Reservoir impounds water for diversion into Catskill Aqueduct for New York City water supply (see elsewhere in this section). Any flood spillage enters the Esopus Creek channel below Olive Bridge Dam. Records furnished by the City of New York, Department of Water Resources.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, in West basin, 54,001 mil gal (204.4 hm³) Mar. 31, 1951, elevation, 594.33 ft (181.152 m), in East basin, 89,411 mil gal (338.4 hm³) Mar. 31, 1951, elevation, 592.23 ft (180.512 m); minimum observed, in West basin, 9,098 mil gal (34.44 hm³) Oct. 24, 1926, elevation, 530.56 ft (161.715 m), in East basin, 8,394 mil gal (31.77 hm³) Oct. 24, 1926, elevation, 525.91 ft (160.297 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, in West basin, 50,720 mil gal (192.0 hm³) Mar. 31, elevation, 591.23 ft (180.207 m), in East basin, 82,758 mil gal (313.2 hm³) Apr. 1, elevation, 588.34 ft (179.326 m); minimum observed, in West basin, 35,753 mil gal (135.3 hm³) Sept. 16, elevation, 575.36 ft (175.370 m), in East basin, 59,374 mil gal (224.7 hm³) Sept. 24, elevation, 573.61 ft (174.836 m).

01366400 RONDOUT RESERVOIR.--Lat 41°47'57", long 74°25'48", Ulster County, Hydrologic Unit 02020007, at release chamber at Merriman Dam on Rondout Creek, 1.1 mi (1.8 km) upstream from Brandy Brook, and 1.3 mi (2.1 km) northwest of Lackawack. DRAINAGE AREA, 94.4 mi² (244 km²). PERIOD OF RECORD, May 1951 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam; storage began May 10, 1951. Initial filling (to crest of spillway) Mar. 28, 1955. Usable capacity 50,048 mil gal (189 hm³) between minimum operating level, elevation, 720.00 ft (219.45 m) and crest of spillway, elevation, 840.00 ft (256.03 m). Dead storage below elevation 720.00 ft (219.45 m), 2,387 mil gal (9.03 hm³). Figures given herein represent total contents. Reservoir impounds water from Rondout Creek; water diverted from Cannonsville Reservoir in the Delaware River basin through West Delaware Tunnel; water diverted from Pepacton Reservoir through East Delaware Tunnel; and water diverted from Neversink Reservoir through Neversink-Grahamsville Tunnel. Water is diverted from Rondout Reservoir for New York City water supply through West Branch Tunnel of Delaware Aqueduct (see elsewhere in this section). Records furnished by City of New York, Board of Water Supply.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 53,355 mil gal (201.9 hm³) June 23, 1972, elevation, 841.34 ft (256.440 m); minimum observed (after initial filling), 8,335 mil gal (31.55 hm³) Oct. 15, 1957, elevation, 748.75 ft (228.219 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 53,065 mil gal (200.9 hm³) Mar. 14, elevation, 840.92 ft (256.312 m); minimum, 40,720 mil gal (154.1 hm³) Sept. 23, elevation, 821.78 ft (250.479 m).

HUDSON RIVER BASIN

155

RESERVOIRS IN HUDSON RIVER BASIN--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)
	01335900 Delta Reservoir †			01343900 Hinckley Reservoir †		
Sept. 30	544.8	2,220		1,211.0	1,910	
Oct. 31	551.2	2,944	+270	1,226.6	3,531	+605
Nov. 30	549.9	2,788	- 60.2	1,220.4	2,794	-284
Dec. 31	540.9	1,831	-357	1,211.3	1,936	-320
CAL YR 1976	-	-	- 5.03	-	-	- 13.1
Jan. 31	531.6	1,082	-280	1,197.7	948	-369
Feb. 28	527.9	854	- 94.2	1,191.2	585	-150
Mar. 31	551.4	2,968	+789	1,218.5	2,600	+752
Apr. 30	550.5	2,860	- 41.7	1,226.0	3,450	+328
May 31	548.9	2,669	- 71.3	1,221.8	2,948	-187
June 30	546.7	2,427	- 93.4	1,216.7	2,420	-204
July 31	548.7	2,647	+ 82.1	1,217.4	2,490	+ 26.1
Aug. 31	549.7	2,764	+ 43.7	1,218.8	2,630	+ 52.3
Sept. 30	550.9	2,908	+ 55.6	1,227.0	3,585	+368
WTR YR 1977	-	-	+ 21.8			+ 53.1

Date	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)
	01363398 Ashokan Reservoir † West Basin			01363399 Ashokan Reservoir † East Basin			01366400 Rondout Reservoir †		
Sept. 30	584.83	44,281		578.14	66,217		832.86	47,674	
Oct. 31	590.19	49,619	+266	582.22	72,668	+322	837.57	50,790	+156
Nov. 30	588.18	47,605	-104	584.30	76,025	+173	831.71	46,929	-199
Dec. 31	590.19	49,619	+100	582.77	73,556	-123	833.14	47,857	+ 46.3
CAL YR 1976	-	-	- 1.66	-	-	- 33.2	-	-	+ 11.9
Jan. 31	590.18	49,609	- 0.50	578.65	67,003	-327	830.44	46,112	- 87.1
Feb. 28	582.94	42,527	-415	579.99	69,069	+114	830.94	46,432	+ 17.7
Mar. 31	591.23	50,720	+409	588.30	82,691	+680	837.85	50,977	+227
Apr. 30	590.04	49,460	- 65.0	587.41	81,198	- 77.0	838.64	51,511	+ 27.5
May 31	590.28	49,714	+ 12.7	585.77	78,447	-137	839.03	51,774	+ 13.1
June 30	589.93	49,348	- 18.9	582.88	73,733	-243	835.31	49,284	-128
July 31	586.77	46,201	-157	578.95	67,466	-313	832.50	47,432	- 92.4
Aug. 31	578.60	38,578	-380	576.78	64,120	-167	823.04	41,485	-297
Sept. 30	581.79	41,460	+149	574.05	60,008	-212	823.97	42,054	+ 29.3
WTR YR 1977	-	-	- 12.0	-	-	- 26.3	-	-	- 23.8

† Elevation at 2400 hours by interpolation.

‡ Elevation at 0900 hours on first day of following month.

HUDSON RIVER BASIN

RESERVOIRS IN HUDSON RIVER BASIN--Continued

DIVERSIONS IN HUDSON RIVER BASIN

Undetermined diversion at Solsville from Chenango River in Susquehanna River basin into Oriskany Creek in Mohawk River Basin through Oriskany Creek Feeder.

Undetermined diversion from (and occasionally into) Oswego River, tributary to Lake Ontario, through Summit level of Erie (Barge) Canal.

04252000 Diversion from Black River tributary into Lake Ontario through Black River canal into Mohawk River in Hudson River basin (see station).

01327500 Diversion from Hudson River basin to summit level of Champlain (Barge) Canal (see station).

01343899 Diversion from Hinckley Reservoir (see preceding pages) for municipal supply of Utica. Diversion began prior to 1921. Records furnished by Utica Board of Water Supply.

Diversion from Schoharie Reservoir (see preceding pages) on Schoharie Creek through Shandaken Tunnel to Esopus Creek at, 01362230 Lat 42°06'52", long 74°21'51", near Phoenicia, Ulster County. No diversion prior to 1924. Records furnished by the City of New York, Department of Water Resources.

01359498 Diversion from Watervliet Reservoir from municipal supply of Watervliet (see station 01359519).

01363401 Diversion from Ashokan Reservoir (see preceding pages) on Esopus Creek through the Catskill Aqueduct for municipal supply of New York City. Completed in 1917. Records furnished by the City of New York, Department of Water Resources.

01366399 Diversion from Rondout Reservoir. Total diversion from Rondout Reservoir to Delaware Aqueduct for municipal supply of City of New York. Rondout Reservoir is a collection basin for diversion from: Cannonsville Reservoir, Pepacton Reservoir, and Neversink Reservoir in the Delaware River basin and the Rondout Creek in the Hudson River basin. Diversion began April 1944 by means of temporary emergency connection to aqueduct. Records furnished by Board of Water Supply, City of New York.

01367630 Diversion from Morris Lake, tributary to Wallkill River, by Newtown Water and Sewer Authority for municipal use in New Jersey. After use the water is released into the Paulins Kill (Delaware River basin). Records available from the Delaware River Basin Commission.

DIVERSION, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Month	01343899 <u>Hinckley Reservoir</u>	01362230 <u>Schoharie Reservoir</u>	01363401 <u>Ashokan Reservoir</u>	01366399 <u>Rondout Reservoir</u>	
				(a)	(b)
October.....	28.7	311	769	1,370	418
November.....	28.3	202	673	1,370	277
December.....	28.0	204	771	1,370	132
CAL YR 1976	28.9	237	759	1,350	261
January.....	28.3	190	774	1,370	48.0
February.....	30.1	221	870	1,370	94.4
March.....	29.5	171	797	1,340	763
April.....	28.6	76.9	709	1,330	487
May.....	29.9	145	871	1,370	244
June.....	30.4	349	897	1,370	77.4
July.....	31.4	296	904	1,370	49.5
August.....	31.1	269	913	1,370	32.5
September.....	31.1	347	913	1,350	144
WTR YR 1977	29.6	232	822	1,360	231

a Total diversion.

b Diversion contributed by Rondout Creek.

HACKENSACK RIVER BASIN

157

01376800 HACKENSACK RIVER AT WEST NYACK, NY

LOCATION.--Lat 41°05'44", long 73°57'52", Rockland County, Hydrologic Unit 02030103, on right bank 20 ft (6 m) downstream from Penn Central Transportation Co. railroad bridge at West Nyack, 1,000 ft (305 m) upstream from State Highway 59, and 1.0 mi (1.6 km) downstream from DeForest Lake.

DRAINAGE AREA.--29.4 mi² (76.1 km²).

PERIOD OF RECORD.--December 1958 to current year.

GAGE.--Water-stage recorder and stop-log control. Datum of gage is 53.50 ft (16.307 m) above mean sea level (levels by Hackensack Water Co.).

REMARKS.--Records good except those for winter periods, which are poor. Flow regulated by DeForest Lake (see Reservoirs in Hackensack River Basin). Diversion from gaging station pool for municipal supply for village of Nyack (see Reservoirs in Hackensack River Basin). Discharge given for this station represents the flow of Hackensack River downstream from this diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,550 ft³/s (43.9 m³/s) Feb. 3, 1973, gage height, 9.38 ft (2.859 m), from floodmarks, from rating curve extended above 840 ft³/s (23.8 m³/s); minimum daily, 2.6 ft³/s (0.074 m³/s) June 12, 1965, Sept. 25, 26, 30, 1966; minimum gage height, 1.70 ft (0.518 m) Oct. 22, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 651 ft³/s (18.4 m³/s) Mar. 23, gage height, 7.52 ft (2.292 m); minimum, 7.4 ft³/s (0.21 m³/s) June 22, 24, July 10, 15, 16; minimum gage height, 2.60 ft (0.792 m); June 22, 24, July 10, 15, 16, Aug. 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	90	20	16	17	98	57	26	27	9.9	13	14
2	22	59	22	16	16	50	62	22	17	11	12	14
3	31	33	22	16	16	34	82	23	23	11	14	14
4	20	32	20	16	16	99	134	18	21	11	13	14
5	17	33	20	16	16	416	330	40	17	11	12	14
6	18	32	20	16	16	232	201	54	19	11	11	22
7	17	28	46	16	16	75	119	73	21	11	12	40
8	17	29	92	17	16	57	102	53	19	9.9	11	41
9	64	21	56	17	16	49	84	79	41	9.9	11	42
10	264	19	35	17	16	48	67	79	49	11	14	46
11	53	18	32	17	17	46	60	41	23	13	11	44
12	19	16	30	17	18	43	56	33	15	15	18	44
13	17	15	28	17	20	192	52	31	14	11	47	45
14	17	15	20	17	18	394	52	26	13	11	49	47
15	15	17	17	17	16	191	42	19	14	9.4	51	47
16	16	17	16	16	14	87	38	15	13	9.9	49	51
17	15	14	16	16	14	59	34	17	14	13	56	57
18	19	15	16	15	16	63	30	16	15	12	47	50
19	16	13	17	15	17	125	26	16	15	11	46	49
20	21	14	20	15	17	110	25	16	14	14	45	52
21	133	16	25	16	17	58	23	15	13	12	44	50
22	96	16	21	15	17	239	22	15	11	12	47	46
23	32	16	17	15	18	512	24	16	12	12	44	45
24	29	17	21	16	39	330	36	16	11	12	31	58
25	40	17	16	16	416	133	103	17	15	13	13	99
26	119	17	20	18	341	75	95	17	19	12	14	79
27	68	19	19	19	198	55	62	16	13	12	13	54
28	27	20	18	18	147	70	42	16	11	12	13	51
29	25	20	17	16	---	106	38	18	11	12	12	55
30	23	17	16	15	---	69	32	17	11	12	12	54
31	49	---	17	17	---	60	---	17	---	13	13	---
TOTAL	1339	705	772	506	1521	4175	2130	877	531	360.0	798	1338
MEAN	43.2	23.5	24.9	16.3	54.3	135	71.0	28.3	17.7	11.6	25.7	44.6
MAX	264	90	92	19	416	512	330	79	49	15	56	99
MIN	15	13	16	15	14	34	22	15	11	9.4	11	14

CAL YR 1976 TOTAL 16248.0 MEAN 44.4 MAX 494 MIN 13
WTR YR 1977 TOTAL 15052.0 MEAN 41.2 MAX 512 MIN 9.4

HACKENSACK RIVER BASIN

01377000 HACKENSACK RIVER AT RIVERVALE, NJ

LOCATION.--Lat 40°59'55", long 73°59'27", Bergen County, Hydrologic Unit 02030103, on upstream right bank at bridge on Westwood Avenue in Rivervale, 1.5 mi (2.4 km) upstream from Pascack Brook, 4.6 mi (7.4 km) upstream from Oradell Dam, and 27.2 mi (43.8 km) upstream from mouth.

DRAINAGE AREA.--58.0 mi² (150.2 km²).

PERIOD OF RECORD.--

WATER DISCHARGE: October 1941 to current year.

CHEMICAL ANALYSES: Water years 1962, 1964 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 22.51 ft (6.861 m) NGVD.

REMARKS.--Discharge records excellent. Flow regulated by De Forest Lake and Lake Tappan (see Hackensack River Basin, reservoirs in). Diversions from De Forest Lake and West Nyack, NY, for municipal water supply (see Hackensack River Basin, diversions).

COOPERATION.--Gage-height record collected in cooperation with Hackensack Water Co. Analyses of fecal coliform and fecal streptococci by the MPN method were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

AVERAGE DISCHARGE.--36 years, 89.5 m³/s (2.535 m³/s), unadjusted.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,200 ft³/s (34.0 m³/s) Mar. 23, gage height, 5.22 ft (1.591 m); minimum, 17 ft³/s (0.48 m³/s) Mar. 3, 4, gage height, 1.59 ft (0.484 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,740 ft³/s (49.3 m³/s) Sept. 27, 1975, gage height, 7.15 ft (2.179 m); no flow part of Jan. 16, 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	57	66	100	100	20	85	44	113	47	117	97
2	49	54	88	98	100	18	115	41	85	47	107	96
3	67	53	109	98	99	18	243	44	81	47	89	95
4	53	52	107	98	98	60	218	33	81	47	75	94
5	49	55	107	97	95	60	413	104	79	81	71	93
6	48	55	107	96	90	25	433	115	79	124	71	93
7	45	52	152	96	89	23	286	140	81	122	71	91
8	45	52	81	96	87	21	204	85	79	124	69	91
9	92	51	38	95	86	21	161	126	124	115	69	93
10	58	52	36	111	81	20	142	117	75	107	67	105
11	50	55	36	100	76	19	87	83	28	89	69	98
12	49	52	36	95	78	18	32	54	25	89	67	97
13	49	52	35	94	76	66	44	49	24	83	67	95
14	49	52	53	94	54	65	77	36	23	79	66	94
15	48	51	80	94	38	276	67	28	23	79	61	88
16	49	50	80	93	35	171	59	25	22	83	59	90
17	49	51	92	91	33	94	54	25	22	83	100	102
18	48	50	122	91	33	112	49	28	20	77	45	76
19	47	50	120	91	33	140	45	25	22	61	42	77
20	55	50	104	89	33	182	30	23	87	52	40	77
21	91	50	87	95	33	110	33	23	135	71	41	57
22	52	50	81	110	32	317	52	22	87	137	46	46
23	50	49	82	109	38	892	58	20	77	144	41	45
24	51	49	81	109	58	547	71	19	77	154	41	56
25	56	49	81	109	185	284	142	19	77	161	46	113
26	70	49	81	107	28	142	133	24	56	159	41	66
27	54	49	92	106	23	96	126	19	50	151	41	41
28	52	49	102	105	23	100	81	19	50	140	41	36
29	52	52	102	104	---	137	59	20	49	135	40	36
30	52	53	100	102	---	131	47	19	47	133	67	34
31	73	---	100	102	---	107	---	49	---	124	97	---
TOTAL	1702	1545	2638	3075	1834	4292	3646	1478	1878	3145	1964	2372
MEAN	54.9	51.5	85.1	99.2	65.5	138	122	47.7	62.6	101	63.4	79.1
MAX	92	57	152	111	185	892	433	140	135	161	117	113
MIN	45	49	35	89	23	18	30	19	20	47	40	34
CAL YR 1976	TOTAL	31152	MEAN 85.1	MAX 845	MIN 35							
WTR YR 1977	TOTAL	29569	MEAN 81.0	MAX 892	MIN 18							

(NOTE: WATER-QUALITY DATA FOR THIS STATION ARE NOT PUBLISHED IN THIS REPORT: THEY ARE PUBLISHED IN THE SERIES "WATER RESOURCES DATA FOR NEW JERSEY.")

RESERVOIRS IN HACKENSACK RIVER BASIN

- 01376700 DE FOREST LAKE.--Lat 41°06', long 73°57', Rockland County, NY, Hydrologic Unit 02030103, at dam on Hackensack River, 0.85 mi (1.37 km) north of West Nyack, NY. DRAINAGE AREA, 26.6 mi² (68.9 km²). PERIOD OF RECORD, February 1956 to current year. GAGE, water-stage recorder. Datum of gage is NGVD.
Reservoir is formed by earthfill dam with sheet piling cutoff and concrete spillway; dam completed and storage began in February 1956. Total capacity at crest of dam 4,068,000,000 gal (15.40 hm³), elevation, 80.00 ft (24.384 m). Crest of dam topped by two 50-foot (15.24 m) Bascule gates 5 ft (1.5 m) high. Flow regulated by 12-inch (0.3 m) Howell-Bunger valve at elevation, 59.25 ft (18.059 m) and 24-inch Howell-Bunger valve at elevation, 61.25 ft (18.669 m). Reservoir used for storage and water released by Hackensack Water Co., for municipal water supply. Record of elevation and contents furnished by Hackensack Water Co.
- 01376950 LAKE TAPPAN.--Lat 41°01'05", long 74°00'05", Bergen County, Hydrologic Unit 02030103, at dam on Hackensack River, 0.50 mi (0.80 km) north of Old Tappan. DRAINAGE AREA, about 49 mi² (127 km²). PERIOD OF RECORD, October 1966 to current year. GAGE, water-stage recorder. Datum of gage is NGVD.
Reservoir is formed by earthfill dam, completed in 1966. Capacity at spillway level, 3,378,000,000 gal (12.79 hm³), elevation, 55.00 ft (16.764 m). Flow regulated by four Bascule gates and one sluice gate. Water is released by Hackensack Water Co., for municipal water supply. Record of elevation and contents furnished by Hackensack Water Co.
- 01377450 WOODCLIFF LAKE.--Lat 41°01', long 74°03', Bergen County, Hydrologic Unit 02030103, at dam on Pascack Brook, 0.75 mi (1.21 km) north of Hillsdale. DRAINAGE AREA, 19.4 mi² (50.2 km²). PERIOD OF RECORD, December 1929 to current year. Monthend contents only prior to September 1953, published in WSP 1302, 1722. GAGE, water-stage recorder. Datum of gage is NGVD.
Reservoir is formed by earthfill dam, completed about 1905. Capacity at spillway level, 835,000,000 gal (3.160 hm³), elevation, 94.33 ft (28.752 m). Flow is regulated by flashboards and one 36-inch (0.9 m) gate in center of dam. Water is released for diversion at New Milford by Hackensack Water Co., for municipal supply. Record of elevation and contents furnished by Hackensack Water Co.
- 01378480 ORADELL RESERVOIR.--Lat 40°57', long 74°02', Bergen County, Hydrologic Unit 02030103, at dam on Hackensack River at Oradell. DRAINAGE AREA, 113 mi² (293 km²). PERIOD OF RECORD, December 1922 to current year. Monthend contents only prior to September 1953, published in WSP 1302, 1722. GAGE, water-stage recorder. Datum of gage is NGVD.
Reservoir is formed by hollow concrete dam, completed in 1922. Capacity at spillway level, 2,850,000,000 gal (10.79 hm³), elevation, 22.66 ft (6.907 m). Flow regulated by seven sluice gates (7 by 9 ft or 2.1 by 2.7 m). Water is released for diversion by Hackensack Water Co., 1 mi (2 km) downstream from dam for municipal supply. Record of elevation and contents furnished by Hackensack Water Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)
	01376700	DE FOREST LAKE †		01376950	LAKE TAPPAN †		01377450	WOODCLIFF LAKE †	
Sept. 30	84.74	5,556	-	52.96	2,837	-	90.72	646	-
Oct. 31	85.31	5,747	+9.5	54.74	3,401	+28.2	85.70	408	-11.9
Nov. 30	84.95	5,622	-6.4	54.00	3,163	-12.3	85.17	386	-1.1
Dec. 31	85.01	5,642	+1.0	51.51	2,409	-37.6	88.81	549	+8.1
CAL YR 1976	-	-	-0.4	-	-	-2.8	-	-	-0.9
Jan. 31	84.71	5,547	-4.7	45.71	946	-73.0	87.82	501	-2.4
Feb. 28	85.28	5,737	+10.5	49.55	1,869	+51.1	94.05	820	+17.6
Mar. 31	85.28	5,737	0	55.01	3,488	+80.8	95.27	886	+3.3
Apr. 30	85.19	5,705	-1.7	55.00	3,485	-0.2	94.67	853	-1.7
May 31	84.36	5,437	-13.4	54.83	3,430	-2.7	90.50	635	-10.9
June 30	84.54	5,494	+2.9	54.01	3,163	-13.8	88.90	553	-4.2
July 31	82.60	4,884	-30.5	47.66	1,398	-88.0	81.00	238	-15.8
Aug. 31	80.50	4,225	-33.0	46.23	1,055	-17.2	75.38	94	-7.2
Sept. 30	79.27	3,861	-18.7	46.80	1,192	+7.1	85.93	417	+16.7
WTR YR 1977	-	-	-7.2	-	-	-7.0	-	-	-1.0
	01378480	ORADELL RESERVOIR †							
Sept. 30	19.33	2,305	-						
Oct. 31	22.42	2,978	+33.6						
Nov. 30	18.48	2,134	-43.5						
Dec. 31	18.53	2,144	+0.5						
CAL YR 1976	-	-	-3.1						
Jan. 31	18.23	2,084	-3.0						
Feb. 28	22.28	3,046	+53.2						
Mar. 31	23.30	3,302	+12.8						
Apr. 30	21.82	2,937	-18.9						
May 31	18.35	2,183	-37.6						
June 30	18.75	2,267	+4.3						
July 31	18.51	2,217	-2.5						
Aug. 31	17.82	2,075	-7.1						
Sept. 30	21.10	2,773	+36.0						
WTR YR 1977	-	-	+2.0						

† Elevation at 0800 on first day of following month.

HACKENSACK RIVER BASIN

DIVERSIONS FROM HACKENSACK RIVER BASIN

- 01376699 Spring Valley Water Co., diverts water at De Forest Lake for municipal supply in Rockland County, NY. Records furnished by Spring Valley Water Co.
- 01376810 Village of Nyack, NY, diverts water from Hackensack River 100 ft (30.5 m) downstream from gaging station on Hackensack River at West Nyack, NY (sta 01376800) for municipal supply. Records furnished by Board of Water Commissioners of Nyack, NY.
- 01378490 Hackensack Water Co., diverts water for municipal supply from Oradell Reservoir at Haworth pumping station 2.0 mi (3.2 km) upstream from gaging station on Hackensack River at New Milford and from Hackensack River about 50 ft (15.2 m) above gaging station on Hackensack River at New Milford, NJ (sta 01378500). Records furnished by Hackensack Water Co.
- 01378520 Hackensack Water Co., diverts water from Hirshfeld Brook, a tributary of the Hackensack River, below the gaging station on Hackensack River at New Milford, NJ, for municipal supply. Records furnished by Hackensack Water Co.

DIVERSIONS, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Month	SPRING VALLEY WATER CO.	WEST NYACK, NY	HACKENSACK WATER CO.
October.....	6.55	2.22	146
November.....	5.82	2.42	145
December.....	6.35	2.27	144
CAL YR 1976.....	7.48	2.34	151
January.....	8.02	2.43	151
February.....	10.4	2.45	135
March.....	6.44	2.42	145
April.....	7.31	2.45	153
May.....	14.2	2.54	171
June.....	11.0	2.59	163
July.....	20.9	2.74	183
August.....	14.7	2.60	146
September.....	13.5	2.56	141
WTR YR 1977.....	10.4	2.46	152

Tabulation of diversion by pumpage from sources other than the Hackensack River into Oradell Reservoir. These figures are included in diversions from Hackensack River as noted above.

DIVERSIONS, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Month	SPARKILL CREEK (HUDSON RIVER BASIN)	HIRSHFELD BROOK (HACKENSACK RIVER BASIN)	SADDLE RIVER (PASSAIC RIVER BASIN)	WELLS TO SURFACE SUPPLY
October.....	0	0	0	0
November.....	0	0	0	0
December.....	0	0	0	0
CAL YR 1976....	0	0.04	0.58	0
January.....	0	0	0	0.64
February.....	0	0.49	0	1.45
March.....	0.16	0.74	2.87	0.19
April.....	0	0	2.18	0
May.....	0	0	4.61	0.05
June.....	0	2.67	4.80	1.50
July.....	0	1.78	7.04	1.50
August.....	0	1.70	13.1	1.44
September.....	0	2.07	13.9	1.39
WTR YR 1977....	0.01	0.79	4.06	0.67

PASSAIC RIVER BASIN

161

01387450 MAHWAH RIVER NEAR SUFFERN, NY

LOCATION.--Lat 41°08'27", long 74°07'01", Rockland County, Hydrologic Unit 02030103, on left bank 13 ft (4 m) upstream from bridge on U.S. Highway 202, 2.5 mi (4.0 km) northeast of Suffern, and 4.8 mi (7.7 km) upstream from mouth.

DRAINAGE AREA.--12.3 mi² (31.9 km²).

PERIOD OF RECORD.--August 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 321.57 ft (98.015 m) above mean sea level. Prior to Nov. 18, 1976, water-stage recorder at site on right bank 13 ft (4 m) downstream, at present datum.

REMARKS.--Records fair. Occasional regulation from unknown source.

AVERAGE DISCHARGE.--19 years, 23.9 ft³/s (0.677 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft³/s (46.7 m³/s) May 29, 1968, gage height, 7.78 ft (2.371 m), from rating curve extended above 850 ft³/s (24.1 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 0.05 ft³/s (0.001 m³/s) Oct. 20, 21, 1970, result of temporary pumping from gage pool.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 25	0245	*668 18.9	*6.01 1.832	Mar. 22	2200	609 17.2	5.82 1.774
Mar. 5	0100	280 7.93	4.45 1.356	Sept. 26	2230	324 9.18	4.68 1.426
Mar. 14	0215	260 7.36	4.34 1.322				

Minimum discharge, 0.73 ft³/s (0.021 m³/s) July 31, Aug. 2, 3, gage height 1.27 ft (0.387 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	39	7.1	7.1	4.0	52	35	22	12	1.6	.78	1.2
2	5.2	29	6.7	7.1	4.0	41	42	22	11	1.5	.83	1.1
3	18	26	6.1	6.7	3.8	34	86	21	5.8	1.4	.89	1.1
4	14	24	5.5	6.7	3.8	76	56	19	5.0	1.3	1.3	1.1
5	8.2	22	5.5	6.7	4.0	180	124	35	4.2	1.3	1.3	1.1
6	6.7	21	5.5	6.1	4.2	88	94	32	4.2	1.2	1.1	1.1
7	6.1	20	5.7	6.0	4.0	64	68	36	5.8	1.2	1.1	1.0
8	5.8	18	5.0	5.8	3.8	52	58	28	4.5	1.4	1.0	1.0
9	48	17	2.7	6.0	3.6	42	48	36	31	1.4	.94	1.0
10	38	17	2.2	7.0	3.6	37	42	49	62	1.2	2.7	1.0
11	24	16	2.1	8.0	5.0	33	38	36	26	1.1	5.2	5.0
12	19	15	2.1	7.0	9.4	30	35	31	17	1.3	2.0	1.6
13	17	14	2.0	6.4	10	110	32	26	12	1.6	1.6	1.0
14	13	13	1.7	6.2	6.0	182	30	24	9.5	1.3	1.8	1.0
15	11	12	1.5	6.0	5.6	94	27	23	7.8	1.1	2.7	1.0
16	8.6	12	1.5	5.8	5.4	69	25	20	6.7	1.6	1.3	4.5
17	7.8	11	1.4	5.6	5.2	55	23	18	5.5	4.5	1.3	4.5
18	7.1	11	1.3	5.6	5.0	52	22	17	5.0	1.7	10	2.6
19	6.7	11	1.3	5.4	5.0	55	21	15	4.5	1.4	3.0	2.5
20	20	10	1.4	5.2	4.9	48	20	14	4.7	1.3	1.7	2.7
21	104	9.5	1.4	5.0	4.8	43	19	12	5.5	1.2	1.4	3.2
22	46	10	1.1	4.8	6.0	211	18	11	4.0	1.1	1.3	2.2
23	30	9.1	1.0	4.6	6.7	306	18	9.5	3.8	.94	2.8	2.1
24	26	8.6	9.5	4.5	31	129	27	8.6	3.4	.89	1.4	16
25	31	8.2	8.6	4.5	359	84	46	8.6	3.4	.94	1.3	55
26	53	7.8	10	4.5	123	69	30	6.7	3.6	1.0	2.5	138
27	36	7.8	9.1	4.4	77	58	37	5.8	2.0	.94	1.5	174
28	29	7.1	8.6	4.3	68	56	30	5.5	2.1	.83	1.3	64
29	25	9.5	8.6	4.2	---	56	26	5.2	2.0	.83	1.2	34
30	23	9.1	7.8	4.1	---	46	24	5.5	2.6	.83	1.2	24
31	47	---	7.5	4.0	---	41	---	5.0	---	.78	1.2	---
TOTAL	739.2	444.7	460.1	175.3	775.8	2493	1201	607.4	276.6	40.68	59.64	549.6
MEAN	23.8	14.8	14.8	5.65	27.7	80.4	40.0	19.6	9.22	1.31	1.92	18.3
MAX	104	39	57	8.0	359	306	124	49	62	4.5	10	174
MIN	5.0	7.1	5.5	4.0	3.6	30	18	5.0	2.0	.78	.78	1.0
CAL YR 1976	TOTAL	7758.92	MEAN	21.2	MAX	244	MIN	.52				
WTR YR 1977	TOTAL	7823.02	MEAN	21.4	MAX	359	MIN	.78				

01387500 RAMAPO RIVER NEAR MAHWAH, NJ

LOCATION.--Lat 41°05'51", long 74°09'48", Bergen County, Hydrologic Unit 02030103, on left bank 350 ft (107 m) downstream from State Highway 17, 0.6 mi (1.0 km) downstream from Mahwah River, and 1.0 mi (1.6 km) west of Mahwah.

DRAINAGE AREA.--118 mi² (306 km²).

PERIOD OF RECORD.--

WATER DISCHARGE: October 1902 to December 1906, September 1922 to current year (October 1902 to February 1905 monthly discharge only, published in WSP 1302). Figures of daily discharge Feb. 10, 1903 to Dec. 31, 1904, published in WSP 97, 125, are unreliable and should not be used.

CHEMICAL ANALYSES: Water years 1963 to current year.

SEDIMENT ANALYSES: Water years 1964-65.

PERIOD OF DAILY RECORD.--

WATER DISCHARGE: September 1922 to current year.

SUSPENDED-SEDIMENT DISCHARGE: February 1964 to June 1965.

REVISED DISCHARGE RECORDS.--WSP 781: 1904(M). WSP 1031: 1938, 1940. WSP 1552: 1923(M), 1924, 1925-26(M), 1927-28, 1933, 1937. WRD-NJ 1971: 1968(M).

GAGE.--Water-stage recorder. Datum of gage is 253.10 ft (77.145 m) NGVD. Prior to Dec. 31, 1906, nonrecording gage on former bridge at site 250 ft (76 m) downstream at different datum. Sept. 1, 1922 to Dec. 23, 1936, water-stage recorder just below former bridge at present datum.

REMARKS.--Discharge records good. Diurnal fluctuations occasionally at low flow caused by powerplants above station.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

AVERAGE DISCHARGE.--59 years, 228 ft³/s (6.457 m³/s), 26.24 in/yr (666 mm/yr).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft³/s (39.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 25	0300	3030 85.8	8.90 2.713	Mar. 23	0445	*4100 116	9.65 2.941
Mar. 14	0445	1530 43.3	7.37 2.246	Sept. 26	2145	1530 43.3	7.36 2.243

Minimum discharge, 12 ft³/s (0.34 m³/s) Sept. 11, gage height, 2.03 ft (0.619 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 12,400 ft³/s (352 m³/s) Oct. 9, 1903, (gage height, 11.0 ft or 3.35 m, from graph based on gage readings, site and datum then in use) from rating curve extended above 1,400 ft³/s (39.6 m³/s); minimum, 7 ft³/s (0.20 m³/s) Dec. 16, 1930, Sept. 12, 1932; minimum daily, 8 ft³/s (0.23 m³/s) Aug. 25, 1929, Sept. 5, 12, 1932.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	375	78	77	38	578	392	215	99	36	16	20
2	91	280	73	79	36	485	407	199	99	32	16	24
3	139	233	66	78	34	430	790	191	69	28	25	17
4	167	213	63	78	37	599	651	173	57	26	25	14
5	121	197	62	75	42	1300	1040	325	50	27	31	15
6	107	189	58	72	38	843	1060	370	49	26	27	14
7	97	169	330	74	35	593	776	440	60	26	22	15
8	92	151	551	69	39	480	627	338	58	33	20	13
9	257	140	282	71	39	407	516	402	195	34	19	13
10	390	134	209	96	42	360	447	504	531	27	36	15
11	203	128	183	101	49	322	402	422	325	23	35	12
12	138	121	167	85	65	287	355	342	179	30	28	13
13	120	115	151	72	95	674	317	287	125	29	28	13
14	111	109	127	69	117	1480	282	243	101	27	30	15
15	99	103	125	64	108	1030	253	211	87	24	45	15
16	91	99	131	60	87	701	237	185	73	34	26	36
17	81	97	133	58	73	542	213	169	63	65	48	40
18	75	93	128	56	67	495	195	155	58	58	40	27
19	71	90	119	54	65	510	181	143	54	45	29	31
20	185	87	116	52	62	455	169	133	55	35	22	37
21	998	83	132	54	68	410	160	121	53	28	19	26
22	662	79	111	56	62	1400	152	109	47	23	38	23
23	427	77	110	58	77	3630	155	99	47	19	28	24
24	347	74	101	60	295	1970	241	92	46	17	24	69
25	372	73	91	62	2660	1060	442	85	48	20	21	342
26	492	72	97	60	1580	793	347	77	46	20	19	727
27	440	72	93	56	818	648	380	68	43	19	19	888
28	347	73	92	50	701	582	340	62	41	19	17	387
29	297	87	92	44	---	606	275	56	40	18	19	217
30	209	92	83	42	---	525	239	58	37	17	19	146
31	347	---	83	40	---	456	---	54	---	15	22	---
TOTAL	7688	3905	4237	2022	7429	24651	12041	6328	2835	880	813	3248
MEAN	248	130	137	65.2	265	795	401	204	94.5	28.4	26.2	108
MAX	998	375	551	101	2660	3630	1060	504	531	65	48	888
MIN	71	72	58	40	34	287	152	54	37	15	16	12
CFSM	2.10	1.10	1.16	.55	2.25	6.74	3.40	1.73	.80	.24	.22	.92
IN.	2.42	1.23	1.34	.64	2.34	7.77	3.80	1.99	.89	.28	.26	1.02

CAL YR 1976 TOTAL 77719 MEAN 212 MAX 2490 MIN 26 CFSM 1.80 IN 24.50

WTR YR 1977 TOTAL 76077 MEAN 208 MAX 3630 MIN 12 CFSM 1.76 IN 23.98

(NOTE: WATER-QUALITY DATA FOR THIS STATION ARE NOT PUBLISHED IN THIS REPORT: THEY ARE PUBLISHED IN THE SERIES "WATER RESOURCES DATA FOR NEW JERSEY.")

01413500 EAST BRANCH DELAWARE RIVER AT MARGARETVILLE, NY

LOCATION.--Lat 42°08'41", long 74°39'14", Delaware County, Hydrologic Unit 02040102, on right bank at downstream side of bridge on Fair Street at intersection with Main Street at Margaretville, 0.2 mi (0.3 km) upstream from unnamed tributary, and 1.6 mi (2.6 km) downstream from Dry Brook.

DRAINAGE AREA.--163 mi² (422 km²).

PERIOD OF RECORD.--February 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,302.38 ft (396.965 m) above mean sea level. Prior to Sept. 9, 1937, nonrecording gage, and Sept. 9, 1937 to Aug. 17, 1944, water-stage recorder, at same datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--40 years, 304 ft³/s (8.609 m³/s), 25.33 in/yr (643 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,700 ft³/s (445 m³/s) Nov. 25, 1950, gage height, 13.84 ft (4.218 m), from rating curve extended above 8,700 ft³/s (246 m³/s); minimum, 5.0 ft³/s (0.14 m³/s) Aug. 5, 1964; minimum gage height, 0.89 ft (0.271 m) Sept. 30, Oct. 1, 1943, present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,800 ft³/s (79 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1600	3,040 86.1	6.88 2.097	Mar. 30	1900	5,430 154	8.75 2.667
Mar. 14	0515	*10,300 292	*11.50 3.505	Sept. 20	1330	5,400 153	9.23 2.813

Minimum discharge, 14 ft³/s (0.40 m³/s) Sept. 12, 13; minimum gage height, 2.46 ft (0.750 m) Jan. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	548	126	110	45	583	2130	422	130	35	21	21
2	45	455	133	100	45	460	1430	399	137	32	38	24
3	42	431	123	92	44	399	1490	373	109	30	37	31
4	40	481	153	88	44	553	1090	328	96	27	28	38
5	38	412	149	92	43	1510	1190	440	90	26	31	30
6	37	390	157	84	43	1020	1110	368	90	27	40	26
7	37	377	952	74	43	711	891	324	116	28	34	22
8	52	351	731	78	43	625	796	299	95	30	30	20
9	1590	307	503	72	42	702	668	403	92	32	27	18
10	878	291	486	70	42	1000	595	614	157	27	25	17
11	492	268	436	70	42	1170	525	918	109	24	37	16
12	373	247	368	70	45	1410	492	965	87	30	71	16
13	316	234	311	68	50	4070	530	1010	78	28	65	17
14	386	221	280	68	62	7550	519	885	74	25	80	43
15	337	212	260	58	56	3340	450	725	71	26	95	50
16	271	203	240	56	52	2130	399	614	63	26	56	95
17	244	191	220	70	50	1470	364	514	56	28	85	328
18	227	188	210	68	46	1130	333	450	74	28	95	197
19	209	183	210	66	42	924	307	595	98	27	62	891
20	346	180	210	62	41	742	279	426	69	27	48	2500
21	1280	162	200	58	41	657	264	381	60	34	40	1770
22	815	153	170	54	43	679	250	337	56	42	48	1030
23	541	141	180	50	45	663	279	299	50	30	58	790
24	553	130	170	49	54	553	846	271	45	26	45	719
25	577	116	160	48	1010	476	891	247	47	27	40	1210
26	748	119	150	48	577	445	778	224	50	40	34	1710
27	542	133	140	47	553	440	731	206	43	32	31	1410
28	476	133	140	47	1020	742	636	191	38	26	25	972
29	436	162	130	46	---	2170	542	171	40	22	24	790
30	390	133	120	46	---	3880	476	153	45	20	22	631
31	657	---	120	45	---	3450	---	137	---	21	21	---
TOTAL	13125	7552	7938	2074	4263	46974	21281	13689	2369	883	1393	15432
MEAN	423	252	256	66.9	152	1486	709	442	79.0	28.5	44.9	514
MAX	1590	548	952	110	1020	7550	2130	1010	157	42	95	2500
MIN	37	116	120	45	41	399	250	137	36	20	21	16
CFSM	2.60	1.55	1.57	.41	.93	9.12	4.35	2.71	.48	.17	.28	3.15
IN.	3.00	1.72	1.81	.47	.97	10.51	4.86	3.12	.54	.20	.32	3.52

CAL YR 1976 TOTAL 132408 MEAN 362 MAX 6130 MIN 30 CFSM 2.22 IN 30.22
WTR YR 1977 TOTAL 136073 MEAN 373 MAX 7550 MIN 16 CFSM 2.29 IN 31.05

DELAWARE RIVER BASIN

01414500 MILL BROOK NEAR DUNRAVEN, NY

LOCATION.--Lat 42°06'22", long 74°43'51", Delaware County, Hydrologic Unit 02040102, on left bank 0.4 mi (0.6 km) upstream from bridge on New York City Road 9 and Pepacton Reservoir, and 2.7 mi (4.3 km) southwest of Dunraven.

DRAINAGE AREA.--25.0 mi² (64.7 km²).

PERIOD OF RECORD.--February 1937 to current year. Published as "at Arena" 1937-67.

REVISED RECORDS.--WSP 1432: 1937. WRD NY 1970: 1969.

GAGE.--Water-stage recorder. Datum of gage is 1,298.54 ft (395.795 m) above mean sea level, datum of Board of Water Supply, City of New York. Prior to Oct. 17, 1939, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum. Oct. 17 to Dec. 8, 1939, nonrecording gage at present site at different datum.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--40 years, 55.7 ft³/s (1.577 m³/s), 30.26 in/yr (769 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,500 ft³/s (127 m³/s) Sept. 21, 1938, from rating curve extended above 960 ft³/s (27.2 m³/s) on basis of velocity-area study; maximum gage height, 9.92 ft (3.024 m) Nov. 25, 1950; minimum discharge observed, 1.2 ft³/s (0.034 m³/s) Sept. 25, 26, 1939, gage height, 0.71 ft (0.216 m), site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 740 ft³/s (21 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1545	828 23.4	4.07 1.241	Feb. 25	0115	1,280 36.2	4.53 1.381
Feb. 24	2200	ice jam	*5.18 1.579	Mar. 13	2045	*1,430 40.5	4.67 1.423

Minimum discharge, 2.3 ft³/s (0.065 m³/s) Sept. 10-13, gage height, 2.58 ft (0.786 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	131	64	23	11	107	235	78	32	7.3	5.8	4.5
2	12	111	66	22	11	86	201	75	37	7.3	5.8	3.9
3	11	115	70	21	10	75	212	67	23	6.6	5.1	3.9
4	11	123	80	20	10	156	161	62	20	6.6	4.5	3.9
5	11	104	90	21	10	253	180	119	18	7.3	5.8	3.4
6	11	97	80	19	10	185	170	91	20	8.1	4.5	3.4
7	11	94	180	18	10	127	131	83	26	8.1	5.1	3.0
8	16	91	210	17	10	94	115	80	18	8.1	4.5	3.0
9	355	86	104	16	11	91	97	94	21	7.3	4.5	2.6
10	180	83	86	15	12	111	88	115	28	6.6	3.9	2.6
11	91	75	75	15	14	152	86	185	20	6.6	3.4	2.3
12	70	70	65	17	16	201	86	247	16	6.6	7.3	2.3
13	57	67	50	16	20	527	104	260	13	5.8	7.3	3.0
14	62	67	52	15	20	606	104	201	12	5.8	10	5.6
15	50	67	52	14	18	273	94	143	12	5.1	9.0	5.8
16	42	70	50	13	17	235	88	115	11	5.1	8.1	20
17	40	72	40	13	17	195	86	97	10	5.1	12	40
18	45	75	45	13	18	170	80	88	16	5.1	10	26
19	50	75	50	12	18	111	78	123	26	5.1	8.1	28
20	88	67	42	12	17	91	78	83	13	4.5	7.3	217
21	223	57	35	12	17	78	83	75	11	4.5	6.6	123
22	131	52	34	12	17	127	86	67	10	4.5	7.3	67
23	94	40	32	12	17	104	80	62	9.0	4.5	7.3	52
24	88	32	30	12	150	80	185	57	9.0	3.9	7.3	60
25	88	30	33	12	678	83	206	55	9.0	5.1	7.3	229
26	123	35	31	12	152	65	152	47	10	5.1	6.6	260
27	94	52	28	12	152	65	143	45	9.0	4.5	5.8	195
28	88	55	26	12	201	100	119	55	8.1	3.9	5.1	127
29	82	70	28	12	---	307	97	55	9.0	3.9	5.1	83
30	75	66	26	11	---	371	88	47	8.1	3.9	4.5	67
31	180	---	24	11	---	307	---	40	---	3.9	4.5	---
TOTAL	2491	2229	1878	462	1664	5633	3713	3011	484.2	175.8	199.4	1648.2
MEAN	80.4	74.3	60.6	14.9	59.4	182	124	97.1	16.1	5.67	6.43	54.9
MAX	355	131	210	23	678	627	235	260	37	8.1	12	260
MIN	11	30	24	11	10	65	78	40	8.1	3.9	3.4	2.3
CFSM	3.22	2.97	2.42	.60	2.38	7.28	4.96	3.88	.64	.23	.26	2.20
IN.	3.71	3.32	2.79	.69	2.48	8.38	5.52	4.48	.72	.26	.30	2.45
CAL YR 1976	TOTAL	23801.6	MEAN 65.0	MAX 498	MIN 5.8	CFSM 2.60	IN 35.42					
WTR YR 1977	TOTAL	23588.6	MEAN 64.6	MAX 678	MIN 2.3	CFSM 2.58	IN 35.10					

DELAWARE RIVER BASIN

165

01415000 TREMPER KILL NEAR ANDES, NY

LOCATION.--Lat 42°07'12", long 74°49'08", Delaware County, Hydrologic Unit 02040102, on right bank 500 (152 m) upstream from bridge on County Highway 1, about 1,700 ft (518 m) upstream from Pepacton Reservoir, and 5 mi (8 km) south of Andes.

DRAINAGE AREA.--33.0 mi² (85.5 km²).

PERIOD OF RECORD.--February 1937 to current year. Published as "near Shavertown" 1937-67.

GAGE.--Water-stage recorder. Concrete control since Nov. 1937. Datum of gage is 1,285.87 ft (391.933 m) above mean sea level. Prior to Aug. 5, 1937, nonrecording gage at site 500 ft (152 m) downstream at different datum. Aug. 5 to Sept. 28, 1937, nonrecording gage at site 0.25 mi (0.40 km) downstream at different datum.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--40 years, 59.7 ft³/s (1.691 m³/s), 24.57 in/yr (624 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,250 ft³/s (120 m³/s) Sept. 21, 1938, gage height, 7.12 ft (2.170 m), from rating curve extended above 1,500 ft³/s (42.5 m³/s); minimum, 0.5 ft³/s (0.014 m³/s) Sept. 17, 21, 22, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (20 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1415	720 20.4	4.58 1.396	Mar. 29	1700	736 20.8	4.60 1.402
Feb. 25	0330	923 26.1	4.82 1.469	Sept. 20	1000	1560 44.2	5.43 1.655
Mar. 14	0100	*2,500 70.8	*6.11 1.862	Sept. 26	1130	1130 32.0	5.03 1.533

Minimum discharge, 1.8 ft³/s (0.051 m³/s) July 19, gage height, 2.38 ft (0.725 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	106	20	13	5.2	168	251	62	17	5.8	12	8.1
2	7.1	92	22	12	5.0	127	197	58	17	4.6	14	7.1
3	6.6	92	22	12	5.0	106	193	53	13	4.0	7.1	7.6
4	5.8	101	28	11	5.0	193	144	46	12	3.7	5.8	7.1
5	5.4	84	28	11	5.0	336	156	88	11	4.0	6.2	5.8
6	5.0	82	26	10	5.2	221	135	63	12	5.8	7.1	5.8
7	5.4	78	200	10	5.6	168	119	56	17	6.6	7.1	4.6
8	19	71	140	9.8	6.0	141	111	53	12	9.8	7.6	4.0
9	445	60	120	9.6	6.4	156	95	80	15	8.7	5.0	3.7
10	224	60	108	9.4	7.0	200	84	149	23	5.4	4.0	3.1
11	132	53	82	9.2	7.8	239	78	171	14	4.3	4.0	2.6
12	92	49	66	9.2	9.0	275	69	165	11	6.6	22	2.4
13	74	44	50	9.0	10	801	62	144	9.8	5.8	13	5.4
14	97	41	39	9.0	11	1300	58	116	9.2	4.0	47	23
15	69	39	46	8.8	10	479	52	92	8.7	3.1	35	12
16	56	36	43	8.6	9.0	322	47	78	7.1	2.6	22	63
17	50	34	40	8.4	8.4	224	43	65	7.1	2.9	44	106
18	44	34	34	8.2	7.8	177	39	58	24	2.6	33	58
19	40	33	39	8.0	7.4	146	36	82	30	2.0	23	197
20	141	33	34	7.8	7.4	110	34	53	13	10	20	667
21	394	30	30	7.4	7.8	101	31	46	10	11	17	365
22	232	28	26	7.2	8.0	127	30	40	8.7	22	30	214
23	165	27	31	6.8	9.0	127	43	35	7.6	8.1	23	146
24	138	22	34	6.6	20	99	180	33	6.6	4.6	19	141
25	132	20	31	6.4	484	80	203	30	6.6	9.2	17	350
26	165	26	28	6.0	184	72	156	26	7.6	12	14	561
27	114	30	24	5.8	224	72	127	23	5.8	5.8	12	355
28	99	26	21	5.6	300	116	104	22	5.0	4.3	12	214
29	88	31	19	5.4	---	425	84	19	11	3.4	9.8	144
30	76	26	16	5.4	---	534	71	17	9.8	3.1	9.2	106
31	152	---	14	5.2	---	419	---	16	---	3.4	8.1	---
TOTAL	3280.9	1488	1461	261.8	1380.0	8061	3032	2039	361.6	189.2	510.0	3789.3
MEAN	106	49.6	47.1	8.45	49.3	260	101	65.8	12.1	6.10	16.5	126
MAX	445	106	200	13	484	1300	251	171	30	22	47	667
MIN	5.0	20	14	5.2	5.0	72	30	16	5.0	2.0	4.0	2.4
CFSM	3.21	1.50	1.43	.26	1.49	7.88	3.06	1.99	.37	.18	.50	3.82
IN.	3.70	1.68	1.65	.30	1.56	9.09	3.42	2.30	.41	.21	.57	4.27
CAL YR 1976	TOTAL	28295.4	MEAN	77.3	MAX	900	MIN	3.7	CFSM	2.34	IN	31.90
WTR YR 1977	TOTAL	25853.8	MEAN	70.8	MAX	1300	MIN	2.0	CFSM	2.15	IN	29.14

DELAWARE RIVER BASIN

01417000 EAST BRANCH DELAWARE RIVER AT DOWNSVILLE, NY

LOCATION.--Lat 42°04'30", long 74°58'36", Delaware County, Hydrologic Unit 02040102, on left bank 0.5 mi (0.8 km) downstream from Downs ville Dam, at downstream end of outlet channel of Pepacton Reservoir, and 1.0 mi (1.6 km) east of Downs ville.

DRAINAGE AREA.--371 mi² (961 km²).

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,094.92 ft (333.731 m) above mean sea level (Board of Water Supply, City of New York datum). Prior to Sept. 26, 1941, nonrecording gage, and Sept. 26, 1941, to June 27, 1955, water-stage recorder, at site 0.8 mi (1.3 km) downstream at datum 7.03 ft (2.143 m) lower.

REMARKS.--Records good prior to June 1977 and fair thereafter. Subsequent to September 1954, entire flow from drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply (see Reservoirs in Delaware River Basin). Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,900 ft³/s (677 m³/s) Nov. 26, 1950, gage height, 14.52 ft (4.426 m), site and datum then in use, from rating curve extended above 12,000 ft³/s (340 m³/s); minimum, 0.3 ft³/s (0.008 m³/s) Oct. 11, 1954; minimum daily, 0.6 ft³/s (0.017 m³/s) Oct. 10, 1954; minimum gage height, 1.39 ft (0.424 m) Jan. 17, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 16 ft (5 m) Oct. 9, 1903 (at former datum).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,790 ft³/s (192 m³/s) Mar. 31, gage height, 7.76 ft (2.365 m); minimum daily, 6.7 ft³/s (0.190 m³/s) Feb. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	13	7.2	7.7	6.7	7.7	5050	513	41	64	67	173
2	19	8.2	7.5	7.7	6.7	7.7	3690	394	19	60	67	177
3	19	8.0	7.5	7.7	8.0	7.7	3200	263	19	57	67	113
4	19	8.0	7.5	7.7	7.0	8.5	2510	151	18	64	63	73
5	19	8.2	7.5	7.5	7.2	8.5	2240	286	18	62	80	73
6	19	8.0	7.5	8.5	7.0	8.2	2420	286	18	62	96	84
7	19	8.0	11	7.5	7.0	8.2	2080	216	18	62	96	89
8	19	8.0	7.7	7.5	7.0	8.0	1800	141	18	62	77	75
9	22	8.0	9.8	7.5	7.0	8.0	1530	221	19	64	60	75
10	20	8.0	7.5	7.5	7.7	8.0	1350	379	19	62	60	75
11	19	8.0	7.7	7.5	7.0	8.0	1140	819	18	57	63	75
12	19	8.0	7.7	7.5	7.2	8.0	768	1190	30	62	63	75
13	19	8.0	7.7	8.2	7.2	10	600	1290	41	64	63	75
14	19	7.7	7.7	7.5	7.2	11	493	1170	44	110	63	75
15	19	7.7	7.7	7.5	7.2	10	330	940	46	152	63	77
16	19	7.7	8.7	7.5	7.2	9.4	203	686	42	152	63	77
17	19	7.7	9.1	7.5	7.2	9.1	128	464	41	152	63	71
18	22	10	7.7	7.5	7.2	8.8	67	343	42	152	63	75
19	19	9.7	7.7	7.5	7.2	8.8	30	464	44	152	63	73
20	20	7.2	9.0	9.1	7.2	8.5	20	337	42	152	63	80
21	20	7.5	8.8	7.2	7.2	8.5	20	207	42	152	67	82
22	20	7.5	8.5	7.2	7.2	34	19	119	42	118	67	82
23	20	7.5	7.7	7.2	7.2	577	20	49	42	70	65	82
24	20	7.2	7.5	7.2	8.2	561	104	22	48	70	65	82
25	20	7.2	7.5	7.2	9.1	534	845	18	60	70	65	84
26	20	7.2	7.5	7.2	8.0	419	1160	18	60	68	65	84
27	20	7.5	7.7	8.0	8.0	357	1110	31	62	68	69	84
28	20	7.2	7.7	7.2	10	419	926	63	60	67	69	82
29	20	7.7	7.7	7.0	---	2080	807	62	60	67	113	84
30	20	7.2	8.3	7.0	---	5450	661	62	62	67	177	84
31	20	---	7.7	7.2	---	6390	---	62	---	67	177	---
TOTAL	608	240.8	248.0	233.7	208.0	17101.6	35321	11266	1135	2708	2362	2590
MEAN	19.6	8.03	8.00	7.54	7.43	552	1177	363	37.8	87.4	76.2	86.3
MAX	22	13	11	9.1	10	6390	5050	1290	62	152	177	177
MIN	19	7.2	7.2	7.0	6.7	7.7	19	18	18	57	60	71

CAL YR 1976 TOTAL 112989.5 MEAN 309 MAX 5500 MIN 7.2
WTR YR 1977 TOTAL 74022.1 MEAN 203 MAX 6390 MIN 6.7

DELAWARE RIVER BASIN

167

01420000 LITTLE BEAVER KILL NEAR LIVINGSTON MANOR, NY

LOCATION.--Lat 41°52'23", long 74°47'52", Sullivan County, Hydrologic Unit 02040102, on right bank 100 ft (30 m) downstream from private bridge, 0.2 mi (0.3 km) west from interchange 97 on U.S. Highway 17, 2.5 (4.0 km) southeast of Livingston Manor, and 3 mi (5 km) upstream from Cattail Brook.

DRAINAGE AREA.--19.8 mi² (51.3 km²).

PERIOD OF RECORD.--July 1924 to current year.

REVISED RECORDS.--WSP 1302: 1930(M), 1933(M), 1936-37(M), 1942-46(M). WSP 1432: 1928(M).

GAGE.--Water-stage recorder. Concrete control since November 1933. Datum of gage is 1,496.69 ft (456.191 m) above mean sea level. Prior to Dec. 9, 1939, nonrecording gage.

REMARKS.--Records good except those for winter periods, which are poor. Some diversion from Lily Pond for village of Liberty water supply.

AVERAGE DISCHARGE.--53 years, 44.9 ft³/s (1.272 m³/s), 30.80 in/yr (782 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,420 ft³/s (96.9 m³/s) Aug. 26, 1928, gage height, 8.7 ft (2.65 m); from floodmarks, from rating curve extended above 1,700 ft³/s (48.1 m³/s); minimum, 0.9 ft³/s (0.025 m³/s) July 10, 1962; minimum gage height, 1.23 ft (0.375 m) Aug. 1, 3, 5, 1936.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 730 ft³/s (21 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1000	1,420 40.2	5.01 1.527	Sept. 26	1030	1,230 34.8	4.70 1.433
Mar. 13	2200	*2,440 69.1	*6.59 2.009				

Minimum discharge, 4.7 ft³/s (0.13 m³/s) July 3, Sept. 11, 12, 13, gage height, 1.42 ft (0.433 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	119	14	10	7.2	60	181	41	11	6.4	18	7.2
2	18	77	13	9.8	7.2	47	158	38	11	5.7	19	6.8
3	36	74	13	9.4	7.2	40	254	35	9.0	5.4	9.5	6.8
4	34	108	14	9.0	7.2	107	142	41	8.6	5.1	8.1	6.0
5	23	79	20	8.8	7.0	300	196	124	8.6	5.4	6.8	6.0
6	20	70	40	8.8	7.0	166	187	99	9.0	6.4	6.8	6.4
7	20	62	100	8.6	7.0	99	114	68	12	6.8	14	5.7
8	32	55	80	8.4	6.8	76	97	54	9.5	19	15	3.4
9	933	49	50	8.2	6.8	89	77	68	26	10	9.5	5.4
10	268	44	40	8.2	6.8	151	68	108	41	7.2	9.6	5.4
11	117	41	31	8.2	7.0	207	63	110	16	6.0	9.0	5.1
12	79	36	27	8.0	7.8	255	68	74	12	7.7	11	4.7
13	63	34	26	8.0	10	1480	74	60	11	7.2	9.5	6.4
14	79	31	25	8.0	8.8	928	63	52	10	6.0	10	12
15	58	30	21	8.0	8.0	250	54	48	9.0	5.4	11	8.1
16	48	25	21	7.8	7.4	172	46	41	8.1	7.2	8.1	22
17	43	23	21	7.8	7.2	122	43	34	8.6	10	14	75
18	38	23	21	7.8	7.2	89	36	30	9.0	11	13	31
19	32	22	20	7.8	7.2	81	32	36	8.6	36	8.6	23
20	124	22	18	7.8	7.4	67	30	28	7.7	34	7.2	110
21	319	20	18	7.6	7.8	60	26	23	7.7	12	7.2	77
22	112	19	17	7.6	9.0	62	23	21	7.2	8.6	48	48
23	77	17	17	7.6	10	67	41	18	6.8	7.2	28	38
24	75	16	17	7.6	13	52	187	16	6.4	6.4	14	74
25	97	16	16	7.6	90	51	181	14	7.7	7.7	12	551
26	160	15	15	7.6	80	44	99	13	8.1	7.7	9.5	578
27	89	18	14	7.6	74	46	81	12	7.2	6.4	8.6	228
28	68	19	13	7.4	80	60	67	11	6.4	5.7	8.1	108
29	58	20	13	7.4	---	169	55	13	7.7	5.4	7.2	72
30	52	16	12	7.4	---	383	46	12	7.2	5.4	6.8	54
31	190	---	11	7.2	---	370	---	11	---	5.4	7.7	---
TOTAL	3382	1200	778	251.0	512.0	6150	2789	1353	318.1	285.8	373.8	2186.4
MEAN	109	40.0	25.1	8.10	18.3	198	93.0	43.6	10.6	9.22	12.1	72.9
MAX	933	119	100	10	90	1480	254	124	41	36	48	578
MIN	18	15	11	7.2	6.8	40	23	11	6.4	5.1	6.8	4.7
CFSM	5.51	2.02	1.27	.41	.92	10.0	4.70	2.20	.54	.47	.61	3.68
IN.	6.35	2.25	1.46	.47	.96	11.55	5.24	2.54	.60	.54	.70	4.11
CAL YR 1976	TOTAL	20641.5	MEAN	56.4	MAX	1000	MIN	7.0	CFSM	2.85	IN	38.78
WTR YR 1977	TOTAL	19579.1	MEAN	53.6	MAX	1480	MIN	4.7	CFSM	2.71	IN	36.78

DELAWARE RIVER BASIN

01420500 BEAVER KILL AT COOKS FALLS, NY

LOCATION.--Lat 41°56'47", long 74°58'48", Delaware County, Hydrologic Unit 02040102, on left bank 125 ft (38 m) downstream from road bridge in Cooks Falls, and 5.5 mi (8.8 km) downstream from Willowemoc Creek.

DRAINAGE AREA.--241 mi² (624 km²).

PERIOD OF RECORD.--July 1913 to current year.

REVISED RECORDS.--WSP 521: Drainage area. WSP 781: 1933(M). WSP 891: 1936-39(M). WSP 1202: 1950. WSP 1232: 1950(M).

GAGE.--Water-stage recorder. Datum of gage is 1,151.70 ft (351.038 m) above mean sea level. Prior to Oct. 1, 1933, nonrecording gage at site 125 ft (38 m) upstream at same datum.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--63 years, 557 ft³/s (15.77 m³/s), 31.39 in/yr (797 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,600 ft³/s (895 m³/s) Mar. 31, 1951, gage height, 16.02 ft (4.883 m), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of slope-area measurement at gage height 15.52 ft (4.730 m); minimum, 16 ft³/s (0.45 m³/s) Nov. 22, 23, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,700 ft³/s (130 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1545	11,700 331	10.86 3.310	Mar. 30	2045	7,150 202	8.87 2.704
Mar. 14	0330	*28,400 804	*15.20 4.633	Sept. 26	1500	6,560 186	8.56 2.609

Minimum discharge, 48 ft³/s (1.36 m³/s) Sept. 13, gage height, 0.69 ft (0.210 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	1610	180	150	100	800	2760	614	178	85	76	71
2	202	1160	170	150	100	640	1990	585	182	79	110	72
3	212	1010	180	160	100	580	2690	544	167	75	86	73
4	242	1250	190	150	100	775	1980	494	150	73	75	70
5	202	1040	210	150	98	3400	2050	1570	142	74	69	63
6	192	921	240	150	98	2140	2210	1300	145	82	72	63
7	186	832	1250	150	98	1420	1600	1010	174	90	85	77
8	223	744	1250	150	96	1100	1360	842	155	112	110	91
9	7110	661	680	140	96	1060	1110	981	170	123	96	82
10	3520	619	600	140	100	1510	970	1150	329	95	83	63
11	1700	568	520	140	110	2150	878	1380	211	82	84	55
12	1160	517	470	140	120	2790	832	1340	162	82	91	52
13	905	483	430	140	130	10900	858	1180	145	87	104	56
14	905	452	357	130	140	14100	792	976	133	85	111	94
15	758	426	426	130	130	4600	688	842	128	81	133	100
16	636	397	380	130	110	3100	618	725	119	79	123	127
17	560	372	350	130	100	2270	560	635	114	202	136	436
18	507	366	320	120	90	1740	517	568	118	115	165	258
19	456	351	290	120	90	1410	475	606	115	88	141	202
20	730	336	270	120	88	1120	436	505	106	125	128	1190
21	3400	316	250	120	88	976	408	443	100	89	123	1050
22	1780	297	220	110	90	1090	381	411	97	78	250	666
23	1250	278	210	110	120	1300	429	362	94	73	240	505
24	1060	263	200	110	200	959	1450	326	90	67	160	529
25	1260	247	190	110	1000	792	1800	304	91	66	120	2950
26	1680	242	190	110	900	716	1250	270	102	75	90	4140
27	1250	247	180	110	740	702	1090	246	96	70	79	2690
28	1020	268	180	110	1000	547	931	229	87	64	75	1530
29	884	300	170	110	---	2160	782	215	87	60	72	1070
30	768	220	170	100	---	4780	684	206	95	60	69	802
31	1770	---	160	100	---	4920	---	190	---	61	70	---
TOTAL	36747	16793	10883	4010	6232	77048	34579	21049	4082	2677	3426	19227
MEAN	1185	560	351	129	223	2485	1153	679	136	86.4	111	641
MAX	7110	1610	1250	160	1000	14100	2760	1570	329	202	250	4140
MIN	186	220	160	100	88	580	381	190	87	60	69	52
CFSM	4.92	2.32	1.46	.54	.93	10.3	4.78	2.82	.56	.36	.46	2.66
IN.	5.67	2.59	1.68	.62	.96	11.89	5.34	3.25	.63	.41	.53	2.97
CAL YR 1976 TOTAL	250958		MEAN 686	MAX 10100	MIN 130	CFSM 2.85	IN 38.74					
WTR YR 1977 TOTAL	236753		MEAN 649	MAX 14100	MIN 52	CFSM 2.69	IN 36.54					

DELAWARE RIVER BASIN

169

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, NY

LOCATION.--Lat 41°58'23", long 75°10'28", Delaware County, Hydrologic Unit 02040102, on left bank 3,000 ft (914 m) upstream from bridge on County highway 28 at Fishs Eddy, 0.6 mi (1.0 km) upstream from Fish Creek, 4.2 mi (6.8 km) downstream from Beaver Kill, and 11 mi (18 km) upstream from the confluence of East and West Branches near Hancock. Water-quality sampling site at discharge station.

DRAINAGE AREA.--783 mi² (2,028 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1912 to current year. Monthly discharge only for some periods, published in WSP 1302.

REVISED RECORDS.--WSP 756: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 955.96 ft (291.377 m) above mean sea level. Prior to Sept. 27, 1928, nonrecording gage and Sept. 28, 1928 to Nov. 1, 1967, water-stage recorder at site 3,000 ft (914 m) downstream at datum 5.0 ft (1.52 m) lower.

REMARKS.--Records good except those for winter periods, which are poor. Subsequent to September 1954, entire flow from 371 mi² (961 km²) of drainage area controlled by Pepacton Reservoir (see reservoirs Delaware River Basin). Part of flow diverted for municipal supply of City of New York. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,300 ft³/s (1,510 m³/s) Aug. 24, 1933, gage height, 20.60 ft (6.279 m) at former site and datum, from rating curve extended above 22,000 ft³/s (623 m³/s); minimum, 52 ft³/s (1.47 m³/s) July 23, 1964, gage height, 1.16 ft (0.354 m) at former site and datum; minimum daily, 68 ft³/s (1.93 m³/s) Aug. 29, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 9, 1903, reached a stage of 23.6 ft (7.19 m) at former site and datum, from description obtained in April 1939, from local residents who had experienced the flood (discharge, about 70,000 ft³/s or 1,980 m³/s, from rating curve extended above 22,000 ft³/s or 623 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34,500 ft³/s (977 m³/s) Mar. 14, gage height, 13.91 ft (4.240 m); minimum, 148 ft³/s (4.19 m³/s) July 3, 4, gage height, 3.12 ft (0.951 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	364	2550	390	350	240	2100	8840	1340	305	180	196	276
2	330	1960	330	350	240	1500	6130	1160	285	168	238	272
3	310	1710	400	340	240	1200	6150	1010	256	160	218	280
4	358	1960	380	340	240	1300	5040	810	236	152	200	218
5	310	1750	360	330	230	4900	4590	2050	220	160	188	192
6	288	1570	350	330	230	3560	4970	2170	220	164	218	185
7	280	1460	2100	320	230	2500	4130	1700	260	184	250	196
8	330	1330	1960	320	230	2050	3610	1340	244	208	276	222
9	8960	1170	1360	310	230	1860	3110	1460	244	228	230	207
10	6580	1080	1320	310	230	2470	2720	1750	420	196	200	190
11	3330	1000	1190	300	230	3480	2440	2320	325	172	192	177
12	2310	900	989	300	230	4380	2010	2660	252	164	222	174
13	1810	825	793	290	240	15000	1780	2620	252	172	234	185
14	1760	772	503	290	250	21500	1600	2390	232	164	263	238
15	1480	720	600	290	270	7240	1350	2000	228	208	320	250
16	1200	682	560	280	250	4730	1110	1620	216	216	250	315
17	1030	638	500	280	240	3480	933	1280	204	336	292	944
18	911	603	470	280	240	2700	803	1040	212	300	335	647
19	814	586	450	270	230	2170	700	1160	224	276	272	546
20	1160	569	430	270	230	1700	629	1000	204	296	238	2460
21	6470	546	420	270	220	1450	577	790	188	276	222	2700
22	3820	517	410	260	220	1540	546	660	180	263	238	1620
23	2620	488	400	260	220	2420	576	550	172	203	325	1170
24	2120	460	390	260	220	2170	2250	468	168	188	268	1050
25	2330	442	380	260	800	1840	3980	432	176	190	242	4920
26	2680	418	380	250	3500	1620	3310	384	196	200	230	7270
27	2220	412	370	250	3300	1480	2800	355	192	190	214	5340
28	1880	412	370	250	2700	1680	2340	345	180	183	207	3010
29	1650	430	360	250	---	3800	1920	340	188	180	200	2050
30	1430	410	360	240	---	10600	1600	330	188	177	254	1510
31	2460	---	350	240	---	13000	---	315	---	180	272	---
TOTAL	63595	28370	19625	8940	15930	131420	82544	37849	6867	6334	7504	38814
MEAN	2051	946	633	288	569	4239	2751	1221	229	204	242	1294
MAX	8960	2550	2100	350	3500	21500	8840	2660	420	336	335	7270
MIN	280	410	330	240	220	1200	546	315	168	152	188	174
CAL YR 1976	TOTAL	529885	MEAN	1448	MAX	14000	MIN	204				
WTR YR 1977	TOTAL	447792	MEAN	1227	MAX	21500	MIN	152				

DELAWARE RIVER BASIN

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958, 1959, 1968 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1967 to current year.

INSTRUMENTATION.--Temperature recorder since November 1967.

REMARKS.--Interruptions in the record were due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.5°C Aug. 2, 1975; minimum (water years 1968-76), freezing point on many days during winter periods.

REVISIONS.--Delete the maximum, minimum, and mean temperatures published for water year 1976 for the period June 6 to Sept. 12.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	14.0	11.5	12.5	7.0	4.5	5.5	1.0	1.0	1.0	0.5	0.5	0.5
2	15.0	13.0	14.0	5.0	3.5	4.5	1.0	0.5	1.0	0.5	0.5	0.5
3	16.0	13.5	15.0	6.0	5.0	5.5	0.5	0.5	0.5	0.5	0.5	0.5
4	16.5	13.0	15.0	6.5	5.0	6.0	0.5	0.5	0.5	0.5	0.5	0.5
5	16.0	13.5	15.0	5.5	4.0	4.5	0.5	0.5	0.5	0.5	0.5	0.5
6	15.0	14.5	15.0	5.0	3.5	4.5	0.5	0.5	0.5	0.5	0.5	0.5
7	16.0	14.5	15.5	5.0	4.5	4.5	0.5	0.5	0.5	0.5	0.5	0.5
8	16.5	15.5	16.0	4.5	2.5	3.5	0.5	0.5	0.5	0.5	0.5	0.5
9	15.5	13.0	14.0	2.5	1.5	2.0	0.5	0.5	0.5	0.5	0.5	0.5
10	12.5	10.0	11.0	3.0	2.0	2.5	0.5	0.5	0.5	0.5	0.5	0.5
11	10.5	9.0	9.5	3.5	2.5	3.0	1.0	0.5	1.0	0.5	0.5	0.5
12	10.5	8.5	9.5	3.0	1.5	2.5	1.0	0.5	1.0	0.5	0.5	0.5
13	10.5	8.5	9.5	3.0	2.0	2.5	1.0	1.0	1.0	0.5	0.5	0.5
14	10.5	9.0	10.0	3.5	1.5	2.5	1.0	1.0	1.0	0.5	0.5	0.5
15	10.5	8.0	9.5	2.5	1.5	2.0	1.0	0.5	1.0	0.5	0.5	0.5
16	10.5	8.5	10.0	3.0	1.0	2.0	0.5	0.5	0.5	0.5	0.5	0.5
17	8.5	7.5	8.0	2.5	1.0	1.5	0.5	0.5	0.5	0.5	0.5	0.5
18	7.5	6.0	7.0	3.0	1.5	2.5	0.5	0.5	0.5	0.5	0.5	0.5
19	7.0	5.0	6.0	4.5	2.0	3.0	0.5	0.5	0.5	0.5	0.5	0.5
20	8.5	6.5	7.0	3.5	2.5	3.0	0.5	0.5	0.5	0.5	0.5	0.5
21	9.0	7.5	8.5	2.5	1.5	2.0	0.5	0.5	0.5	0.5	0.5	0.5
22	7.5	6.5	7.0	1.5	1.0	1.5	0.5	0.5	0.5	0.5	0.5	0.5
23	7.0	6.0	6.5	1.5	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5
24	6.5	6.0	6.5	1.0	0.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5
25	8.5	7.0	7.5	1.0	0.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5
26	8.5	5.5	7.0	2.5	0.5	1.5	0.5	0.5	0.5	0.5	0.5	0.5
27	5.0	4.0	4.5	4.5	2.5	3.5	0.5	0.5	0.5	0.5	0.5	0.5
28	5.0	3.0	4.0	5.0	4.5	5.0	0.5	0.5	0.5	0.5	0.5	0.5
29	6.0	3.5	5.0	5.0	1.5	3.5	0.5	0.5	0.5	---	---	---
30	6.0	4.5	5.5	1.0	1.0	1.0	0.5	0.5	0.5	---	---	---
31	7.5	6.0	7.0	---	---	---	0.5	0.5	0.5	---	---	---
MONTH	16.5	3.0	9.5	7.0	0.5	3.0	1.0	0.5	0.5	0.5	0.5	0.5

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1				---	---	---	5.5	3.0	4.5	13.0	8.5	11.0
2				---	---	---	4.5	3.5	4.0	12.0	10.5	11.0
3				---	---	---	6.5	4.0	5.0	14.0	8.5	11.5
4				---	---	---	5.5	3.5	4.0	12.5	10.0	11.5
5				---	---	---	4.5	3.5	4.0	11.0	10.0	10.5
6				---	---	---	4.0	3.5	4.0	15.0	11.0	13.0
7				---	---	---	5.0	2.5	3.5	15.5	12.5	14.0
8				---	---	---	5.0	3.5	4.0	13.5	10.5	12.0
9				---	---	---	4.5	1.5	3.0	11.0	7.5	9.0
10				6.5	3.5	5.0	6.5	2.5	4.5	8.5	7.0	8.0
11				6.0	3.0	4.5	8.5	4.0	6.5	12.0	8.0	10.0
12				5.5	3.0	4.5	11.5	6.5	9.0	12.5	9.0	11.0
13				5.0	3.0	4.0	12.5	9.0	10.5	13.5	10.5	12.0
14				4.0	3.5	3.5	12.5	9.5	11.0	13.0	9.0	11.5
15				5.5	4.0	4.5	11.5	7.5	9.5	14.0	9.0	11.5
16				5.5	4.0	4.5	11.5	7.5	9.5	15.0	10.5	12.5
17				4.5	3.0	3.5	12.5	7.0	9.5	17.0	12.0	14.5
18				3.0	0.5	1.5	13.0	8.0	10.5	18.5	15.0	16.5
19				4.0	0.5	2.0	15.0	9.5	12.5	19.0	16.0	17.5
20				2.5	1.0	1.5	15.5	11.5	13.5	20.0	15.5	18.0
21				5.0	1.5	3.0	17.5	12.5	15.0	21.5	17.0	19.0
22				4.0	1.0	2.5	18.0	14.5	16.0	23.0	18.0	20.5
23				1.0	0.5	1.0	16.5	14.0	15.5	23.0	18.5	20.5
24				2.0	1.0	1.5	14.0	9.5	11.5	23.5	19.5	21.0
25				3.0	0.5	1.5	9.0	8.5	9.0	24.0	19.5	21.5
26				5.0	1.0	3.0	8.5	8.0	8.0	24.0	19.0	21.0
27				6.5	2.5	4.5	10.5	8.0	9.0	23.0	18.0	20.5
28				5.0	4.5	4.5	10.0	8.5	9.0	23.5	18.0	21.0
29				7.5	4.0	5.5	10.0	6.5	8.5	20.5	18.0	19.0
30				7.0	3.5	5.0	12.0	7.0	9.5	23.0	16.5	19.5
31				6.0	4.0	4.5	---	---	---	23.0	18.0	20.5
MONTH				7.5	0.5	3.5	18.0	1.5	8.5	24.0	7.0	15.0
	JUNE			JULY			AUGUST			SEPTEMBER		
1	21.0	18.0	19.0							24.5	19.5	22.0
2	23.0	17.5	19.5							24.5	21.0	22.5
3	22.0	17.0	19.0							25.0	21.0	22.5
4	22.5	15.5	19.0							26.0	19.0	22.0
5	23.0	18.0	20.0							25.0	19.5	22.0
6	19.0	15.5	17.0							25.0	21.0	22.5
7	16.0	14.0	15.0							25.0	18.5	21.5
8	16.0	12.5	14.0							25.5	19.5	22.0
9	13.5	12.0	12.5							25.0	19.5	21.5
10	15.0	12.0	13.5							25.5	19.5	21.5
11	17.5	13.0	15.5							22.5	16.0	19.0
12	18.5	14.5	16.5							23.5	14.5	18.0
13	21.5	16.0	18.5							18.0	17.0	17.5
14	20.5	18.0	19.0							20.5	17.5	18.5
15	24.0	17.5	20.5							20.0	16.0	18.0
16	25.5	18.0	21.5							18.0	17.0	17.0
17	22.5	19.5	21.0							18.5	16.0	17.5
18	24.0	20.0	21.5							20.0	18.0	19.0
19	25.5	20.0	22.5							22.0	19.0	20.0
20	26.5	19.0	22.5							20.5	17.5	19.0
21	23.0	18.5	20.5							17.0	16.0	16.5
22	23.5	16.0	19.5							16.0	15.5	15.5
23	25.5	16.5	20.5							16.5	15.0	15.5
24	24.0	17.0	20.5							16.0	15.0	15.5
25	21.0	19.5	20.0							15.0	13.5	14.0
26	25.0	19.0	21.5							14.5	13.5	14.0
27	28.0	20.0	23.5							15.0	13.5	14.5
28	24.5	20.5	22.5							15.0	14.0	14.5
29	26.0	21.5	23.0							15.0	13.0	14.0
30	27.0	19.5	23.0							14.5	13.0	13.5
31	---	---	---							---	---	---
MONTH	28.0	12.0	19.5							26.0	13.0	18.5

DELAWARE RIVER BASIN

01423000 WEST BRANCH DELAWARE RIVER AT WALTON, NY

LOCATION.--Lat 42°09'58", long 75°08'26", Delaware County, Hydrologic Unit 02040101, on left bank at west end of fairgrounds at Walton, and 100 ft (30 m) downstream from West Brook.

DRAINAGE AREA.--331 mi² (856 km²).

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,190.30 ft(362.803 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--27 years, 585 ft³/s (16.57 m³/s), 24.00 in/yr (610 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft³/s (493 m³/s) Mar. 14, 1977, gage height, 14.16 ft (4.316 m); minimum, 12 ft³/s (0.34 m³/s) Sept. 15, Nov. 22, 1964; minimum gage height, 1.86 ft (0.567 m) Nov. 22, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,600 ft³/s (130 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1715	8,600 244	10.74 3.274	Mar. 14	0845	*17,400 493	*14.16 4.316
Oct. 21	0500	7,770 220	10.32 3.146	Mar. 30	0030	8,840 250	10.86 3.310
Feb. 28	0415	4,690 133	8.57 2.612	Sept. 20	1745	9,030 256	10.95 3.338
Mar. 5	0530	4,760 135	8.62 2.627	Sept. 26	1800	7,610 216	10.24 3.121

Minimum discharge, 51 ft³/s (1.44 m³/s) July 15, gage height, 2.51 ft (0.765 m).

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	1090	260	500	120	1770	3550	687	178	92	69	82
2	116	854	260	400	120	1260	2430	612	196	78	164	85
3	107	813	240	330	120	1040	2390	589	162	71	120	94
4	102	914	250	280	120	1500	1610	496	144	67	88	118
5	97	795	270	250	120	4150	1670	708	132	66	84	95
6	91	745	310	220	120	2650	1540	584	128	75	97	86
7	89	734	1600	190	120	1720	1200	492	153	79	100	81
8	151	686	1400	170	120	1390	1100	461	151	81	108	75
9	5060	598	960	160	120	1480	908	672	146	84	100	71
10	3450	566	760	150	120	2300	825	1130	234	75	91	66
11	1570	531	640	140	140	2330	741	1590	193	69	284	63
12	1100	486	540	140	160	2250	642	1450	146	71	231	61
13	884	455	480	130	180	6490	580	1220	126	78	169	67
14	990	430	430	130	210	14700	554	1040	117	71	149	140
15	902	412	410	130	200	6910	590	866	112	64	201	193
16	696	388	390	130	180	3900	457	735	103	60	144	264
17	593	359	370	120	170	2640	420	627	97	57	155	939
18	535	359	340	120	160	1960	392	593	162	60	299	533
19	478	352	320	120	160	1600	360	908	231	63	183	2680
20	842	352	300	120	160	1270	331	580	149	77	146	4820
21	5980	324	290	120	150	1100	302	504	120	66	130	5140
22	2830	306	260	120	180	1210	287	446	110	103	140	2480
23	1850	287	260	120	240	1240	340	392	98	74	169	1680
24	1490	272	260	120	300	1060	2180	357	91	60	144	1350
25	1540	248	260	120	1000	896	3310	347	91	78	142	3300
26	1610	260	260	120	1800	825	2090	293	100	134	122	5420
27	1170	312	270	120	1900	785	1580	261	95	95	107	4450
28	1010	330	310	120	3720	1050	1240	237	84	75	100	2480
29	902	359	740	120	---	5000	989	209	95	65	94	1770
30	795	300	720	120	---	7470	813	191	113	59	91	1290
31	1270	---	600	120	---	6130	---	173	---	58	86	---
TOTAL	38424	14917	14760	5250	12210	90976	35331	19450	4057	2305	4307	39973
MEAN	1239	497	476	169	436	2935	1178	627	135	74.4	139	1332
MAX	5980	1090	1600	500	3720	14700	3550	1590	234	134	299	5420
MIN	89	248	240	120	120	785	287	173	84	57	69	61
CFSM	3.74	1.50	1.44	.51	1.32	8.87	3.56	1.89	.41	.22	.42	4.02
IN.	4.32	1.68	1.66	.59	1.37	10.22	3.97	2.19	.46	.26	.48	4.49

CAL YR 1976 TOTAL 301227 MEAN 823 MAX 11000 MIN 82 CFSM 2.49 IN 33.85
WTR YR 1977 TOTAL 281960 MEAN 772 MAX 14700 MIN 57 CFSM 2.33 IN 31.69

DELAWARE RIVER BASIN

173

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, NY

LOCATION.--Lat 42°04'29", long 75°23'47", Delaware County, Hydrologic Unit 02040101, on right bank at Stilesville, 0.5 mi (0.8 km) upstream from Cold Spring Creek, 1.4 mi (2.3 km) downstream from Cannonsville Dam, and 2.0 mi (3.2 km) northeast of Deposit. Water-quality sampling site at discharge station.

DRAINAGE AREA.--456 mi² (1,181 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1952 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 992.23 ft (302.432 m) above mean sea level (levels by Board of Water Supply, City of New York). Prior to Oct. 1, 1964, at site 600 ft (183 m) downstream at datum 1.37 ft (0.418 m) higher.

REMARKS.--Records fair above 100 ft³/s (2.83 m³/s), poor below. Subsequent to October 1963, entire flow 454 mi² (1,176 km²) of drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply (see Reservoirs in Delaware River Basin). Remainder of flow (except for conservation releases and spill) impounded for release during period of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft³/s (496 m³/s) Jan. 22, 1959, gage height, 9.01 ft (2.746 m), site and datum then in use; minimum daily 7.2 ft³/s (0.20 m³/s) Feb. 8, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,500 ft³/s (382 m³/s) Mar. 14, gage height, 12.19 ft (3.716 m); minimum daily, 12 ft³/s (0.34 m³/s) Jan. 11, 16, 19, 24, 26, 30, 31; minimum gage height, 2.65 ft (0.808 m) Mar. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	342	1480	143	180	178	16	5900	1290	147	714	817	959
2	359	1350	115	17	516	15	4380	1130	518	1040	577	880
3	119	1250	350	13	974	14	3620	1040	673	970	543	970
4	502	1190	174	13	1230	18	2930	936	782	348	457	959
5	278	1180	29	13	1330	21	2490	1020	652	1110	982	429
6	422	1090	17	452	1290	18	2310	1060	310	1060	842	118
7	662	1040	79	235	1070	16	2010	982	551	1060	693	253
8	1010	994	770	23	1070	15	1740	913	913	543	693	299
9	586	924	884	13	1080	15	1520	924	643	614	326	970
10	73	867	821	13	986	16	1340	1030	371	924	396	936
11	82	805	864	12	539	99	1200	1320	117	725	315	139
12	494	736	823	58	23	921	1080	1590	98	315	947	152
13	736	683	742	130	287	2780	982	1630	167	377	880	211
14	867	633	564	14	703	9550	902	1540	228	331	305	173
15	935	604	460	13	607	11400	830	1400	342	891	221	207
16	880	560	417	12	402	7420	770	1250	436	782	230	1010
17	770	526	384	171	722	5060	704	1110	924	614	272	479
18	652	502	357	20	829	3770	643	994	924	331	747	75
19	551	479	306	12	892	2950	577	1010	759	673	683	58
20	526	457	278	256	654	2360	518	867	560	693	693	67
21	2610	436	299	233	682	1940	487	673	543	471	770	61
22	4100	443	271	72	589	1780	471	534	568	1010	429	51
23	3400	383	282	13	221	1970	383	494	487	936	305	46
24	2720	353	180	12	19	1760	867	293	1310	736	310	47
25	2440	281	156	29	21	1540	2450	162	673	510	409	81
26	2290	230	153	12	15	1350	2840	92	320	1030	805	87
27	2050	196	146	168	16	1230	2610	54	320	1230	605	77
28	1700	183	157	219	22	1260	2250	106	320	1250	457	57
29	1480	190	109	71	---	2120	1880	136	320	1250	759	52
30	1320	183	226	12	---	5420	1540	243	320	1200	714	49
31	1340	---	353	12	---	6920	---	337	---	1220	623	---
TOTAL	36296	20228	10909	2523	16967	73764	52224	26160	15296	24958	17805	9952
MEAN	1171	674	352	81.4	606	2379	1741	844	510	805	574	332
MAX	4100	1480	884	452	1330	11400	5900	1630	1310	1250	982	1010
MIN	73	183	17	12	15	14	383	54	98	315	221	46
CFSM	2.57	1.48	.77	.18	1.33	5.22	3.82	1.85	1.12	1.77	1.26	.73
IN.	2.96	1.65	.89	.21	1.38	6.02	4.26	2.13	1.25	2.04	1.45	.81
CAL YR 1976 TOTAL	348409		MEAN 952	MAX 7730	MIN 17	CFSM 2.09	IN 28.42					
WTR YR 1977 TOTAL	307082		MEAN 841	MAX 11400	MIN 12	CFSM 1.84	IN 25.05					

DELAWARE RIVER BASIN

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1962 to current year.

INSTRUMENTATION.--Temperature recorder since October 1962.

REMARKS.--Water temperature is affected by release of water from upstream reservoir. Unpublished chemical analyses for water years 1959, 1960 and 1970 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 30.5°C July 2, 1969; minimum, freezing point on many days during winter periods, except 1969 and 1973.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 19.0°C May 27; minimum, freezing point on many days during winter period.

REVISION.--The daily maximum water temperature for July 6, 1976, has been revised to 20.5°C, superseding figure previously published.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.0	7.0	8.0	9.0	8.5	9.0	3.5	2.0	3.0	2.0	0.5	1.5
2	8.0	6.5	7.0	9.0	8.5	8.5	3.5	1.5	3.0	2.0	1.0	1.0
3	11.0	6.5	8.5	8.5	8.5	8.5	4.0	0.5	3.0	2.0	1.0	1.5
4	8.5	6.5	7.5	9.0	8.5	8.5	4.0	2.0	3.0	2.5	1.0	1.5
5	10.0	6.5	7.5	8.5	8.0	8.5	5.0	2.0	3.0	2.5	1.0	1.5
6	7.5	7.0	7.0	8.5	8.0	8.5	3.5	1.0	2.0	3.0	0.5	2.0
7	7.5	7.0	7.0	8.0	8.0	8.0	3.0	1.5	2.0	3.0	1.0	2.5
8	7.5	7.0	7.0	7.5	7.0	7.5	4.0	3.0	3.5	3.0	1.0	1.5
9	9.5	7.0	8.0	7.5	7.0	7.0	4.0	3.5	3.5	3.5	1.0	1.5
10	9.0	7.0	8.0	7.5	7.0	7.0	4.0	3.5	4.0	1.0	0.5	0.5
11	12.5	6.0	9.0	7.0	6.5	7.0	4.0	3.5	4.0	1.5	0.5	0.5
12	15.0	12.5	14.0	7.0	6.5	6.5	4.0	3.5	4.0	0.5	0.0	0.5
13	14.5	13.5	14.0	7.0	6.5	6.5	4.0	2.5	3.0	1.5	0.0	1.0
14	14.0	13.0	13.5	7.0	6.5	6.5	3.5	2.5	3.0	1.0	0.5	0.5
15	14.0	13.0	13.5	7.0	6.0	6.5	4.0	3.0	3.5	0.5	0.5	0.5
16	13.5	12.5	13.0	7.0	6.0	6.5	3.5	3.0	3.0	0.5	0.5	0.5
17	13.0	12.5	12.5	6.5	6.0	6.0	3.0	3.0	3.0	2.0	0.0	1.0
18	12.5	12.0	12.0	6.5	6.0	6.5	3.5	2.5	3.0	2.5	0.5	1.0
19	12.5	11.5	12.0	7.0	6.0	6.5	3.0	2.0	2.5	1.5	0.5	1.0
20	12.5	11.5	12.0	6.0	5.5	6.0	4.0	2.5	3.5	2.0	0.0	1.5
21	12.5	11.5	12.0	6.0	5.5	5.5	3.0	1.0	2.0	2.5	1.0	2.0
22	11.5	10.5	11.0	5.5	5.5	5.5	2.5	1.0	2.0	2.0	1.0	1.5
23	11.0	10.5	11.0	5.5	5.5	5.5	2.5	1.5	2.0	2.5	0.5	1.0
24	11.0	10.5	11.0	5.5	5.0	5.5	2.0	1.0	1.5	2.5	0.5	1.0
25	11.0	11.0	11.0	6.0	5.0	5.0	1.5	0.5	1.0	0.5	0.5	0.5
26	11.0	10.0	10.5	6.0	5.0	5.5	1.5	1.0	1.5	1.0	0.5	0.5
27	10.5	10.0	10.0	7.5	6.0	6.5	1.0	0.5	0.5	2.5	0.5	1.5
28	10.0	9.5	10.0	6.0	5.5	6.0	1.0	0.0	0.5	2.0	0.5	1.5
29	10.0	9.5	9.5	5.5	4.0	4.5	0.5	0.5	0.5	2.5	1.0	1.5
30	10.0	9.5	9.5	4.5	3.0	3.5	1.5	0.5	0.5	2.5	0.5	1.0
31	10.0	9.5	9.5	---	---	---	2.5	1.5	2.0	2.5	0.5	1.0
MONTH	15.0	6.0	10.0	9.0	3.0	6.5	5.0	0.0	2.5	3.5	0.0	1.0

DELAWARE RIVER BASIN

175

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, NY--Continued

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1976 TO SEPTEMBER 1977

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	0.0	1.0	5.5	2.0	3.5	3.0	3.0	3.0	9.5	7.5	8.0
2	2.5	1.0	2.0	7.0	0.0	3.5	3.5	3.0	3.0	8.5	7.0	7.5
3	2.5	2.5	2.5	8.0	1.5	4.5	4.0	3.5	3.5	9.5	7.5	8.5
4	3.0	2.5	2.5	3.5	3.0	3.5	3.5	3.0	3.5	10.0	8.5	9.0
5	2.5	2.5	2.5	7.5	3.0	5.0	3.5	3.5	3.5	11.0	9.0	10.0
6	2.5	2.0	2.5	4.5	3.0	4.0	3.5	3.0	3.5	11.0	8.5	10.0
7	2.5	2.5	2.5	5.0	2.0	3.5	4.0	3.0	3.5	11.5	9.0	10.0
8	3.0	2.0	2.5	9.5	2.0	5.5	3.5	3.0	3.0	11.0	9.0	10.0
9	3.0	2.0	2.5	12.0	2.5	6.5	3.5	3.0	3.0	9.5	6.5	8.5
10	3.0	2.5	2.5	12.5	4.5	8.0	4.0	3.0	3.5	10.0	9.0	9.5
11	4.0	2.5	3.0	9.5	2.0	6.0	5.0	3.0	4.0	10.5	9.0	10.0
12	5.5	2.5	3.5	3.0	1.5	2.5	5.0	3.5	4.0	10.0	8.0	9.5
13	5.0	2.5	3.5	2.5	2.0	2.5	5.5	4.0	4.5	10.5	8.0	9.5
14	3.0	2.5	3.0	2.0	2.0	2.0	5.5	4.0	4.5	11.0	8.0	9.5
15	3.0	2.0	2.5	2.0	2.0	2.0	5.5	4.0	4.5	12.0	10.0	11.0
16	3.0	2.0	2.5	2.5	2.0	2.0	5.5	4.0	4.5	12.0	10.5	11.5
17	3.0	2.0	2.5	2.5	2.0	2.5	6.5	4.0	5.0	13.0	10.5	11.5
18	3.5	2.0	2.5	2.5	2.0	2.5	8.0	5.0	6.5	13.5	11.0	12.0
19	3.0	2.5	2.5	2.5	2.0	2.5	10.0	7.0	8.5	16.5	11.5	14.0
20	2.5	2.5	2.5	2.5	2.0	2.0	11.0	6.5	8.5	17.0	15.5	16.0
21	3.0	2.0	2.5	3.0	2.0	2.5	9.5	5.5	7.5	17.5	15.0	16.5
22	3.5	2.0	2.5	2.5	2.0	2.0	10.0	5.5	7.5	18.0	15.0	16.0
23	5.0	2.5	3.5	2.5	2.0	2.5	10.0	7.0	8.5	18.5	14.0	15.5
24	4.0	2.5	3.5	2.5	2.0	2.0	9.5	8.0	8.5	17.5	9.0	15.5
25	3.5	2.5	3.0	3.0	2.0	2.5	8.0	6.0	7.0	18.5	16.0	17.0
26	8.5	2.5	5.0	3.0	2.0	2.5	8.0	7.0	7.5	18.5	12.0	15.5
27	8.0	3.0	5.5	3.5	2.0	2.5	8.0	7.0	7.5	19.0	10.0	14.0
28	5.5	3.0	4.5	3.0	2.5	2.5	8.5	5.5	7.0	13.5	8.5	10.5
29	---	---	---	3.5	2.5	3.0	8.5	6.0	7.0	13.5	5.5	9.5
30	---	---	---	3.5	2.5	3.0	8.5	5.5	7.0	11.0	5.5	7.5
31	---	---	---	3.5	3.0	3.0	---	---	---	10.5	5.5	7.0
MONTH	8.5	0.0	3.0	12.5	0.0	3.5	11.0	3.0	5.5	19.0	5.5	11.5
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.5	5.5	8.0	8.5	6.5	7.0	8.5	7.5	8.0	10.5	9.0	9.5
2	10.0	5.5	7.0	7.5	6.0	6.5	9.5	7.0	8.0	10.0	9.0	9.5
3	7.5	5.5	6.0	8.0	5.0	7.0	8.5	7.0	7.5	10.5	9.5	9.5
4	7.5	5.5	6.0	8.0	5.0	7.0	9.5	7.5	8.0	11.0	9.5	10.0
5	7.5	6.0	6.5	7.5	5.0	6.5	8.5	7.0	8.0	11.0	9.5	10.0
6	7.5	5.5	6.5	7.5	5.0	6.5	8.5	7.5	8.0	13.5	9.0	11.0
7	9.0	5.5	7.0	7.5	5.5	6.5	8.0	7.5	8.0	11.0	9.0	10.0
8	6.5	5.5	6.0	8.0	6.5	7.0	9.0	7.5	8.0	11.5	9.0	10.0
9	6.5	5.5	6.0	7.5	6.0	6.5	10.0	7.5	8.5	11.0	9.0	10.0
10	10.0	5.5	7.0	8.0	5.5	7.0	9.0	7.5	8.0	10.5	10.0	10.5
11	12.0	6.0	9.0	8.5	5.5	7.0	10.0	7.5	8.5	13.0	10.0	11.5
12	12.0	5.5	8.5	8.0	5.5	7.0	8.5	7.5	8.0	11.5	9.5	10.5
13	10.5	6.5	8.5	9.5	5.5	7.5	9.5	8.0	8.5	10.0	9.5	9.5
14	7.5	6.0	6.5	9.5	5.5	7.5	10.0	8.0	8.5	13.0	9.5	10.5
15	8.5	5.5	6.5	8.5	5.5	7.0	10.5	8.0	9.0	11.5	9.0	10.0
16	8.5	5.5	7.0	8.5	5.5	7.5	11.5	7.5	8.5	10.5	9.5	10.5
17	7.0	5.5	6.5	7.5	5.5	7.0	12.0	8.0	9.0	13.5	10.5	11.0
18	7.0	6.0	6.5	9.5	6.5	8.0	9.5	7.5	8.5	14.0	11.0	12.5
19	7.5	6.0	6.5	8.5	6.5	7.5	9.5	7.5	8.5	15.5	11.0	13.0
20	11.0	6.0	8.0	8.5	5.5	7.5	9.5	8.0	8.5	14.5	11.5	13.0
21	11.0	6.0	7.0	9.5	7.0	7.5	9.5	8.0	8.5	12.0	11.0	11.5
22	8.0	5.5	6.5	8.5	5.5	7.5	10.0	8.5	9.0	12.0	10.5	11.0
23	9.0	6.0	7.0	8.5	6.5	7.5	10.0	8.0	9.0	13.5	10.5	12.0
24	7.5	6.0	6.5	9.0	7.0	7.5	9.5	8.0	8.5	12.0	10.5	11.0
25	7.0	6.0	6.5	8.0	7.0	7.5	10.0	8.0	8.5	11.0	10.0	11.0
26	8.5	6.0	7.0	8.5	5.5	7.0	10.5	8.0	9.0	12.5	10.5	11.5
27	9.0	6.0	7.0	8.0	5.5	7.5	10.5	8.5	9.0	13.0	10.5	11.5
28	8.0	6.0	7.0	8.5	6.5	7.5	10.5	8.5	9.5	13.0	10.5	11.5
29	8.5	6.0	7.0	8.5	7.0	7.5	10.5	9.0	9.5	14.5	9.5	11.5
30	9.0	6.0	7.5	8.0	7.5	7.5	10.0	9.0	9.5	13.5	10.0	11.5
31	---	---	---	8.5	7.0	8.0	10.0	9.0	9.5	---	---	---
MONTH	12.0	5.5	7.0	9.5	5.0	7.0	12.0	7.0	8.5	15.5	9.0	11.0

DELAWARE RIVER BASIN

01425642 BUTLER BROOK AT DEPOSIT, NY

LOCATION.--Lat 42°03'40", long 75°25'12", Delaware County, Hydrologic Unit 02040101, on left bank in Deposit, 100 ft (30 m) upstream from bridge on Front Street, 0.1 mi (0.2 km) west of State highway 10, and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--8.44 mi² (21.9 km²).

PERIOD OF RECORD.--October 1975 to September 1977, no winter records (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 985 ft (300 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 1,120 ft³/s (31.7 m³/s) Mar. 14, 1977, gage height, 6.19 ft (1.887 m); minimum, 0.24 ft³/s (0.007 m³/s) Aug. 3, 1977, gage height, 0.51 ft (0.155 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 1,120 ft³/s (31.7 m³/s) Mar. 14, gage height, 6.19 ft (1.887 m); minimum, 0.24 ft³/s (0.007 m³/s) Aug. 3, 4, gage height, 0.51 ft (0.155 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	24				60	136	8.8	.86	.43	.34	.62
2	3.2	20				40	63	10	.74	.50	.26	.50
3	2.7	18				33	50	8.8	.54	.37	.24	.50
4	2.3	17				50	29	7.2	.50	.34	.24	.54
5	9.4	14				90	29	48	.50	.34	.34	.63
6	42	16				60	22	24	.63	.43	.40	.46
7	13	15				50	21	17	.92	.37	2.2	.40
8	15	13				32	20	15	.68	.98	.74	.37
9	84	11				40	17	22	1.7	.43	.40	.34
10	50	11				72	19	22	3.5	.37	.34	.37
11	41	10				72	17	16	.86	.34	.31	.37
12	27	8.2				72	14	14	.63	.37	1.6	.29
13	21	7.2				276	10	12	.54	.37	.46	.40
14	25	6.9				766	7.6	9.4	.50	.31	1.9	5.4
15	17	6.2				713	5.9	7.7	.63	.31	1.4	1.2
16	14	5.7				242	5.9	6.2	.46	.34	1.0	58
17	12	4.9				78	5.1	4.9	.46	.34	1.6	55
18	10	5.1				30	4.6	4.9	.54	.34	1.3	21
19	9.1	4.9				21	4.1	6.6	.80	.34	1.0	16
20	27	4.9				17	3.2	3.7	.59	.37	.84	122
21	48	4.4				17	2.9	2.7	.68	.40	1.3	52
22	43	4.1				42	2.9	2.2	.59	.43	1.1	34
23	32	3.7				44	34	1.9	.50	.46	.90	22
24	29	3.5				28	212	1.6	.43	.50	.80	39
25	31	2.9				23	112	1.6	.46	.63	.70	305
26	31	3.0				21	45	1.1	.46	.54	.60	339
27	21	3.9				26	26	1.1	.46	.68	.52	98
28	18	3.7				50	18	.92	.40	.68	.50	45
29	16	5.7				199	14	.92	1.1	.63	.48	28
30	14	3.0				219	11	.92	.59	.50	.48	19
31	30	---				259	---	.80	---	.29	.54	---
TOTAL	741.4	260.9	---	---		3742	961.2	283.96	22.25	13.73	24.83	1265.39
MEAN	23.9	8.70	---	---		121	32.0	9.16	.74	.44	.80	42.2
MAX	84	24	---	---		766	212	48	3.5	.98	2.2	339
MIN	2.3	2.9	---	---		17	2.9	.80	.40	.29	.24	.29
CFSM	2.83	1.03	---	---		14.3	3.79	1.09	.09	.05	.09	5.00
IN.	3.27	1.15	---	---		16.49	4.24	1.25	.10	.06	.11	5.58

DELAWARE RIVER BASIN

177

01425675 OQUAGA CREEK NEAR NORTH SANFORD, NY

LOCATION.--Lat 42°10'28", long 75°26'25", Broome County, Hydrologic Unit 02040101, on left bank 20 ft (6 m) downstream from culvert on North Sanford Road, 0.2 mi (0.3 km) upstream from outlet of Stilson Pond, 1.5 mi (2.4 km) north of North Sanford, and 4.1 mi (6.6 km) upstream from Dry Brook. Water-quality sampling site at discharge station.

DRAINAGE AREA.--4.71 mi² (12.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1969 to current year.

REVISED RECORDS.--WRD NY 1971: 1970.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 1,480 ft (451 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--8 years, 9.14 ft³/s (0.259 m³/s), 26.35 in/yr (669 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 238 ft³/s (6.74 m³/s) Oct. 9, 1976, gage height, 2.59 ft (0.789 m); maximum gage height, 2.71 ft (0.826 m) Feb. 14, 1971 (backwater from ice); minimum discharge, 0.08 ft³/s (0.002 m³/s) Oct. 2, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 120 ft³/s (3.4 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1545	*238 6.74	*2.59 0.789	Apr. 24	2045	126 3.57	1.93 0.588
Oct. 21	0745	158 4.47	2.14 0.652	Sept. 26	1300	201 5.69	2.39 0.728
Mar. 13	1200	171 4.84	2.22 0.677				

Minimum discharge, 0.64 ft³/s (0.018 m³/s) June 30, July 1-5, 6, 10, 11, 14, gage height, 0.37 ft (0.113 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	18	3.4	3.1	2.7	25	31	9.0	2.9	.64	.77	.70
2	3.1	14	3.4	3.1	2.7	19	23	8.6	2.9	.64	.77	.70
3	3.3	12	3.4	3.1	2.7	16	25	8.6	2.7	.64	.70	.70
4	3.3	12	3.1	3.1	2.7	25	18	8.2	2.7	.64	.70	.70
5	3.3	11	3.1	3.1	2.7	62	16	12	2.7	.64	.77	.70
6	3.3	10	3.1	3.1	2.7	38	14	13	2.9	.70	.77	.70
7	3.3	10	5.4	3.1	2.7	24	12	11	2.9	.70	.85	.70
8	3.7	9.8	7.8	2.9	2.7	19	11	9.8	2.9	.70	.77	.70
9	93	9.4	7.8	2.9	2.7	22	9.8	11	3.1	.70	.77	.70
10	71	9.0	7.8	3.1	2.7	40	9.0	16	2.9	.70	.77	.70
11	29	8.2	7.8	2.9	2.7	47	8.6	18	2.9	.70	.77	.70
12	19	7.8	7.8	2.9	2.7	50	8.2	14	2.9	.70	.85	.70
13	14	7.0	6.0	2.9	2.9	128	7.8	12	2.9	.70	.77	.77
14	14	6.7	5.4	2.9	2.9	112	7.0	9.8	2.9	.70	.85	.94
15	13	6.3	6.0	2.9	2.9	46	6.7	9.0	2.9	.70	.77	.77
16	11	5.7	5.7	2.9	2.9	32	6.0	8.6	2.7	.70	.77	1.4
17	9.8	5.4	5.4	2.9	2.9	23	5.4	7.8	2.7	.70	.77	1.4
18	9.0	5.1	5.1	2.9	2.9	19	5.1	7.4	2.9	.70	.77	.94
19	8.2	4.8	4.8	2.7	2.9	16	4.5	7.8	2.9	.70	.77	.94
20	10	4.5	4.8	2.9	2.9	13	4.2	7.4	2.9	.70	.77	3.1
21	100	4.2	5.1	2.9	2.7	12	3.9	7.0	2.9	.70	.70	2.3
22	37	4.2	4.8	2.9	2.7	14	3.4	6.3	2.9	.70	.77	4.8
23	23	3.9	4.5	2.9	2.7	17	5.4	5.4	2.9	.70	.70	6.3
24	19	3.6	4.2	2.9	3.1	14	61	4.8	2.7	.70	.77	7.4
25	25	3.4	3.9	2.9	5.1	13	67	4.8	2.5	.77	.70	77
26	26	3.4	3.9	2.9	3.9	11	32	4.2	2.5	.70	.70	130
27	18	3.4	3.6	2.9	4.8	11	20	3.6	2.5	.70	.70	61
28	14	3.4	3.6	2.9	20	17	16	3.1	2.5	.70	.70	30
29	13	3.6	3.4	2.9	---	67	12	2.9	1.7	.70	.70	19
30	11	3.6	3.1	2.9	---	76	10	2.7	.70	.77	.70	14
31	19	---	3.1	2.9	---	56	---	2.7	---	.70	.70	---
TOTAL	632.6	213.4	150.3	91.3	100.6	1084	463.0	256.5	81.00	21.54	23.34	370.46
MEAN	20.4	7.11	4.85	2.95	3.59	35.0	15.4	8.27	2.70	.69	.75	12.3
MAX	100	18	7.8	3.1	20	128	67	18	3.1	.77	.85	130
MIN	3.1	3.4	3.1	2.7	2.7	11	3.4	2.7	.70	.64	.70	.70
CFSM	4.33	1.51	1.03	.83	.76	7.43	3.27	1.76	.57	.15	.16	2.61
IN.	5.00	1.69	1.19	.72	.79	8.56	3.66	2.03	.64	.17	.18	2.93

CAL YR 1976	TOTAL	3675.90	MEAN	10.0	MAX	100	MIN	.80	CFSM	2.12	IN	29.03
WTR YR 1977	TOTAL	3488.04	MEAN	9.55	MAX	130	MIN	.64	CFSM	2.03	IN	27.54

DELAWARE RIVER BASIN

01425675 OQUAGA CREEK NEAR NORTH SANFORD, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1971 to current year.

INSTRUMENTATION.--Temperature recorder since October 1971.

REMARKS.--No temperature record Mar. 11 to Apr. 12, May 8 to June 17, Aug. 7-15, due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1972-75), 21.0°C June 30, July 1, 1971 and July 23, 24, 1972; minimum, freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 18.5°C Aug. 29, Sept. 1; minimum recorded, freezing point on Jan. 28, Feb. 20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CF5)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TJR- BIO- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	STREP- TOCOCCI (COL- OYIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL- PER 100 ML)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
OCT , 1976											
20...	1400	9.6	57	7.5	2	11.5	100	54	--	18	2
APR , 1977											
13...	1100	8.2	51	6.8	--	12.8	102	--	B6	13	0
MAY											
26...	1600	1.8	54	6.0	3	11.0	103	--	B10	19	6
JUN											
22...	1000	.63	64	6.7	2	10.3	98	--	B28	13	0
JUL											
21...	1100	1.3	89	6.6	4	9.5	100	--	320	33	4
AUG											
16...	1730	1.3	91	6.1	4	9.3	9	--	B125	39	13
SEP											
12...	1430	1.1	84	6.3	3	10.2	100	--	120	33	5

DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT , 1976											
20...	5.1	1.3	1.5	.9	20	0	16	7.5	2.0	--	35
APR , 1977											
13...	3.8	.8	1.6	.5	16	0	13	13	2.6	2.3	32
MAY											
26...	5.6	1.3	2.0	.6	16	0	13	7.5	2.1	--	41
JUN											
22...	2.7	1.4	2.2	.7	20	0	16	7.2	2.0	--	40
JUL											
21...	10	2.0	2.3	.8	36	0	30	--	2.2	--	54
AUG											
16...	12	2.1	2.6	.8	31	0	25	--	2.3	--	54
SEP											
12...	10	2.0	2.1	1.0	34	0	28	--	2.3	--	54

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
OCT , 1976										
20...	8	.04	.00	.04	.02	.16	.18	.22	.04	.04
APR , 1977										
13...	--	.17	.01	.18	.01	.09	.10	.28	.01	.01
MAY										
26...	0	.06	.00	.06	.03	.13	.16	.22	.01	.00
JUN										
22...	0	.13	.00	.13	.05	.15	.20	.33	.02	.00
JUL										
21...	9	.36	.01	.37	.01	.32	.33	.70	.01	.00
AUG										
16...	0	.40	.01	.41	.04	.19	.23	.64	.01	.00
SEP										
12...	4	.37	.00	.37	.04	.16	.20	.57	.01	.00

B Results based on colony count outside the acceptable range (non-ideal colony count).

01425675 OQUAGA CREEK NEAR NORTH SANFORD, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.5	4.5	4.5	2.0	1.5	1.5	1.0	0.5	0.5	1.5	1.5
2	12.0	12.0	4.5	4.0	2.0	2.0	1.5	1.0	0.5	0.5	1.5	1.5
3	12.0	12.0	4.5	4.0	2.0	2.0	1.5	1.5	1.0	0.5	1.5	1.5
4	12.0	12.0	4.0	4.0	2.0	1.5	1.5	1.5	1.0	1.0	1.5	1.5
5	12.0	12.0	4.0	3.5	1.5	1.5	1.5	1.5	1.0	0.5	1.5	1.5
6	12.0	12.0	3.5	3.5	1.5	1.5	1.5	1.5	0.5	0.5	1.5	1.5
7	12.0	12.0	3.5	3.5	1.5	1.5	1.5	1.5	0.5	0.5	1.5	1.5
8	12.0	12.0	3.5	3.0	1.5	1.5	1.5	1.0	0.5	0.5	1.5	1.5
9	12.0	11.0	4.0	3.5	1.5	1.0	1.0	1.0	1.0	0.5	1.5	1.5
10	11.5	11.0	3.5	3.5	1.5	1.0	1.5	1.0	1.0	1.0	1.0	1.0
11	11.0	10.0	3.5	3.5	2.0	1.5	1.0	1.0	1.5	1.0	---	---
12	10.0	9.5	3.5	3.0	2.0	2.0	1.0	1.0	1.0	1.0	---	---
13	9.5	9.5	3.5	3.0	2.0	2.0	1.0	0.5	1.0	1.0	---	---
14	9.5	8.5	3.0	3.0	2.0	2.0	1.0	0.5	1.5	1.0	---	---
15	8.5	8.5	3.5	3.0	2.0	2.0	1.0	0.5	1.5	1.0	---	---
16	8.5	8.0	3.5	3.5	2.0	2.0	1.0	1.0	1.5	1.0	---	---
17	8.0	7.0	3.5	3.0	2.0	2.0	1.0	1.0	1.0	1.0	---	---
18	7.0	7.0	3.0	3.0	2.0	2.0	1.0	1.0	1.0	0.5	---	---
19	7.0	6.5	3.0	3.0	3.0	2.0	1.0	1.0	1.0	0.5	---	---
20	6.5	6.5	3.0	3.0	3.0	2.0	1.5	1.0	1.0	0.0	---	---
21	6.5	6.5	3.0	2.0	3.0	2.0	1.5	1.0	1.0	0.5	---	---
22	6.5	6.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0	0.5	---	---
23	6.0	5.5	3.0	3.0	2.0	2.0	1.0	1.0	1.5	1.0	---	---
24	5.5	5.5	3.0	3.0	2.0	2.0	1.0	1.0	1.5	1.5	---	---
25	5.5	5.5	3.0	2.0	2.0	2.0	1.0	1.0	1.5	1.0	---	---
26	5.5	5.0	2.0	2.0	2.0	2.0	1.0	1.0	1.5	1.0	---	---
27	5.0	5.0	3.5	2.0	2.0	2.0	1.5	1.0	1.5	1.0	---	---
28	5.0	5.0	3.5	3.0	2.0	1.5	1.0	0.0	1.5	1.5	---	---
29	5.0	5.0	3.0	2.0	1.5	1.5	0.5	0.5	---	---	---	---
30	5.0	5.0	2.0	2.0	1.5	1.5	0.5	0.5	---	---	---	---
31	5.0	4.5	---	---	1.5	1.5	0.5	0.5	---	---	---	---
MONTH	12.0	4.5	4.5	2.0	3.0	1.0	1.5	0.0	1.5	0.0	---	---

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	10.0	9.5	---	---	15.5	13.5	16.0	15.5	18.5	17.0
2	---	---	10.0	10.0	---	---	14.5	13.0	16.0	15.0	18.0	18.0
3	---	---	10.0	9.5	---	---	14.0	11.5	15.5	14.5	18.0	18.0
4	---	---	10.0	9.5	---	---	14.0	12.0	16.5	15.0	17.0	15.5
5	---	---	10.5	10.0	---	---	14.5	13.5	16.5	15.5	18.0	16.5
6	---	---	10.5	10.5	---	---	14.5	13.5	16.0	15.5	18.0	16.0
7	---	---	10.5	10.0	---	---	14.0	13.5	---	---	16.5	15.5
8	---	---	---	---	---	---	14.0	13.5	---	---	16.5	15.5
9	---	---	---	---	---	---	14.5	13.5	---	---	17.0	16.5
10	---	---	---	---	---	---	15.0	13.5	---	---	17.0	16.5
11	---	---	---	---	---	---	14.5	13.5	---	---	16.5	14.5
12	---	---	---	---	---	---	14.5	14.0	---	---	15.5	14.0
13	5.5	5.0	---	---	---	---	16.0	14.5	---	---	15.5	15.5
14	7.0	5.5	---	---	---	---	16.0	14.5	---	---	15.5	15.5
15	6.5	6.5	---	---	---	---	16.5	14.0	---	---	15.5	14.5
16	7.0	6.5	---	---	---	---	16.5	15.0	17.0	15.5	15.5	15.5
17	7.0	6.5	---	---	---	---	16.0	15.5	17.0	16.5	15.5	15.0
18	7.0	6.5	---	---	14.5	14.5	17.0	15.5	17.0	15.5	16.0	15.0
19	8.0	6.5	---	---	14.5	14.0	17.0	15.0	15.5	14.5	16.0	16.0
20	8.5	8.0	---	---	14.0	13.5	17.0	15.5	15.5	14.5	16.0	15.0
21	9.0	8.0	---	---	14.0	13.0	18.0	15.5	15.5	14.5	15.0	15.0
22	9.0	8.0	---	---	13.0	13.0	16.5	15.0	16.5	15.5	15.0	15.0
23	9.0	8.5	---	---	13.0	12.0	15.5	13.5	16.0	15.0	15.0	14.5
24	10.5	8.5	---	---	13.0	12.0	16.0	14.0	16.0	14.5	14.5	14.5
25	10.5	10.0	---	---	13.0	13.0	15.5	15.5	15.5	14.5	14.5	14.5
26	10.0	10.0	---	---	13.5	13.0	15.5	14.0	16.0	14.0	14.5	14.5
27	10.0	10.0	---	---	13.5	12.0	14.5	13.0	17.0	15.5	14.5	14.5
28	10.0	9.5	---	---	13.0	12.0	14.5	13.0	18.0	16.5	14.5	14.5
29	9.5	9.5	---	---	14.0	13.0	15.5	14.0	18.5	17.0	14.5	14.0
30	9.5	9.0	---	---	14.0	13.0	15.5	15.0	18.0	16.5	14.0	13.5
31	---	---	---	---	---	---	16.5	14.5	17.0	16.5	---	---
MONTH	---	---	---	---	---	---	18.0	11.5	---	---	18.5	13.5

DELAWARE RIVER BASIN

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, NY

LOCATION.--42°00'11", long 75°23'02", Delaware County, Hydrologic Unit 02040101, on left bank at downstream side of bridge on County Highway 56 in Hale Eddy, and 9 mi (14 km) upstream from confluence of East and West Branches near Hancock. Water-quality sampling site at discharge station.

DRAINAGE AREA.--593 mi² (1,536 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1912 to current year.

REVISED RECORDS.--WSP 756: Drainage area. WSP 871: 1916.

GAGE.--Water-stage recorder. Datum of gage is 946.46 ft (288.481 m) above mean sea level. Prior to Sept. 8, 1928, nonrecording gage.

REMARKS.--Records good except those for winter periods, which are poor. Subsequent to October 1963, entire flow from 454 mi² (1,176 km²) drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,900 ft³/s (818 m³/s) Mar. 22, 1948, gage height, 15.69 ft (4.782 m); maximum gage height, 15.8 ft (4.82 m) Sept. 30, 1924, from graph based on gage readings; minimum discharge, 17 ft³/s (0.48 m³/s) Oct. 20, 1963; minimum gage height, 1.03 ft (0.314 m) Aug. 4, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, about 46,000 ft³/s (1,300 m³/s) Oct. 10, 1903, gage height, 20.3 ft (6.19 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,200 ft³/s (402 m³/s) Mar. 14, gage height, 11.96 ft (3.645 m); minimum daily, 40 ft³/s (1.13 m³/s) Jan. 20; minimum gage height, 1.33 ft (.405 m) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	2080	240	270	350	821	6930	1590	260	1090	921	897
2	615	1860	210	100	800	605	5190	1420	380	1040	635	945
3	406	1700	200	45	1100	509	4500	1310	821	389	489	1010
4	203	1630	355	45	1400	862	3640	1160	798	1120	475	1040
5	699	1560	128	230	1500	1590	3120	1790	737	1140	879	494
6	351	1480	140	660	1490	1140	2820	1650	446	1140	927	157
7	555	1420	524	540	1290	787	2480	1440	397	625	759	191
8	1010	1330	1210	200	1140	635	2190	1280	1060	651	743	304
9	1860	1220	1200	50	1220	726	1910	1350	781	995	397	862
10	5930	1140	1140	50	1140	1100	1690	1500	534	793	380	1010
11	1510	1070	1170	50	776	1380	1530	1690	109	335	339	206
12	989	989	1110	110	96	2230	1380	1880	173	389	897	79
13	1180	915	1000	200	243	5660	1250	1910	120	331	976	200
14	1300	856	787	50	873	12000	1140	1790	240	897	461	226
15	1380	810	678	50	804	12500	1050	1640	372	856	229	233
16	1290	759	615	130	529	8460	970	1460	442	646	275	1410
17	1150	715	575	130	815	5830	891	1300	909	359	286	1580
18	1000	683	540	80	933	4400	821	1160	1050	672	759	475
19	862	656	470	62	1020	3550	748	1230	850	721	748	355
20	765	630	433	40	832	2440	672	1050	776	485	726	1790
21	3790	605	504	300	798	2380	625	832	610	1020	781	1230
22	5750	600	475	120	737	2390	605	662	540	1010	514	721
23	4660	534	524	50	415	2670	620	600	1360	1030	323	480
24	3660	504	293	50	135	2320	3420	389	754	765	323	461
25	3400	410	289	100	885	2020	4560	223	347	540	397	3640
26	3130	339	271	150	754	1800	3870	138	343	804	748	4200
27	2730	300	260	200	798	1700	3330	90	343	1320	667	2160
28	2220	282	260	290	1430	1890	2780	109	359	1310	580	1050
29	1930	308	250	250	---	3800	2280	111	347	1310	705	672
30	1720	271	330	60	---	7260	1880	327	732	1270	759	470
31	2070	---	620	56	---	8500	---	293	---	1260	683	---
TOTAL	58240	27656	16801	4778	24303	104355	68892	33374	16990	26313	18781	28548
MEAN	1879	922	542	154	868	3366	2296	1077	566	849	606	952
MAX	5930	2080	1210	660	1500	12500	6930	1910	1360	1320	976	4200
MIN	125	271	128	40	96	509	605	90	109	331	229	79
CAL YR 1976 TOTAL	474468			1296		8770						
WTR YR 1977 TOTAL	429031			1175		12500						

DELAWARE RIVER BASIN

181

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958-59, 1970 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to current year (no record for many winter months each year).

INSTRUMENTATION.--Temperature recorder since October 1967.

REMARKS.--Water temperature is affected by release of water from upstream reservoir. No record Oct. 1 to Apr. 14, Sept. 1-25, due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 30.5°C July 22, 23, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 26.0°C May 28.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	12.5	7.5	9.5
2							---	---	---	9.5	8.0	9.0
3							---	---	---	13.5	7.5	10.0
4							---	---	---	12.0	8.5	10.0
5							---	---	---	12.0	9.5	10.5
6							---	---	---	14.5	10.5	12.5
7							---	---	---	14.5	9.5	11.5
8							---	---	---	13.5	9.0	11.0
9							---	---	---	9.0	7.5	8.5
10							---	---	---	10.5	8.0	9.5
11							---	---	---	13.0	9.0	10.5
12							---	---	---	13.0	9.5	10.5
13							---	---	---	12.5	9.0	10.5
14							---	---	---	13.5	8.0	10.5
15							10.0	4.0	6.5	14.0	9.5	11.5
16							9.5	4.0	6.0	15.0	10.5	12.5
17							10.5	4.0	7.0	16.5	11.0	13.0
18							11.5	5.0	8.0	16.0	11.5	13.5
19							14.0	6.5	10.0	17.5	13.0	15.0
20							14.0	9.0	11.0	20.0	15.5	17.5
21							15.0	8.0	11.5	21.5	16.0	18.5
22							13.5	7.5	10.5	22.5	15.0	18.5
23							12.0	8.5	10.5	21.5	15.0	18.0
24							11.0	9.0	9.5	22.5	16.0	19.0
25							8.5	7.0	8.0	24.5	17.5	20.5
26							8.5	7.5	8.0	25.0	17.0	21.0
27							9.5	7.5	8.5	24.5	16.5	20.5
28							8.5	7.5	8.0	26.0	17.5	21.5
29							9.5	6.0	8.0	19.5	14.0	16.5
30							11.0	6.5	8.5	17.5	9.5	14.0
31							---	---	---	17.0	12.5	14.5
MONTH							---	---	---	26.0	7.5	14.0

DELAWARE RIVER BASIN

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.5	9.0	11.0	17.0	7.5	12.0	11.5	8.0	9.5	---	---	---
2	20.0	7.5	14.0	11.0	7.0	8.5	14.0	8.0	11.0	---	---	---
3	12.5	6.5	9.0	13.0	6.0	9.0	12.5	9.5	10.5	---	---	---
4	12.5	5.5	9.0	13.0	7.0	10.0	16.5	8.5	12.0	---	---	---
5	12.5	6.5	9.0	12.0	7.0	9.5	13.0	8.5	10.5	---	---	---
6	8.5	6.0	7.5	9.0	7.0	8.0	10.5	8.5	9.5	---	---	---
7	13.0	6.5	9.5	9.0	7.5	8.0	11.0	9.0	10.0	---	---	---
8	9.5	6.0	7.5	14.0	8.0	10.5	14.0	9.0	11.0	---	---	---
9	8.0	6.0	6.5	11.5	8.5	10.0	18.5	9.0	13.0	---	---	---
10	12.5	7.0	9.5	13.0	7.5	9.5	14.5	10.0	12.0	---	---	---
11	15.5	10.5	13.5	11.0	7.0	9.0	17.5	10.0	13.5	---	---	---
12	16.0	9.5	13.5	13.5	10.0	11.0	14.5	9.0	11.0	---	---	---
13	21.5	14.0	17.0	17.0	10.0	13.0	13.0	8.5	10.5	---	---	---
14	14.5	10.0	11.5	18.5	9.0	13.5	13.5	9.5	11.5	---	---	---
15	16.5	8.0	11.5	15.0	7.5	11.0	21.0	13.5	16.5	---	---	---
16	15.5	7.5	11.5	14.5	7.5	10.0	14.5	10.5	12.5	---	---	---
17	10.5	7.0	8.5	12.5	8.0	10.0	15.5	13.0	14.5	---	---	---
18	9.5	7.0	8.0	19.0	8.5	13.0	13.5	9.0	11.5	---	---	---
19	13.5	7.0	9.5	15.0	8.5	11.5	14.0	9.0	10.5	---	---	---
20	13.0	6.5	9.5	13.5	8.0	10.0	13.5	8.5	11.0	---	---	---
21	12.5	8.5	11.5	17.0	8.0	12.0	13.5	8.5	10.5	---	---	---
22	13.5	6.0	9.5	14.0	7.5	10.5	16.0	9.5	12.5	---	---	---
23	15.0	6.5	10.5	13.0	7.0	9.5	16.0	10.5	13.0	---	---	---
24	11.5	6.5	8.5	13.5	7.5	10.0	13.0	10.5	12.0	---	---	---
25	10.0	6.5	8.0	11.5	8.5	10.0	15.5	8.5	12.0	---	---	---
26	16.0	8.0	11.5	14.0	7.5	10.0	14.0	9.0	11.5	13.5	12.5	13.0
27	17.5	8.5	13.0	11.5	7.0	9.0	14.0	9.0	11.5	14.0	12.5	13.5
28	13.5	9.5	12.0	11.5	7.0	8.5	17.0	10.0	13.0	14.5	12.5	13.5
29	16.0	10.0	13.0	11.0	7.5	9.0	15.5	10.5	12.5	14.5	12.0	13.0
30	18.0	9.5	13.5	11.0	8.0	9.0	16.0	10.5	12.5	14.0	12.0	13.0
31	---	---	---	12.0	8.0	9.5	12.5	8.5	11.0	---	---	---
MONTH	21.5	5.5	10.5	19.0	6.0	10.0	21.0	8.0	11.5	---	---	---

DELAWARE RIVER BASIN

183

01427207 DELAWARE RIVER AT LORDVILLE, NY

LOCATION.--Lat 41°52'05", long 75°12'50", Delaware County, Hydrologic Unit 02040101, at Lordville-Equinunk Interstate Bridge at Lordville, 50 ft (15 m) downstream from Humphries Brook, and 6.5 mi (10.4 km) southeast of Hancock.

DRAINAGE AREA.--1,587 mi² (4,110 km²).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to August 1971, June 1973 to current year.

INSTRUMENTATION.--Temperature recorder since October 1967.

REMARKS.--No record Dec. 7 to June 23.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1968-70, 73, 1975-77) 30.5°C June 16, 1976; minimum (water years 1968-71, 74, 77), freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded 25.5°C July 19; minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	13.0	14.0	8.0	6.0	7.0	0.5	0.0	0.0			
2	15.0	13.5	14.5	6.5	5.0	6.0	0.0	0.0	0.0			
3	15.5	13.5	14.5	7.0	6.5	6.5	0.0	0.0	0.0			
4	17.0	14.5	15.5	8.0	7.0	7.5	0.5	0.0	0.0			
5	16.0	13.5	14.5	7.0	5.5	6.0	0.5	0.0	0.5			
6	15.5	14.0	15.0	6.5	5.0	6.0	0.0	0.0	0.0			
7	15.5	14.5	15.0	6.5	5.5	6.0	---	---	---			
8	15.0	13.0	14.0	6.0	4.0	5.0	---	---	---			
9	15.5	13.0	14.0	4.0	3.0	3.5	---	---	---			
10	13.5	10.5	11.5	4.5	3.5	4.0	---	---	---			
11	11.0	9.5	10.0	5.0	4.0	4.5	---	---	---			
12	11.0	9.0	10.0	4.0	3.0	3.5	---	---	---			
13	11.5	9.5	10.5	3.5	3.0	3.0	---	---	---			
14	11.5	10.5	11.0	4.0	2.5	3.5	---	---	---			
15	12.0	9.5	10.5	4.0	3.0	3.5	---	---	---			
16	12.0	10.5	11.0	3.5	2.5	3.0	---	---	---			
17	10.0	9.5	9.5	3.0	2.5	3.0	---	---	---			
18	9.5	8.0	9.0	4.0	2.5	3.5	---	---	---			
19	8.5	7.0	7.5	4.5	3.0	4.0	---	---	---			
20	9.0	8.0	8.0	4.5	3.5	4.0	---	---	---			
21	9.5	9.0	9.5	3.5	3.0	3.0	---	---	---			
22	9.0	8.5	9.0	3.0	2.0	2.5	---	---	---			
23	9.5	8.5	9.0	3.0	2.0	2.5	---	---	---			
24	9.0	8.5	8.5	2.5	2.0	2.0	---	---	---			
25	10.5	9.0	10.0	2.0	1.5	2.0	---	---	---			
26	10.5	7.5	9.0	2.5	1.5	2.0	---	---	---			
27	7.5	6.5	7.0	5.0	2.5	3.5	---	---	---			
28	7.0	5.5	6.5	5.0	4.5	5.0	---	---	---			
29	7.5	5.5	6.5	5.0	1.0	3.5	---	---	---			
30	7.5	6.0	7.0	1.0	0.0	0.5	---	---	---			
31	8.5	7.5	8.0	---	---	---	---	---	---			
MONTH	17.0	5.5	10.5	8.0	0.0	4.0	---	---	---			

DELAWARE RIVER BASIN

01427207 DELAWARE RIVER AT LORDVILLE, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	24.5	20.5	22.0	16.5	14.5	15.5	20.0	17.5	18.5
2	---	---	---	22.0	15.0	18.0	18.5	15.0	16.5	19.0	18.0	18.0
3	---	---	---	16.5	13.5	15.0	18.0	16.5	17.5	19.0	17.0	18.0
4	---	---	---	16.5	15.5	15.0	19.0	16.5	17.5	18.5	15.5	17.0
5	---	---	---	19.0	15.5	17.0	21.0	19.0	19.5	18.0	16.0	17.0
6	---	---	---	19.5	11.0	14.0	19.0	15.5	16.5	20.0	17.5	18.5
7	---	---	---	13.5	13.0	13.5	18.0	15.5	16.5	20.0	18.0	19.0
8	---	---	---	16.0	13.0	14.5	19.0	16.5	17.5	21.5	19.0	20.0
9	---	---	---	19.0	16.5	18.0	21.0	18.5	19.5	21.0	19.0	20.0
10	---	---	---	19.5	17.5	18.5	21.0	19.5	20.0	18.0	16.5	17.0
11	---	---	---	18.0	15.5	16.5	21.5	19.5	20.5	17.0	15.0	16.0
12	---	---	---	17.5	15.0	16.0	21.5	19.0	20.5	17.5	13.5	15.0
13	---	---	---	22.5	17.0	19.5	18.0	15.0	16.0	16.5	15.5	16.0
14	---	---	---	23.0	20.5	21.5	18.0	16.5	17.0	18.5	16.0	17.0
15	---	---	---	23.5	21.0	22.0	20.5	16.5	18.0	17.5	15.5	16.5
16	---	---	---	23.5	16.0	18.5	20.5	19.5	20.0	16.5	14.0	15.5
17	---	---	---	21.0	18.0	19.5	20.0	19.0	19.5	16.0	13.5	14.5
18	---	---	---	23.5	19.0	21.0	20.0	17.5	19.0	18.0	16.0	16.5
19	---	---	---	25.5	22.5	24.0	18.5	15.5	16.5	19.5	17.5	18.5
20	---	---	---	23.0	20.0	21.0	18.0	15.0	16.5	19.5	16.5	18.5
21	---	---	---	23.0	19.0	21.0	17.0	15.0	16.0	16.5	15.0	15.5
22	---	---	---	23.5	20.5	21.5	18.5	15.5	16.5	15.0	14.5	14.5
23	---	---	---	20.0	14.0	16.0	19.5	17.0	18.0	15.0	14.0	14.5
24	19.5	15.5	17.5	19.0	15.5	17.0	19.5	18.0	18.5	15.0	14.0	14.5
25	15.0	11.5	13.0	18.0	16.5	17.0	19.0	15.5	17.0	14.0	12.5	13.0
26	18.0	12.5	15.0	19.0	15.0	16.5	18.5	16.5	17.5	13.0	12.5	12.5
27	21.0	17.5	19.0	17.0	11.0	14.0	17.5	16.0	16.5	14.0	12.5	13.5
28	21.5	20.0	20.5	14.5	13.0	13.5	19.5	16.5	18.0	14.0	13.0	13.5
29	23.0	19.5	20.5	14.5	12.5	13.5	21.5	19.5	20.5	14.0	12.5	13.5
30	22.0	19.5	20.5	14.5	13.0	14.0	21.0	19.0	20.0	14.0	12.5	13.5
31	---	---	---	16.0	13.0	14.5	19.5	17.5	18.5	---	---	---
MONTH	---	---	---	25.5	11.0	17.5	21.5	14.5	18.0	21.5	12.5	16.0

DELAWARE RIVER BASIN

185

01427500 CALLICOON CREEK AT CALLICOON, NY

LOCATION.--Lat 41°45'39", long 75°02'55", Sullivan County, Hydrologic Unit 02040101, on right bank 0.7 mi (1.1 km) southeast of Callicoon, 0.9 mi (1.4 km) upstream from mouth, and 1.0 mi (1.6 km) southwest of Hortonville.

DRAINAGE AREA.--111 mi² (287 km²).

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Concrete control since July 1944. Datum of gage is 759.84 ft (231.599 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Occasional regulation by small pond above station.

AVERAGE DISCHARGE.--37 years, 178 ft³/s (5.041 m³/s), 21.78 in/yr (553 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft³/s (453 m³/s) Aug. 17, 1947, gage height, 9.68 ft (2.950 m), from rating curve extended above 5,100 ft³/s (144 m³/s) on basis of slope-area measurement of peak flow; minimum, 4.0 ft³/s (0.11 m³/s) July 26, 27, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,200 ft³/s (62 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2015	*3,880 110	*5.55 1.692	Mar. 14	0300	3,750 106	5.48 1.670
Feb. 25	0100	3,520 99.7	5.35 1.631	Mar. 29	1715	2,550 72.2	4.76 1.451
Mar. 4	2315	3,410 96.6	5.29 1.612	Sept. 25	0745	3,390 96.0	5.28 1.609

Minimum discharge, 12 ft³/s (0.34 m³/s) July 31, Aug. 1, gage height, 1.17 ft (0.357 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	590	52	56	45	474	655	156	36	20	53	22
2	42	346	52	56	45	325	634	143	37	19	98	23
3	48	277	47	56	44	291	1010	133	33	17	48	28
4	70	418	45	56	44	1030	548	117	31	17	39	22
5	53	325	60	54	44	1790	670	440	30	17	31	19
6	46	310	70	54	44	819	634	378	31	19	34	34
7	42	305	250	54	44	496	457	277	40	21	81	29
8	45	260	200	54	44	344	395	211	34	40	107	24
9	1870	215	140	52	43	401	310	282	48	34	54	22
10	1290	203	130	52	44	502	273	340	83	25	41	19
11	479	188	120	52	48	554	243	251	53	23	39	17
12	295	160	100	52	60	534	211	195	42	24	39	17
13	222	143	80	50	66	2300	192	163	37	25	39	19
14	286	133	70	50	74	2400	170	133	35	25	36	42
15	235	122	80	50	62	893	146	117	34	21	45	39
16	177	112	88	50	45	609	133	105	31	19	34	59
17	146	105	86	49	42	452	120	96	31	19	59	320
18	127	102	82	49	42	367	115	89	33	25	68	140
19	110	100	76	49	42	325	107	105	30	21	48	107
20	110	96	70	48	42	268	100	86	28	21	39	325
21	1030	90	66	48	41	251	94	75	25	21	32	247
22	560	84	62	48	41	418	90	68	24	18	83	150
23	346	81	62	48	70	685	143	62	23	15	63	112
24	260	77	60	47	120	424	584	57	22	14	43	215
25	384	72	60	46	800	330	590	54	23	18	39	1900
26	596	72	60	46	616	285	378	48	28	20	32	1740
27	446	74	58	46	610	330	340	46	23	16	29	827
28	310	75	58	45	914	502	273	43	22	14	28	457
29	255	88	58	45	---	1480	215	41	23	13	25	320
30	219	66	58	45	---	1550	181	40	22	13	24	235
31	479	---	58	45	---	1110	---	37	---	13	22	---
TOTAL	10623	5289	2558	1552	4176	22600	10011	4388	992	627	1452	7530
MEAN	343	176	82.5	50.1	149	729	334	142	33.1	20.2	46.8	251
MAX	1870	590	250	56	914	2400	1010	440	83	40	107	1900
MIN	42	66	45	45	41	251	90	37	22	13	22	17
CFSM	3.09	1.59	.74	.45	1.34	6.57	3.01	1.28	.30	.18	.42	2.26
IN.	3.56	1.77	.86	.52	1.40	7.57	3.36	1.47	.33	.21	.49	2.52
CAL YR 1976	TOTAL	77474	MEAN 212	MAX 3750	MIN 28	CFSM 1.91	IN 25.96					
WTR YR 1977	TOTAL	71798	MEAN 197	MAX 2400	MIN 13	CFSM 1.77	IN 24.06					

DELAWARE RIVER BASIN

01427510 DELAWARE RIVER AT CALLICOON, NY

LOCATION.--Lat 41°45'24", long 75°03'30", Wayne County, Pennsylvania, Hydrologic Unit 02040101, on right bank, 0.5 mi (0.8 km) downstream from Callicoon Creek, 0.5 mi (0.8 km) downstream from Interstate Bridge 7, and 0.8 mi (1.1 km) southeast of Callicoon. Water-quality sampling site at discharge station.

DRAINAGE AREA.--1,882 mi² (4,719 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 750 ft (229 m), from topographic map (nearest 20 ft).

REMARKS.--Records poor. Subsequent to September 1954, entire flow from 371 mi² (961 km²) of drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River Basin), and subsequent to October 1963, entire flow from 454 mi² (1,176 km²) of drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow from these reservoirs diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during period of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,400 ft³/s (1,597 m³/s) Mar. 14, 1977, gage height, 11.49 ft (3.502 m), minimum 335 ft³/s (9.49 m³/s) Sept. 13, 1977, gage height, 2.20 ft (0.671 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 56,400 ft³/s (1,597 m³/s) Mar. 14, gage height, 11.49 ft (3.502 m), minimum, 335 ft³/s (9.49 m³/s) Sept. 13, gage height, 2.20 ft (0.671 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	853	6820	840	840	430	18000	20000	4300	740	613	1430	928
2	1070	5410	840	820	430	10000	14000	3900	860	944	1200	1180
3	1040	4780	900	800	450	6400	15000	3400	730	1220	851	1140
4	840	5070	1000	780	460	6000	12000	3100	1190	1060	766	1270
5	1150	4680	1200	760	1500	11000	10000	4600	1000	593	700	1080
6	880	4330	2000	740	1600	10000	10000	6800	1000	1450	1180	689
7	980	4080	4500	720	1700	6570	9000	5750	980	1270	1220	467
8	1370	3770	4300	720	1700	5140	8300	4700	680	1310	1240	438
9	15900	3310	3910	680	1600	4680	7500	4400	1400	866	1040	537
10	17700	3070	3380	660	1600	5480	6200	5100	1500	944	656	1180
11	6500	2870	3340	640	1600	7000	5500	5100	1400	1140	634	977
12	4010	2590	3130	630	1500	10000	4800	5500	870	881	614	445
13	3130	2400	2530	610	1400	20000	4100	5700	680	603	1290	347
14	3100	2250	1750	590	1400	48000	3800	5500	560	624	1060	513
15	2840	2100	1720	570	1400	33000	3400	4900	630	564	897	583
16	2370	1950	1890	550	1600	17000	2900	4200	720	1180	678	667
17	1980	1800	1550	540	1500	12000	2700	3600	740	977	678	3940
18	1650	1700	1440	530	1200	10000	2300	3200	1080	944	897	2420
19	1400	1650	1350	530	1500	8000	2000	2900	1320	689	1200	1530
20	1700	1570	1220	510	1700	6500	1900	2950	1120	912	993	3600
21	15200	1490	1250	490	1600	5000	1800	2400	1130	944	928	7770
22	11700	1440	1120	480	1500	5400	1650	2000	650	752	1120	4330
23	7910	1390	1130	470	1300	7400	1650	1950	840	1360	794	2960
24	6040	1300	1100	460	1500	6600	4700	1400	1000	993	726	2500
25	6120	1220	1000	450	1800	5600	13000	1290	1250	866	667	16100
26	7060	1130	980	450	10000	4800	9200	1000	1190	700	678	21600
27	6750	1070	960	450	9000	4300	9000	950	680	1380	960	16200
28	5700	1060	940	440	10000	5000	7400	770	630	1380	822	7450
29	4960	1090	900	440	---	6000	6200	700	630	1360	678	5070
30	4370	1070	880	430	---	10000	5100	500	630	1380	928	3560
31	5660	---	860	430	---	28600	---	600	---	1330	960	---
TOTAL	151933	78460	53910	18210	62970	343470	205100	103160	27830	31229	28485	111471
MEAN	4901	2615	1739	587	2249	11080	6837	3328	928	1007	919	3716
MAX	17700	6820	4500	840	10000	48000	20000	6800	1500	1450	1430	21600
MIN	840	1060	840	430	430	4300	1650	500	560	564	614	347

CAL YR 1976 TOTAL 1292044 MEAN 3530 MAX 29200 MIN 665
WTR YR 1977 TOTAL 1216228 MEAN 3332 MAX 48000 MIN 347

Note.--No gage-height record Feb. 24 to July 1.

DELAWARE RIVER BASIN

187

01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1975 to current year.

INSTRUMENTATION.--Temperature recorder since June 1975.

REMARKS.--No record Dec. 23 to Jan. 26, Apr. 20 to June 2, due to equipment malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1976-77), 28.0°C July 16, 20, 1977; minimum freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.0°C July 16, 20; minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	12.0	13.5	7.0	5.0	6.0	1.0	0.0	0.0	---	---	---
2	15.0	13.5	14.5	5.0	4.0	5.0	0.0	0.0	0.0	---	---	---
3	15.5	14.0	14.5	6.0	5.0	5.5	0.5	0.0	0.0	---	---	---
4	16.5	13.0	15.0	7.0	6.0	6.0	0.0	0.0	0.0	---	---	---
5	16.5	13.5	15.0	6.0	4.5	5.0	0.0	0.0	0.0	---	---	---
6	16.0	15.0	15.5	5.5	4.0	5.0	0.0	0.0	0.0	---	---	---
7	17.0	14.5	15.5	5.5	4.5	5.0	0.0	0.0	0.0	---	---	---
8	17.0	15.0	16.0	4.5	3.0	4.0	1.0	0.0	0.0	---	---	---
9	15.0	13.0	13.5	3.0	2.0	2.5	0.0	0.0	0.0	---	---	---
10	12.5	10.0	11.5	3.0	2.0	2.5	0.0	0.0	0.0	---	---	---
11	10.0	9.0	9.5	3.5	2.5	3.0	0.0	0.0	0.0	---	---	---
12	10.0	8.5	9.5	3.0	2.0	2.5	0.0	0.0	0.0	---	---	---
13	11.0	9.0	9.5	3.0	1.5	2.0	0.0	0.0	0.0	---	---	---
14	10.5	9.5	10.0	2.5	1.0	2.0	0.0	0.0	0.0	---	---	---
15	10.5	9.0	10.0	2.5	1.0	2.0	0.0	0.0	0.0	---	---	---
16	10.5	9.5	10.0	2.5	1.0	1.5	0.0	0.0	0.0	---	---	---
17	9.5	8.5	9.0	2.5	0.5	1.5	0.0	0.0	0.0	---	---	---
18	8.0	7.0	7.5	3.0	1.0	2.0	0.0	0.0	0.0	---	---	---
19	7.5	5.5	6.5	3.0	1.5	2.5	0.0	0.0	0.0	---	---	---
20	8.0	6.5	7.0	3.0	2.0	2.5	0.0	0.0	0.0	---	---	---
21	9.0	8.0	8.5	2.5	1.5	2.0	0.0	0.0	0.0	---	---	---
22	8.0	7.5	7.5	2.0	1.0	1.5	0.0	0.0	0.0	---	---	---
23	7.5	7.0	7.5	2.0	0.5	1.5	---	---	---	---	---	---
24	7.5	7.5	7.5	1.5	0.5	1.0	---	---	---	---	---	---
25	8.5	7.5	8.0	1.5	0.0	0.5	---	---	---	---	---	---
26	8.5	6.5	8.0	2.0	0.0	1.0	---	---	---	---	---	---
27	6.5	5.0	5.5	4.0	2.0	2.5	---	---	---	0.0	0.0	0.0
28	5.5	4.5	5.0	4.5	3.0	4.0	---	---	---	0.0	0.0	0.0
29	6.0	4.5	5.0	4.0	1.0	2.5	---	---	---	0.0	0.0	0.0
30	6.5	5.0	6.0	1.0	0.0	0.0	---	---	---	0.0	0.0	0.0
31	7.5	6.0	7.0	---	---	---	---	---	---	0.0	0.0	0.0
MONTH	17.0	4.5	10.0	7.0	0.0	3.0	---	---	---	---	---	---

DELAWARE RIVER BASIN

01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	0.0	0.0	0.0	4.5	3.5	4.0			
2	0.0	0.0	0.0	0.0	0.0	0.0	4.5	3.0	3.5			
3	0.0	0.0	0.0	0.0	0.0	0.0	5.5	3.5	4.5			
4	0.0	0.0	0.0	0.0	0.0	0.0	5.5	3.5	4.5			
5	0.0	0.0	0.0	0.5	0.0	0.0	3.5	3.0	3.5			
6	0.0	0.0	0.0	1.5	0.5	1.0	3.5	3.0	3.5			
7	0.0	0.0	0.0	1.5	1.0	1.5	3.5	2.5	3.0			
8	0.0	0.0	0.0	3.0	1.0	2.0	4.5	3.5	4.0			
9	0.0	0.0	0.0	4.5	2.0	3.0	3.5	2.5	3.0			
10	0.0	0.0	0.0	5.5	3.0	5.0	5.5	2.5	4.0			
11	0.0	0.0	0.0	5.0	4.0	4.5	8.0	4.5	6.0			
12	0.0	0.0	0.0	5.0	4.0	4.5	11.0	7.0	9.0			
13	0.0	0.0	0.0	5.0	4.0	4.5	12.5	9.0	11.0			
14	0.0	0.0	0.0	4.0	3.5	3.5	13.0	10.0	11.5			
15	0.0	0.0	0.0	4.0	3.5	3.5	12.0	9.0	10.5			
16	0.0	0.0	0.0	4.0	3.5	3.5	11.5	8.0	9.5			
17	0.0	0.0	0.0	4.0	3.0	3.0	12.0	7.5	10.0			
18	0.0	0.0	0.0	2.5	0.5	1.5	13.0	8.0	10.5			
19	0.0	0.0	0.0	2.5	0.0	1.5	14.5	9.0	12.0			
20	0.0	0.0	0.0	2.0	1.0	1.5	---	---	---			
21	0.0	0.0	0.0	3.5	1.0	2.5	---	---	---			
22	0.0	0.0	0.0	3.0	1.0	2.0	---	---	---			
23	0.0	0.0	0.0	1.5	1.0	1.0	---	---	---			
24	0.0	0.0	0.0	1.5	0.5	1.0	---	---	---			
25	0.0	0.0	0.0	2.0	0.0	1.0	---	---	---			
26	0.0	0.0	0.0	3.5	1.0	2.0	---	---	---			
27	0.0	0.0	0.0	5.5	2.5	4.0	---	---	---			
28	0.0	0.0	0.0	4.5	3.5	4.0	---	---	---			
29	---	---	---	6.0	3.5	4.5	---	---	---			
30	---	---	---	6.0	5.0	5.5	---	---	---			
31	---	---	---	6.0	4.5	5.5	---	---	---			
MONTH	0.0	0.0	0.0	6.0	0.0	2.5	---	---	---			
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	24.5	22.0	23.5	19.0	17.0	18.0	22.5	20.0	21.0
2	---	---	---	23.5	21.0	22.5	21.0	17.0	19.0	23.0	20.5	22.0
3	20.0	17.0	19.0	21.5	18.0	20.0	19.5	18.0	18.5	22.0	20.5	21.5
4	20.0	15.5	18.5	20.0	17.5	19.0	23.0	18.5	20.5	21.0	18.0	19.5
5	19.5	17.0	18.5	21.5	18.0	20.0	23.5	20.5	22.0	20.5	17.5	19.0
6	18.0	15.0	16.0	21.0	18.5	20.0	23.5	22.0	22.5	20.5	19.0	20.0
7	16.0	13.5	14.5	18.0	15.5	16.5	21.5	19.5	20.0	23.5	17.5	20.0
8	15.0	12.5	14.0	20.0	16.0	17.5	23.0	19.5	21.0	24.0	18.0	20.5
9	13.5	11.5	12.0	21.5	17.5	20.0	24.0	20.5	22.5	22.0	19.0	20.5
10	13.5	11.0	12.0	24.5	19.5	22.0	22.5	20.0	21.0	21.0	18.5	20.0
11	16.5	11.5	14.0	23.0	20.0	21.0	25.0	22.0	23.5	18.0	15.5	17.0
12	18.5	14.0	16.5	20.5	18.0	19.5	24.5	22.5	23.5	20.5	14.5	16.0
13	21.0	16.5	19.0	23.5	19.5	22.0	22.5	20.5	21.5	17.0	15.0	16.0
14	20.0	18.5	19.0	25.0	21.0	23.5	21.5	19.5	20.0	18.5	16.0	17.0
15	23.0	18.0	21.0	26.5	21.0	24.5	21.5	17.5	19.5	17.5	14.5	16.5
16	23.5	18.5	21.5	28.0	23.5	25.5	20.5	18.0	19.0	17.0	16.0	16.0
17	22.0	19.5	21.0	24.5	22.0	23.0	22.0	20.0	21.0	16.0	14.5	15.5
18	22.5	19.5	21.0	26.5	22.0	24.5	21.5	18.5	20.0	18.5	15.5	17.0
19	21.0	18.0	20.0	26.5	22.5	25.0	21.0	17.0	19.0	21.0	17.5	19.0
20	22.5	17.5	20.0	28.0	24.0	26.0	19.5	17.0	18.5	20.0	17.0	18.5
21	20.0	18.0	19.0	26.5	23.5	25.5	19.5	15.5	18.0	17.0	14.5	15.5
22	20.0	16.0	18.5	25.0	22.0	23.5	20.0	17.0	18.5	14.5	14.0	14.5
23	21.5	16.0	19.5	23.5	19.0	21.5	20.5	16.5	18.5	15.5	13.5	14.5
24	21.5	17.5	20.0	21.5	18.0	20.0	20.0	18.0	19.0	14.5	13.5	14.5
25	21.5	17.0	18.5	21.0	19.5	20.0	20.0	16.0	18.5	13.0	12.0	12.0
26	19.0	15.5	17.5	20.5	17.0	19.0	20.5	16.5	19.0	13.0	11.5	12.0
27	22.5	17.5	20.5	20.0	16.5	18.0	20.5	17.5	19.5	13.0	12.5	13.0
28	22.5	20.0	21.5	18.5	14.0	16.5	23.0	18.5	21.0	14.0	13.0	13.0
29	23.5	22.0	22.5	18.5	15.0	17.0	24.5	21.0	23.0	13.5	12.5	13.0
30	25.0	20.5	23.0	18.0	15.5	16.5	25.0	22.0	23.5	14.0	12.0	13.0
31	---	---	---	20.0	15.5	18.0	23.0	20.5	21.5	---	---	---
MONTH	25.0	11.0	18.5	28.0	14.0	21.0	25.0	15.5	20.5	24.0	11.5	17.0

DELAWARE RIVER BASIN

189

01427705 DELAWARE RIVER AT SKINNERS FALLS, NY

LOCATION.--Lat 41°40'12", long 75°03'28", Sullivan County, Hydrologic Unit 02040101, at Skinners Falls Interstate Bridge No. 5 at Skinners Falls, 1,000 ft (305 m) downstream from Calkins Creek, and 5.3 miles (8.5 km) north of Narrowsburg.

DRAINAGE AREA.--1,902 mi² (4,926 km²).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to July 1970, June to September 1971, August 1973 to current year.

INSTRUMENTATION.--Temperature recorder since October 1967.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1968, 1969, 1971, 1974-77), 31.5°C Aug. 2, 1975; minimum (water years 1968-70, 1974-77), freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.0°C July 20, 21; minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	12.0	13.0	7.0	5.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0
2	14.5	13.5	14.0	5.5	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
3	15.0	14.0	14.5	6.0	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
4	17.0	13.5	15.0	7.0	6.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
5	16.0	14.5	15.0	6.0	4.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
6	15.5	15.0	15.0	5.5	4.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
7	16.0	14.5	15.0	5.5	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
8	16.0	15.0	15.5	4.5	3.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
9	15.0	13.0	13.5	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
10	13.0	10.5	11.5	3.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
11	10.5	9.5	10.0	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
12	10.5	9.0	9.5	3.5	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
13	11.0	9.0	10.0	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
14	11.0	10.0	10.5	3.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
15	11.0	9.5	10.0	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
16	11.0	10.0	10.5	3.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
17	10.0	9.0	9.5	2.5	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
18	9.0	7.5	8.0	3.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
19	8.0	6.0	7.0	4.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
20	8.0	7.0	7.0	3.5	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
21	9.0	8.0	8.5	3.5	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
22	8.5	8.0	8.0	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
23	8.0	7.5	7.5	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
24	7.5	7.5	7.5	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
25	8.5	7.5	8.0	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
26	8.5	7.0	8.0	2.0	0.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
27	7.0	5.5	6.0	3.5	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
28	6.0	4.5	5.0	4.0	3.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
29	6.5	4.5	5.5	4.0	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
30	6.5	5.5	6.0	1.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
31	7.5	6.0	7.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	17.0	4.5	10.0	7.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0

DELAWARE RIVER BASIN

01427705 DELAWARE RIVER AT SKINNERS FALLS, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	0.0	0.0	0.0	5.0	4.0	4.5	13.5	9.5	11.5
2	0.0	0.0	0.0	0.0	0.0	0.0	5.0	3.5	4.0	12.5	11.5	12.0
3	0.0	0.0	0.0	0.0	0.0	0.0	6.0	3.5	5.0	13.5	10.0	12.0
4	0.0	0.0	0.0	0.0	0.0	0.0	6.0	4.0	5.0	12.5	10.5	11.5
5	0.0	0.0	0.0	1.0	0.0	0.5	4.0	3.5	3.5	12.0	10.5	11.0
6	0.0	0.0	0.0	2.0	1.0	1.5	4.0	3.5	4.0	14.0	11.5	13.0
7	0.0	0.0	0.0	2.0	1.5	2.0	4.0	3.0	3.5	16.0	13.5	14.5
8	0.0	0.0	0.0	4.0	1.5	2.5	5.0	3.5	4.5	14.5	12.0	13.5
9	0.0	0.0	0.0	5.0	2.0	3.5	4.5	2.5	3.5	12.0	9.0	10.5
10	0.0	0.0	0.0	6.0	3.5	4.5	6.0	3.0	4.5	9.5	8.0	9.0
11	0.0	0.0	0.0	6.0	4.0	5.0	8.5	5.0	6.5	12.0	8.5	10.0
12	0.0	0.0	0.0	5.5	4.0	5.0	11.5	7.5	9.0	13.5	10.5	12.0
13	0.0	0.0	0.0	5.0	4.0	5.0	13.5	9.5	11.5	14.5	12.0	13.0
14	0.0	0.0	0.0	4.0	3.5	4.0	13.5	10.5	12.0	14.0	11.5	12.5
15	0.0	0.0	0.0	4.5	3.5	4.0	12.5	9.5	11.0	14.5	11.0	12.5
16	0.0	0.0	0.0	5.0	3.5	4.0	12.0	8.5	10.0	15.5	12.0	13.5
17	0.0	0.0	0.0	4.5	3.0	3.5	12.5	8.0	10.0	17.5	13.0	15.0
18	0.0	0.0	0.0	3.0	0.5	1.5	13.0	8.5	11.0	19.0	15.0	17.0
19	0.0	0.0	0.0	3.0	0.5	1.5	14.5	10.0	12.0	20.0	17.0	18.0
20	0.0	0.0	0.0	2.0	1.5	2.0	15.5	11.5	13.5	21.0	17.0	19.0
21	0.0	0.0	0.0	4.0	1.5	2.5	17.0	13.0	15.0	22.0	18.0	20.0
22	0.0	0.0	0.0	3.0	1.0	2.5	18.0	14.5	16.5	23.0	19.0	21.0
23	0.0	0.0	0.0	1.5	1.0	1.0	17.0	15.0	16.0	24.0	20.0	22.0
24	0.0	0.0	0.0	2.0	1.0	1.5	14.5	10.5	12.5	24.0	21.0	22.5
25	0.0	0.0	0.0	2.5	0.0	1.0	10.0	8.5	9.0	24.5	21.5	23.0
26	0.0	0.0	0.0	4.0	1.0	2.5	8.5	8.0	8.0	24.0	20.5	22.0
27	0.0	0.0	0.0	6.0	2.5	4.0	10.0	8.0	9.0	23.5	20.0	21.5
28	0.0	0.0	0.0	5.0	4.0	4.5	10.5	8.5	9.5	24.5	20.0	22.0
29	---	---	---	6.5	4.0	5.0	10.0	7.5	8.5	22.0	18.5	20.0
30	---	---	---	6.5	5.0	6.0	11.5	8.5	10.0	23.0	17.5	20.0
31	---	---	---	6.5	4.5	6.0	---	---	---	23.5	19.5	21.5
MONTH	0.0	0.0	0.0	6.5	0.0	3.0	18.0	2.5	9.0	24.5	8.0	16.0
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	18.0	20.0	26.0	22.5	24.0	19.5	18.0	19.0	23.0	20.5	21.5
2	23.0	19.0	21.0	24.0	21.5	23.0	22.0	18.0	19.5	23.0	21.0	22.0
3	21.0	18.5	20.0	22.5	19.5	21.5	20.5	19.0	19.5	23.0	21.0	22.0
4	21.0	17.0	19.0	21.0	19.0	20.0	23.0	19.0	20.5	22.0	19.5	20.5
5	20.5	18.0	19.0	22.5	19.0	20.5	24.0	21.5	22.5	20.5	19.0	20.0
6	19.0	16.0	17.0	21.5	20.5	21.0	23.5	22.0	22.5	22.0	20.0	20.5
7	16.0	14.5	15.5	20.0	16.5	18.0	22.5	20.0	21.0	22.5	19.0	21.0
8	16.0	13.5	14.5	20.0	17.0	19.0	22.5	19.5	21.0	23.5	19.5	21.5
9	14.5	12.0	13.0	21.5	19.5	20.0	24.0	21.0	22.5	22.5	20.5	21.5
10	14.0	11.5	13.0	24.0	20.0	22.0	23.0	21.0	22.0	22.0	20.5	21.0
11	16.0	12.0	14.0	23.5	21.0	22.0	25.0	21.5	23.0	20.0	17.5	18.5
12	18.5	14.5	16.5	21.0	19.0	20.0	25.0	23.5	24.0	19.5	15.5	17.5
13	21.5	17.0	19.0	24.5	20.0	22.0	23.0	21.5	22.0	17.5	16.5	17.0
14	20.0	19.0	19.5	26.0	22.0	24.0	21.5	19.5	20.0	19.0	17.0	17.5
15	23.5	18.5	20.5	27.5	22.5	25.0	22.5	18.5	20.0	19.0	16.0	17.0
16	24.0	20.0	22.0	27.5	24.5	25.5	20.5	19.5	20.0	17.5	16.5	17.0
17	22.0	21.0	21.5	26.0	23.5	24.5	21.5	19.5	20.0	16.5	15.5	16.0
18	22.5	20.5	21.5	27.0	23.0	25.0	22.0	19.0	20.5	18.0	16.0	17.0
19	22.0	19.0	20.5	27.5	24.0	25.5	21.5	18.5	20.0	20.5	17.5	19.0
20	23.0	19.0	21.0	28.0	24.5	26.0	20.5	18.5	19.5	20.0	18.0	19.5
21	21.0	19.0	20.0	28.0	25.5	25.5	20.0	17.0	18.5	18.0	15.5	16.0
22	20.5	17.0	19.0	26.0	23.0	24.5	21.0	18.5	19.5	15.0	14.5	15.0
23	22.5	18.0	20.0	24.5	21.0	22.5	21.0	18.0	19.5	15.5	14.0	15.0
24	22.5	19.0	21.0	22.5	19.5	21.5	20.0	19.0	19.5	15.0	14.0	14.5
25	21.0	18.0	19.5	21.5	20.0	20.5	21.0	17.0	19.0	14.0	12.0	13.0
26	20.5	16.5	18.5	21.5	19.5	20.0	21.0	18.0	19.5	12.5	12.0	12.5
27	23.5	18.5	21.0	20.5	18.0	19.0	20.5	19.0	20.0	14.0	13.0	13.5
28	22.5	21.0	22.0	19.0	16.0	18.0	23.0	19.0	21.0	14.5	13.5	13.5
29	24.5	21.5	22.5	18.5	15.5	17.5	24.5	21.5	23.0	14.5	13.0	13.5
30	25.0	21.0	23.0	18.5	16.5	17.5	25.5	22.5	24.0	14.5	13.0	13.5
31	---	---	---	20.5	17.0	18.5	24.0	21.0	22.0	---	---	---
MONTH	25.0	11.5	19.0	28.0	16.0	21.5	25.5	17.0	21.0	23.5	12.0	17.5

DELAWARE RIVER BASIN

191

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, NY

LOCATION.--Lat 41°30'32", long 74°59'13", Sullivan County, Hydrologic Unit 02040104, on left bank 1.6 mi (2.6 km) upstream from Lackawaxen River, and 4.6 mi (7.4 km) northwest of Barryville. Water-quality sampling site at discharge station.

DRAINAGE AREA.--2,023 mi² (5,240 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 600.22 ft (182.947 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Subsequent to September 1954, entire flow from 371 mi² (961 km²) of drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River Basin), and subsequent to October 1963, entire flow from 454 mi² (1,176 km²) of drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow of these reservoirs diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130,000 ft³/s (3,680 m³/s) Aug. 19, 1955, gage height, 26.40 ft (8.047 m) from floodmarks in gage house, from rating curve extended above 55,000 ft³/s (1,560 m³/s) on basis of slope-area measurement at gage height 23.19 ft (7.068 m); minimum, 122 ft³/s (3.46 m³/s) Sept. 5, 1953, gage height, 1.11 ft (0.338 m); minimum daily, 126 ft³/s (3.57 m³/s) Sept. 4, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 59,500 ft³/s (1,685 m³/s) Mar. 14, gage height, 16.31 ft (4.971 m); minimum, 304 ft³/s (8.61 m³/s) Sept. 13, 14, gage height, 1.78 ft (0.543 m); minimum daily, 356 ft³/s (10.08 m³/s) Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	943	8050	935	950	490	6000	24200	4750	826	689	1520	1070
2	891	8110	908	960	490	4500	17500	4110	952	732	1570	1200
3	1350	5270	850	940	600	4000	19000	3760	747	1370	1220	1270
4	1120	5600	1050	920	900	3900	14500	3330	1320	1290	850	1300
5	1060	5300	1680	900	1700	14000	12700	4980	1180	908	875	1320
6	1150	4830	1310	980	1900	10000	12500	7650	1160	1040	1050	970
7	1010	4580	1780	850	2000	7500	10700	6280	1080	1530	1390	674
8	1220	4240	5220	820	1900	6200	9150	5030	778	1510	1390	385
9	14200	3760	4650	800	1900	4980	7820	4730	1570	1250	1250	500
10	28300	3470	3980	780	1800	5880	6710	5460	1730	961	952	917
11	10200	3290	4130	750	1800	8180	5910	5520	1570	1250	703	1220
12	6050	2990	3550	740	1700	10000	5250	5940	961	1240	710	910
13	4750	2730	2990	720	1600	21600	4530	6140	762	755	1040	356
14	4650	2540	1940	700	1500	54600	4090	5820	619	667	1360	365
15	4400	2380	1890	680	1600	32100	3680	5220	689	682	1100	593
16	3760	2230	2190	650	1800	21000	3250	4550	770	875	842	660
17	3230	2100	2140	540	1700	15100	2880	3930	826	1330	858	2820
18	2860	1980	1990	620	1500	11400	2590	3410	1200	1040	891	3060
19	2510	1910	1680	600	1800	9290	2360	3120	1460	952	1310	1800
20	2490	1850	1570	580	1900	7360	2130	3230	1240	891	1200	1920
21	16800	1760	1680	550	1800	6140	1920	2730	1240	1110	1060	8830
22	16600	1680	1480	550	1700	5940	1800	2270	725	961	1160	4830
23	11100	1610	1320	540	1500	8430	1810	1910	935	1070	1130	3250
24	8450	1470	1300	540	1600	7720	4700	1690	943	1390	842	2580
25	8390	1400	1200	520	2400	6430	13700	1430	1370	1030	778	14700
26	9360	1290	1200	520	8400	5600	11800	1160	1350	917	725	22800
27	8210	1200	1100	520	7800	5190	9900	961	755	961	944	21000
28	6460	1170	1100	500	9200	5790	8250	834	696	1550	989	9620
29	5520	1230	1100	500	---	9540	6740	747	696	1480	826	5990
30	4850	1270	1000	500	---	24000	5600	778	689	1510	866	4150
31	5960	---	1000	500	---	30900	---	875	---	1460	1070	---
TOTAL	197834	89290	59913	21300	64980	373670	237670	112345	30839	34401	32471	120960
MEAN	6382	2976	1933	697	2321	12050	7922	3624	1028	1110	1047	4032
MAX	28300	8050	5220	980	9200	54600	24200	7650	1730	1550	1570	22800
MIN	891	1170	850	500	490	3900	1800	747	619	667	703	356
CAL YR 1976 TOTAL	1490125			4071	MAX 30200	MIN 661						
WTR YR 1977 TOTAL	1375673			3759	MAX 54600	MIN 356						

DELAWARE RIVER BASIN

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to current year (no record for winter months each year except water years 1968 and 1977).

INSTRUMENTATION.--Temperature recorder since October 1967.

REMARKS.--No record Nov. 2-15, June 18 to Sept. 30, due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES (water years 1968 to 1975): Maximum, 32.0°C Aug. 2, 3 1975; minimum (water years 1968, 1977), freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.5	12.5	13.0	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
2	15.0	13.0	14.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
3	15.0	14.0	14.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
4	17.5	14.0	15.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
5	17.0	14.0	15.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
6	15.5	14.0	15.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
7	15.0	13.5	14.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
8	14.0	13.0	13.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
9	13.0	9.5	11.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
10	9.5	7.5	8.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
11	7.0	6.0	6.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
12	7.0	5.5	6.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
13	7.0	5.5	6.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
14	7.0	6.5	6.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
15	7.5	5.5	6.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
16	7.5	6.5	7.0	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
17	6.5	5.0	6.0	1.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
18	5.5	4.0	4.5	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
19	4.5	3.0	3.5	3.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
20	3.5	3.0	3.5	2.5	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
21	5.0	3.5	4.5	2.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
22	4.5	4.0	4.0	2.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
23	4.0	3.5	4.0	1.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
24	4.0	3.5	3.5	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
25	4.5	3.5	4.0	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
26	4.5	3.5	4.5	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
27	3.5	2.0	2.5	3.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
28	1.5	0.5	1.5	3.5	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
29	2.0	0.5	1.5	3.5	2.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
30	2.0	1.0	1.5	1.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
31	3.0	2.5	2.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	17.5	0.5	7.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0

DELAWARE RIVER BASIN

01432160 DELAWARE RIVER AT BARRYVILLE, NY

LOCATION.--Lat 41°28'31", long 74°54'46", Sullivan County, Hydrologic Unit 02040104, at Shohola-Barryville Bridge at Barryville, just upstream from Halfway Brook, and 1,000 ft (305 m) upstream from Shohola Brook.

DRAINAGE AREA.--2,692 mi² (6,972 km²).

PERIOD OF RECORD.--Water years 1958, 1968 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to September 1973, March 1975 to current year.

INSTRUMENTATION.--Temperature recorder since October 1967.

REMARKS.--Unpublished records of daily temperatures for May to September 1964-66 are available in files of the Geological Survey. Temperature probe may be influenced by solar radiation during periods of low flow. No record Apr. 23 to May 19, due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1968-73, 1976-77), 31.0°C July 16, 1977; minimum (water years 1968-73, 1976-77), freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 31.0°C July 16; minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	16.5	17.0	8.5	8.0	8.5	2.5	1.5	1.5	0.5	0.0	0.5
2	19.0	18.0	18.5	8.0	6.5	7.5	2.5	1.5	2.0	0.5	0.0	0.5
3	18.5	18.0	18.0	8.0	7.0	7.5	2.5	1.0	1.5	0.5	0.0	0.5
4	20.0	17.5	18.5	9.0	8.0	8.5	2.0	1.0	1.5	0.5	0.0	0.5
5	20.0	17.0	18.0	8.5	7.0	7.5	2.0	1.5	1.5	0.5	0.0	0.5
6	18.5	17.5	18.0	7.5	6.5	7.0	2.0	1.0	1.5	1.0	0.0	0.5
7	19.5	17.0	18.0	7.0	6.0	6.5	2.0	1.0	1.5	0.5	0.0	0.5
8	19.0	18.5	18.5	6.5	5.0	6.0	1.5	1.0	1.5	0.5	0.0	0.5
9	18.5	16.5	17.5	6.0	4.0	5.0	1.5	1.0	1.0	0.5	0.0	0.5
10	16.0	14.0	15.0	6.0	4.0	4.5	1.5	1.0	1.0	0.5	0.0	0.5
11	14.5	13.0	13.5	5.5	4.5	5.0	1.5	1.0	1.0	0.5	0.0	0.5
12	14.5	12.0	13.5	5.5	4.0	4.5	1.5	1.0	1.0	0.5	0.0	0.0
13	15.0	12.5	13.5	4.5	3.0	4.0	1.5	1.0	1.0	0.5	0.0	0.0
14	13.5	12.5	13.0	4.0	2.5	3.0	1.0	0.0	0.5	0.5	0.0	0.0
15	13.0	12.0	12.5	5.0	2.5	3.5	0.5	0.0	0.5	0.5	0.0	0.5
16	13.0	12.0	12.5	4.5	2.5	3.5	0.5	0.0	0.0	0.5	0.5	0.5
17	12.0	11.0	11.5	4.0	2.5	3.0	0.5	0.0	0.5	0.5	0.0	0.5
18	12.0	10.0	10.5	4.0	2.5	3.5	0.5	0.5	0.5	0.0	0.0	0.0
19	11.0	9.0	9.5	4.5	3.0	4.0	0.5	0.5	0.5	0.5	0.0	0.0
20	11.5	8.5	9.5	4.5	3.5	4.0	0.5	0.0	0.5	0.5	0.0	0.0
21	11.0	10.0	10.5	4.0	3.0	3.5	0.5	0.0	0.5	0.5	0.0	0.0
22	10.5	10.0	10.0	4.0	2.5	3.0	0.5	0.0	0.5	0.5	0.0	0.5
23	9.5	9.0	9.5	4.0	2.5	3.0	0.5	0.0	0.5	0.5	0.0	0.5
24	9.5	9.0	9.0	3.5	2.5	3.0	0.5	0.5	0.5	0.0	0.0	0.0
25	11.0	9.0	10.0	3.0	2.0	2.5	0.5	0.0	0.0	0.5	0.0	0.5
26	11.0	9.5	10.0	4.0	2.0	3.0	0.5	0.0	0.5	0.5	0.0	0.5
27	9.5	7.5	8.5	6.0	4.0	5.0	0.5	0.0	0.5	0.5	0.0	0.5
28	8.5	6.5	7.5	6.0	5.5	6.0	0.5	0.0	0.0	0.5	0.0	0.0
29	9.0	6.5	8.0	6.0	4.5	5.0	0.5	0.0	0.5	0.5	0.5	0.5
30	9.0	7.5	8.0	4.0	1.5	2.5	0.5	0.0	0.5	0.5	0.5	0.5
31	8.5	8.0	8.5	---	---	---	0.5	0.0	0.5	0.5	0.0	0.5
MONTH	20.0	6.5	13.0	9.0	1.5	5.0	2.5	0.0	1.0	1.0	0.0	0.5

01432160 DELAWARE RIVER AT BARRYVILLE, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.0	0.5	1.5	0.5	1.0	6.0	5.0	6.0	---	---	---
2	1.0	0.5	0.5	2.0	0.5	1.0	5.5	5.0	5.5	---	---	---
3	1.0	0.0	0.5	3.0	1.0	2.0	7.5	5.0	6.0	---	---	---
4	0.5	0.0	0.5	2.0	1.5	1.5	7.0	5.5	6.5	---	---	---
5	0.5	0.0	0.0	2.0	1.0	1.5	5.5	5.0	5.0	---	---	---
6	0.0	0.0	0.0	2.0	1.5	1.5	5.5	5.0	5.0	---	---	---
7	0.0	0.0	0.0	2.0	1.0	1.5	5.5	4.0	5.0	---	---	---
8	0.0	0.0	0.0	3.5	1.5	2.5	6.0	5.0	5.5	---	---	---
9	0.0	0.0	0.0	5.0	2.5	3.5	6.0	4.0	5.0	---	---	---
10	0.0	0.0	0.0	6.0	4.5	5.0	7.0	4.5	5.5	---	---	---
11	0.0	0.0	0.0	6.5	5.0	6.0	9.0	6.0	7.0	---	---	---
12	0.0	0.0	0.0	6.5	5.5	6.0	12.0	8.0	10.0	---	---	---
13	0.5	0.0	0.5	6.5	5.5	6.0	13.0	10.0	11.5	---	---	---
14	0.5	0.0	0.5	5.5	4.5	5.0	13.5	11.0	12.0	---	---	---
15	0.0	0.0	0.0	5.5	4.5	5.0	12.0	10.0	11.0	---	---	---
16	0.0	0.0	0.0	6.0	5.0	5.5	13.0	10.0	11.5	---	---	---
17	0.0	0.0	0.0	5.5	5.0	5.0	13.5	10.0	12.0	---	---	---
18	0.5	0.0	0.0	4.5	3.0	3.5	13.0	10.5	12.0	---	---	---
19	0.0	0.0	0.0	4.0	2.5	3.0	14.5	10.5	12.5	---	---	---
20	0.0	0.0	0.0	3.5	2.5	3.0	15.5	12.0	13.5	21.5	18.5	19.5
21	0.0	0.0	0.0	5.0	2.5	3.5	17.0	13.5	15.0	22.5	19.0	20.5
22	0.0	0.0	0.0	4.0	3.0	3.5	18.5	15.0	17.0	24.0	20.5	22.0
23	0.0	0.0	0.0	3.0	2.0	2.5	---	---	---	24.0	21.0	22.5
24	0.5	0.0	0.0	3.0	2.0	2.5	---	---	---	24.5	22.5	23.5
25	0.5	0.0	0.5	3.0	1.5	2.0	---	---	---	25.5	23.0	24.0
26	1.5	0.0	0.5	4.0	2.0	3.0	---	---	---	26.0	22.0	23.5
27	1.5	1.0	1.5	6.0	3.5	4.5	---	---	---	25.5	20.5	22.5
28	1.5	0.5	1.0	5.5	4.5	5.0	---	---	---	26.5	20.0	23.0
29	---	---	---	7.0	4.5	5.5	---	---	---	23.0	19.0	21.0
30	---	---	---	7.5	5.5	6.5	---	---	---	25.0	18.0	21.5
31	---	---	---	7.5	5.5	7.0	---	---	---	26.0	18.5	22.0
MONTH	1.5	0.0	0.0	7.5	0.5	3.5	---	---	---	---	---	---

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.5	20.0	20.5	27.5	20.5	23.5	23.5	21.5	22.5	26.0	23.0	24.0
2	25.0	19.5	22.0	26.0	19.5	22.5	23.5	21.0	22.5	27.0	23.0	24.5
3	23.0	17.5	20.0	26.0	20.0	23.5	22.0	20.5	21.0	26.0	23.0	24.5
4	23.0	17.5	20.5	25.0	22.5	23.5	26.0	20.0	22.5	26.0	22.0	23.5
5	23.5	19.0	21.0	25.0	22.0	23.5	26.0	21.5	23.5	25.0	22.5	23.5
6	20.5	17.5	19.0	26.0	20.5	23.0	27.5	22.0	24.5	24.5	22.0	23.0
7	19.0	16.0	17.5	23.0	22.0	22.0	26.5	24.0	25.0	25.0	20.0	22.0
8	19.0	14.0	16.5	23.0	21.0	22.0	26.0	23.5	24.5	26.5	20.0	22.0
9	16.0	15.0	15.5	25.0	21.0	23.0	26.0	23.0	24.0	24.0	19.5	21.5
10	16.5	14.0	15.5	27.0	21.5	24.0	24.0	22.0	22.5	26.0	20.5	22.5
11	17.0	15.0	16.0	25.0	22.5	23.5	28.0	21.5	24.0	22.0	18.0	20.5
12	20.0	15.0	17.5	24.5	22.5	23.5	26.0	22.5	24.0	22.0	16.5	19.0
13	23.5	16.5	20.0	29.0	22.0	25.0	25.0	21.0	23.0	20.0	18.5	19.0
14	21.0	18.5	20.0	29.0	21.5	24.5	24.0	22.5	23.5	22.0	19.5	20.0
15	24.5	18.0	20.5	30.0	20.5	25.5	25.5	21.0	23.0	21.5	17.5	19.5
16	25.5	18.5	22.0	31.0	22.5	26.5	22.5	20.5	21.0	19.5	18.5	18.5
17	23.5	19.5	21.5	29.0	25.0	27.0	23.0	20.5	21.5	19.5	18.5	19.0
18	24.5	19.5	22.5	30.5	24.5	27.0	24.0	19.0	21.0	19.0	17.5	18.5
19	25.5	22.5	24.0	29.5	23.5	25.5	22.5	19.5	21.0	21.0	18.5	19.5
20	26.0	21.5	23.5	28.5	23.0	25.5	23.0	20.0	21.0	20.5	19.5	20.0
21	21.5	19.5	20.5	29.5	23.5	26.0	23.0	18.5	20.5	19.5	17.5	18.0
22	22.5	17.5	19.5	28.0	22.5	25.0	24.0	20.0	21.5	17.0	16.0	16.5
23	25.0	17.0	21.0	27.5	20.5	24.0	23.5	20.0	21.5	17.0	16.0	16.5
24	23.5	18.5	20.5	27.0	23.5	25.0	23.0	19.5	20.5	17.0	15.5	16.0
25	21.5	19.0	20.5	24.0	21.5	23.0	23.5	17.0	20.0	15.5	13.5	14.0
26	23.5	20.5	22.0	24.5	19.5	21.5	25.0	17.0	20.5	14.5	13.5	14.0
27	27.0	19.5	22.5	25.0	17.5	21.5	24.0	18.5	21.5	15.0	14.0	14.5
28	22.5	19.5	21.0	23.5	20.5	22.0	26.5	21.0	23.5	16.5	15.0	15.5
29	25.0	20.0	22.0	23.0	20.0	21.5	28.0	22.5	24.0	16.0	15.0	15.5
30	27.5	19.0	23.0	22.0	20.5	21.0	27.0	22.0	24.0	16.0	15.0	15.5
31	---	---	---	23.5	20.0	21.5	23.5	22.5	23.5	---	---	---
MONTH	27.5	14.0	20.5	31.0	17.5	23.5	28.0	17.0	22.5	27.0	13.5	19.5

DELAWARE RIVER BASIN

01432805 DELAWARE RIVER AT POND EDDY, NY

LOCATION.--Lat 41°26'20", long 74°49'11", Pike County, Pa.-Sullivan County, N.Y., Hydrologic Unit 02040104, at interstate bridge, at Pond Eddy, 450 ft (137 m) downstream from Mill Brook and 4.5 mi (7.2 km) upstream from Mongaup River.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1973 to current year.

INSTRUMENTATION.--Temperature recorder since October 1973.

REMARKS.--No record Feb. 28 to Aug. 9.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Minimum (water years 1974, 1977), freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	13.0	14.0	7.0	5.5	7.0	0.5	0.0	0.0	0.0	0.0	0.0
2	15.0	14.0	14.5	6.5	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
3	15.0	14.5	14.5	5.5	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
4	16.0	14.5	15.0	6.5	5.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
5	16.0	15.5	16.0	6.5	5.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
6	16.0	15.5	15.5	5.5	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
7	16.5	15.5	16.0	5.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
8	17.0	16.5	16.5	5.0	4.5	4.5	1.5	0.0	1.0	0.0	0.0	0.0
9	16.5	14.0	16.0	4.0	3.0	3.5	1.5	0.5	1.0	0.0	0.0	0.0
10	15.0	13.5	14.5	3.0	3.0	3.0	0.5	0.0	0.5	0.0	0.0	0.0
11	14.0	12.5	13.5	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
12	13.5	12.0	12.5	3.0	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
13	13.0	11.5	12.0	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
14	13.5	11.5	12.0	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
15	12.0	10.5	11.0	2.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
16	12.0	11.0	11.5	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
17	11.0	10.0	10.5	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
18	10.0	8.5	9.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
19	9.0	8.0	8.5	2.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
20	8.5	7.5	8.0	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
21	9.0	8.5	9.0	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
22	9.0	8.5	8.5	2.5	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
23	8.5	7.5	7.5	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
24	7.5	7.5	7.5	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
25	8.5	7.5	8.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
26	8.5	8.0	8.5	2.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
27	8.0	6.5	7.0	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
28	6.5	5.5	5.5	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
29	5.5	5.5	5.5	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
30	6.0	5.5	5.5	3.0	0.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
31	7.0	6.0	6.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	17.0	5.5	11.0	7.0	0.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0

DELAWARE RIVER BASIN

197

01432805 DELAWARE RIVER AT POND EDDY, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0									
2	0.0	0.0	0.0									
3	0.0	0.0	0.0									
4	0.0	0.0	0.0									
5	0.0	0.0	0.0									
6	0.0	0.0	0.0									
7	0.0	0.0	0.0									
8	0.0	0.0	0.0									
9	0.0	0.0	0.0									
10	0.0	0.0	0.0									
11	0.0	0.0	0.0									
12	0.0	0.0	0.0									
13	0.0	0.0	0.0									
14	0.0	0.0	0.0									
15	0.0	0.0	0.0									
16	0.0	0.0	0.0									
17	0.0	0.0	0.0									
18	0.0	0.0	0.0									
19	0.0	0.0	0.0									
20	0.0	0.0	0.0									
21	0.0	0.0	0.0									
22	0.0	0.0	0.0									
23	0.0	0.0	0.0									
24	0.0	0.0	0.0									
25	1.0	0.0	0.5									
26	1.0	1.0	1.0									
27	1.0	1.0	1.0									
28	---	---	---									
29	---	---	---									
30	---	---	---									
31	---	---	---									
MONTH	1.0	0.0	0.0									
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	26.5	23.5	24.5
2							---	---	---	27.0	24.0	25.0
3							---	---	---	26.5	24.5	25.0
4							---	---	---	26.0	23.0	24.0
5							---	---	---	25.5	23.0	24.0
6							---	---	---	24.5	23.0	23.5
7							---	---	---	24.0	21.5	22.5
8							---	---	---	23.5	21.5	22.5
9							---	---	---	23.5	21.0	22.0
10							28.5	23.0	24.0	24.5	21.5	22.5
11							28.5	25.0	26.5	22.5	20.5	21.5
12							27.5	25.5	26.0	21.5	18.5	20.0
13							25.5	23.5	24.0	19.5	19.0	19.5
14							24.5	24.0	24.0	22.0	19.0	20.0
15							26.5	22.5	24.0	21.0	19.0	20.0
16							23.5	22.0	22.5	19.0	19.0	19.0
17							22.5	21.5	22.0	21.5	18.5	19.5
18							23.5	20.5	21.5	19.5	18.0	19.0
19							22.5	20.0	21.0	20.5	19.0	19.5
20							23.5	20.5	21.5	21.0	20.0	20.5
21							23.0	20.0	21.5	20.0	17.5	18.5
22							24.0	20.5	22.0	17.5	16.5	17.0
23							23.5	21.0	22.0	17.5	16.5	17.0
24							22.5	21.0	21.5	17.5	16.0	16.5
25							23.0	19.0	21.0	16.0	14.0	15.0
26							23.5	19.0	21.0	14.5	13.5	14.0
27							24.0	20.0	21.5	15.0	14.0	14.5
28							25.5	21.5	23.5	16.0	14.5	15.0
29							27.5	14.5	25.0	15.5	14.5	15.0
30							26.5	24.0	25.0	16.0	15.0	15.5
31							24.5	24.0	24.0	---	---	---
MONTH							---	---	---	27.0	13.5	19.5

DELAWARE RIVER BASIN

01433500 MONGAUP RIVER NEAR MONGAUP, NY

LOCATION.--Lat 41°27'41", long 74°45'33", Sullivan County, Hydrologic Unit 02040104, on right bank 300 ft (91 m) downstream from Rio hydroelectric plant of Orange and Rockland Utilities, Inc., 0.5 mi (0.8 km) downstream from Bush Kill, and 2.8 mi (4.5 km) upstream from mouth and Mongaup.

DRAINAGE AREA.--202 mi² (523 km²).

PERIOD OF RECORD.--August 1939 to current year.

REVISED RECORDS.--WRD NY 1971: 1970.

GAGE.--Water-stage recorder. Datum of gage is 625.05 ft (190.515 m) above mean sea level (datum of Orange and Rockland Utilities, Inc.). Prior to July 6, 1956, water-stage recorders at sites 25 ft (8 m) upstream on Rio Tailrace and 200 ft (61 m) upstream on natural channel, at datum 4.0 ft (1.22 m) higher.

REMARKS.--Records good above 70 ft³/s (1.98 m³/s) and fair below. Entire flow completely regulated by Rio hydroelectric plant except for runoff from about 7 mi² (11 km²) of drainage area below Rio Dam of Orange and Rockland Utilities, Inc., and during periods of spill from Rio Reservoir. Flow also regulated by storage in Cliff Lake, Swinging Bridge, and Toronto Reservoirs (see Reservoirs in Delaware River Basin) and small reservoirs above station.

AVERAGE DISCHARGE.--38 years, 338 ft³/s (9.57 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,900 ft³/s (450 m³/s) Aug. 19, 1955; maximum daily, 12,300 ft³/s (348 m³/s), Aug. 19, 1955; minimum daily, 6 ft³/s (0.17 m³/s) Oct. 1, 1939.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,320 ft³/s (207 m³/s) Mar. 14, gage height, 10.36 ft (3.158 m); minimum daily, 19 ft³/s (0.54 m³/s) Aug. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	402	726	280	28	23	455	1240	297	26	440	420	452
2	31	644	194	28	25	485	1240	476	26	24	410	350
3	34	722	335	238	55	725	1440	724	24	21	24	20
4	263	536	123	393	25	741	1370	720	25	23	261	20
5	407	633	26	306	25	769	1330	732	26	290	54	20
6	367	651	304	354	24	757	1400	632	25	22	19	276
7	327	629	495	413	104	749	1300	73	27	23	100	21
8	412	608	467	31	137	741	1240	42	25	24	126	119
9	491	644	413	115	23	729	1170	431	32	23	106	20
10	757	619	373	416	189	626	1130	732	346	22	21	20
11	690	615	33	636	22	669	1100	720	31	415	273	20
12	729	633	33	308	22	733	1070	525	27	202	29	22
13	647	626	439	423	24	780	900	720	50	413	25	20
14	644	633	452	290	24	4190	792	676	251	500	27	22
15	629	640	479	57	23	2970	736	265	29	644	159	20
16	29	495	489	168	22	1660	574	557	27	247	21	184
17	27	706	476	457	22	1430	36	253	26	194	325	26
18	436	602	127	306	22	1340	189	259	29	494	23	84
19	629	264	31	418	22	1300	133	455	29	488	267	189
20	629	473	489	271	22	1240	158	375	405	536	21	303
21	749	550	450	388	22	1210	35	34	31	557	21	208
22	726	255	511	81	22	1340	35	31	26	24	357	385
23	644	286	205	91	23	1550	543	407	26	23	343	380
24	644	188	28	354	267	1400	491	452	25	23	385	395
25	651	26	28	371	203	1280	716	716	42	23	405	532
26	737	173	28	71	381	1010	581	684	25	23	312	728
27	733	54	162	59	455	864	500	27	129	23	20	716
28	669	28	364	24	376	824	522	27	152	23	20	572
29	726	297	269	23	---	832	297	30	305	22	397	672
30	726	421	245	24	---	1030	428	29	410	24	518	704
31	729	---	39	22	---	1270	---	27	---	96	515	---
TOTAL	16304	14557	8387	7154	2604	35701	22736	12128	2659	5906	6004	7700
MEAN	526	485	271	231	93.0	1152	758	391	84.6	191	194	257
MAX	757	726	511	636	455	4190	1440	732	410	644	518	728
MIN	27	26	26	22	22	455	35	27	24	21	19	20
CAL YR 1976	TOTAL	149156	MEAN	408	MAX	1580	MIN	26				
WTR YR 1977	TOTAL	141850	MEAN	389	MAX	4190	MIN	19				

01434000 DELAWARE RIVER AT PORT JERVIS, NY

LOCATION.--Lat 41°22'14", long 74°41'52", Pike County, Pa., Hydrologic Unit 02040104, on right bank 250 ft (76 m) downstream from bridge (on U.S. Highways 6 and 209) between Port Jervis, N.Y. and Matamoras, Pa., 1.2 mi (1.9 km) upstream from Neversink River, and 6.5 mi (10.5 km) downstream from Mongaup River. Water-quality sampling site at discharge station.

DRAINAGE AREA.--3,076 mi² (7,967 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1904 to current year.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1031: 1905-36. WRD NY 1971: 1970.

GAGE.--Water-stage recorder. Datum of gage is 415.35 ft (126.599 m) above mean sea level. October 1904 to August 13, 1928, nonrecording gage at bridge 250 ft upstream at present datum; operated by U.S. Weather Bureau prior to June 20, 1914.

REMARKS.--Records good except those for winter periods, which are poor. Flow regulated by Lake Wallenpaupack and by Toronto, Cliff Lake, and Swinging Bridge Reservoirs (see Reservoirs in Delaware River Basin) and smaller reservoirs. Large diurnal fluctuations at medium and low flows caused by powerplants on tributary streams. Subsequent to September 1954, entire flow from 371 mi² (961 km²) of drainage area controlled by Pepacton Reservoir, and subsequent to October 1963, entire flow from 454 mi² (1,176 km²) of drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow from these reservoirs diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 233,000 ft³/s (6,600 m³/s) Aug. 19, 1955, gage height, 23.91 ft (7.288 m), from floodmarks in gage house, from rating curve extended above 89,000 ft³/s (2,520 m³/s) on basis of slope-area measurement of peak flow; minimum observed, 175 ft³/s (4.96 m³/s) Sept. 23, 1908, gage height, 0.6 ft (0.18 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge previously known, 205,000 ft³/s (5,810 m³/s) Oct. 10, 1903, gage height, 23.1 ft (7.04 m), reported by U.S. Weather Bureau, from rating curve extended above 70,000 ft³/s (1,980 m³/s) by velocity-area studies; maximum stage known, 25.5 ft (7.77 m) Mar. 8, 1904 (ice jam).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 77,000 ft³/s (2,180 m³/s) Mar. 14, gage height, 13.82 ft (4.212 m); maximum gage height, 14.35 ft (4.374 m) Feb. 26 (ice jam); minimum discharge, 673 ft³/s (19.1 m³/s) Sept. 14, gage height, 1.65 ft (0.503 m); minimum daily, 800 ft³/s (22.7 m³/s) Feb. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2360	11700	2320	1900	1600	13000	31600	6680	1150	1820	1820	1710
2	1820	9830	2090	2100	920	9340	23300	6270	1160	1390	2350	1500
3	1730	8570	2420	2500	800	8140	29300	6160	1050	1240	1930	1500
4	2220	8560	2280	2300	960	7460	22900	5220	1290	1430	1730	1300
5	2270	8520	1510	1900	1400	21000	20200	6300	1330	1600	1560	1480
6	2090	7890	2450	1800	2100	20700	20000	10200	1410	1360	1320	1720
7	1640	6910	3530	2500	2200	14400	17300	8550	1360	2120	1550	1680
8	1820	6790	8290	2700	2800	10730	14900	6790	1170	1630	1800	1680
9	10400	6620	9010	2600	2600	8450	13000	6870	1560	1720	2160	1570
10	37400	5800	5960	2000	2200	9200	11500	8170	2710	1190	1720	1620
11	16100	5490	5200	2900	2100	11400	10400	7930	2400	1590	1670	1380
12	9950	5230	4670	2800	2000	13000	9030	7930	1710	1660	1430	1270
13	7660	4590	4500	2900	1900	21100	8140	7930	1230	1810	1250	1580
14	6720	4120	4520	2700	1600	59100	7420	7530	1610	1960	1560	1460
15	6640	4270	3370	2400	2100	94600	6850	6380	1350	2140	1590	1540
16	5150	4080	3200	1500	2900	28900	5420	6230	1390	1340	1680	1940
17	4350	3850	3330	2300	3000	21000	3990	5100	1420	1940	1820	2660
18	4490	3480	2880	3000	2300	16400	4120	4580	1670	1880	1260	4080
19	4110	2960	2440	2700	1900	14500	3900	4870	1770	2700	1630	2780
20	4030	2970	2620	2400	1800	11500	3620	4650	1900	2440	1520	3260
21	18000	2980	2850	2300	1900	9870	2990	3710	2530	2820	1270	9600
22	23700	2910	3670	2300	1700	11100	2610	2880	2020	1820	1530	7590
23	15200	2970	2990	2400	1800	15100	2920	2730	1900	943	1870	5530
24	11500	2720	2020	1800	1800	13500	5490	2570	1910	1550	1860	3720
25	11700	2260	2130	2500	5000	11400	17700	2610	1960	1190	1800	13500
26	13700	2030	1840	2000	11000	9460	16100	2350	1790	1130	1600	29300
27	12800	1880	2350	1800	10000	8310	13900	1490	1330	903	922	30200
28	10400	1780	2900	1800	11000	9540	12200	1250	1920	1530	1210	15600
29	9100	2310	2300	1400	---	12800	9980	1090	1960	1560	1460	10500
30	8070	2730	2100	900	---	29600	8130	1050	1830	1610	1890	8070
31	7720	---	1900	1100	---	38000	---	1060	---	1630	1630	---
TOTAL	274840	146800	104640	68100	83380	543270	358900	157130	49790	51686	50392	170620
MEAN	8866	4893	3375	2197	2978	17520	11960	5067	1660	1667	1626	5687
MAX	37400	11700	9010	3000	11000	59100	31600	10200	2710	2820	2350	30200
MIN	1640	1780	1510	900	800	7460	2610	1050	1050	903	922	1270
CAL YR 1976 TOTAL	2194170			MEAN 5995	MAX 50200	MIN 1340						
WTR YR 1977 TOTAL	2059548			MEAN 5643	MAX 69100	MIN 800						

DELAWARE RIVER BASIN

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: February 1957 to September 1960, January to September 1973, June 1974 to current year.

INSTRUMENTATION.--Temperature recorder since January 1973.

REMARKS.--New York State Water Quality Surveillance Network station 14 0010.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 29.5°C July 19, 1959, Aug. 3, 1975; minimum (water years 1957-60, 73, 75-77), freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.0°C July 17, 18; minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	13.5	14.5	7.5	7.0	7.0	1.5	0.5	1.0	1.0	0.5	0.5
2	15.5	14.5	15.0	7.0	5.5	6.5	1.0	0.5	1.0	0.5	0.0	0.5
3	15.5	15.0	15.0	6.5	5.0	5.5	1.5	0.5	1.0	0.5	0.0	0.5
4	16.0	14.5	15.5	7.5	5.5	7.0	1.0	0.0	0.5	0.5	0.5	0.5
5	16.5	15.0	16.0	7.0	5.0	6.5	1.0	0.0	0.5	0.5	0.0	0.5
6	16.5	15.5	16.0	6.0	5.5	5.0	0.5	0.0	0.5	0.5	0.0	0.5
7	17.0	15.0	16.5	5.5	5.5	5.5	1.5	0.5	1.0	0.5	0.0	0.5
8	17.0	16.5	17.0	5.5	4.5	5.0	0.5	0.5	0.5	0.5	0.5	0.5
9	17.0	14.5	16.5	4.5	3.5	4.0	0.5	0.5	0.5	0.5	0.5	0.5
10	14.5	12.5	13.0	4.5	3.5	4.0	0.5	0.5	0.5	0.5	0.0	0.5
11	12.5	11.0	11.5	4.5	3.5	4.0	1.0	0.0	0.5	0.5	0.5	0.5
12	11.5	10.5	11.0	4.0	3.5	4.0	1.0	0.5	0.5	0.5	0.5	0.5
13	12.0	10.5	11.5	3.5	3.0	3.5	1.0	0.5	0.5	0.5	0.5	0.5
14	12.0	11.0	11.5	3.5	2.5	3.0	1.0	0.5	0.5	0.5	0.5	0.5
15	11.5	10.5	11.0	3.0	2.5	3.0	1.0	0.5	0.5	0.5	0.5	0.5
16	11.5	11.0	11.5	3.5	2.5	3.0	1.0	0.0	0.5	0.5	0.0	0.5
17	11.0	10.0	10.5	3.5	2.5	3.0	1.5	0.0	1.0	1.0	0.5	0.5
18	10.0	9.0	9.5	3.5	2.5	3.0	1.0	0.5	1.0	0.5	0.5	0.5
19	9.5	8.5	9.0	4.0	2.5	3.5	1.0	0.0	0.5	0.5	0.5	0.5
20	9.0	8.5	9.0	4.0	3.0	3.5	1.5	0.0	0.5	0.5	0.5	0.5
21	10.0	9.0	9.5	3.5	3.0	3.5	1.5	0.5	0.5	0.5	0.5	0.5
22	9.5	8.5	9.0	3.5	2.5	3.0	1.0	0.0	0.5	0.5	0.5	0.5
23	8.5	7.5	8.0	3.0	2.5	3.0	1.0	0.0	0.5	0.5	0.5	0.5
24	8.0	8.0	8.0	2.5	2.0	2.5	1.0	0.5	0.5	0.5	0.0	0.5
25	9.0	8.0	8.5	2.5	1.5	2.5	0.5	0.5	0.5	0.5	0.5	0.5
26	9.0	8.5	9.0	3.0	1.5	2.5	0.5	0.0	0.5	0.5	0.5	0.5
27	8.5	8.5	7.5	4.0	3.0	3.5	0.5	0.5	0.5	0.5	0.0	0.5
28	7.0	5.5	6.0	5.0	4.0	4.5	1.0	0.0	0.5	0.5	0.5	0.5
29	6.5	6.0	6.0	5.0	3.5	4.5	1.0	0.5	0.5	0.5	0.5	0.5
30	7.0	6.0	6.5	3.5	1.5	2.5	1.0	0.5	0.5	0.5	0.5	0.5
31	8.0	5.5	7.5	---	---	---	1.0	0.5	0.5	0.5	0.0	0.5
MONTH	17.0	5.5	11.0	7.5	1.5	4.0	1.5	0.0	0.5	1.0	0.0	0.5

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.5	0.5	1.0	0.5	0.5	6.5	5.5	6.0	13.0	11.0	12.0
2	0.5	0.5	0.5	1.5	0.5	1.0	6.0	5.0	5.5	13.5	12.0	13.0
3	0.5	0.5	0.5	2.0	0.5	1.0	7.0	4.5	6.0	14.0	12.0	13.5
4	0.5	0.0	0.5	2.0	1.0	1.5	7.0	5.5	6.5	13.5	12.5	13.0
5	0.5	0.0	0.5	2.0	0.5	1.5	5.5	4.0	5.0	13.5	12.0	12.5
6	0.5	0.5	0.5	1.5	1.0	1.5	5.5	4.5	5.0	14.5	12.5	14.0
7	1.5	0.0	0.5	1.5	0.5	1.0	5.0	4.0	4.5	15.5	14.0	15.0
8	0.5	0.5	0.5	2.5	1.0	2.0	5.5	5.0	5.0	16.0	14.0	15.0
9	0.5	0.5	0.5	4.0	1.5	3.0	5.5	4.5	5.0	14.5	11.0	13.0
10	0.5	0.5	0.5	5.5	3.5	4.5	6.0	4.0	5.0	11.5	10.5	11.0
11	0.5	0.5	0.5	6.0	3.0	5.5	8.0	5.5	6.5	12.0	10.0	11.0
12	0.5	0.5	0.5	6.0	3.5	6.0	10.5	7.5	9.0	13.5	11.0	12.5
13	0.5	0.0	0.5	7.0	3.0	6.0	12.5	10.0	11.0	15.5	13.5	14.5
14	0.5	0.5	0.5	5.5	4.5	4.5	13.0	11.5	12.5	15.0	13.5	14.5
15	0.5	0.0	0.5	5.0	4.5	4.5	12.5	9.5	11.5	15.0	13.0	14.5
16	0.5	0.5	0.5	5.5	4.5	5.0	12.0	10.5	11.5	15.5	13.5	14.5
17	0.5	0.5	0.5	5.0	4.5	5.0	12.5	9.5	12.0	17.5	14.5	16.0
18	0.5	0.5	0.5	4.5	2.0	3.0	13.0	11.0	12.0	18.5	15.5	17.5
19	0.5	0.5	0.5	3.0	1.5	2.5	14.0	11.5	13.0	19.0	17.5	18.5
20	0.5	0.5	0.5	3.0	1.0	2.5	14.0	13.0	13.5	20.5	18.5	19.5
21	0.5	0.5	0.5	4.0	2.5	3.0	16.5	13.5	15.0	21.0	19.0	20.5
22	0.5	0.0	0.5	4.0	3.0	3.5	17.0	15.0	16.0	23.0	20.0	21.5
23	1.0	0.5	0.5	3.0	2.0	2.5	17.0	15.5	16.5	24.0	21.0	22.0
24	2.0	0.5	0.5	3.5	1.5	2.0	15.5	13.0	14.5	24.0	20.0	22.0
25	3.0	0.5	0.5	3.0	1.0	2.0	13.0	10.0	11.5	23.0	20.5	22.0
26	1.0	0.5	0.5	3.5	2.0	3.0	10.5	9.5	9.5	23.0	20.0	22.0
27	1.5	0.5	1.0	5.5	3.0	4.0	10.0	9.0	9.5	23.5	19.5	21.5
28	1.0	0.5	0.5	5.5	5.0	5.0	11.0	10.0	10.5	24.5	21.5	23.0
29	---	---	---	7.0	5.0	6.0	11.0	10.0	10.5	23.5	20.5	21.5
30	---	---	---	7.5	5.0	6.5	12.0	9.5	11.0	22.5	19.5	21.0
31	---	---	---	8.0	5.5	7.5	---	---	---	23.5	20.0	22.0
MONTH	3.0	0.0	0.5	8.0	0.5	3.5	17.0	4.0	9.5	24.5	10.0	17.0

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.5	20.5	21.5	24.5	21.0	22.5	23.0	21.5	22.0	24.0	22.0	23.0
2	23.5	20.0	22.0	24.0	21.0	22.5	24.0	21.0	22.5	25.0	22.5	24.0
3	22.5	20.0	21.0	24.0	21.0	23.0	23.0	21.0	22.0	25.5	23.0	24.0
4	21.5	19.0	20.5	24.5	22.5	24.0	23.5	21.0	22.5	24.5	22.5	23.5
5	22.0	19.5	21.0	23.0	23.0	24.0	24.5	21.5	23.0	24.0	22.5	23.5
6	21.0	17.5	19.5	25.0	22.5	23.5	25.0	23.0	24.5	24.0	22.5	23.0
7	19.5	17.5	18.5	23.5	22.0	22.5	25.5	23.5	25.0	23.5	21.5	22.5
8	18.0	16.5	17.5	23.5	22.0	23.0	26.0	24.0	25.0	23.0	20.5	22.0
9	17.0	15.5	16.0	24.5	22.5	23.5	26.0	24.0	25.0	22.5	20.5	21.5
10	16.5	14.5	15.5	25.0	22.5	24.0	24.5	22.5	23.5	22.5	20.5	21.5
11	17.5	15.0	16.5	24.5	22.5	23.5	25.5	23.0	24.0	21.5	20.0	20.5
12	18.5	16.0	17.5	23.0	21.0	22.0	25.0	23.5	24.5	20.0	18.0	19.5
13	20.0	17.5	19.0	25.5	22.0	24.0	24.5	23.0	23.5	20.0	18.5	19.0
14	20.5	19.0	20.0	26.5	22.5	24.5	23.5	22.5	23.0	20.0	18.5	19.0
15	21.5	19.0	20.5	25.5	22.5	24.0	24.5	22.0	23.5	19.5	18.0	19.0
16	23.0	20.0	21.5	26.5	22.0	24.5	23.0	22.0	22.5	19.5	18.0	18.5
17	22.5	21.0	22.0	28.0	23.5	26.0	22.5	21.0	21.5	20.5	18.0	19.0
18	23.5	21.0	22.5	28.0	24.5	26.5	22.5	20.0	21.5	19.5	18.5	19.0
19	25.0	22.0	23.5	27.0	24.5	26.0	22.0	19.5	21.0	20.5	18.5	19.5
20	25.0	22.5	23.5	26.0	24.0	25.0	22.0	19.5	20.5	20.0	19.0	19.5
21	24.5	21.0	22.0	26.5	24.0	25.0	21.5	19.5	20.5	19.0	17.0	18.0
22	21.0	19.0	20.0	26.5	24.0	25.0	22.0	20.0	21.0	17.0	15.5	16.5
23	22.0	18.5	20.5	25.0	22.5	24.0	22.0	20.0	21.0	17.0	16.0	16.5
24	23.0	20.0	21.5	26.0	23.5	25.0	21.5	20.5	21.0	16.5	15.5	16.0
25	22.0	20.0	21.0	25.5	23.0	24.0	21.5	19.0	20.5	15.5	13.5	14.5
26	23.5	20.0	21.5	23.5	21.5	22.5	22.0	19.0	20.5	14.0	13.0	13.5
27	24.5	21.5	23.0	23.0	20.5	22.0	22.0	20.0	21.0	14.5	13.5	14.0
28	24.0	21.5	22.5	23.0	20.5	22.0	24.0	20.0	22.5	15.5	14.0	15.0
29	23.0	21.0	22.0	23.5	21.0	22.5	25.5	23.0	24.5	15.0	14.5	15.0
30	25.0	20.5	22.5	23.0	21.5	22.0	25.0	23.5	24.0	15.5	14.5	15.0
31	---	---	---	23.0	20.5	22.0	23.5	21.0	22.5	---	---	---
MONTH	25.0	14.5	20.5	28.0	20.5	23.5	26.0	19.0	22.5	25.5	13.0	19.0

DELAWARE RIVER BASIN

01435000 NEVERSINK RIVER NEAR CLARYVILLE, NY

LOCATION.--Lat 41°53'24", long 74°35'25", Sullivan County, Hydrologic Unit 02040104, on left bank 50 ft (15 m) downstream from covered bridge, 300 ft (91 m) upstream from small tributary, 2.2 mi (3.5 km) downstream from confluence of East and West Branches, and 2.2 mi (3.5 km) southwest of Claryville.

DRAINAGE AREA.--65.6 mi² (170 km²).

PERIOD OF RECORD.--July 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,527.37 ft (465.542 m) above mean sea level. Prior to October 1, 1974, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--26 years, 188 ft³/s (5.324 m³/s), 38.92 in/yr (989 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft³/s (289 m³/s) July 10, 1952, gage height, 8.83 ft (2.691 m) present datum, from rating curve extended above 4,000 ft³/s (113 m³/s); minimum, 6.8 ft³/s (0.19 m³/s) Sept. 24, 25, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 23,400 ft³/s (663 m³/s) Nov. 25, 1950, by slope-area measurement; gage height, about 10.0 ft (3.05 m) present datum, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85 m³/s), and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1530	4,860 138	5.68 1.731	Sept. 26	1130	3,740 106	4.70 1.433
Mar. 13	1345	*10,000 283	*7.07 2.155				

Minimum discharge, 20 ft³/s (0.57 m³/s) Sept. 11-13, gage height, 0.43 ft (0.131 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	495	60	80	45	100	749	195	87	44	33	26
2	95	369	78	78	45	90	546	186	100	42	42	27
3	112	325	76	76	44	85	1050	177	83	40	32	27
4	107	369	76	74	44	191	636	164	76	39	30	24
5	93	320	74	70	44	492	918	450	73	39	28	23
6	88	265	78	66	43	413	818	278	75	44	29	27
7	85	242	500	66	43	251	504	234	89	51	33	25
8	96	220	325	54	43	191	404	204	76	75	34	23
9	2250	195	150	52	42	149	322	250	115	58	29	22
10	950	184	150	62	42	358	283	313	331	43	28	21
11	469	165	140	62	41	591	266	444	133	40	32	20
12	330	154	130	62	41	779	341	522	96	44	33	20
13	270	144	130	60	42	4670	421	515	83	47	34	23
14	303	144	130	58	41	3270	376	365	76	52	33	42
15	233	141	120	56	41	1070	278	291	73	40	35	37
16	203	141	120	54	41	802	234	250	67	65	29	55
17	176	139	120	52	41	571	205	227	64	83	40	135
18	158	136	110	52	41	409	186	205	65	51	42	70
19	151	128	110	50	41	346	175	223	61	43	31	67
20	447	118	139	50	40	278	166	183	58	41	27	250
21	1290	114	110	50	40	246	158	166	56	37	25	202
22	526	111	98	48	40	250	155	155	53	37	70	113
23	375	100	96	47	41	231	202	143	52	31	67	96
24	364	100	94	47	45	202	636	133	48	30	44	166
25	458	98	92	47	300	180	603	124	53	32	39	842
26	654	98	94	47	136	172	365	115	65	39	33	1800
27	429	92	92	46	100	175	331	108	49	31	30	727
28	347	96	90	46	136	202	278	102	46	29	29	355
29	292	90	89	46	---	577	238	96	53	27	27	238
30	256	87	86	45	---	1660	216	92	53	27	26	183
31	726	---	84	45	---	1650	---	89	---	28	25	---
TOTAL	12433	5380	3871	1768	1683	21101	12060	7005	2409	1329	1069	5486
MEAN	401	179	125	57.0	50.1	681	402	226	80.3	42.9	34.5	183
MAX	2250	495	500	80	300	4670	1050	522	331	83	70	1600
MIN	85	87	74	45	40	85	155	89	46	27	25	20
CFSM	6.11	2.73	1.91	.87	.92	10.4	6.13	3.45	1.22	.65	.53	2.79
IN.	7.05	3.05	2.20	1.00	.95	11.97	6.84	3.97	1.37	.75	.61	3.11
CAL YR 1976	TOTAL	83863	MEAN 229	MAX 4150	MIN 54	CFSM 3.49	IN 47.56					
WTR YR 1977	TOTAL	75594	MEAN 207	MAX 4670	MIN 20	CFSM 3.16	IN 42.87					

DELAWARE RIVER BASIN

203

01436000 NEVERSINK RIVER AT NEVERSINK, NY

LOCATION.--Lat 41°49'12", long 74°38'09", Sullivan County, Hydrologic Unit 02040104, on right bank at downstream end of outlet channel, 1,650 ft (503 m) downstream from Neversink Dam and State Highway 55, 1.7 mi (2.7 km) southwest of Neversink, and 2.6 mi (4.2 km) upstream from Wynkoop Brook.

DRAINAGE AREA.--91.9 mi² (238 km²).

PERIOD OF RECORD.--October 1941 to current year.

REVISED RECORDS.--WRD NY 1972: 1961 (M), 1968 (M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,255.24 ft (382.597 m) above mean sea level (Board of Water Supply, City of New York datum). Prior to Jan. 17, 1953, water-stage recorder at site 650 ft (198 m) downstream at datum 0.20 ft (0.061 m) lower. Jan. 17, 1953 to Apr. 16, 1954, water-stage recorder at present site at datum 0.41 ft (0.125 m) higher.

REMARKS.--Records good except those for winter periods, which are fair. Subsequent to June 1953, entire flow from 91.8 mi² (238 km²) of drainage area controlled by Neversink Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply (see Reservoirs in Delaware River Basin). Remainder of flow (except for conservation release and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,300 ft³/s (632 m³/s) Nov. 25, 1950, from rating curve extended above 2,600 ft³/s (73.6 m³/s) on basis of contracted-opening and critical-depth measurements of peak flow; maximum gage height, 11.65 ft (3.551 m) Sept. 27, 1942, site and datum then in use; no flow for all or part of each day Sept. 22-24, Oct. 26-29, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 698 ft³/s (19.8 m³/s) Apr. 6, 7, gage height, 4.38 ft (1.335 m); minimum, 2.5 ft³/s (0.071 m³/s) Nov. 2, gage height, 2.26 ft (0.689 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	8.2	4.8	4.5	4.3	4.8	4.9	15	15	45	46	84
2	15	2.5	4.7	4.4	4.3	5.0	5.3	16	15	46	46	85
3	15	7.2	4.7	4.5	4.4	5.1	5.2	16	15	45	46	70
4	15	11	4.7	4.5	4.5	5.1	5.1	15	15	41	46	46
5	15	4.8	4.7	4.5	4.4	5.8	5.8	15	15	43	46	45
6	15	4.8	4.7	4.5	4.5	5.3	324	15	15	45	46	49
7	15	4.8	5.2	4.5	4.6	5.2	482	15	15	46	46	51
8	15	4.7	4.8	4.4	5.0	5.2	189	15	15	44	46	46
9	18	4.8	4.7	4.5	5.0	5.3	33	16	16	42	47	46
10	16	4.8	4.7	4.5	5.2	6.6	16	15	15	44	47	46
11	16	4.8	4.7	4.4	5.2	4.9	16	15	15	46	46	46
12	16	4.8	4.7	4.3	5.2	5.0	16	15	15	44	46	46
13	15	4.8	4.7	4.3	5.0	6.7	16	21	21	43	46	46
14	15	5.0	4.7	4.3	4.8	6.2	16	17	33	56	46	45
15	15	5.0	4.7	4.3	4.2	5.3	15	16	33	66	46	46
16	15	5.0	4.7	4.3	4.0	5.1	15	16	33	66	46	46
17	15	5.0	4.6	4.3	4.0	4.9	15	16	33	66	46	47
18	15	5.0	4.6	4.3	4.1	5.3	15	16	32	66	46	45
19	15	5.0	4.6	4.2	4.1	5.1	15	16	32	66	46	44
20	16	4.8	4.6	4.3	4.1	5.2	15	15	32	66	46	46
21	15	4.8	4.5	4.3	4.1	4.9	15	16	32	68	46	46
22	15	4.8	4.6	4.3	4.1	5.2	15	16	32	59	46	46
23	15	4.8	4.6	4.3	4.1	5.0	16	16	32	46	46	46
24	15	4.8	4.6	4.3	4.4	4.8	16	16	36	45	46	46
25	16	4.8	4.6	4.3	5.3	4.7	16	16	42	45	46	46
26	16	4.8	4.6	4.3	5.2	4.8	16	16	43	44	46	47
27	13	4.8	4.5	4.3	5.1	4.9	16	16	45	44	46	46
28	16	4.8	4.6	4.3	5.0	5.0	15	16	45	44	46	47
29	14	4.8	4.6	4.3	---	5.4	15	15	43	44	60	50
30	15	4.8	4.5	4.3	---	5.3	16	15	44	44	84	51
31	15	---	4.5	4.3	---	5.0	---	15	---	45	84	---
TOTAL	472	154.8	144.5	135.1	128.2	163.1	1380.3	491	824	1554	1518	1497
MEAN	15.2	5.16	4.66	4.36	4.58	5.26	46.0	15.8	27.5	50.1	49.0	49.9
MAX	18	11	5.2	4.5	5.3	6.7	482	21	45	68	84	85
MIN	13	2.5	4.5	4.2	4.0	4.7	4.9	15	15	41	46	44
CAL YR 1976	TOTAL	4285.5	MEAN 11.7	MAX 34	MIN 2.5							
WTR YR 1977	TOTAL	8462.0	MEAN 23.2	MAX 482	MIN 2.5							

DELAWARE RIVER BASIN

01437500 NEVERSINK RIVER AT GODEFFROY, NY

LOCATION.--Lat 41°26'28", long 74°36'07", Orange County, Hydrologic Unit 02040104, on right bank just upstream from highway bridge on Graham Road, 0.5 mi (0.8 km) downstream from Basher Kill, 0.8 mi (1.3 km) southeast of Godeffroy, 1.7 mi (2.7 km) south of Cuddebackville, and 8.5 mi (13.7 km) upstream from mouth.

DRAINAGE AREA.--302 mi² (782 km²).

PERIOD OF RECORD.--August to October 1903, August 1909 to April 1914 (gage heights and discharge measurements, also twice-daily figures of discharge for January 1911 to December 1912, which do not represent daily mean discharges because of diurnal fluctuation), and July 1937 to current year. August to October 1903, published as "Navesink River at Godeffroy, NY."

REVISED RECORDS.--WSP 821: Drainage area. WSP 1502: 1951(M).

GAGE.--Water-stage recorder. Datum of gage is 459.66 ft (140.104 m) above mean sea level (levels by Corps of Engineers). Prior to Apr. 30, 1914, nonrecording gages at same site (August to October 1903 at datum 0.98 ft or 0.299 m higher).

REMARKS.--Records good except those for winter periods, which are poor. Prior to 1949, diurnal fluctuation at low and medium flow caused by powerplant at Cuddebackville. Subsequent to June 1953, entire flow from 91.8 mi² (237.8 km²) of drainage area controlled by Neversink Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill), impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,000 ft³/s (935 m³/s) Aug. 19, 1955, gage height, 12.49 ft (3.087 m), from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of slope-area measurement of peak flow; practically no flow several times in July 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,020 ft³/s (199 m³/s) Mar. 14, gage height, 8.29 ft (2.527 m); minimum, 92 ft³/s (2.61 m³/s) July 25, gage height, 2.75 ft (0.838 m).

CORRECTIONS: The minimum discharge for the water year 1976 is 114 ft³/s (3.23 m³/s) July 29, superseding the figures published in the 1976 report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	325	912	180	150	96	440	1610	443	125	122	99	125
2	300	708	190	140	96	700	1350	408	127	114	149	127
3	540	623	180	140	94	620	2520	396	122	112	135	129
4	622	702	180	140	94	700	1730	350	114	111	125	121
5	510	658	170	130	94	1460	1880	719	109	108	120	103
6	437	653	170	130	94	1590	1980	775	109	108	111	121
7	402	630	500	120	94	1180	2020	639	122	109	112	106
8	384	581	650	120	96	485	1500	557	122	114	121	105
9	1560	525	526	120	96	889	1150	595	140	120	114	98
10	1880	492	450	120	96	955	929	735	390	109	108	98
11	1160	468	430	120	98	1020	806	616	262	106	114	97
12	938	431	400	110	110	1010	702	516	196	108	109	96
13	775	401	350	110	130	2180	623	455	173	112	114	96
14	703	379	300	110	150	5300	558	408	154	109	114	112
15	662	360	270	110	130	2670	497	350	154	111	116	118
16	583	339	260	110	120	1880	443	319	152	116	109	116
17	546	318	240	110	110	1460	402	295	140	143	129	199
18	479	303	230	110	100	1180	378	271	140	152	170	167
19	426	291	220	110	100	1030	350	257	156	133	133	147
20	432	279	200	100	100	879	324	248	135	125	121	162
21	1530	264	200	100	100	767	300	224	129	123	114	192
22	1000	251	190	100	110	1020	280	214	125	116	114	154
23	806	237	180	100	120	1390	285	199	120	112	112	135
24	727	230	180	100	120	1150	767	185	114	100	109	170
25	863	219	170	100	300	955	1250	170	111	100	109	1200
26	1190	212	170	98	900	846	767	162	125	108	108	1460
27	982	214	160	98	840	805	782	152	122	100	105	1200
28	818	214	160	98	920	895	670	145	118	96	103	686
29	722	241	160	98	---	1220	558	138	118	96	102	497
30	641	240	160	98	---	2180	491	133	143	94	102	396
31	839	---	150	96	---	2310	---	129	---	96	121	---
TOTAL	23982	12375	8176	3496	5508	42467	27902	11203	4367	3483	3622	8533
MEAN	774	413	264	113	197	1370	930	361	146	112	117	284
MAX	1880	912	850	150	920	5300	2520	775	390	152	170	1460
MIN	300	212	150	96	94	620	280	129	109	94	99	96
CAL YR 1976	TOTAL	168671	MEAN	461	MAX	3970	MIN	123				
WTR YR 1977	TOTAL	155114	MEAN	425	MAX	5300	MIN	94				

01438500 DELAWARE RIVER AT MONTAGUE, NJ

LOCATION.--Lat 41°18'33", long 74°47'44", Sussex County, Hydrologic Unit 02040104, on right bank 0.4 mi (0.6 km) upstream from toll bridge at Montague, 0.8 mi (1.3 km) downstream from Sawkill Creek, and at mile 246.3 (396.3 km). Water-quality samples collected from toll bridge.

DRAINAGE AREA.--3,480 mi² (9,013 km²).

PERIOD OF RECORD.--

WATER DISCHARGE: Water years 1936 to September 1939 (gage heights only, published as "at Milford, PA). Water years 1939 to current year. Monthly discharge only for some periods, published in WSP 1302.

CHEMICAL ANALYSES: Water years 1956-73, 1976 to current year.

PERIOD OF DAILY RECORD.--

WATER DISCHARGE: October 1939 to current year.

WATER TEMPERATURES: October 1956 to September 1957.

GAGE.--Water-stage recorder. Datum of gage is 369.93 ft (112.755 m) NGVD. Prior to Feb. 9, 1940, nonrecording gage on upstream side of left span of subsequently dismantled bridge at present site at datum 70 ft (21.3 m) lower.

REMARKS.--Discharge records excellent except those for December, January, and February, which are good. Diurnal fluctuations at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, and Neversink Reservoirs (see Delaware River Basin, reservoirs in) and smaller reservoirs. Diversion from Pepacton, Cannonsville, and Neversink Reservoirs (see Delaware River Basin, diversions).

COOPERATION.--Field data and samples for laboratory analyses supplied by New Jersey Department of Environmental Protection, Division of Water Resources. Analyses of fecal coliform and fecal streptococci by the MPN method were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

AVERAGE DISCHARGE.--38 years, 5,912 ft³/s (167.4 m³/s), unadjusted.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87,500 ft³/s (2,478 m³/s) Mar. 14, gage height, 20.53 ft (6.258 m); minimum daily, 900 ft³/s (25.5 m³/s) Feb. 3.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 250,000 ft³/s (7,080 m³/s) Aug. 19, 1955 (gage height, 35.15 ft or 10.714 m), from rating curve extended above 90,000 ft³/s (2,550 m³/s) on basis of flood-routing study; minimum, 382 ft³/s (10.8 m³/s) Aug. 24, 1954, gage height, 3.83 ft (1.167 m); minimum daily, 412 ft³/s (11.7 m³/s) Aug. 23, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage during period 1903-77, 35.5 ft (10.82 m) Oct. 10, 1903, present datum, from floodmark.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2970	13000	2800	2100	1700	14000	34800	7690	1410	2070	1910	1910
2	2560	11200	2400	2000	1050	10500	26000	7000	1370	1870	2410	1600
3	2120	9760	2500	2400	900	4000	32600	7020	1340	1290	2340	1810
4	3210	9630	2600	2700	1100	8000	26400	5960	1400	1640	1940	1520
5	3210	9700	1700	2500	1600	20000	23300	7080	1570	1610	1860	1630
6	2760	9120	2300	2100	2200	23000	23400	11400	1620	1920	1610	1760
7	2210	8250	4800	2700	2400	17000	20500	9680	1610	2140	1660	2170
8	2300	7810	9000	2900	3000	12600	17300	7810	1440	1870	1860	1900
9	9320	7710	9720	2900	2800	10400	15000	7720	1640	1940	2430	1750
10	39500	6880	7640	2200	2300	10500	13100	9180	3160	1490	2050	1830
11	18400	6490	5900	3100	2300	12700	11800	8890	3000	1560	1850	1420
12	11500	6190	5200	3000	2200	14300	10300	8770	2230	1950	1750	1390
13	8930	5680	5100	3000	2200	21200	9260	8670	1610	2080	1570	1850
14	7900	5030	4800	2900	1750	76100	8420	8210	1840	2160	1660	1610
15	7740	4940	3800	2600	2400	50400	7780	7060	1680	2430	1650	1700
16	6250	4880	3500	1700	3200	32600	6450	6800	1650	1680	2080	2020
17	5300	4820	3700	2500	3200	23900	4810	5750	1700	2040	2100	2610
18	5140	4260	3300	3200	2500	18500	4720	5000	1870	1980	1660	4500
19	5040	3740	2700	2900	2100	16300	4590	5360	1990	3000	1700	2990
20	4630	3620	2800	2700	2000	13000	4340	5070	2010	2790	1930	3530
21	17700	3680	3000	2500	2000	11100	3640	4530	2770	3010	1520	9090
22	26300	3440	3800	2500	1800	12800	3330	3410	2480	2410	1630	8040
23	17100	3580	3500	2500	2000	18100	3410	3110	2190	1220	1950	5900
24	12900	3400	2500	1900	2000	15900	5560	3010	2040	1660	2190	4660
25	12800	3090	2300	2600	6000	13300	19000	3030	2190	1480	1980	12300
26	15300	2480	2200	2200	11000	11200	17500	2730	2040	1370	1950	29000
27	14600	2480	2700	1900	11000	9770	15200	1940	1580	1180	1190	32700
28	11900	2220	3100	2000	12000	10800	13600	1580	2130	1520	1340	17300
29	10400	2600	3200	1500	---	13900	11100	1380	2170	1730	1400	11400
30	9290	3350	2600	1100	---	30800	9240	1310	2030	1760	2230	8780
31	8840	---	2300	1250	---	40700	---	1320	---	1760	1600	---
TOTAL	308120	173030	116960	74050	90700	602370	406450	177470	57800	58660	57300	180330
MEAN	9939	5768	3773	2389	3239	19430	13550	5725	1827	1842	1848	6011
MAX	39500	13000	9720	3200	12000	76100	34800	11400	3160	3010	2430	32700
MIN	2120	2220	1700	1100	900	8000	3330	1310	1340	1180	1190	1390
CAL YR 1976	TOTAL	2460820	MEAN	6724	MAX	56000	MIN	1590				
WTR YR 1977	TOTAL	2303240	MEAN	6310	MAX	76100	MIN	900				

(NOTE: WATER-QUALITY DATA FOR THIS STATION ARE NOT PUBLISHED IN THIS REPORT: THEY ARE PUBLISHED IN THE SERIES "WATER RESOURCES DATA FOR NEW JERSEY.")

RESERVOIRS IN DELAWARE RIVER BASIN

01416900 PEPACTON RESERVOIR.--Lat 42°04'38", long 74°58'04", Delaware County, Hydrologic Unit 02040102, near release chamber at Downsview Dam on East Branch Delaware River, and 1.6 mi (2.6 km) east of Downsview, N.Y. DRAINAGE AREA, 371 mi² (961 km²). PERIOD OF RECORD, September 1954 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam. Storage began Sept. 15, 1954. Usable capacity 140,190 mil gal (530.6 hm³) between minimum operating level, elevation, 1,152.0 ft (351.13 m) and crest of spillway, elevation, 1,280.0 ft (390.14 m). Capacity: at crest of spillway 149,700 mil gal (566.6 hm³); at minimum operating level, 9,609 mil gal (36.37 hm³); at sill of diversion tunnel, elevation, 1,143.0 ft (348.39 m), 6,098 mil gal (23.08 hm³); in dead storage below release outlet, elevation, 1,126.50 ft (343.357 m), 1,898 mil gal (7.184 hm³). Figures given herein represent total contents. Reservoir impounds water for diversion through East Delaware Tunnel to Rondout Reservoir on Rondout Creek, in Hudson River basin (see elsewhere in this section), for water supply to City of New York; for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master; and for conservation release. No diversion prior to Jan. 6, 1955. Records furnished by Board of Water Supply and Department of Water Resources, City of New York.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 154,027 mil gal (583.0 hm³) Apr. 5, 1960, elevation, 1,282.27 ft (390.836 m); minimum observed (after first filling), 9,575 mil gal (36.24 hm³) Dec. 26, 1964, elevation, 1,151.92 ft (351.105 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 153,145 mil gal (579.7 hm³) Mar. 31, elevation, 1,281.80 ft (390.693 m); minimum, 103,076 mil gal (390.1 hm³) Sept. 16, elevation, 1,251.98 ft (381.604 m).

01424997 CANNONSVILLE RESERVOIR.--Lat 42°03'46", long 75°22'29", Delaware County, Hydrologic Unit 02040101, in emergency gate tower at Cannonsville Dam on West Branch Delaware River, and 1.8 mi (2.9 km) southeast of Stilesville, N.Y. DRAINAGE AREA, 454 mi² (1,176 km²). PERIOD OF RECORD, October 1963 to current year. REVISED RECORDS, WRD NY 1972: 1966. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam. Storage began Sept. 30, 1963. Usable capacity 95,706 mil gal (362.2 hm³) between minimum operating level, elevation, 1,040.0 ft (316.99 m) and crest of spillway, elevation, 1,150.0 ft (350.52 m). Capacity, at crest of spillway, 98,618 mil gal (373.3 hm³); at minimum operating level, 2,912 mil gal (11.02 hm³); at mouth of inlet channel to diversion tunnel, elevation, 1,035.0 ft (315.47 m), 1,892 mil gal (7.161 hm³); in dead storage below release outlet elevation, 1,020.5 ft (311.05 m), 328 mil gal (1.241 hm³). Figures given herein represent total contents. Impounded water is diverted for New York City water supply via West Delaware Tunnel to Rondout Reservoir in Hudson River basin (see elsewhere in this section); is released in Delaware River for downstream low flow augmentation, as directed by the Delaware River Master; and is released for conservation flow in the Delaware River. No diversion prior to January 29, 1964. Records furnished by Board of Water Supply, City of New York.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 108,116 mil gal (409.2 hm³) Mar. 15, 1977, elevation, 1,155.85 ft (352.303 m); minimum observed (after first filling), 11,901 mil gal (45.05 hm³) Nov. 7, 1968, elevation, 1,066.24 ft (324.990 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 108,116 mil gal (409.2 hm³) Mar. 15, elevation, 1,155.85 ft (352.303 m); minimum, 52,813 mil gal (199.9 hm³) Sept. 17, elevation, 1,115.74 ft (340.078 m).

01433000 SWINGING BRIDGE RESERVOIR.--Lat 41°34'25", long 74°47'00", Sullivan County, Hydrologic Unit 02040104, at dam on Mongaup River, and 1.8 mi (2.9 km) northwest of Fowlersville, N.Y. DRAINAGE AREA, 118 mi² (306 km²) excluding Cliff Lake, Lebanon Lake, and Toronto Reservoir. PERIOD OF RECORD, January 1930 to current year. REVISED RECORDS, WSP 1552: 1951-54. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level, 1,010 ft (308 m).

Reservoir is formed by an earthfill dam. Storage began Jan. 19, 1930. Usable capacity, 1,436.6 mil ft³ (40.7 hm³) between elevations 1,010.0 ft (307.85 m), minimum operating pool, and 1,071.2 ft (326.50 m), top of flashboards. Capacity below elevation 1,010.0 ft (307.85 m), minimum operating pool, about 212.7 mil ft³ (6.02 hm³). Reservoir is used for storage of water for power. Figures given herein represent contents above 1,010.0 ft (307.85 m). Water is received from Cliff Lake, Lebanon Lake, and Toronto Reservoir. Records furnished by Orange and Rockland Utilities, Inc.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 1,461.6 mil ft³ (41.4 hm³) Mar. 14, 1977, elevation, 1,071.8 ft (326.68 m); minimum (after first filling), 141.4 mil ft³ (4.00 hm³) Dec. 2, 1938, elevation, 987.5 ft (300.99 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 1,461.6 mil ft³ (41.4 hm³) Mar. 14, elevation, 1,071.8 ft (326.68 m); minimum, 834.9 mil ft³ (23.6 hm³) Jan. 26, elevation, 1,054.7 ft (321.47 m).

01433100 TORONTO RESERVOIR.--Lat 41°37'15", long 74°49'55", Sullivan County, Hydrologic Unit 02040104, at dam on Black Lake Creek, and 2.5 mi (4.0 km) southeast of village of Black Lake, N.Y. DRAINAGE AREA, 23.2 mi² (60.1 km²). PERIOD OF RECORD, January 1926 to current year. REVISED RECORDS, WSP 1552: 1951-54. WSP 1702: 1959 (M). GAGE, nonrecording gage. Datum of gage is at mean sea level (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level, 1,165.0 ft (355.09 m).

Reservoir is formed by an earthfill dam completed July 24, 1926. Storage began Jan. 13, 1926. Usable capacity 1,098.2 mil ft³ (31.1 hm³) between elevations 1,165.0 ft (355.09 m), minimum operating pool, and 1,220.0 ft (371.86 m), top of permanent flashboards. Capacity below elevation 1,165.0 ft (355.09 m), minimum operating pool, about 26.8 mil ft³ (0.759 hm³). Reservoir is used for storage of water for power. Figures given herein represent contents above 1,165.0 ft (355.09 m). Records furnished by Orange and Rockland Utilities, Inc.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 1,171.2 mil ft³ (33.2 hm³) July 20, 1945, elevation, 1,222.0 ft (372.47 m); minimum observed (after first filling), 26.8 mil ft³ (0.759 hm³) Nov. 15, 1928, elevation, 1,144.5 ft (348.84 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 971.4 mil ft³ (27.5 hm³) June 29, July 5, elevation, 1216.3 ft (370.73 m); minimum observed, 208.1 mil ft³ (5.89 hm³) Dec. 27, elevation, 1,184.8 ft (361.13 m).

01433200 CLIFF LAKE.--Lat 41°35'00", long 74°47'40", Sullivan County, Hydrologic Unit 02040104, at dam on Black Lake Creek, and 2.5 mi (4.0 km) northwest of Fowlersville, N.Y. DRAINAGE AREA, 6.46 mi² (16.7 km²), excluding area above Toronto Reservoir. PERIOD OF RECORD, January 1939 to current year. REVISED RECORDS, WSP 1552: 1951-54. WDR NY-75-1: 1974(m). GAGE, nonrecording gage. Datum of gage is at mean sea level (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level, 1,043.3 ft (318.00 m).

Reservoir is formed by a concrete gravity-type dam. Storage began Jan. 6, 1939. Usable capacity, 136.06 mil ft³ (3.85 hm³) between elevations 1,043.3 ft (318.00 m), minimum operating pool, and 1,072.0 ft (326.75 m), top of permanent flashboards. Capacity below elevation 1,043.3 ft (318.00 m), minimum operating pool, about 6.54 mil ft³ (0.185 hm³). Reservoir is used for storage of water for power. Water is received from Toronto and Lebanon Lake reservoirs and is discharged through a tunnel into Swinging Bridge Reservoir. Figures given herein represent contents above 1,043.3 ft (318.00 m). Records furnished by Orange and Rockland Utilities, Inc.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 145.44 mil ft³ (4.12 hm³) July 30, 31, 1945, elevation, 1,073.1 ft (327.08 m); minimum observed (after first filling), about 6.54 mil ft³ (0.185 hm³) Mar. 16, 1963, elevation, 1,038.0 ft (316.38 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 127.8 mil ft³ (3.62 hm³) Mar. 16, elevation, 1,071.0 ft (326.44 m); minimum observed, 30.3 mil ft³ (0.858 hm³) Jan. 26, elevation, 1,054.6 ft (321.44 m).

DELAWARE RIVER BASIN

207

RESERVOIRS IN DELAWARE RIVER BASIN--Continued

01435900 NEVERSINK RESERVOIR.--Lat 41°49'40", long 74°38'21", Sullivan County, Hydrologic Unit 02040104, at a gate-house at Neversink Dam on Neversink River, and 2 mi (3 km) southwest of Neversink, N.Y. DRAINAGE AREA, 91.8 mi² (238 km²). PERIOD OF RECORD, June 1953 to current year. GAGE, nonrecording gage read daily at 0900. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam. Storage began June 2, 1953. Usable capacity 34,941 mil gal (132.25 hm³) between minimum operating level, elevation, 1,319.0 ft (402.03 m) and crest of spillway, elevation, 1,440.0 ft (438.91 m). Capacity at crest of spillway 37,146 mil gal (140.6 hm³); at minimum operating level, 2,205 mil gal (8.35 hm³); dead storage below diversion sill and outlet sill, elevation 1,314.0 ft (400.51 m), 1,680 mil gal (6.36 hm³). Figures given herein represent total contents. Reservoir impounds water for diversion through Neversink-Grahamsville Tunnel to Rondout Reservoir on Rondout Creek, in Hudson River basin, for water supply of City of New York (see elsewhere in this section); for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master; and for conservation release. No diversion prior to Dec. 3, 1953. Records furnished by Board of Water Supply and Department of Water Resources, City of New York.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 37,978 mil gal (143.7 hm³) Apr. 25, 1961, elevation, 1,441.67 ft (439.421 m); minimum observed (after first filling), 1,985 mil gal (7.513 hm³) Nov. 25, 1964, elevation, 1,316.98 ft (401.415 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 37,424 mil gal (141.6 hm³) Apr. 7, elevation, 1,440.56 ft (439.083 m); minimum observed, 15,114 mil gal (57.21 hm³) Sept. 20, elevation, 1,383.78 ft (421.776 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)
01416900 Pepacton Reservoir ‡				01424997 Cannonsville Reservoir ‡			01433000 Swinging Bridge Reservoir †		
Sept. 30	1,262.54	119,541		1,145.99	92,518		1,063.5	1,136	
Oct. 31	1,267.95	128,510	+ 448	1,151.62	101,225	+ 435	1,066.4	1,245	+ 40.8
Nov. 30	1,266.92	126,774	- 89.5	1,150.33	99,149	- 107	1,060.6	1,031	- 82.3
Dec. 31	1,265.60	124,570	- 110	1,149.95	98,542	- 30.3	1,063.5	1,136	+ 38.9
CAL YR 1976	-	-	- 97.7	-	-	- 7.47	-	-	+ 3.0
Jan. 31	1,259.01	113,881	- 534	1,147.71	95,134	- 170	1,055.8	870	- 99.2
Feb. 28	1,256.76	110,354	- 195	1,142.06	86,763	- 463	1,061.4	1,060	+ 78.4
Mar. 31	1,281.50	152,585	+2,110	1,153.97	105,008	+ 911	1,066.0	1,229	+ 63.4
Apr. 30	1,280.32	150,392	- 113	1,151.58	101,161	- 198	1,067.6	1,291	+ 24.0
May 31	1,278.77	147,539	- 142	1,149.44	97,766	- 169	1,065.5	1,210	- 30.3
June 30	1,272.58	136,475	- 571	1,142.03	86,720	- 570	1,065.5	1,210	0
July 31	1,264.28	122,386	- 703	1,128.42	68,244	- 922	1,062.2	1,088	- 45.6
Aug. 31	1,265.44	109,858	- 625	1,121.61	59,749	- 424	1,060.5	1,028	- 22.5
Sept. 30	1,263.67	121,384	+ 594	1,136.85	79,435	+1,020	1,067.2	1,276	+ 95.6
WTR YR 1977	-	-	+ 7.81	-	-	- 55.5	-	-	+ 4.4
Date	Elevation (feet)	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)
01433100 Toronto Reservoir †				01433200 Cliff Lake †			01435900 Neversink Reservoir ‡		
Sept. 30	1,196.0	422		1,067.0	97.2		1,402.96	21,397	
Oct. 31	1,197.4	454	+ 11.9	1,066.7	95.1	- 0.8	1,418.65	27,480	+304
Nov. 30	1,195.8	418	- 14.0	1,064.8	82.4	- 4.9	1,417.06	26,826	- 33.7
Dec. 31	1,185.0	211	- 77.1	1,064.0	77.3	- 1.9	1,409.35	23,774	-152
CAL YR 1976	-	-	- 10.2	-	-	+ 0.3	-	-	+ 9.62
Jan. 31	1,186.7	240	+ 10.6	1,055.2	32.5	- 16.7	1,398.95	19,976	-190
Feb. 28	1,189.7	293	+ 21.9	1,061.1	59.9	+ 11.3	1,395.36	18,752	- 67.6
Mar. 31	1,205.5	658	+136	1,066.5	93.7	+ 12.6	1,434.82	34,639	+793
Apr. 30	1,213.5	883	+ 86.8	1,068.7	110	+ 6.1	1,438.10	36,213	+ 81.2
May 31	1,216.0	961	+ 29.3	1,065.5	87.0	- 8.4	1,436.58	35,478	- 36.7
June 30	1,216.3	971	+ 3.9	1,065.4	86.3	- 0.3	1,429.77	32,296	-164
July 31	1,209.8	775	- 73.3	1,063.3	72.9	- 5.0	1,412.12	24,849	-372
Aug. 31	1,201.1	544	- 86.4	1,064.5	80.5	+ 2.8	1,394.45	18,450	-319
Sept. 30	1,195.2	404	- 53.7	1,067.8	103	+ 8.6	1,392.86	17,928	- 26.9
WTR YR 1977	-	-	- 0.6	-	-	+ 0.2	-	-	- 14.7

† Elevation at 2400 hours.

‡ Elevation at 0900 hours on first day of following month.

DELAWARE RIVER BASIN

RESERVOIRS IN DELAWARE RIVER BASIN--Continued

DIVERSIONS FROM DELAWARE RIVER BASIN

01415200 Diversion from Pepacton Reservoir (see preceding pages) on East Branch Delaware River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Jan. 6, 1955. Records furnished by Board of Water Supply and Department of Water Resources, City of New York. REVISED RECORDS, WRD NY 1972: 1970.

014239000 Diversion from Cannonsville Reservoir (see preceding pages) on West Branch Delaware River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Jan. 29, 1964. Records furnished by Board of Water Supply, City of New York.

01435800 Diversion from Neversink Reservoir (see preceding pages) on Neversink River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Dec. 3, 1953. Records furnished by Board of Water Supply and Department of Water Resources, City of New York.

DIVERSION, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Month	01415200 <u>Pepacton Reservoir</u>	01423900 <u>Cannonsville Reservoir</u>	01435800 <u>Neversink Reservoir</u>
October.....	697	191	511
November.....	650	56.2	252
December.....	695	284	156
CAL YR 1976	680	136	294
January.....	696	286	73.3
February.....	688	447	78.9
March.....	417	337	686
April.....	448	39.8	544
May.....	682	159	287
June.....	695	234	100
July.....	690	162	66.3
August.....	696	16.1	56.5
September.....	648	347	250
WTR YR 1977	642	212	256

SUSQUEHANNA RIVER BASIN

209

01496450 CANADARAGO LAKE AT SCHUYLER LAKE, NY

LOCATION.--Lat 42°46'50", long 75°01'07", Otsego County, Hydrologic Unit 02050101, on right bank 10 ft (3 m) upstream from Panther Mountain Dam, 300 ft (91 m) downstream from bridge on County Road 22, and 0.6 mi (1.0 km) east of Schuyler Lake.

DRAINAGE AREA.--65.0 mi² (168 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

REMARKS.--Area of water surface, 2.96 mi² (7.67 km²).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,283.81 ft (391.305 m) Mar. 15, 1977; minimum, 1,278.02 ft (389.540 m) Nov. 6, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,283.81 ft (391.305 m) Mar. 15; minimum, 1,278.22 ft (389.601 m) Feb. 9.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1279.30	1280.60	1278.73	1278.62	1279.27	1278.67	1282.27	1280.21	1278.90	1279.04	1278.99	1279.12
2	1279.29	1280.50	1278.71	1278.60	1278.25	1278.70	1282.14	1280.07	1278.94	1279.02	1279.00	1278.70
3	1279.29	1280.39	1278.70	1278.58	1278.24	1278.73	1282.08	1279.95	1278.96	1279.00	1278.98	1278.70
4	1279.28	1280.30	1278.66	1278.57	1278.25	1278.80	1281.95	1279.80	1278.94	1278.98	1278.96	1278.67
5	1279.27	1280.21	1278.66	1278.55	1278.25	1279.15	1281.78	1279.71	1278.93	1278.99	1278.96	1278.63
6	1279.25	1280.11	1278.65	1278.53	1278.24	1279.29	1281.63	1279.61	1278.92	1279.00	1278.97	1278.61
7	1279.25	1280.00	1278.79	1278.52	1278.24	1279.32	1281.43	1279.49	1278.93	1279.00	1278.97	1278.58
8	1279.27	1279.89	1278.91	1278.50	1278.23	1279.34	1281.24	1279.35	1278.91	1279.01	1278.96	1278.55
9	1279.56	1279.77	1278.90	1278.49	1278.23	1279.42	1281.02	1279.39	1278.92	1279.01	1278.97	1278.52
10	1279.99	1279.65	1278.93	1278.47	1278.24	1279.81	1280.84	1279.44	1279.02	1279.01	1278.97	1278.49
11	1280.06	1279.56	1278.97	1278.47	1278.23	1280.38	1280.67	1279.53	1279.02	1278.99	1279.09	1278.46
12	1280.05	1279.45	1278.96	1278.46	1278.24	1280.90	1280.52	1279.52	1279.01	1279.00	1279.09	1278.42
13	1280.02	1279.37	1278.96	1278.44	1278.25	1281.98	1280.39	1279.48	1279.02	1279.04	1279.07	1278.41
14	1280.21	1279.27	1278.92	1278.44	1278.25	1283.42	1280.28	1279.40	1279.01	1279.07	1279.05	1278.55
15	1280.34	1279.19	1278.90	1278.43	1278.26	1283.77	1280.16	1279.31	1279.02	1279.07	1279.05	1278.61
16	1280.41	1279.12	1278.87	1278.42	1278.25	1283.56	1280.02	1279.22	1279.00	1279.07	1279.01	1278.65
17	1280.36	1279.05	1278.85	1278.40	1278.25	1283.25	1279.87	1279.15	1278.98	1279.06	1279.05	1278.80
18	1280.27	1279.00	1278.82	1278.38	1278.25	1282.89	1279.72	1279.07	1279.01	1279.06	1279.04	1278.95
19	1280.15	1278.95	1278.79	1278.37	1278.26	1282.52	1279.59	1278.99	1279.06	1279.05	1279.02	1279.48
20	1280.09	1278.93	1278.77	1278.37	1278.28	1282.18	1279.44	1278.94	1279.05	1279.06	1279.00	1280.37
21	1280.83	1278.89	1278.83	1278.37	1278.28	1281.89	1279.31	1278.91	1279.07	1279.05	1278.97	1281.27
22	1281.12	1278.84	1278.86	1278.35	1278.27	1281.65	1279.21	1278.86	1279.06	1279.04	1279.01	1281.44
23	1281.12	1278.81	1278.81	1278.34	1278.28	1281.52	1279.21	1278.82	1279.05	1278.98	1279.03	1281.42
24	1281.07	1278.78	1278.78	1278.33	1278.29	1281.26	1279.78	1278.79	1279.03	1278.95	1279.03	1281.37
25	1281.07	1278.75	1278.75	1278.33	1278.38	1281.03	1280.48	1278.76	1279.04	1279.02	1279.02	1281.56
26	1281.08	1278.73	1278.75	1278.31	1278.45	1280.83	1280.66	1278.72	1279.10	1279.08	1279.01	1281.71
27	1280.98	1278.74	1278.72	1278.30	1278.51	1280.64	1280.67	1278.83	1279.09	1279.06	1279.00	1281.98
28	1280.85	1278.76	1278.71	1278.28	1278.62	1280.50	1280.60	1278.91	1279.07	1279.04	1278.99	1281.91
29	1280.72	1278.78	1278.68	1278.28	---	1280.71	1280.49	1278.91	1279.07	1279.01	1279.01	1281.79
30	1280.59	1278.76	1278.65	1278.29	---	1281.44	1280.35	1278.91	1279.06	1279.01	1279.14	1281.58
31	1280.59	---	1278.63	1278.29	---	1282.12	---	1278.91	---	1279.00	1279.18	---
MEAN	1280.18	1279.37	1278.79	1278.42	1279.29	1280.96	1280.59	1279.26	1279.01	1279.02	1279.02	1279.71
MAX	1281.12	1280.60	1278.97	1278.62	1278.62	1283.77	1282.27	1280.21	1279.10	1279.08	1279.18	1281.98
MIN	1279.25	1278.73	1278.63	1278.28	1278.23	1278.67	1279.21	1278.72	1278.90	1278.95	1278.96	1278.41
CAL YR 1976	MEAN	1279.55	MAX	1282.18	MIN	1278.52						
WTR YR 1977	MEAN	1279.39	MAX	1283.77	MIN	1278.23						

SUSQUEHANNA RIVER BASIN

01496500 OAKS CREEK AT INDEX, NY

LOCATION.--Lat 42°39'56", long 74°57'36", Otsego County, Hydrologic Unit 02050101, on right bank 200 ft (61 m) upstream from bridge on State Highway 28 at Index, 0.5 mi (0.8 km) upstream from mouth, and 3 mi (5 km) southwest of Cooperstown.

DRAINAGE AREA.--102 mi² (264 km²).

PERIOD OF RECORD.--November 1929 to September 1932, March 1937 to current year.

REVISED RECORDS.--WRD NY 1968: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,174.50 ft (357.988 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 30, 1932, nonrecording gage at different datum.

REMARKS.--Records good except those for winter periods, which are fair. Prior to June 1964, flow regulated by natural storage in Canadarago Lake, thereafter by dam at outlet.

AVERAGE DISCHARGE.--42 years (1930-32, 1937-77), 172 ft³/s (4.871 m³/s), 22.90 in/yr (582 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft³/s (72.2 m³/s) Jan. 22, 1959, gage height, 6.87 ft (2.094 m); maximum gage height, 7.08 ft (2.158 m) Mar. 13, 1977 (ice jam); minimum discharge, 1.3 ft³/s (0.037 m³/s) Aug. 4, 5, 1962, gage height, 1.79 ft (0.546 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s (25.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 21	1530	998 28.3	5.07 1.545	Apr. 25	0230	990 28.0	5.06 1.542
Mar. 13	1615	ice jam	*7.08 2.158	Sept. 20	1630	1,360 38.5	5.52 1.682
Mar. 14	1200	*2,390 67.7	6.69 2.039	Sept. 26	2200	945 26.8	5.00 1.524
Mar. 31	1230	1,400 39.6	5.57 1.698				

Minimum discharge, 13 ft³/s (0.37 m³/s) July 24, 25, Aug. 4, 5, gage height, 2.30 ft (0.701 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	409	100	88	38	187	1060	368	25	25	17	42
2	60	372	96	86	37	179	921	345	30	22	16	95
3	59	358	92	82	37	175	905	328	27	21	15	123
4	56	348	92	80	36	200	800	304	24	19	14	100
5	54	334	100	80	36	393	726	308	22	20	14	90
6	52	323	110	74	36	412	668	287	21	22	15	85
7	49	311	178	70	36	354	595	263	21	23	16	80
8	60	295	226	66	37	322	539	242	21	24	15	75
9	291	276	174	64	38	348	487	270	21	23	19	70
10	509	264	170	66	39	500	454	330	48	21	17	66
11	342	251	190	62	41	640	424	369	36	20	107	63
12	319	236	200	58	45	725	394	340	28	29	47	58
13	308	228	180	58	48	1460	372	309	26	23	43	58
14	396	217	170	62	53	2160	354	283	25	24	28	178
15	404	208	160	60	52	1880	334	261	24	24	26	135
16	410	197	150	56	50	1670	314	240	24	24	23	138
17	368	184	150	54	49	1490	294	222	23	24	37	247
18	347	177	140	54	48	1280	277	206	28	23	36	218
19	328	172	140	56	47	1110	259	202	47	21	25	384
20	333	169	130	58	46	933	241	174	33	20	23	847
21	771	158	120	56	46	791	225	164	33	20	20	840
22	611	148	100	52	45	694	212	150	31	19	32	587
23	533	140	100	50	46	567	234	137	27	17	39	521
24	495	133	100	49	49	583	520	128	25	14	28	505
25	514	126	110	47	102	517	758	122	32	31	26	609
26	523	125	110	46	131	475	549	112	51	43	23	734
27	464	140	100	44	139	444	492	91	38	25	21	767
28	432	137	98	43	183	437	457	37	32	21	20	619
29	406	120	96	42	---	668	425	28	30	19	19	571
30	382	110	92	41	---	1160	395	25	28	17	39	507
31	427	---	92	40	---	1330	---	24	---	17	42	---
TOTAL	10366	6666	4066	1844	1590	24084	14685	6669	881	695	862	9412
MEAN	334	222	131	59.5	56.8	777	490	215	29.4	22.4	27.8	314
MAX	771	409	226	88	183	2160	1060	369	51	43	107	847
MIN	49	110	92	40	36	175	212	24	21	14	14	42
CFSM	3.27	2.18	1.28	.58	.56	7.62	4.80	2.11	.29	.22	.27	3.08
IN.	3.78	2.43	1.48	.67	.58	8.78	5.36	2.43	.32	.25	.31	3.43

CAL YR 1976 TOTAL 93453 MEAN 255 MAX 1130 MIN 37 CFSM 2.50 IN 34.08
WTR YR 1977 TOTAL 81820 MEAN 224 MAX 2160 MIN 14 CFSM 2.20 IN 29.84

01499500 EAST SIDNEY LAKE AT EAST SIDNEY, NY

LOCATION.--Lat 42°19'40", long 75°13'42", Delaware County, Hydrologic Unit 02050101, at East Sidney Dam on Ouleout Creek, 0.3 mi (0.5 km) upstream from bridge on County Highway 44 at East Sidney, 4.4 mi (7.1 km) upstream from mouth, and 4.5 mi (7.2 km) east of Unadilla.

DRAINAGE AREA.--103 mi² (267 km²).

PERIOD OF RECORD.--November 1949 to September 1952 (monthly elevations and contents), October 1952 to current year. Prior to October 1970, published as "East Sidney Reservoir at East Sidney."

REVISED RECORDS.--WRD NY 1968: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

REMARKS.--Lake is formed by concrete dam and rockfill dike, completed by Corps of Engineers in June 1950; regulation of outflow began in November 1949; first used for flood regulation on Mar. 28, 1950. Useable capacity, 33,550 acre-ft (41.4 hm³) between elevations 1,115.0 ft or 339.85 m (sill of conduits) and 1,203.0 ft or 366.67 m (crest of spillway). Dead storage, 56 acre-ft (0.07 hm³). Discharge is controlled by the operation of five gates. Water is stored during high flows and released when downstream conditions warrant. Lake is used for flood control and recreation.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,194.4 ft (364.05 m) Apr. 6, 1960, contents, 25,100 acre-ft (30.9 hm³); minimum, 1,115.0 ft (339.85 m) Aug. 31, 1953, Sept. 7-26, Nov. 4, 1964, contents, 56 acre-ft (0.07 hm³).

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,183.53 ft (360.740 m) Mar. 16, contents, 16,762 acre-ft (20.7 hm³); minimum, 1,139.36 ft (347.277 m) Mar. 27, contents, 1,551 acre-ft (1.91 hm³).

Capacity table (elevation, in feet, and useable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1938)

1,135.0	1,080	1,160.0	5,910
1,140.0	1,630	1,170.0	9,610
1,145.0	2,360	1,180.0	14,610
1,150.0	3,280	1,190.0	21,370

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1150.76	1152.34	1145.23	1140.07	1140.33	1145.21	1176.11	1150.11	1150.56	1150.20	1150.58	1150.22
2	1150.21	1150.70	1142.32	1140.13	1140.34	1141.16	1178.61	1149.67	1150.60	1150.14	1150.85	1150.21
3	1149.28	1150.64	1140.03	1140.22	1140.35	1140.35	1179.78	1149.73	1150.43	1150.11	1150.94	1150.26
4	1148.86	1150.61	1140.13	1140.33	1140.36	1140.71	1178.04	1149.87	1150.32	1150.15	1150.88	1150.37
5	1148.90	1150.47	1140.73	1140.37	1140.41	1149.00	1173.43	1150.50	1150.22	1150.20	1150.79	1150.40
6	1148.93	1150.26	1141.14	1140.37	1140.42	1152.50	1166.79	1150.76	1150.13	1150.31	1150.77	1150.39
7	1148.94	1150.44	1142.06	1140.37	1140.41	1150.57	1158.34	1150.29	1150.20	1150.42	1150.79	1150.37
8	1149.31	1150.58	1140.54	1140.30	1140.33	1145.30	1147.58	1149.95	1150.25	1150.53	1150.89	1150.32
9	1156.35	1150.48	1140.07	1140.18	1140.23	1141.36	1141.13	1150.13	1150.28	1150.62	1151.01	1150.24
10	1168.82	1150.28	1141.13	1140.11	1140.20	1141.97	1140.79	1151.13	1150.56	1150.71	1150.79	1150.15
11	1170.60	1150.10	1141.80	1140.05	1140.19	1144.12	1140.54	1152.02	1150.61	1150.78	1150.91	1150.06
12	1164.61	1150.15	1141.52	1140.11	1140.27	1149.91	1140.20	1151.05	1150.44	1150.84	1150.85	1149.98
13	1156.65	1150.13	1140.40	1140.21	1140.35	1158.72	1140.32	1150.41	1150.22	1150.87	1150.49	1150.01
14	1153.21	1150.04	1140.19	1140.29	1140.71	1173.32	1140.34	1150.16	1150.18	1150.87	1150.33	1150.36
15	1151.14	1149.91	1140.79	1140.37	1140.68	1179.79	1140.23	1150.17	1150.23	1150.85	1150.19	1151.00
16	1150.36	1149.83	1140.76	1140.47	1140.29	1182.80	1140.26	1150.03	1150.26	1150.78	1150.18	1151.12
17	1150.33	1150.07	1140.56	1140.48	1140.13	1182.60	1140.14	1150.07	1150.28	1150.72	1150.47	1151.56
18	1150.32	1150.32	1140.28	1140.46	1140.15	1181.70	1139.98	1150.17	1150.47	1150.69	1151.00	1150.36
19	1150.74	1150.56	1139.74	1140.42	1140.22	1179.67	1140.12	1150.81	1150.69	1150.63	1150.87	1154.04
20	1150.92	1150.77	1140.10	1140.39	1140.30	1176.21	1140.16	1149.98	1150.79	1150.56	1150.58	1155.16
21	1158.44	1150.93	1141.09	1140.37	1140.36	1171.91	1140.17	1149.99	1150.79	1150.50	1150.30	1166.88
22	1165.21	1150.98	1140.26	1140.33	1140.29	1165.78	1140.42	1150.00	1150.75	1150.51	1150.32	1170.87
23	1162.76	1150.81	1140.22	1140.27	1140.34	1157.86	1140.82	1149.89	1150.66	1150.41	1150.58	1170.41
24	1154.95	1150.58	1140.30	1140.19	1140.46	1147.56	1146.56	1150.28	1150.54	1150.31	1150.69	1166.01
25	1150.64	1150.30	1140.17	1140.13	1145.94	1141.26	1154.88	1150.74	1150.41	1150.35	1150.77	1165.02
26	1150.76	1150.04	1140.19	1140.11	1146.40	1140.16	1156.60	1150.37	1150.45	1150.75	1150.78	1171.11
27	1150.51	1149.91	1140.14	1140.21	1142.96	1139.58	1152.80	1150.37	1150.45	1150.83	1150.72	1178.01
28	1150.65	1149.90	1140.33	1140.25	1146.57	1140.90	1149.79	1150.29	1150.35	1150.81	1150.64	1176.92
29	1150.53	1149.70	1140.66	1140.27	---	1147.09	1150.28	1150.23	1150.27	1150.75	1150.54	1171.89
30	1150.33	1148.14	1140.54	1140.30	---	1161.41	1150.39	1150.37	1150.27	1150.68	1150.43	1164.44
31	1151.31	---	1140.29	1140.33	---	1171.10	---	1150.48	---	1150.63	1150.33	---
MEAN	1153.72	1150.33	1140.76	1140.27	1141.07	1156.18	1150.85	1150.32	1150.42	1150.56	1150.65	1157.27
MAX	1170.60	1152.34	1145.23	1140.48	1146.57	1182.80	1179.78	1152.02	1150.79	1150.87	1151.01	1178.01
MIN	1148.86	1148.14	1139.74	1140.05	1140.13	1139.58	1139.98	1149.67	1150.13	1150.11	1150.18	1149.98
†	3,802	2,673	1,651	1,673	2,677	11,597	3,346	3,391	3,334	3,403	3,334	6,438
‡	+5.5	-19.0	-16.6	+0.4	+18.1	+145	-139	+0.7	-1.0	+1.1	-1.1	+52.2

CAL YR 1976 MEAN 1147.95 MAX 1179.81 MIN 1139.20 † -0.1
WTR YR 1977 MEAN 1149.41 MAX 1182.80 MIN 1139.58 ‡ +4.1

† Contents, in acre-feet, at end of month.

‡ Change in contents, equivalent in cubic feet per second.

SUSQUEHANNA RIVER BASIN

01500000 OULEOUT CREEK AT EAST SIDNEY, NY

LOCATION.--Lat 42°20'00", long 75°14'07", Delaware County, Hydrologic Unit 02050101, on right bank 0.2 mi (0.3 km) downstream from bridge on County Highway 44, 0.4 mi (0.6 km) downstream from East Sidney Dam, at East Sidney, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--103 mi² (267 km²).

PERIOD OF RECORD.--August 1940 to current year.

REVISED RECORDS.--WRD NY 1968: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,086.31 ft (331.107 m) above mean sea level (levels by Corps of Engineers). Prior to June 13, 1947, water-stage recorder at site 0.5 mi (0.8 km) upstream at datum 27.30 ft (8.321 m) higher.

REMARKS.--Records good except those for period of no gage-height record or faulty gage-height record, which are fair. Since November 1949, flow regulated by East Sidney Lake (see station 01499500).

AVERAGE DISCHARGE.--37 years, 173 ft³/s (4.899 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,250 ft³/s (205 m³/s) Dec. 30, 1942, gage height, 7.62 ft (2.323 m) site and datum then in use, from rating curve extended above 4,000 ft³/s (113 m³/s); minimum, 1.2 ft³/s (0.034 m³/s), result of construction operations, Aug. 13, 14, 17, 1949, gage height, 0.32 ft (0.098 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 16,700 ft³/s (473 m³/s) in July 1935, by computation of flow over dam and from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,930 ft³/s (54.7 m³/s) Sept. 29, gage height, 4.99 ft (1.521 m); minimum, 1.9 ft³/s (0.05 m³/s) Sept. 25, gage height, 0.69 ft (0.210 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	386	328	61	31	880	10	242	41	29	23	26
2	130	359	290	53	31	515	100	202	63	21	23	22
3	120	202	139	52	28	391	470	151	61	14	29	22
4	31	238	52	50	28	470	1200	133	43	9.7	31	22
5	31	238	52	50	28	627	1700	170	43	9.7	31	22
6	31	205	71	50	28	764	1900	216	34	9.7	31	22
7	31	184	515	50	33	964	1900	202	29	9.7	31	22
8	33	184	530	50	31	898	1600	163	31	9.7	31	22
9	660	184	177	50	29	643	500	163	31	9.7	59	22
10	97	184	205	50	29	764	220	250	40	9.7	71	22
11	1140	148	230	38	29	520	220	540	50	12	82	22
12	1720	130	246	35	46	350	163	572	50	22	106	15
13	1290	130	212	35	53	151	142	364	42	22	77	10
14	671	130	85	42	69	3.5	142	286	21	22	61	11
15	530	130	109	42	69	4.3	121	246	16	22	52	17
16	290	92	136	42	52	212	109	198	16	22	30	121
17	246	71	136	42	40	964	109	163	16	22	43	445
18	170	71	136	42	38	819	85	139	16	22	71	282
19	136	71	100	42	38	1180	73	290	16	22	71	1220
20	319	71	85	42	37	1290	73	212	26	22	71	886
21	465	73	136	42	37	1410	57	136	31	22	48	28
22	566	90	112	42	37	1630	48	136	31	22	34	391
23	1490	97	95	42	37	1900	50	87	31	22	34	1110
24	1460	97	85	42	121	1600	627	52	31	22	34	1360
25	599	97	85	42	836	600	520	160	31	23	34	500
26	495	97	85	35	892	320	892	95	31	23	34	205
27	359	97	69	31	858	250	1010	75	31	23	34	540
28	298	97	52	31	910	290	450	75	31	23	34	1540
29	294	184	65	31	---	950	242	46	31	23	34	1820
30	219	302	71	31	---	10	246	34	31	23	34	1490
31	188	---	71	31	---	10	---	34	---	23	34	---
TOTAL	14161	4639	4750	1318	4495	21379.8	14979	5832	995	590.9	1412	12237
MEAN	457	155	153	42.5	161	690	499	188	33.2	19.1	45.5	408
MAX	1720	386	530	61	910	1400	1900	572	63	29	106	1820
MIN	31	71	52	31	28	3.5	10	34	16	9.7	23	10

CAL YR 1976 TOTAL 88529.0 MEAN 242 MAX 1720 MIN 12
WTR YR 1977 TOTAL 86788.7 MEAN 238 MAX 1900 MIN 3.5

Note.--No gage-height record Jan. 14 to Feb. 2, and Mar. 23 to Apr. 11; faulty record Oct. 1-7.

01500500 SUSQUEHANNA RIVER AT UNADILLA, NY

LOCATION.--Lat 42°19'17", long 75°19'01", Otsego County, Hydrologic Unit 02050101, on right bank 25 ft (8 m) downstream from bridge on Bridge Street at Unadilla, 1.0 mi (1.6 km) upstream from Carrs Creek, and 1.6 mi (2.6 km) downstream from Ouleout Creek.

DRAINAGE AREA.--982 mi² (2,543 km²).

PERIOD OF RECORD.--June 1938 to current year.

REVISED RECORDS.--WSP 851: 1938(M). WRD NY 1968: 1966 (M). WRD NY 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 996.08 ft (303.605 m) above mean sea level (Corps of Engineers bench mark).

REMARKS.--Records good except those for winter periods, which are fair. Slight regulation by upstream lakes and reservoirs.

AVERAGE DISCHARGE.--39 years, 1,582 ft³/s (44.80 m³/s), 21.88 in/yr (556 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,500 ft³/s (666 m³/s) Mar. 14, 1977, gage height, 14.64 ft (4.462 m); minimum, 39 ft³/s (1.10 m³/s) Oct. 17, 1964, gage height, 1.38 ft (0.421 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Mar. 18, 1936, reached a stage of 16.6 ft (5.060 m), from flood-marks, discharge, 31,300 ft³/s (886 m³/s), from publications of the Corps of Engineers, Baltimore District.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 11,000 ft³/s (312 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	2100	*23,500 666	*14.64 4.462	Sept. 21	1130	15,200 430	11.82 3.603
Mar. 31	1730	13,600 385	11.18 3.408	Sept. 27	1500	11,700 331	10.39 3.167

Minimum discharge, 189 ft³/s (5.35 m³/s) July 25, gage height, 2.03 ft (0.619 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	560	3620	1000	720	390	4070	11900	2800	555	331	204	319
2	584	3050	900	720	380	3160	8030	2500	661	291	264	342
3	542	2580	840	720	370	2580	7170	2340	664	274	231	417
4	420	2570	795	740	360	2910	6970	2100	544	238	214	439
5	396	2550	851	750	360	6170	6660	2310	488	243	210	398
6	376	2400	980	700	360	6410	6480	2350	449	240	228	364
7	364	2330	1800	600	370	5160	5680	2000	434	244	317	345
8	460	2260	3530	600	370	4360	4890	1690	430	254	285	320
9	5200	1470	2110	620	380	4010	3560	1940	417	253	284	296
10	8180	1180	1890	580	390	5910	3080	2820	545	250	271	279
11	5570	1160	2140	560	410	7580	2730	4000	708	233	1850	264
12	4660	1140	1940	540	450	7800	2620	4530	555	288	1110	244
13	3770	1140	1680	540	500	10400	2400	3810	454	410	710	239
14	3400	1080	1180	580	580	19600	2290	3140	388	380	547	534
15	3790	1040	1460	540	580	21000	2090	2650	359	328	457	1060
16	3340	996	1490	520	500	13900	1900	2320	339	292	400	1040
17	2990	956	1350	520	480	10300	1750	2030	321	276	1730	2700
18	2540	893	1280	520	470	7600	1620	1800	322	276	1630	2470
19	2240	900	1200	520	470	6730	1420	2060	364	264	905	6130
20	2460	1020	1160	540	460	6130	1260	1950	424	248	674	8940
21	8120	1100	1380	520	460	5760	1140	1550	395	256	534	14100
22	7730	1100	1040	520	450	5750	1040	1400	367	228	500	10100
23	6320	1000	960	500	460	5470	1090	1210	335	210	573	6930
24	5350	1000	880	480	600	4710	5300	1110	309	195	505	5600
25	4510	940	920	470	3480	3660	9030	1190	336	225	473	6750
26	4560	900	920	450	3330	3220	7470	1030	527	272	416	8540
27	4010	960	820	440	3260	2950	5860	893	531	356	369	11200
28	3400	1100	740	430	4750	3210	4400	816	412	288	338	9320
29	3120	1100	780	420	---	6490	3590	690	364	231	316	7620
30	2820	1200	780	410	---	10700	3140	603	349	216	352	6040
31	3080	---	740	400	---	12800	---	568	---	207	338	---
TOTAL	104862	44735	39536	17150	25420	220500	126560	62200	13346	8297	17235	113340
MEAN	3383	1491	1275	554	908	7113	4219	2006	445	268	556	3778
MAX	8180	3620	3530	760	4750	21000	11900	4530	708	410	1850	14100
MIN	364	893	740	400	360	2580	1040	568	309	195	204	239
CFSM	3.45	1.52	1.30	.56	.92	7.24	4.30	2.04	.45	.27	.57	3.85
IN.	3.97	1.69	1.50	.65	.96	8.35	4.79	2.36	.51	.31	.65	4.29

CAL YR 1976	TOTAL	813671	MEAN	2223	MAX	9330	MIN	313	CFSM	2.26	IN	30.82
WTR YR 1977	TOTAL	793191	MEAN	2173	MAX	21000	MIN	195	CFSM	2.21	IN	30.05

SUSQUEHANNA RIVER BASIN

01501015 MILL BROOK AT NEW BERLIN, NY

LOCATION.--Lat 42°37'32", long 75°19'43", Chenango County, Hydrologic Unit 02050101, on left bank at downstream side of bridge on Academy Street at New Berlin and 80 ft (24 m) upstream from mouth.

DRAINAGE AREA.--4.64 mi² (12.02 km²).

PERIOD OF RECORD.--May 1974 to September 1976, October 1976 to current year (no winter records).

REVISED RECORDS.--WDR NY-76-1: 1974, 1975 (M,P).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,088.89 ft (331.894 m) above mean sea level.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 450 ft³/s (12.7 m³/s) Mar. 30, 1977, gage height, 1.65 ft (0.503 m); maximum gage height, 2.17 ft (0.661 m) Oct. 21, 1977 (backwater from debris and/or surge in well); minimum discharge, 0.38 ft³/s (0.011 m³/s) Aug. 20-23, 1974, gage height, 0.50 ft (0.152 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 80 ft³/s (2.3 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1330	89 2.52	†1.66 0.506	Mar. 30	1515	*450 12.7	1.65 0.503
Oct. 21	0600	182 5.15	*†2.17 .661	Sept. 18	1745	390 11.0	†1.96 .597
Mar. 4	1900	89 2.52	†1.42 .433	Sept. 20	1830	206 5.83	†1.91 .582
Mar. 13	2030	174 4.93	†1.62 .494	Sept. 26	1230	103 2.92	1.39 .424
Mar. 29	1800	318 9.01	†1.67 .509				

† Backwater from debris and/or surge in well.

Minimum discharge, 0.79 ft³/s (0.022 m³/s) July 23-25, Aug. 5, gage height, 0.54 ft (0.165 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	13				6.2	35	7.0	2.8	1.1	1.3	1.9
2	3.8	10				5.9	30	7.0	3.5	1.0	1.1	1.7
3	3.5	10				6.2	32	6.3	2.3	1.0	1.0	1.7
4	3.3	10				19	21	5.6	2.0	1.0	.91	1.4
5	3.0	9.5				35	21	8.6	1.8	1.3	.99	1.3
6	3.0	9.5				23	16	8.6	1.8	1.5	1.2	1.4
7	3.0	9.1				17	13	6.3	1.8	1.4	1.1	1.2
8	7.4	8.2				15	12	5.6	1.6	1.5	1.1	1.1
9	42	7.8				19	10	9.5	2.3	1.3	1.0	1.0
10	23	7.8				34	10	16	3.8	1.1	9.1	1.0
11	11	7.0				26	9.1	12	2.3	2.0	8.5	.98
12	9.5	6.3				30	8.6	8.6	1.8	3.2	3.1	.89
13	9.1	6.3				61	7.8	7.0	1.6	1.6	2.2	1.6
14	29	5.9				74	7.4	5.9	1.6	1.3	1.6	13
15	18	5.9				39	6.6	5.6	1.4	1.1	1.4	4.3
16	17	5.6				28	5.9	4.7	1.3	1.3	1.3	16
17	11	5.3				21	5.6	4.4	1.3	1.1	3.8	21
18	9.1	5.3				17	5.3	4.4	3.0	1.0	1.9	116
19	8.2	5.3				16	5.0	5.6	3.3	1.0	1.4	59
20	17	5.3				16	4.7	4.4	1.8	1.0	1.2	66
21	94	5.0				13	4.4	3.5	2.0	.99	1.1	40
22	30	4.4				12	4.1	3.3	1.4	.89	5.3	19
23	18	4.4				15	9.5	3.0	1.3	.85	3.0	15
24	18	4.1				10	36	7.4	1.1	.79	2.3	14
25	19	3.8				14	30	5.9	3.3	4.1	1.9	39
26	18	4.7				8.6	16	3.5	2.5	2.4	1.6	54
27	13	5.9				10	12	3.0	1.4	1.3	1.4	29
28	11	5.3				13	9.5	2.8	1.5	1.1	1.3	17
29	10	5.9				70	8.2	2.8	1.7	1.0	1.7	13
30	9.1	5.6				174	7.4	2.5	1.3	1.2	2.8	10
31	21	---				119	---	2.5	---	1.1	1.7	---
TOTAL	495.8	202.2				966.9	403.1	183.3	60.6	42.52	69.30	562.47
MEAN	16.0	6.74				31.2	13.4	5.91	2.02	1.37	2.24	18.7
MAX	94	13				174	36	16	3.8	4.1	9.1	116
MIN	3.0	3.8				5.9	4.1	2.5	1.1	.79	.91	.89
CFSM	3.45	1.45				6.72	2.89	1.27	.44	.30	.48	4.03
IN.	3.97	1.62				7.75	3.23	1.47	.49	.34	.56	4.51

SUSQUEHANNA RIVER BASIN

215

01502000 BUTTERNUT CREEK AT MORRIS, NY

LOCATION.--Lat 42°32'43", long 75°14'22", Otsego County, Hydrologic Unit 02050101, on right bank 15 ft (5 m) upstream from bridge on State Highway 23 at Morris, and 0.2 mi (0.3 km) upstream from Calhoun Creek.

DRAINAGE AREA.--59.7 mi² (155 km²).

PERIOD OF RECORD.--June 1938 to current year.

REVISED RECORDS.--WSP 921: 1939. WRD NY 1969: Drainage area. WRD NY 1974: 1973(P).

GAGE.--Water-stage recorder. Datum of gage 1096.21 ft (334.125 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--39 years, 99.5 ft³/s (2.818 m³/s), 22.63 in/yr (575 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft³/s (125 m³/s) Mar. 13, 1977, gage height, 8.58 ft (2.615 m); minimum daily, 1.3 ft³/s (0.037 m³/s) Sept. 24, 1939.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft³/s (39.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2030	3,270 92.6	7.76 2.365	Mar. 13	1730	*4,420 125	*8.58 2.615
Oct. 21	1030	3,710 105	8.09 2.466	Mar. 29	2130	2,650 75.0	7.24 2.207
Mar. 5	0400	1,480 41.9	6.05 1.844	Sept. 20	1400	2,870 81.3	7.43 2.265
Mar. 10	2130	1,570 44.7	6.16 1.878	Sept. 26	1700	2,020 57.2	6.64 2.024

Minimum discharge, 10 ft³/s (0.28 m³/s) Aug. 5; minimum gage height, 1.69 ft (0.515 m) July 23-25, Aug. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	205	47	43	24	244	518	120	37	18	12	23
2	48	162	50	42	23	188	375	113	42	17	12	28
3	45	154	46	41	24	160	390	113	36	16	12	29
4	42	153	47	40	24	287	270	96	33	16	11	26
5	39	143	49	38	22	1100	253	124	31	15	12	24
6	37	137	48	35	22	505	212	111	29	15	14	25
7	36	131	172	32	21	307	176	89	30	15	15	23
8	51	118	160	31	20	255	161	83	28	15	14	21
9	1310	108	90	32	20	370	137	120	29	15	15	21
10	867	106	96	35	20	821	136	200	42	15	31	20
11	272	100	100	32	21	878	124	243	34	15	127	19
12	208	91	92	31	22	430	113	191	29	24	52	19
13	185	89	86	30	22	2430	103	155	26	20	41	20
14	368	85	66	30	26	2610	95	134	25	17	34	103
15	261	82	72	29	32	930	87	120	24	15	28	61
16	331	78	68	28	27	550	80	107	23	15	25	93
17	216	72	72	27	26	379	74	96	21	15	51	255
18	187	73	64	25	27	280	69	89	23	14	39	314
19	165	73	60	25	27	240	65	106	36	13	30	944
20	225	74	66	24	27	200	60	83	26	14	26	1760
21	2430	67	82	23	26	180	59	75	26	13	26	1330
22	584	63	58	22	25	191	59	68	23	12	30	513
23	337	60	58	21	27	175	73	61	21	12	35	354
24	283	57	52	21	31	172	520	61	20	12	29	304
25	302	54	52	21	171	154	626	72	27	16	27	576
26	309	55	50	21	200	144	274	55	35	32	26	1120
27	217	70	49	22	193	143	213	48	25	18	24	798
28	191	66	48	23	361	174	179	45	21	15	23	429
29	172	70	46	25	---	1060	152	42	21	13	23	381
30	153	49	43	25	---	1710	134	40	20	12	26	296
31	272	---	45	25	---	1610	---	38	---	12	26	---
TOTAL	10194	2845	2134	899	1511	19777	5787	3098	843	486	896	9929
MEAN	329	94.8	68.8	29.0	54.0	638	193	99.9	28.1	15.7	28.9	331
MAX	2430	205	172	43	361	2830	626	243	42	32	127	1760
MIN	36	49	43	21	20	143	59	38	20	12	11	19
CFSM	5.51	1.59	1.15	.49	.90	10.7	3.23	1.67	.47	.26	.46	5.54
IN.	6.35	1.77	1.33	.56	.94	12.32	3.61	1.93	.53	.30	.56	6.19

CAL YR 1976	TOTAL	59535	MEAN 163	MAX 2430	MIN 23	CFSM 2.73	IN 37.10
WTR YR 1977	TOTAL	58399	MEAN 160	MAX 2830	MIN 11	CFSM 2.68	IN 36.39

SUSQUEHANNA RIVER BASIN

01502500 UNADILLA RIVER AT ROCKDALE, NY

LOCATION.--Lat 42°22'40", long 75°24'23", Chenango County, Hydrologic Unit 02050101, on right bank 400 ft (122 m) downstream from Chenango-Otsego County highway bridge at Rockdale, and 0.7 mi (1.1 km) downstream from Kent Brook.

DRAINAGE AREA.--520 mi² (1,347 km²).

PERIOD OF RECORD.--November 1929 to September 1933, January 1937 to current year.

REVISED RECORDS.--WRD NY 1974: 1973 (P).

GAGE.--Water-stage recorder. Datum of gage is 992.11 ft (302.395 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 30, 1933, nonrecording gage at bridge 400 ft (122 m) upstream at datum 0.73 ft (0.223 m) higher.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--43 years (1930-33, 1937-77), 840 ft³/s (23.79 m³/s), 21.94 in/yr (557 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft³/s (493 m³/s) Dec. 31, 1942, gage height, 12.98 ft (3.956 m); minimum daily, 27 ft³/s (0.76 m³/s) Sept. 20-27, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,700 ft³/s (161 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 10	1530	6,410 182	8.52 2.597	Mar. 31	1630	10,900 309	10.69 3.258
Oct. 22	0330	9,500 269	10.06 3.066	Sept. 21	2330	8,690 246	9.66 2.944
Mar. 14	1600	*12,200 459	*12.64 3.853				

Minimum discharge, 87 ft³/s (2.464 m³/s) July 24, 25, gage height, 3.71 ft (1.131 m).

DISCHARGE* IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	440	2280	424	460	210	2900	7930	1160	250	146	113	209
2	400	1670	420	450	190	2100	4350	1030	283	136	116	266
3	370	1450	440	430	210	1760	3530	997	294	127	105	332
4	340	1380	420	420	210	2000	2980	890	250	121	97	288
5	320	1370	450	410	200	4880	2540	1070	222	118	97	222
6	300	1280	440	390	200	4560	2320	1090	209	130	110	192
7	280	1250	942	370	190	2810	1950	880	213	127	181	181
8	379	1110	2100	350	180	2200	1740	739	204	136	124	166
9	2830	997	1000	330	180	2240	1490	850	204	136	110	152
10	5990	953	1000	340	180	3720	1380	1430	283	130	107	139
11	3860	931	1140	340	190	5010	1330	1970	306	124	1590	130
12	2150	840	997	330	210	5200	1220	1750	250	146	526	121
13	1680	793	800	320	220	8210	1150	1350	213	156	294	124
14	2040	775	600	310	260	15200	1080	1130	196	166	217	480
15	2530	757	620	320	300	12200	975	953	184	181	181	1130
16	2410	721	600	300	270	7250	860	852	173	149	156	794
17	1850	667	620	290	250	4490	784	756	166	133	1330	2290
18	1520	658	580	280	260	3190	721	693	177	121	616	1820
19	1320	667	560	270	270	2440	676	720	256	118	345	4460
20	1390	685	600	250	270	2090	624	702	245	113	250	5000
21	7350	658	850	240	260	1450	576	591	200	107	204	7860
22	8170	600	680	230	240	1920	544	519	209	102	217	7090
23	4370	568	660	210	270	1760	576	447	192	95	386	3590
24	2570	536	620	210	312	1590	2630	447	166	91	332	2290
25	2650	504	600	210	1130	1440	4660	558	177	102	256	3870
26	2740	496	576	210	1930	1450	3400	488	256	196	217	4610
27	2220	592	552	220	1840	1340	2350	386	240	235	188	5440
28	1800	739	512	220	3560	1590	1870	352	192	159	166	3910
29	1620	748	500	230	---	3720	1570	319	173	127	156	2760
30	1450	632	480	230	---	8090	1340	288	163	116	181	2090
31	1910	---	490	230	---	10300	---	266	---	113	222	---
TOTAL	69249	27307	21273	9400	13992	129600	59146	25673	6546	4157	9190	62006
MEAN	2234	910	686	303	500	4181	1972	828	218	134	296	2067
MAX	8170	2280	2100	450	3560	15200	7930	1970	306	235	1590	7860
MIN	280	496	420	210	180	1340	544	266	163	91	97	121
CFSM	4.30	1.75	1.32	.58	.96	8.04	3.79	1.59	.42	.26	.57	3.98
IN.	4.95	1.95	1.52	.67	1.00	9.27	4.23	1.84	.47	.30	.66	4.44
CAL YR 1976 TOTAL	472472		MEAN	1291	MAX	8170	MIN	240	CFSM	2.48	IN	33.80
WTR YR 1977 TOTAL	437539		MEAN	1199	MAX	15200	MIN	91	CFSM	2.31	IN	31.30

SUSQUEHANNA RIVER BASIN

217

01502770 SUSQUEHANNA RIVER NEAR GREAT BEND, PA

LOCATION.--Lat 41°57'48", long 75°44'33", Susquehanna County, Hydrologic Unit 02050101, State Highway 11 bridge north of Hallstead, 0.5 mi (0.8 km) south of Great Bend, and 6.2 mi (10.0 km) upstream from gaging station at Conklin, N.Y.

(NOTE: WATER-QUALITY DATA FOR 1977 FOR THIS STATION ARE NOT AVAILABLE
AT TIME OF PUBLICATION OF THIS REPORT; THEY WILL BE PUBLISHED
IN "WATER RESOURCES DATA FOR PENNSYLVANIA.")

SUSQUEHANNA RIVER BASIN

01503000 SUSQUEHANNA RIVER AT CONKLIN, NY

LOCATION.--Lat 42°02'07", long 75°48'12", Broome County, Hydrologic Unit 02050101, on left bank at abutment of former highway bridge, 500 ft (152 m) upstream from bridge on County Highway 304 at Conklin, 0.7 mi (1.1 km) downstream from Little Snake Creek, and 3.5 mi (5.6 km) downstream from Pennsylvania-New York State line.

DRAINAGE AREA.--2,232 mi² (5,781 km²).

PERIOD OF RECORD.--November 1912 to current year.

REVISED RECORDS.--WRD NY 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 841.04 ft (256.349 m) above mean sea level (revised). Prior to Oct. 4, 1914, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Minor regulation by upstream lakes and reservoirs.

AVERAGE DISCHARGE.--64 years (1913-77), 3,608 ft³/s (102.2 m³/s), 21.95 in/yr (558 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 61,600 ft³/s (1,740 m³/s) Mar. 18, 1936, gage height, 20.14 ft (6.139 m); maximum gage height, 20.83 ft (6.349 m) Mar. 22, 1948; minimum discharge, 85 ft³/s (2.41 m³/s) Oct. 14, 1964, gage height, 1.30 ft (0.396 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 18,000 ft³/s (510 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2200	28,200 799	13.30 4.054	Mar. 16	0100	*43,400 1,230	*16.90 5.151
Oct. 22	0200	26,100 739	12.76 3.889	Apr. 1	1300	27,600 782	13.20 4.023
Feb. 26	1130	19,800 561	10.98 3.347	Apr. 25	1100	22,500 637	11.75 3.581
Feb. 28	1230	18,700 530	10.65 3.246	Sept. 22	1100	25,100 711	12.48 3.804
Mar. 5	2200	20,400 578	11.13 3.392	Sept. 26	1500	31,900 903	14.36 4.377

Minimum discharge, 392 ft³/s (11.1 m³/s) July 25, gage height, 2.12 ft (0.646 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1580	8530	2290	1500	720	12300	27400	5380	1170	736	446	688
2	1400	7730	1890	1500	700	9410	23200	4820	1140	664	440	728
3	1320	6280	1800	1500	680	7730	16400	4520	1210	605	472	752
4	1280	5700	1700	1500	680	8480	13600	4160	1260	550	505	872
5	1150	5570	1640	1500	660	16200	12200	6500	1110	531	453	899
6	1040	5390	1470	1400	660	18600	11200	6570	990	563	459	890
7	994	5260	3850	1400	660	14000	10200	5450	1010	633	768	752
8	1140	5000	7590	1300	660	10400	8770	4430	953	680	809	680
9	14600	4560	7350	1300	680	9000	7330	4130	917	664	720	633
10	26400	4220	5050	1200	700	11100	5860	4810	1190	598	612	598
11	18500	4030	4580	1200	740	16000	5320	5840	1210	550	577	563
12	11100	3760	4750	1200	820	17700	5030	6990	1330	524	2770	518
13	7970	3470	4130	1200	920	22200	4620	6940	1200	511	2140	498
14	6640	3260	3380	1100	1000	31700	4360	5800	1000	598	1620	577
15	6780	3140	2810	1100	1100	39200	4090	4940	881	664	1680	1120
16	6870	3020	3200	1100	1000	40300	3730	4310	800	626	1050	3050
17	6270	2810	3000	1000	920	27000	3410	3860	744	598	926	6400
18	5240	2590	2800	1000	900	16800	3140	3420	736	544	2790	7190
19	4440	2510	2600	980	880	12500	2910	3260	827	511	2730	8480
20	4290	2490	2400	950	860	10600	2640	3510	971	505	1680	17400
21	20200	2450	2500	940	860	9470	2400	3260	962	531	1250	23700
22	24600	2380	2600	920	840	9740	2220	2710	908	498	1060	24700
23	19000	2210	2400	900	860	11200	2210	2460	809	472	935	19400
24	13200	2090	2300	880	1300	9240	8820	2190	744	434	1050	12300
25	11600	1970	2200	860	3320	7690	21500	2350	688	404	1100	25100
26	10900	1870	2000	820	15000	6480	18100	2590	680	466	944	28200
27	9730	1870	1900	780	14300	6200	13100	2120	890	736	845	26900
28	7800	2050	1800	760	15300	6990	9740	1760	1010	704	760	21700
29	6670	2460	1700	840	---	13200	7180	1580	899	656	680	16000
30	6020	2480	1700	750	---	23500	6140	1420	800	544	744	12200
31	7450	---	1600	740	---	26300	---	1240	---	472	696	---
TOTAL	266174	111150	91480	34240	73720	482130	267020	123320	29039	17772	33711	263488
MEAN	8586	3705	2951	1105	2633	15550	8901	3978	968	573	1087	8783
MAX	26400	8530	7590	1600	16300	40100	27400	6990	1330	736	2790	28200
MIN	994	1870	1600	740	660	6200	2210	1240	680	404	440	498
CFSM	3.85	1.66	1.32	.50	1.18	6.97	3.99	1.78	.43	.26	.49	3.94
IN.	4.44	1.85	1.52	.57	1.23	8.04	4.45	2.06	.48	.30	.56	4.39
CAL YR 1976 TOTAL	1821687			MEAN 4977	MAX 26400	MIN 859	CFSM 2.23	IN 30.36				
WTR YR 1977 TOTAL	1793244			MEAN 4913	MAX 40300	MIN 404	CFSM 2.20	IN 29.89				

01505000 CHENANGO RIVER AT SHERBURNE, NY

LOCATION.--Lat 42°40'43", long 75°30'39", Chenango County, Hydrologic Unit 02050102, on right bank 20 ft (6 m) downstream from bridge on State Highway 80, 0.5 mi (0.8 km) west of Sherburne, and 0.5 mi (0.8 km) downstream from Handsome Brook.

DRAINAGE AREA.--263 mi² (681 km²).

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 851: 1938(M). WSP 1502: 1955. WRD NY 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,037.16 ft (316.126 m) above mean sea level. July 22 to Dec. 9, 1953, nonrecording gage or reference point and Dec. 10, 1953 to Jan. 26, 1955, water-stage recorder at temporary site 1.5 mi (2.4 km) downstream, at datum approximately 11.9 ft (3.63 m) lower, during period of construction of highway bridge.

REMARKS.--Records good except those for winter periods, which are poor. Slight diurnal fluctuation at low flow caused by mill several miles upstream from station. Small diversion during summer months for more than 100 years from Chenango River basin to Oriskany Creek through Oriskany Creek feeder at Solsville for operation of Erie (Barge) Canal.

AVERAGE DISCHARGE.--39 years, 406 ft³/s (11.50 m³/s), 20.96 in/yr (532 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft³/s (286 m³/s) Mar. 14, 1977, gage height, 9.91 ft (3.021 m); maximum gage height, 9.99 ft (3.045 m) Dec. 30, 1942 (ice jam); minimum discharge, 12 ft³/s (0.34 m³/s) Sept. 25, 1964; minimum gage height, 1.52 ft (0.436 m) Sept. 19, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 18, 1936, reached a stage of 10.6 ft (3.23 m), from records of National Weather Service.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft³/s (99.1 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2000	5,670 161	9.26 2.822	Mar. 31	0530	5,850 166	9.30 2.835
Oct. 21	0930	3,630 103	8.41 2.563	Sept. 21	0100	4,850 137	9.04 2.755
Mar. 14	0030	*10,100 286	*9.91 3.021				

Minimum discharge, 27 ft³/s (0.76 m³/s) Sept. 12, 13, gage height, 1.85 ft (0.564 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	234	842	300	250	140	856	3440	452	160	87	67	70
2	213	692	310	250	130	689	2500	420	234	76	60	83
3	199	649	290	240	130	632	2170	404	192	68	62	70
4	189	626	300	240	130	444	1620	364	154	64	57	60
5	175	600	290	240	130	2280	1430	412	121	65	54	54
6	169	571	281	230	130	1710	1260	420	108	76	59	57
7	166	539	704	230	120	1270	1000	344	133	83	62	48
8	412	498	782	220	120	1110	896	300	116	89	59	41
9	2490	471	597	210	120	1290	748	372	113	98	74	36
10	3430	459	580	210	120	2180	701	588	189	83	105	34
11	2230	447	520	200	130	2520	661	814	145	62	185	30
12	1530	409	440	200	140	2660	610	656	110	44	124	29
13	1190	401	380	200	160	4600	573	540	105	85	98	32
14	1280	392	350	190	170	7180	545	464	121	85	76	324
15	1170	383	370	190	160	4420	484	404	76	65	72	241
16	987	363	360	180	150	3260	444	356	64	110	68	364
17	809	345	320	180	150	2440	414	320	60	105	148	718
18	710	346	310	170	140	1770	390	296	121	85	121	636
19	634	351	300	170	140	1360	368	372	206	68	72	1500
20	643	353	320	170	140	1100	344	356	121	60	57	2390
21	2760	329	430	160	140	976	324	308	142	60	48	3730
22	1870	310	350	160	140	927	305	274	113	56	166	2400
23	1320	294	350	150	150	787	449	238	93	52	110	1540
24	1150	282	340	150	160	806	1470	344	83	52	110	1160
25	1270	271	330	150	600	742	1730	472	85	121	108	1770
26	1260	275	310	150	687	717	1300	324	130	175	80	1960
27	962	340	290	150	664	684	1020	259	105	124	64	2290
28	845	360	280	150	1170	854	778	227	103	105	56	1550
29	766	380	280	160	---	2340	612	210	98	78	52	1330
30	661	290	270	150	---	4830	512	189	100	68	96	1050
31	960	---	260	140	---	5410	---	163	---	76	68	---
TOTAL	32684	12868	11594	5840	6461	63844	29098	11662	3703	2525	2638	25597
MEAN	1054	429	374	188	231	2059	970	376	123	81.5	85.1	853
MAX	3430	842	782	250	1170	7180	3440	814	234	175	185	3730
MIN	166	271	260	140	120	632	305	163	60	44	48	29
CFSM	4.01	1.63	1.42	.71	.88	7.83	3.69	1.43	.47	.31	.32	3.24
IN.	4.62	1.82	1.64	.83	.91	9.03	4.12	1.65	.52	.36	.37	3.62

CAL YR 1976	TOTAL	240104	MEAN 656	MAX 3430	MIN 103	CFSM 2.49	IN 33.96
WTR YR 1977	TOTAL	208514	MEAN 571	MAX 7180	MIN 29	CFSM 2.17	IN 29.49

SUSQUEHANNA RIVER BASIN

01508800 FACTORY BROOK AT HOMER, NY

LOCATION.--Lat 42°38'36", long 76°11'19", Cortland County, Hydrologic Unit 02050102, at bridge on State Highway 281, in Homer, 1.1 mi (1.8 km) upstream from mouth.

DRAINAGE AREA.--15.8 mi² (40.9 km²).

PERIOD OF RECORD.--Water years 1970, 1972 to current year.

REMARKS.--Prior to November 1972, sampling site at bridge on State Highway 41, 0.1 mi (0.2 km) downstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. 7UM-MF (COL./ 100 ML)
NOV 23...	1230	14	365	7.0	3.0	13.0	96	410	390
FEB 14...	1300	11	365	7.8	2.0	13.6	98	8930	210
APR 14...	1440	--	320	8.3	13.0	12.5	120	--	--
MAY 24...	1300	11	338	7.7	15.0	9.6	98	760	580
AUG 05...	1000	--	330	--	17.5	9.9	104	--	--
24...	1300	6.5	320	7.5	14.0	8.7	88	6800	6100

DATE	FECAL STREPTOCOCCI (COL. PER 100 ML)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)
NOV 23...	250	160	29	49	10	3.5	.9	164	135
FEB 14...	811000	150	24	44	9.7	4.6	1.1	153	126
APR 14...	--	--	--	--	--	--	--	--	--
MAY 24...	55	160	38	48	10	3.9	1.0	150	120
AUG 05...	--	--	--	--	--	--	--	--	--
24...	170	160	40	47	9.2	14	1.3	140	110

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE PLUS NITRITE (N) (MG/L)
NOV 23...	15	7.9	.1	4.4	172	3.2	.01	3.2
FEB 14...	14	11	.1	4.1	164	4.0	.01	4.0
APR 14...	--	7.0	--	--	--	--	--	3.0
MAY 24...	15	7.3	.0	2.7	162	3.1	.01	3.1
AUG 05...	--	--	--	--	--	2.8	.01	2.8
24...	15	6.7	.0	4.4	167	2.4	.01	2.4

B Results based on colony count outside the acceptable range (non-ideal colony count).

01508803 WEST BRANCH TIOUGHNIOGA RIVER AT HOMER, NY

LOCATION.--Lat 42°38'13", long 76°10'37", Cortland County, Hydrologic Unit 02050102, on left bank at downstream side of bridge on Wall Street at Homer and 3.4 mi (5.5 km) upstream from confluence with East Branch. Water-quality sampling site at discharge station.

DRAINAGE AREA.--71.5 mi² (185 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1966 to September 1968, October 1972 to current year.

REVISED RECORDS.--WRD NY 1974: 1973 (P).

GAGE.--Water-stage recorder. Datum of gage is 1,114.81 ft (339.794 m) above mean sea level. Prior to Oct. 1, 1968, water-stage recorder at bridge on Water Street 500 ft (152 m) upstream at same datum.

REMARKS.--Records good except those for winter periods, which are fair. A constant 2.8 ft³/s (0.079 m³/s) is diverted for manufacturing purposes from Gate House Pond upstream from station into Onondaga Creek basin (St. Lawrence River basin).

AVERAGE DISCHARGE.--6 years (1968, 1973-77), 139 ft³/s (3.936 m³/s), 26.40 in/yr (671 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,290 ft³/s (64.9 m³/s) Mar. 13, 1977, gage height, 8.08 ft (2.463 m); minimum discharge, 9.6 ft³/s (0.27 m³/s) Nov. 22, 1966, gage height, 1.98 ft (0.604 m) at site then in use; minimum gage height, 1.14 ft (0.347 m) Sept. 3, Oct. 27, 28, 1973.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 650 ft³/s (18.4 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2400	870 24.6	5.17 1.576	Sept. 20	1330	1,230 34.8	6.12 1.865
Mar. 13	1600	*2,290 64.9	*8.08 2.463	Sept. 25	1200	723 20.5	4.93 1.503
Mar. 29	2200	884 25.0	5.21 1.588				

Minimum discharge, 27 ft³/s (0.76 m³/s) Aug. 5, gage height, 1.37 ft (0.418 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	268	74	78	50	161	509	139	63	44	40	41
2	72	215	80	76	49	148	434	134	62	42	35	41
3	68	198	72	76	48	144	420	131	60	39	33	40
4	64	188	70	74	47	135	357	121	58	39	31	36
5	62	176	68	72	46	125	340	117	56	41	31	34
6	58	164	66	70	43	119	315	115	57	43	37	35
7	57	153	110	68	44	275	271	120	64	42	37	33
8	115	145	130	56	44	276	250	112	57	68	45	33
9	362	138	110	54	44	311	226	123	53	57	56	34
10	590	135	100	64	44	305	213	152	57	49	42	33
11	325	130	98	52	45	679	201	157	54	43	39	32
12	245	121	96	62	47	819	180	133	49	44	37	31
13	211	115	94	76	60	1750	174	125	47	42	35	35
14	198	112	86	70	72	1330	168	115	46	48	34	167
15	179	108	90	64	66	865	158	107	44	41	38	89
16	160	102	84	60	62	693	141	101	44	44	33	186
17	147	98	82	62	56	572	118	92	44	43	124	362
18	135	98	80	70	52	488	127	92	74	67	73	277
19	124	95	78	64	49	427	125	104	97	48	55	546
20	126	93	78	60	48	367	119	94	74	43	47	837
21	263	89	120	54	49	332	115	87	69	40	43	560
22	203	87	96	54	50	325	112	83	61	38	58	378
23	182	84	100	52	52	319	151	78	55	34	51	298
24	208	81	90	52	56	284	301	78	51	32	80	247
25	253	79	88	52	110	259	277	129	53	61	74	550
26	213	76	86	50	130	242	234	96	57	59	59	462
27	186	72	86	50	120	235	205	83	51	44	51	480
28	174	68	84	70	175	271	183	76	49	40	47	355
29	164	65	84	80	---	259	165	71	50	34	45	310
30	153	72	82	64	---	677	152	68	47	44	46	261
31	278	---	80	56	---	665	---	65	---	39	44	---
TOTAL	5651	5645	2744	1972	1758	14909	6741	3359	1703	1392	1500	6823
MEAN	182	122	88.5	64.3	52.8	481	225	108	56.8	44.9	48.4	227
MAX	590	268	130	80	175	1750	509	157	97	68	124	837
MIN	57	68	68	50	43	144	112	65	44	32	31	31
CFSM	2.55	1.71	1.24	.90	.88	6.73	3.15	1.51	.79	.63	.68	3.17
IN.	2.94	1.90	1.43	1.04	.91	7.76	3.51	1.75	.89	.72	.78	3.55
CAL YR 1976	TOTAL	63364	MEAN 173	MAX 871	MIN 41	CFSM 2.42	IN 32.97					
WTR YR 1977	TOTAL	52217	MEAN 143	MAX 1750	MIN 31	CFSM 2.00	IN 27.17					

SUSQUEHANNA RIVER BASIN

01508803 WEST BRANCH TIOUGHNIOGA RIVER AT HOMER, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957, 1970, 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL./100 ML)
NOV 23...	1100	86	430	6.8	2.0	12.4	89	100	29
FEB 14...	1130	74	430	7.6	.0	12.6	86	400	41
APR 12...	1510	177	370	7.5	14.0	12.4	102	--	--
MAY 24...	1100	62	395	7.4	20.5	8.0	89	670	290
AUG 05...	1230	29	350	--	21.0	8.0	90	--	--
24...	1100	64	455	7.2	16.0	8.4	86	2600	670

DATE	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)
NOV 23...	39	180	30	52	13	8.9	1.3	187	153
FEB 14...	300	170	18	49	12	10	1.1	187	153
APR 12...	--	--	--	--	--	--	--	--	--
MAY 24...	47	180	35	50	14	9.6	1.2	180	150
AUG 05...	--	--	--	--	--	--	--	--	--
24...	340	150	31	42	12	9.8	1.1	150	120

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
NOV 23...	14	16	.1	3.9	201	1.7	.01	1.7
FEB 14...	15	21	.1	4.9	205	2.0	.02	2.0
APR 12...	--	16	--	--	--	--	--	1.9
MAY 24...	16	18	.0	2.7	200	1.4	.02	1.4
AUG 05...	--	--	--	--	--	1.1	.01	1.1
24...	15	17	.0	3.4	174	.97	.01	.98

01509000 TIOUGHNIOGA RIVER AT CORTLAND, NY

LOCATION.--Lat 42°36'10", long 76°09'35", Cortland County, Hydrologic Unit 02050102, on right bank at east end of Elm Street at Cortland, 0.4 mi (0.6 km) downstream from confluence of East and West Branches. Water-quality sampling site at Cortland Sewage Treatment Plant, 0.4 mi (0.6 km) downstream from discharge station.

DRAINAGE AREA.--292 mi² (756 km²), including 14.0 mi² (36.3 km²), the flow from which may be diverted into De Ruyter Reservoir in Oswego River basin.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WRD NY 1968: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 1,084.92 ft (330.683 m) above mean sea level. Prior to Oct. 1, 1939, water-stage recorder at datum 4.00 ft (1.219 m) higher; Oct. 1, 1939 to Sept. 30, 1963, water-stage recorder at datum 3.00 ft (0.914 m) higher.

REMARKS.--Records good except those for winter periods, which are fair. Diurnal fluctuation at low and medium flow caused by powerplants in mills on West Branch. Slight diversion from East Branch for operation of Erie (Barge) Canal. A constant 2.8 ft³/s (0.079 m³/s) is diverted for manufacturing purposes from Gate House Pond on West Branch upstream from station into Onondaga Creek basin (St. Lawrence River basin).

AVERAGE DISCHARGE.--39 years, 498 ft³/s (14.10 m³/s), 23.16 in/yr (588 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s (368 m³/s) Mar. 5, 1964, gage height, 12.49 ft (3.807 m); minimum, 9.8 ft³/s (0.28 m³/s) Sept. 20, 1939, Sept. 29, 1959; minimum daily, 17 ft³/s (0.48 m³/s) Sept. 26, 27, 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,400 ft³/s (125 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 10	1030	5,440 154	9.16 2.792	Mar. 30	0745	4,590 130	8.58 2.615
Mar. 14	0030	*11,800 334	*12.12 3.694	Sept. 21	1100	6,030 171	9.53 2.905

Minimum discharge, 85 ft³/s (2.41 m³/s) Sept. 12, 13, gage height, 2.75 ft (0.838 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	1170	290	270	180	855	2570	494	203	144	129	123
2	196	871	300	270	180	737	1690	461	203	135	111	120
3	182	775	270	270	180	679	1550	456	189	129	105	117
4	168	719	280	260	180	775	1280	416	176	126	99	111
5	154	667	260	250	170	1810	1220	531	171	129	99	105
6	141	605	280	250	170	1770	1260	479	171	126	111	105
7	141	558	480	240	160	1330	975	417	200	129	117	99
8	362	522	780	230	160	1120	862	382	182	192	135	96
9	1540	491	520	220	160	1240	740	407	171	178	171	96
10	4300	473	520	220	160	2230	708	543	192	150	141	93
11	2530	458	500	210	170	3020	664	730	185	135	129	88
12	1340	418	450	210	180	3540	612	570	167	132	123	88
13	967	399	390	210	290	8010	579	482	154	126	120	93
14	868	384	370	210	330	8950	542	432	147	135	111	514
15	779	376	400	200	320	4300	497	398	144	120	120	346
16	684	356	350	200	290	2950	449	368	141	138	114	669
17	598	337	340	190	270	2130	404	333	138	138	390	1560
18	530	332	330	190	250	1620	395	310	255	154	287	1310
19	483	330	320	190	240	1300	381	398	446	138	207	2300
20	475	323	330	190	240	1100	359	355	267	123	171	3410
21	1220	308	440	190	240	998	337	298	236	114	150	5310
22	1090	294	380	180	240	1010	327	271	207	108	185	2860
23	815	282	400	180	250	979	440	248	182	102	185	1530
24	782	274	370	180	260	869	1360	263	171	99	192	1120
25	1090	263	360	180	520	759	1570	691	178	200	207	2630
26	995	260	340	180	740	743	1090	485	203	221	178	2450
27	801	290	340	180	680	719	841	325	178	150	154	2400
28	706	310	330	180	926	955	706	271	164	129	141	1650
29	649	340	320	200	---	2600	614	248	161	114	132	1320
30	596	280	290	190	---	4150	543	229	157	141	135	1030
31	1080	---	280	190	---	3620	---	214	---	141	132	---
TOTAL	26475	13465	11610	6510	8136	66768	25565	12505	5741	4296	4781	33743
MEAN	854	449	375	210	291	2154	852	403	191	139	154	1125
MAX	4300	1170	780	270	926	8950	2570	730	446	221	390	5310
MIN	141	260	260	180	160	679	327	214	138	99	99	88
CFSM	2.92	1.54	1.28	.72	1.00	7.38	2.92	1.38	.65	.48	.53	3.85
IN.	3.37	1.72	1.48	.83	1.04	8.51	3.26	1.59	.73	.55	.61	4.30

CAL YR 1976	TOTAL	254642	MEAN 696	MAX 4350	MIN 111	CFSM 2.38	IN 32.44
WTR YR 1977	TOTAL	219595	MEAN 602	MAX 8950	MIN 88	CFSM 2.06	IN 27.98

SUSQUEHANNA RIVER BASIN

01509000 TIOUGHNIOGA RIVER AT CORTLAND, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1956 to current year.

COOPERATION.--Water-temperature records furnished by the city of Cortland.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 23.5°C July 22, 1957; minimum, freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 20.5°C July 14, 18, 19, 21; minimum, freezing point Jan. 22, 23.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ONCE DAILY AT 0900)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.5	6.0	1.5	1.5	1.5	3.0	6.0	11.5	15.0	17.0	16.0	17.0
2	12.0	6.0	3.0	2.0	1.5	2.0	6.0	13.0	16.0	17.0	16.5	18.0
3	13.0	7.0	2.5	3.0	2.5	2.0	7.0	11.0	13.0	17.5	15.0	18.5
4	14.0	7.0	3.5	2.5	2.5	3.5	5.5	11.0	14.0	17.0	16.5	15.5
5	14.0	6.5	4.0	2.5	3.0	3.5	5.5	11.0	15.0	16.5	16.5	16.0
6	14.0	6.5	2.5	2.5	1.5	5.0	5.0	11.5	13.0	17.0	17.0	16.0
7	14.0	6.0	4.0	4.5	3.0	3.0	4.5	13.5	13.5	17.0	16.0	14.0
8	13.0	6.0	1.0	2.5	3.0	3.0	5.0	12.0	14.0	17.0	16.5	14.0
9	11.0	4.0	2.0	2.0	3.0	3.0	3.5	8.5	12.0	16.5	17.5	15.0
10	13.5	5.0	3.0	3.0	3.5	3.0	5.0	9.0	11.5	18.0	16.0	15.0
11	9.0	5.5	2.5	3.0	4.0	3.0	5.5	10.0	13.5	17.5	16.5	14.0
12	8.5	5.5	3.0	2.5	4.5	4.5	10.5	11.0	14.0	18.0	16.0	13.5
13	10.0	5.5	3.0	2.0	5.0	5.5	11.5	13.0	14.5	20.0	16.0	13.0
14	10.0	5.5	1.0	2.5	3.0	4.5	11.5	13.0	14.0	20.5	16.5	15.0
15	11.0	6.0	2.0	3.5	3.0	5.0	10.5	12.0	14.0	18.5	15.0	13.0
16	10.5	6.0	5.5	2.5	2.0	5.5	10.0	13.0	14.5	19.0	14.0	13.5
17	9.5	6.5	5.0	2.5	2.5	5.0	10.0	14.0	17.0	19.0	19.0	14.0
18	8.5	7.5	4.5	2.0	3.0	3.5	10.5	15.5	18.0	20.5	15.5	15.0
19	8.0	7.5	4.0	3.0	4.0	2.5	12.0	16.0	18.5	20.5	14.5	16.0
20	8.0	6.0	4.0	3.0	4.0	3.0	12.0	16.0	18.0	20.0	15.0	16.0
21	7.5	6.0	3.0	3.0	3.0	4.0	12.0	17.0	15.5	20.5	15.0	16.0
22	7.0	5.0	2.5	0.0	2.5	3.5	12.5	18.5	15.0	18.0	16.5	14.0
23	6.0	5.0	2.0	0.0	3.5	3.0	13.0	17.5	16.5	15.5	14.0	13.5
24	6.5	5.0	2.0	4.0	4.0	3.0	11.0	17.5	16.5	15.5	14.0	12.0
25	7.0	5.0	2.0	4.0	3.5	2.0	9.5	19.0	16.0	17.5	13.0	11.5
26	6.5	5.0	3.0	3.5	3.5	3.0	9.0	19.0	16.0	16.5	13.0	12.0
27	6.0	8.0	2.0	3.5	3.0	4.5	10.0	19.0	17.5	15.5	15.5	12.5
28	6.0	8.0	2.0	2.5	2.0	6.0	10.0	17.0	17.0	14.5	16.5	12.5
29	3.5	4.5	3.0	1.0	---	5.0	9.5	15.0	17.0	15.0	18.5	11.5
30	6.0	3.5	1.5	1.0	---	7.5	9.5	15.5	16.5	15.5	17.0	12.0
31	6.5	---	1.5	1.5	---	10.0	---	15.0	---	17.0	17.0	---
MEAN	9.5	6.0	3.0	2.5	3.0	4.0	9.0	14.0	15.0	17.5	16.0	14.5

01509150 GRIDLEY CREEK ABOVE EAST VIRGIL, NY

LOCATION.--Lat 42°30'04", long 76°07'38", Cortland County, Hydrologic Unit 02050102, on right bank 100 ft (30 m) downstream from bridge on Tone Road, 250 ft (75 m) south of State Highway 90, 1.6 mi (2.6 km) northwest of East Virgil, 3.2 mi (5.1 km) northwest of Messengerville, and 3.5 mi (5.6 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--10.4 mi² (26.9 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge measurements, seepage investigation, water year 1974. July 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,270.00 ft (387.096 m) above mean sea level.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,080 ft³/s (116 m³/s) Oct. 9, 1976; maximum gage height, 9.33 ft (3.844 m) Sept. 18, 1977; minimum discharge, 0.9 ft³/s (0.025 m³/s) Aug. 8, 1975, gage height, 4.74 ft (1.445 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1330	*4,080 116	8.19 2.496	Sept. 16	1430	910 25.8	8.46 2.579
Mar. 4	2215	800 22.7	6.95 2.118	Sept. 18	2200	†3,500 99.1	*9.33 2.844
Mar. 10	1615	968 27.4	7.14 2.176	Sept. 20	0400	1,480 41.9	8.79 2.679
Mar. 13	0900	3,430 97.1	8.49 2.588	Sept. 25	0400	690 19.5	8.27 2.521
Mar. 29	1515	768 21.7	7.35 2.240				

† About.

Minimum daily discharge, 1.6 ft³/s (0.05 m³/s) July 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	37	4.6	6.6	4.2	43	54	20	1.7	1.6	2.2	2.4
2	6.2	25	6.4	7.2	4.0	37	45	20	1.9	1.6	2.2	2.4
3	5.7	23	6.2	7.0	4.0	32	63	19	2.2	1.7	2.0	2.4
4	5.4	24	5.2	7.0	4.2	240	35	19	2.6	1.7	2.0	2.2
5	4.8	18	4.8	6.8	4.0	286	48	22	2.4	2.4	1.8	2.4
6	4.5	15	4.2	6.6	3.8	96	31	19	2.9	2.2	2.5	2.4
7	5.4	14	16	6.4	3.8	56	25	19	3.8	2.0	3.0	2.4
8	34	13	18	6.0	3.5	55	22	16	2.9	3.6	3.5	2.2
9	748	13	9.4	5.6	3.4	235	20	17	4.8	2.2	6.0	2.2
10	125	12	7.6	5.4	3.4	407	20	21	6.6	2.2	3.5	2.0
11	68	11	7.2	5.2	4.0	364	20	17	4.0	2.7	3.0	2.0
12	50	11	6.2	5.8	5.5	502	20	13	3.1	3.3	2.6	2.0
13	41	10	5.2	6.4	7.8	1500	20	11	2.6	3.1	2.2	3.3
14	49	10	4.6	6.8	8.9	230	20	8.9	2.4	3.1	2.0	66
15	36	9.0	4.8	7.2	9.4	101	20	7.8	2.2	2.9	3.0	7.8
16	32	8.4	5.0	7.2	9.0	79	20	6.3	1.9	5.4	1.9	175
17	27	8.0	5.2	6.0	8.0	57	20	5.1	2.6	5.4	20	67
18	24	7.4	5.2	5.4	7.0	41	20	4.5	14	2.7	6.0	299
19	34	7.2	5.0	5.0	6.4	35	20	3.6	16	2.4	3.5	158
20	110	6.8	7.4	5.6	6.2	30	19	2.9	5.4	1.9	3.0	305
21	70	6.4	10	5.6	6.0	30	18	3.1	3.8	3.1	2.6	72
22	45	6.0	9.0	5.4	5.8	29	18	4.0	2.9	2.4	3.5	40
23	70	5.6	8.6	5.0	6.2	28	32	3.6	2.4	1.9	3.8	28
24	100	5.2	8.4	5.0	11	26	54	4.8	2.2	1.7	3.6	25
25	52	5.0	8.0	5.3	149	29	30	8.5	2.0	18	3.8	167
26	38	5.0	9.0	5.3	51	26	22	5.1	2.0	4.5	2.9	80
27	30	6.0	8.4	5.8	73	28	22	3.6	2.4	2.6	2.6	36
28	24	7.0	7.4	8.0	102	73	20	2.7	2.4	2.2	2.4	30
29	19	8.0	7.0	7.0	---	272	20	2.2	2.7	2.0	2.4	23
30	14	4.6	6.6	6.0	---	139	20	1.9	1.9	2.0	2.6	20
31	137	---	6.2	5.0	---	122	---	1.7	---	1.9	2.4	---
TOTAL	2015.5	341.6	226.8	188.6	514.5	5228	818	313.3	110.7	96.4	108.5	1629.1
MEAN	65.0	11.4	7.32	6.08	18.4	169	27.3	10.1	3.69	3.11	3.50	54.3
MAX	748	37	18	8.0	149	1500	63	22	16	18	20	305
MIN	4.5	4.6	4.2	5.0	3.4	26	18	1.7	1.7	1.6	1.8	2.0
CFSM	6.25	1.10	.70	.58	1.77	16.3	2.63	.97	.35	.30	.34	5.22
IN.	7.21	1.22	.81	.67	1.84	18.70	2.93	1.12	.40	.34	.39	5.83

CAL YR 1976	TOTAL	10412.9	MEAN	28.5	MAX	748	MIN	2.7	CFSM	2.74	IN	37.24
WTR YR 1977	TOTAL	11591.0	MEAN	31.8	MAX	1500	MIN	1.6	CFSM	3.06	IN	41.46

SUSQUEHANNA RIVER BASIN

01509150 GRIDLEY CREEK ABOVE EAST VIRGIL, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. /100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT 06...	1430	4.5	243	7.7	14.0	9.8	94	210	27	89
NOV 23...	0900	5.4	220	6.8	2.5	12.4	91	60	F1	--
JAN 17...	1030	5.4	246	6.6	.0	14.8	101	80	20	--
FEB 14...	0930	8.9	222	7.6	.0	13.0	89	B1200	29	--
MAR 17...	1400	52	119	6.6	3.0	11.8	91	190	F3	--
APR 27...	1400	21	138	7.3	12.0	10.4	101	44	38	--
MAY 24...	0900	3.5	262	7.6	14.0	8.7	88	B160	56	--
JUN 14...	1400	2.4	310	7.2	14.0	7.8	78	B24	F8	--
JUL 20...	1400	1.9	295	7.7	23.0	7.5	88	530	B122	--
AUG 24...	0900	3.8	265	7.4	14.5	8.9	91	470	B170	--

DATE	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CAC03 (MG/L)
OCT 06...	--	94	7	31	4.0	4.7	1.1	106	0	87
NOV 23...	98	88	18	27	5.1	5.4	.9	86	0	71
JAN 17...	B12	98	13	27	5.0	5.2	.9	91	0	75
FEB 14...	420	70	21	21	4.2	8.1	1.0	60	0	49
MAR 17...	B13	42	12	13	2.4	4.5	.8	37	0	30
APR 27...	B14	51	15	15	3.3	5.2	.9	44	0	36
MAY 24...	36	110	32	35	6.4	6.1	1.2	100	0	82
JUN 14...	230	130	24	40	7.4	7.3	1.2	130	0	110
JUL 20...	550	130	22	39	7.6	6.6	1.2	130	0	110
AUG 24...	480	130	49	36	10	11	1.3	100	0	82

B Results based on colony count outside the acceptable range (non-ideal colony count).

SUSQUEHANNA RIVER BASIN

227

01509150 GRIDLEY CREEK ABOVE EAST VIRGIL, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE PLUS NITRITE (N) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
OCT										
06...	11	10	.1	5.1	114	.40	.01	.41	60	10
NOV										
23...	11	8.8	.1	4.4	105	.64	.00	.64	60	0
JAN										
17...	14	13	.1	4.6	115	.79	.01	.80	80	10
FEB										
14...	12	21	.1	4.1	101	.87	.01	.88	140	10
MAR										
17...	10	6.2	.1	4.2	59	.77	.00	.77	420	20
APR										
27...	11	7.6	.1	3.9	69	.48	.01	.49	130	0
MAY										
24...	15	12	.1	2.3	128	.38	.01	.39	80	50
JUN										
14...	15	21	.0	4.6	162	.56	.00	.56	110	10
JUL										
20...	17	17	.0	5.5	158	.42	.01	.43	40	10
AUG										
24...	14	13	.0	3.5	135	.41	.00	.41	40	10

SUSQUEHANNA RIVER BASIN

01510000 OTSELIC RIVER AT CINCINNATUS, NY

LOCATION.--Lat 42°32'28", long 75°53'58", Cortland County, Hydrologic Unit 02050102, on right bank 150 ft (46 m) upstream from Mead Brook, and 300 ft (91 m) downstream from bridge on County Highway 159 at Cincinnatus.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--June 1938 to September 1964, October 1969 to current year.

REVISED RECORDS.--WRD NY 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,031.67 ft (314.328 m) above mean sea level.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--34 years (1939-64, 1970-77), 273 ft³/s (7.731 m³/s), 25.22 in/yr (641 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,390 ft³/s (238 m³/s) Dec. 30, 1942; maximum gage height, 10.68 ft (3.255 m) Apr. 4, 1950; minimum discharge, 3.8 ft³/s (0.11 m³/s) Sept. 25, 1939; minimum gage height, 0.35 ft (0.107 m) Sept. 5, 1973 (result of regulation).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s (70.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1630	5,960 169	9.70 2.957	Sept. 19	0015	2,880 81.6	6.69 2.039
Mar. 13	1815	*6,730 191	*10.05 3.063	Sept. 21	0715	4,150 118	7.99 2.435
Mar. 30	0030	3,590 102	7.44 2.268				

Minimum discharge, 29 ft³/s (0.82 m³/s) Aug. 4; minimum gage height, 0.55 ft (0.168 m) July 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	204	587	140	120	66	503	1280	225	64	44	38	91
2	180	439	150	120	66	401	850	211	72	41	34	88
3	164	398	130	120	66	357	953	205	65	39	31	84
4	145	386	140	110	64	540	686	182	59	38	30	80
5	130	359	130	110	64	1340	731	240	56	36	30	74
6	119	323	140	110	64	935	655	216	54	39	33	73
7	113	292	533	100	62	651	492	182	70	40	34	72
8	354	269	510	98	62	552	439	166	63	50	35	70
9	2870	247	323	96	62	766	359	190	58	53	36	65
10	3350	240	320	94	64	1490	342	271	84	41	56	62
11	1140	229	310	88	64	1760	324	350	72	38	174	57
12	642	204	260	90	72	2060	316	271	58	41	104	54
13	496	194	220	88	90	5050	305	229	53	38	95	63
14	536	186	190	88	110	4170	285	201	50	37	78	450
15	464	179	200	86	100	1910	249	180	48	33	73	254
16	420	167	180	84	98	1240	225	162	45	34	68	743
17	339	155	180	80	96	904	205	148	44	43	231	1060
18	295	155	170	80	92	667	190	133	78	37	172	869
19	264	155	150	80	90	560	178	157	176	34	125	1750
20	290	155	170	78	88	460	166	137	94	33	101	2280
21	1190	141	210	76	86	429	155	115	62	40	91	2810
22	737	135	170	74	88	433	148	101	65	36	145	1350
23	514	130	180	74	90	387	199	94	57	32	137	866
24	529	126	170	74	94	353	776	94	51	30	125	676
25	723	119	170	74	380	313	794	247	49	86	125	1750
26	682	122	160	74	485	305	502	139	60	102	107	1560
27	474	160	150	72	430	303	390	102	54	58	94	1550
28	408	170	140	70	696	439	330	86	48	44	85	955
29	371	198	140	72	---	1980	283	77	51	39	88	768
30	328	140	120	68	---	2700	249	71	50	36	126	564
31	775	---	120	66	---	2510	---	66	---	37	102	---
TOTAL	19246	6760	6276	2714	3889	36468	13056	5248	1910	1329	2803	21188
MEAN	621	225	202	87.5	139	1176	435	169	63.7	42.9	90.4	706
MAX	3350	587	533	120	696	5050	1280	350	176	102	231	2810
MIN	113	119	120	66	62	303	148	66	44	30	30	54
CFSM	4.22	1.53	1.37	.60	.95	8.00	2.96	1.15	.43	.29	.61	4.80
IN.	4.87	1.71	1.59	.69	.98	9.23	3.30	1.33	.48	.34	.71	5.36
CAL YR 1976	TOTAL	140544	MEAN 384	MAX 3350	MIN 55	CFSM 2.61	IN 35.57					
WTR YR 1977	TOTAL	120887	MEAN 331	MAX 5050	MIN 30	CFSM 2.25	IN 30.59					

01511000 WHITNEY POINT LAKE AT WHITNEY POINT, NY

LOCATION.--Lat 42°20'34", long 75°57'57", Broome County, Hydrologic Unit 02050102, on left bank at control-gate structure for Whitney Point Dam on Otselic River, 0.3 mi (0.5 km) upstream from spillway, 0.9 mi (1.4 km) upstream from mouth, and 1.0 mi (1.6 km) north of Whitney Point.

DRAINAGE AREA.--257 mi² (666 km²).

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WRD NY 1968: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to October 1970, published as "Whitney Point Reservoir at Whitney Point."

REMARKS.--Lake is formed by earthfill dam with concrete spillway, completed by Corps of Engineers in 1942 for flood control; first used for flood regulation on Mar. 9, 1942. Usable capacity, 86,440 acre-ft (107 hm³) between elevations 950.0 ft or 289.56 m (sill of gates) and 1,010.0 ft or 307.85 m (crest of spillway) above mean sea level. Dead storage, 28 acre-ft (34,500 m³). Figures given herein represent total contents. Discharge is controlled by operation of three gates. Water is stored during high flows and released when downstream conditions warrant. Lake is used for flood control and recreation.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,005.0 ft (306.32 m) Mar. 23, 1948, contents, 71,440 acre-ft (88.1 hm³); minimum, 950.4 ft (289.68 m) Sept. 2-4, 1953, contents, 36 acre-ft (44,400 m³).

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 998.35 ft (304.297 m) Mar. 17, contents, 55,600 acre-ft (68.6 hm³); minimum, 965.64 ft (294.327 m) Apr. 14, contents, 4,871 acre-ft (6.01 hm³).

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1937)

960.0	1,250	980.0	22,240
965.0	4,260	985.0	30,200
970.0	9,270	990.0	38,980
975.0	15,290	1,000.0	59,220

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	972.85	974.09	971.40	966.06	966.13	967.37	985.25	971.20	973.01	973.20	972.81	973.15
2	972.89	973.22	970.25	966.11	965.16	966.48	986.53	971.44	973.11	973.14	972.87	973.09
3	972.90	973.06	969.12	966.17	965.19	966.07	986.73	971.74	973.18	973.07	972.92	973.04
4	972.89	973.08	968.25	966.19	965.20	966.43	985.52	971.99	973.10	973.00	972.96	972.98
5	973.00	973.16	967.47	966.08	965.19	966.72	982.84	972.37	973.01	973.01	973.01	973.00
6	973.08	973.11	966.71	965.95	966.15	970.63	980.25	972.81	972.95	973.06	973.09	973.02
7	973.16	973.01	966.51	965.88	966.11	970.23	977.31	972.93	973.01	973.07	973.17	973.04
8	973.26	973.12	967.55	965.99	965.07	968.44	974.37	972.92	973.08	973.04	973.20	973.07
9	975.05	973.17	967.04	966.10	966.03	967.00	972.90	973.02	973.15	973.01	973.22	973.06
10	984.18	973.19	966.27	966.21	965.99	967.88	971.72	973.19	973.18	972.97	973.08	973.06
11	988.47	973.20	966.08	966.20	965.96	970.43	970.38	973.29	973.15	972.95	973.04	973.06
12	987.77	973.15	966.04	966.11	965.99	973.48	968.46	973.21	973.07	972.96	973.16	973.04
13	984.96	973.03	965.97	966.03	966.08	978.65	966.61	973.02	973.00	972.99	973.07	973.04
14	982.01	972.92	965.92	965.97	966.21	989.07	965.77	972.89	972.98	972.99	972.98	973.40
15	979.03	972.95	966.16	965.94	966.38	994.78	965.87	972.90	972.98	972.99	972.99	973.64
16	976.43	972.99	966.16	966.00	965.35	997.26	965.92	973.03	972.99	972.98	972.99	973.29
17	974.80	972.98	966.03	966.06	965.24	998.08	965.92	973.16	973.01	972.96	973.24	974.80
18	973.32	972.98	965.97	966.09	965.10	996.54	965.93	973.17	973.09	972.98	973.47	973.94
19	972.99	972.98	966.13	966.11	965.99	993.86	965.96	973.16	973.27	972.98	973.39	976.19
20	973.05	972.95	966.36	966.13	966.10	990.67	966.07	973.16	973.30	972.98	973.21	979.41
21	974.44	972.91	966.50	966.14	966.20	987.36	966.12	973.12	973.08	972.98	973.01	984.18
22	976.76	972.86	966.36	966.15	965.22	983.85	966.01	973.04	972.92	973.00	973.00	987.72
23	975.75	972.87	966.20	966.14	966.13	980.47	965.95	972.97	972.94	972.98	973.15	988.52
24	973.60	972.88	966.18	966.12	966.11	976.84	967.07	973.08	972.99	972.95	973.20	986.81
25	973.39	972.89	966.07	966.11	966.40	973.23	968.93	973.22	973.02	973.02	973.19	987.13
26	973.11	972.87	966.23	966.10	966.73	971.05	969.66	973.06	973.08	973.18	973.13	990.01
27	972.82	972.80	966.14	966.09	965.72	969.27	969.94	972.95	973.13	973.16	973.06	992.44
28	972.82	973.08	966.00	966.06	967.22	967.89	970.31	972.94	973.17	973.05	973.05	992.45
29	972.86	973.04	966.13	966.02	---	968.14	970.57	972.91	973.22	972.92	973.10	990.72
30	972.84	972.44	966.14	965.99	---	975.33	970.93	972.87	973.24	972.82	973.19	987.92
31	973.46	---	966.05	966.10	---	981.27	---	972.93	---	972.75	973.20	---
MEAN	975.74	973.04	966.75	966.08	966.23	977.33	971.86	972.83	973.08	973.00	973.10	978.74
MAX	988.47	974.09	971.40	966.21	967.22	998.08	986.73	973.29	973.30	973.47	992.45	
MIN	972.82	972.44	965.92	965.88	965.96	966.07	965.77	971.20	972.92	972.75	972.81	972.98
†	14,235	11,406	5,254	5,333	6,723	28,214	10,464	12,637	12,977	12,397	12,914	32,406
‡	+27.7	-47.5	-100	+1.3	+25.0	+350	-298	+35.3	+5.7	-9.4	+8.4	+328

CAL YR 1976 MEAN 971.79 MAX 989.26 MIN 965.72 † -0.2
WTR YR 1977 MEAN 972.35 MAX 998.08 MIN 965.77 † +27.5

† Contents, in acre-feet, at end of month.

‡ Change in contents, equivalent in cubic feet per second.

SUSQUEHANNA RIVER BASIN

01512500 CHENANGO RIVER NEAR CHENANGO FORKS, NY

LOCATION.--Lat 42°13'05", long 75°50'55", Broome County, Hydrologic Unit 02050102, on left bank in Chenango Valley State Park, and 1.2 mi (1.9 km) downstream from Tioughnioga River and village of Chenango Forks.

DRAINAGE AREA.--1,483 mi² (3,841 km²).

PERIOD OF RECORD.--November 1912 to current year.

GAGE.--Water-stage recorder. Datum of gage is 871.73 ft (265.703 m) above mean sea level (levels by Corps of Engineers). Nov. 11, 1912 to Oct. 1, 1914, nonrecording gage and Oct. 2, 1914 to Aug. 2, 1936, water-stage recorder at site 300 ft (91 m) upstream at same datum.

REMARKS.--Records good except those for winter periods, which are poor. Since March 1942, flood flows partly regulated by Whitney Point Lake (see station 01511000). Slight diversion from upstream tributaries for operation of Erie (Barge) Canal.

AVERAGE DISCHARGE.--64 years (1913-77), 2,424 ft³/s (68.65 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 96,000 ft³/s (2,720 m³/s) July 8, 1935, gage height, 20.3 ft (6.19 m), from floodmarks, from rating curve extended above 32,000 ft³/s (906 m³/s) on basis of slope-area measurement of peak flow; minimum, 84 ft³/s (2.38 m³/s) Sept. 19, 25, 1939, gage height, 2.24 ft (0.683 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 18,000 ft³/s (510 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2100	20,400 578	10.00 3.048	Mar. 14	0700	*30,000 850	*11.93 3.636

Minimum discharge, 284 ft³/s (8.04 m³/s) Aug. 5, gage height, 2.66 ft (0.811 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1530	6900	1860	880	600	8820	14400	2230	740	540	388	631
2	1350	5070	1700	860	600	5300	10200	2030	750	497	348	631
3	1270	3990	1600	840	600	4050	9720	1950	812	469	320	650
4	1140	3740	1500	820	580	5220	9270	1810	812	436	298	593
5	987	3720	1500	800	580	11200	8780	2400	760	409	305	482
6	931	3420	1600	800	580	11000	8320	2360	700	416	334	447
7	887	3180	2100	780	580	8330	7080	2050	650	467	405	422
8	1240	2840	3000	780	580	7160	6020	1750	700	486	438	397
9	9660	2600	2500	760	580	7110	4370	1720	720	563	482	372
10	14500	2490	2400	760	600	10200	4000	2240	822	499	528	356
11	11600	2440	2100	760	660	12300	3980	2940	920	423	760	334
12	8930	2260	1900	740	720	12700	3910	2870	822	418	801	320
13	7780	2120	1800	740	780	19900	3580	2430	680	424	650	334
14	7500	1990	1700	720	820	28900	2730	2080	670	403	555	1930
15	6940	1870	1600	720	860	20500	2270	1760	612	440	447	2980
16	5960	1800	1700	700	820	13000	2070	1540	583	391	422	3620
17	4720	1690	1600	680	800	10700	1870	1430	574	402	1440	10100
18	3790	1630	1400	690	780	10200	1730	1400	660	440	1720	8290
19	2810	1670	1300	660	760	9160	1610	1430	1120	446	1030	12100
20	2700	1650	1200	660	740	8290	1470	1550	1120	424	812	14700
21	9750	1600	1300	660	740	7730	1440	1400	920	387	690	15300
22	9580	1480	1500	640	740	7870	1460	1270	741	380	760	13500
23	7760	1380	1400	640	760	7920	1450	1130	592	345	1240	9330
24	6200	1330	1300	640	820	6930	5240	969	532	319	920	7900
25	7040	1260	1200	640	3000	5860	8060	1800	518	441	854	12900
26	7220	1250	1100	620	6000	4690	5950	2050	597	771	791	11300
27	5400	1360	1000	620	8000	4480	4460	1320	632	715	690	11700
28	4200	1640	980	620	11200	5290	3550	1050	567	565	546	12100
29	3740	1950	960	660	---	10500	2960	943	531	503	491	10500
30	3360	2080	920	620	---	15200	2490	851	537	474	574	8770
31	5280	---	900	600	---	16800	---	760	---	420	690	---
TOTAL	165755	72400	48620	22100	44880	317210	144440	53513	21394	14313	20729	172989
MEAN	5347	2413	1568	713	1603	10230	4815	1726	713	462	669	5766
MAX	14500	6900	3000	880	11200	28900	14400	2940	1120	771	1720	15300
MIN	887	1250	900	600	580	4050	1440	760	518	319	298	320
CAL YR 1976	TOTAL	1259810	MEAN	3442	MAX	18800	MIN	710				
WTR YR 1977	TOTAL	1098343	MEAN	3009	MAX	28900	MIN	298				

SUSQUEHANNA RIVER BASIN

231

01513110 SUSQUEHANNA RIVER AT JOHNSON CITY, NY

LOCATION.--Lat 42°06'37", long 75°58'30", Broome County, Hydrologic Unit 02050103, at intake of the New York State Electric and Gas Corp., Goudey Station, at Johnson City, 100 ft (30 m) upstream from Little Choconut Creek, 0.5 mi (0.8 km) downstream from C.F.J. Memorial Bridge, 3.5 mi (5.6 km) downstream from Chenango River and 4.8 mi (7.7 km) upstream from discontinued discharge station (01513500) at Vestal.

DRAINAGE AREA.--3,891 mi² (10,078 km²), below mouth of Chenango River.

PERIOD OF RECORD.--Water years 1956 to current year. Prior to October 1967, published as 01513500, "at Vestal"; however, all water-temperature records were collected at present site.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1955 to current year.

REMARKS.--During winter periods water is at times recirculated from inside the plant through the intake to prevent icing conditions, thus resulting in reported water temperatures that are slightly above actual river temperatures.

COOPERATION.--Water-temperature records furnished by the New York State Electric and Gas Corp.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 28.0°C July 29, 1963, Aug. 18, 1965, and July 18, 1968; minimum, freezing point on many days during winter periods, except 1967 and 1976.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 27.0°C July 21; minimum, freezing point Dec. 2, 10.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ONCE DAILY AT 0800)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	5.0	1.0	1.0	1.0	1.0	6.0	10.0	21.0	23.0	24.0	22.0
2	13.0	4.0	0.0	1.0	1.0	1.0	5.0	12.0	20.0	23.0	23.0	24.0
3	13.0	4.0	1.0	1.0	1.0	1.0	4.0	12.0	19.0	20.0	23.0	24.0
4	13.0	4.0	1.0	1.0	1.0	1.0	6.0	12.0	18.0	22.0	22.0	22.0
5	14.0	5.0	1.0	1.0	1.0	1.0	5.0	11.0	20.0	22.0	23.0	22.0
6	15.0	4.0	1.0	1.0	1.0	1.0	4.0	12.0	19.0	23.0	24.0	22.0
7	15.0	4.0	1.0	1.0	1.0	1.0	4.0	13.0	16.0	22.0	23.0	21.0
8	14.0	3.0	1.0	1.0	1.0	1.0	4.0	13.0	14.0	21.0	23.0	20.0
9	13.0	2.0	1.0	1.0	1.0	2.0	3.0	12.0	16.0	23.0	24.0	21.0
10	10.0	2.0	0.0	1.0	1.0	2.0	3.0	9.0	14.0	22.0	24.0	21.0
11	8.0	2.0	1.0	1.0	1.0	2.0	4.0	9.0	13.0	24.0	23.0	19.0
12	8.0	2.0	1.0	1.0	1.0	4.0	7.0	10.0	17.0	22.0	25.0	17.0
13	9.0	1.0	1.0	1.0	1.0	5.0	10.0	12.0	18.0	23.0	22.0	18.0
14	9.0	1.0	1.0	1.0	1.0	4.0	12.0	12.0	19.0	24.0	23.0	17.0
15	9.0	1.0	1.0	1.0	1.0	4.0	11.0	12.0	18.0	24.0	22.0	16.0
16	9.0	1.0	1.0	1.0	1.0	4.0	11.0	13.0	20.0	26.0	22.0	16.0
17	8.0	1.0	1.0	1.0	1.0	4.0	10.0	15.0	22.0	26.0	22.0	14.0
18	8.0	2.0	1.0	1.0	1.0	2.0	11.0	17.0	21.0	25.0	19.0	15.0
19	6.0	2.0	1.0	1.0	1.0	1.0	12.0	18.0	21.0	26.0	18.0	16.0
20	7.0	3.0	1.0	1.0	1.0	2.0	14.0	18.0	21.0	26.0	18.0	17.0
21	8.0	2.0	1.0	1.0	1.0	2.0	14.0	19.0	20.0	27.0	18.0	16.0
22	7.0	2.0	1.0	1.0	1.0	2.0	15.0	21.0	18.0	26.0	19.0	15.0
23	6.0	1.0	1.0	1.0	1.0	1.0	17.0	21.0	19.0	23.0	19.0	14.0
24	6.0	2.0	1.0	1.0	1.0	1.0	14.0	22.0	21.0	23.0	19.0	14.0
25	6.0	2.0	1.0	1.0	1.0	1.0	10.0	21.0	21.0	23.0	17.0	13.0
26	6.0	2.0	1.0	1.0	1.0	1.0	9.0	20.0	19.0	21.0	18.0	12.0
27	5.0	3.0	1.0	1.0	1.0	2.0	9.0	19.0	21.0	20.0	19.0	13.0
28	4.0	5.0	1.0	1.0	1.0	3.0	10.0	20.0	23.0	21.0	21.0	13.0
29	3.0	4.0	1.0	1.0	---	4.0	9.0	19.0	22.0	23.0	23.0	13.0
30	4.0	1.0	1.0	1.0	---	5.0	8.0	18.0	22.0	21.0	24.0	13.0
31	5.0	---	1.0	1.0	---	5.0	---	20.0	---	22.0	23.0	---
MEAN	9.0	2.5	1.0	1.0	1.0	2.5	8.5	15.0	19.0	23.0	21.5	17.5

SUSQUEHANNA RIVER BASIN

01513719 EAST BRANCH NANTICOKE CREEK ABOVE GLEN AUBREY, NY

LOCATION.--Lat 42°15'36", long 76°00'32", Broome County, Hydrologic Unit 02050103, on left bank 0.2 mi (0.3 km) upstream from bridge on State Highway 26 at Glen Aubrey, and 4.1 mi (6.6 km) upstream from mouth.

DRAINAGE AREA.--12.8 mi² (33.2 km²).

PERIOD OF RECORD.--September 1976 to September 1977 (discontinued). No winter records.

GAGE.--Water-stage recorder. Altitude of gage is 990 ft (302 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR CURRENT PERIOD.--September 1976: Maximum discharge during period, 79 ft³/s (2.24 m³/s) Sept. 27, gage height, 2.50 ft (0.76 m); minimum daily, 1.3 ft³/s (0.04 m³/s) Sept. 8, 9.
 Water year 1977: Maximum discharge, 2,840 ft³/s (80.4 m³/s) Oct. 10, gage height, 10.22 ft (3.115 m), from floodmarks; minimum recorded daily, 0.73 ft³/s (0.02 m³/s) Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, SEPTEMBER 1976
MEAN VALUES

DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S
1	2.3	6	1.6	11	3.4	16	2.0	21	20	26	9.4
2	2.5	7	1.5	12	3.2	17	19	22	9.1	27	43
3	2.2	8	1.3	13	2.6	18	22	23	7.1	28	19
4	1.9	9	1.3	14	2.0	19	17	24	5.8	29	15
5	1.8	10	5.6	15	1.7	20	8.8	25	5.4	30	9.1
SEPTEMBER 1976		TOTAL 246.6		MEAN 8.22		MAX 43		MIN 1.3		CFSM 0.64	IN. 0.72

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	42				46	25	6.8	1.5	1.3	1.1	1.1
2	6.8	28				42	20	8.3	1.6	1.1	1.1	2.6
3	6.6	24				44	35	8.3	1.4	1.0	1.1	3.6
4	6.1	28				207	18	7.4	1.3	.95	1.1	2.5
5	5.8	24				130	17	75	1.2	1.5	1.8	1.8
6	5.1	22				67	17	28	1.3	1.2	2.2	1.8
7	5.4	19				39	16	17	1.3	1.6	2.3	1.5
8	13	16				36	15	13	1.4	2.5	1.9	1.4
9	16	14				67	14	16	1.7	2.3	1.6	1.4
10	107	14				86	12	18	2.9	1.6	1.5	1.4
11	38	13				65	11	13	2.0	1.3	1.3	1.4
12	25	11				58	10	10	1.5	1.2	1.3	1.1
13	22	10				300	8.8	8.6	1.4	1.0	1.2	1.3
14	26	9.4				150	8.0	7.4	1.3	.95	1.1	28
15	19	9.1				100	6.8	6.1	1.4	.87	1.2	8.8
16	17	8.6				70	6.4	5.4	1.3	.80	.95	122
17	15	7.7				50	5.4	4.8	1.4	.80	1.1	87
18	10	7.7				40	4.8	4.8	1.5	.80	.95	57
19	5.8	7.4				30	4.4	6.6	1.9	.95	.87	121
20	5.8	7.1				20	4.0	4.2	1.8	.87	.87	198
21	68	6.6				20	3.4	3.4	1.7	.95	.80	91
22	38	6.4				50	3.2	2.9	1.3	1.0	1.1	45
23	26	5.8				150	7.4	2.6	1.1	1.0	1.0	29
24	43	5.6				50	110	2.3	1.0	.87	1.0	59
25	62	5.4				30	44	2.3	1.1	5.7	1.0	199
26	60	5.8				30	16	1.9	1.1	2.6	1.0	143
27	29	7.7				41	12	1.9	1.2	1.5	1.0	75
28	22	6.8				125	10	1.8	1.1	1.2	.80	39
29	19	9.1				212	8.6	1.6	1.4	1.1	.78	26
30	17	7.1				70	7.0	1.5	1.5	1.1	.84	20
31	49	---				30	---	1.5	---	1.0	.73	---
TOTAL	796.1	388.3				2455	480.2	292.4	43.6	42.61	36.59	1370.7
MEAN	25.7	12.9				79.2	16.0	9.43	1.45	1.37	1.18	45.7
MAX	107	42				300	110	75	2.9	5.7	2.3	199
MIN	5.1	5.4				20	3.2	1.5	1.0	.80	.73	1.1
CFSM	2.01	1.01				6.19	1.25	.74	.11	.11	.09	3.57
IN.	2.31	1.13				7.13	1.40	.85	.13	.12	.11	3.98

01513790 NANTICOKE CREEK AT UNION CENTER, NY

LOCATION.--Lat 42°08'56", long 76°04'00", Broome County, Hydrologic Unit 02050103, on left bank 125 ft (38.1 m) upstream from bridge on County Highway 43 (Nanticoke Drive) at Union Center, and 0.2 mi (0.32 km) upstream from Bradley Creek.

DRAINAGE AREA.--90.6 mi² (234.7 km²).

PERIOD OF RECORD.--Occasional discharge measurements, water years 1953, 1956, 1962-65, 1968, 1975, and annual maximum, water years 1956, 1963-64, 1966-68, 1970-75. September 1975 to September 1977 (discontinued). No winter record in 1977.

GAGE.--Water-stage recorder. Datum of gage is 849.58 ft (258.952 m) above mean sea level. July 1962 to July 1976, crest-stage gage at site 10 ft (3.05 m) upstream at different datum.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,500 ft³/s (241 m³/s) Sept. 26, 1975, gage height, 14.25 ft (4.343 m); minimum, 3.3 ft³/s (0.09 m³/s) July 25, 1977, gage height, 2.59 ft (0.789 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1955 reached a discharge of 9,900 ft³/s (280 m³/s), on basis of contracted-opening measurement of peak flow (no gage height referenced to current datum is available); maximum gage height, 14.5 ft (4.42 m) Oct. 12, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,600 ft³/s (74 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1600	*6,730 191	*13.08 3.987	Sept. 25	0600	3,930 111	10.16 3.097
Mar. 13	1200	2,610 73.9	8.32 2.536				

Minimum discharge, 3.3 ft³/s (0.09 m³/s) July 25, gage height, 2.59 ft (0.789 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	345				357	337	60	9.6	7.1	5.0	5.0
2	40	202				235	291	59	9.2	7.1	6.5	15
3	35	160				205	424	62	9.2	7.1	5.3	14
4	31	175				211	220	51	8.8	7.1	4.8	12
5	29	157				1050	212	449	8.8	6.8	9.6	11
6	24	145				261	180	267	8.8	7.4	17	11
7	24	122				349	140	152	10	7.7	20	10
8	26	106				267	112	104	8.4	10	17	9.2
9	2470	89				353	89	114	8.8	10	12	7.4
10	1070	87				309	80	132	17	7.7	8.8	6.2
11	449	89				401	74	93	14	7.0	8.8	5.3
12	305	71				393	66	72	10	6.5	8.0	5.0
13	212	63				1590	58	60	8.0	6.0	6.8	5.6
14	212	59				1050	51	50	8.0	5.5	6.8	112
15	145	55				743	45	42	8.0	5.0	6.5	62
16	132	50				393	40	36	8.0	4.6	5.9	525
17	102	44				247	37	32	8.0	4.4	5.9	610
18	82	46				182	33	29	8.4	4.2	5.6	309
19	71	47				155	31	27	8.4	3.9	5.0	409
20	200	46				127	28	28	8.0	3.7	4.7	726
21	1130	44				142	26	24	7.7	3.7	4.5	461
22	361	41				349	24	21	6.8	3.7	4.7	281
23	207	37				445	33	18	6.8	3.6	4.5	192
24	244	35				260	756	19	7.1	3.4	4.7	238
25	433	32				202	517	18	6.8	6.5	4.7	2190
26	453	31				185	257	15	6.8	15	4.5	1030
27	220	37				260	172	14	6.8	8.8	4.4	610
28	162	38				232	122	13	6.8	7.1	4.4	369
29	137	53				1210	89	12	7.1	5.9	4.2	238
30	116	44				658	72	11	7.1	5.9	4.5	160
31	615	---				370	---	10	---	5.3	4.2	---
TOTAL	10288	2550				14451	4616	2094	257.2	197.7	219.3	8638.7
MEAN	332	85.0				479	154	67.5	8.57	6.38	7.07	288
MAX	2970	345				1590	756	449	17	15	20	2190
MIN	24	31				127	24	10	6.8	3.4	4.2	5.0
CFSM	3.66	.94				5.29	1.70	.75	.09	.07	.08	3.18
IN.	4.22	1.05				6.10	1.90	.86	.11	.08	.09	3.55

SUSQUEHANNA RIVER BASIN

01514000 OWEGO CREEK NEAR OWEGO, NY

LOCATION.--Lat 42°07'40", long 76°16'17", Tioga County, Hydrologic Unit 02050103, on right bank 300 ft (91 m) upstream from bridge on State Highway 96, 0.5 mi (0.8 km) upstream from Catatunk Creek, and 1.5 mi (2.4 km) north of Owego.

DRAINAGE AREA.--185 mi² (479 km²).

PERIOD OF RECORD.--January 1930 to current year.

REVISED RECORDS.--WRD NY 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 819.82 ft (249.881 m) above mean sea level. Prior to July 8, 1935, water-stage recorder, and July 9, 1935 to Sept. 30, 1936, nonrecording gage at site 250 ft (76 m) downstream, and Oct. 1, 1936 to Oct. 1, 1962, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--47 years, 277 ft³/s (7.845 m³/s), 20.33 in/yr (516 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,500 ft³/s (666 m³/s) July 8, 1935, gage height, 11.50 ft (3.505 m) present datum, from floodmarks, from rating curve extended above 7,800 ft³/s (221 m³/s) on basis of slope-area measurement of peak flow; minimum, 8.1 ft³/s (0.23 m³/s) Aug. 13, 1965; minimum gage height, 0.21 ft (0.064 m) Aug. 21, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,800 ft³/s (108 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2000	*6,960 197	*8.51 2.594	Sept. 20	1200	4,660 132	6.80 2.073
Mar. 5	0200	3,840 109	6.08 1.853	Sept. 25	0730	6,520 185	8.23 2.509
Mar. 13	2230	5,010 142	7.09 2.161				

Minimum discharge, 13 ft³/s (0.37 m³/s) Aug. 4, 5, gage height, 0.25 ft (0.076 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	767	94	78	74	786	978	206	50	27	19	35
2	85	517	92	74	60	545	731	197	48	26	18	51
3	78	443	88	72	49	484	909	197	45	26	15	49
4	71	416	86	70	43	1470	565	182	45	26	14	67
5	64	377	82	70	32	2710	611	811	44	26	20	43
6	60	320	88	58	32	1480	585	498	45	30	31	36
7	57	279	550	66	32	883	403	301	50	50	35	30
8	92	258	512	64	33	689	352	261	44	70	30	28
9	2970	225	251	62	35	837	294	276	46	56	25	24
10	2540	215	220	54	36	1390	276	320	59	45	23	21
11	883	206	200	72	39	1540	258	250	52	36	22	18
12	546	177	180	80	44	1470	234	220	42	32	23	17
13	425	163	150	110	60	3380	218	190	37	29	20	20
14	461	152	140	72	130	2870	209	180	34	27	21	384
15	340	145	130	58	110	1330	197	170	33	25	20	258
16	332	132	120	50	90	909	185	150	30	23	17	645
17	261	123	120	60	88	649	177	140	28	22	85	1480
18	218	119	110	94	82	521	168	130	26	20	156	675
19	188	119	110	78	76	447	163	120	32	20	70	1800
20	215	117	110	54	70	368	157	110	34	21	41	3400
21	1590	112	200	47	72	344	150	100	31	21	32	1800
22	683	108	150	44	70	531	145	94	27	19	37	898
23	484	102	140	41	72	600	147	86	24	18	104	549
24	503	98	120	38	120	425	1060	82	22	17	63	469
25	964	94	110	38	1170	344	792	88	23	24	59	4480
26	916	92	100	38	876	328	457	76	26	92	54	2000
27	546	96	100	41	1110	381	348	68	23	36	38	1530
28	443	104	96	58	1560	831	286	62	21	26	31	830
29	377	119	90	80	---	2400	251	60	25	22	27	572
30	316	104	86	110	---	2210	225	56	26	21	32	414
31	1120	---	82	92	---	1690	---	52	---	19	45	---
TOTAL	17922	6299	4707	2053	6265	34843	11531	5733	1074	952	1227	22623
MEAN	578	210	152	66.2	224	1124	384	185	35.8	30.7	39.6	754
MAX	2970	767	550	110	1560	3380	1060	811	59	92	156	4480
MIN	57	92	82	38	32	328	145	52	21	17	14	17
CFSM	3.12	1.14	.82	.36	1.21	6.08	2.08	1.00	.19	.17	.21	4.08
IN.	3.60	1.27	.95	.41	1.26	7.01	2.32	1.15	.22	.19	.25	4.55

CAL YR 1976	TOTAL	129001	MEAN 352	MAX 3810	MIN 31	CFSM 1.90	IN 25.94
WTR YR 1977	TOTAL	115229	MEAN 316	MAX 4480	MIN 14	CFSM 1.71	IN 23.17

01515000 SUSQUEHANNA RIVER NEAR WAVERLY, NY

LOCATION.--Lat 41°59'05", long 76°30'05", Bradford County, Pa., Hydrologic Unit 02050103, on left bank 0.2 mi (0.3 km) upstream from Cayuta Creek, 0.4 mi (0.6 km) upstream from bridge on East Lockhart Street at Sayre, Pa., 1 mi (2 km) downstream from New York-Pennsylvania State line, and 2 mi (3 km) southeast of Waverly.

DRAINAGE AREA.--4,773 mi² (12,362 km²).

PERIOD OF RECORD.--February 1937 to current year.

REVISED RECORDS.--WRD NY 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 743.96 ft (226.759 m) above mean sea level (levels by Corps of Engineers). Prior to November 1939, at datum 1.0 ft (0.30 m) higher.

REMARKS.--Records good except those for winter periods, which are fair. Minor regulation by upstream lakes and reservoirs. Slight diversion from upstream tributaries for operation of Erie (Barge) Canal.

AVERAGE DISCHARGE.--40 years, 7,572 ft³/s (214.4 m³/s), 21.54 in/yr (547 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121,000 ft³/s (3,430 m³/s) June 23, 1972, gage height, 21.24 ft (6.474 m); minimum daily, 237 ft³/s (6.71 m³/s) Sept. 22, 23, 1964; minimum gage height, 0.52 ft (0.158 m) Sept. 24, 25, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a stage of about 21.4 ft (6.52 m), from flood profile (discharge, 128,000 ft³/s or 3,620 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 52,000 ft³/s (1,470 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 10	0800	66,300 1,880	14.61 4.453	Sept. 25	2100	65,100 1,840	14.44 4.401
Mar. 14	2300	*70,300 1,990	*15.16 4.621				

Minimum discharge, 848 ft³/s (24.0 m³/s) Aug. 4, gage height, 1.14 ft (0.347 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4410	20600	5020	2700	1600	27000	49700	9830	2260	1500	1030	1460
2	3740	17900	4560	2600	1600	20300	46100	8670	2130	1390	952	1630
3	3270	14400	4260	2600	1500	15900	38700	8060	2050	1280	907	1630
4	3030	12400	4060	2600	1500	16300	30500	7440	2160	1190	856	1530
5	2740	12100	3730	2600	1500	34500	26300	11700	2170	1130	879	1560
6	2490	11400	3920	2600	1500	38400	24900	14500	2030	1270	1020	1530
7	2280	10800	5670	2500	1500	31600	22400	11300	1990	1620	1930	1430
8	2320	10100	11000	2400	1500	23500	19600	9140	1850	1570	1990	1280
9	20300	9240	10000	2400	1500	20200	16700	7950	1840	1540	1580	1180
10	61200	8510	9000	2200	1600	22400	13500	8660	2090	1470	1380	1080
11	43000	8140	8000	2200	1700	31000	11500	9860	2290	1320	1290	998
12	29400	7700	7000	2200	1800	35100	10900	11100	2320	1190	1390	952
13	21500	7070	6200	2200	2000	44100	10300	11400	2300	1110	3540	926
14	18200	6610	5400	2100	2200	67400	9380	10200	2070	1070	2770	1330
15	16600	6220	5000	2100	2400	68500	8160	8700	1840	1080	2620	3810
16	16300	5930	5200	2100	2300	63600	7310	7450	1670	1200	2240	5490
17	14100	5640	5600	2000	2100	51000	6650	6580	1520	1160	1660	18800
18	12400	5250	5400	2000	2000	36000	6050	5960	1470	1100	2480	19800
19	10100	5020	4800	2000	1900	27400	5150	5660	1560	1090	4870	21000
20	8760	4980	4500	1900	1900	23100	5260	5490	2100	1100	3590	34600
21	25900	4870	4800	1900	1800	20600	4750	5700	2340	1070	2530	44700
22	41100	4730	5000	1900	1800	21000	4390	5040	2120	998	2080	43300
23	34600	4490	4700	1800	1900	25600	4200	4390	1890	968	2040	37300
24	25900	4190	4500	1800	3000	22000	7450	3950	1620	896	2300	26800
25	24000	3980	4200	1800	9000	18300	27500	4430	1500	887	2120	53500
26	23900	3780	4000	1700	15000	15300	32500	4980	1420	1050	2050	55100
27	20700	3710	3700	1700	17000	14000	25200	4960	1420	1290	1850	51900
28	16600	3910	3400	1600	27800	16600	18400	3780	1650	1550	1640	41400
29	13800	4550	3200	1800	---	27900	14300	3140	1760	1370	1430	32700
30	12300	5200	3000	1700	---	43600	11500	2850	1710	1290	1320	25300
31	15100	---	2800	1600	---	48500	---	2540	---	1140	1370	---
TOTAL	550090	233420	161620	65300	112900	971700	519250	225410	57140	37889	59704	534016
MEAN	17740	7761	5214	2106	4032	31350	17310	7271	1905	1222	1926	17800
MAX	61200	20600	11000	2700	27800	68500	49700	14500	2340	1620	4870	55100
MIN	2280	3710	2800	1600	1500	14000	4200	2540	1420	887	856	926
CFSM	3.72	1.83	1.09	.44	.84	6.57	3.63	1.52	.40	.26	.40	3.73
IN.	4.29	1.82	1.26	.51	.88	7.57	4.05	1.76	.45	.30	.47	4.16

CAL YR 1976	TOTAL	3906280	MEAN	10570	MAX	61200	MIN	2110	CFSM	2.24	IN	30.44
WTR YR 1977	TOTAL	3528439	MEAN	9667	MAX	68500	MIN	856	CFSM	2.03	IN	27.50

SUSQUEHANNA RIVER BASIN

01515050 SUSQUEHANNA RIVER AT SAYRE, PA

LOCATION.--Lat 41°58'52", long 76°30'26", Bedford County, Hydrologic Unit 02050103, at bridge on East Lockhart Street in Sayre, 0.4 mi (0.6 km) downstream from gaging station (01515000) at Waverly, N.Y.

(NOTE: WATER-QUALITY DATA FOR 1977 FOR THIS STATION ARE NOT AVAILABLE AT TIME OF PUBLICATION OF THIS REPORT; THEY WILL BE PUBLISHED IN "WATER RESOURCES DATA FOR PENNSYLVANIA.")

01520500 TIOGA RIVER AT LINDLEY, NY

LOCATION.--Lat 42°01'44", long 77°07'57", Steuben County, Hydrologic Unit 02050104, on left bank just downstream from bridge on County Highway 120 at Lindley, and 6 mi (10 km) upstream from Canisteo River. Water-quality sampling site at discharge station.

DRAINAGE AREA.--771 mi² (1,997 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1930 to current year.

REVISED RECORDS.--WSP 871: 1938. WRD NY 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 964.50 ft (293.980 m) above mean sea level. Prior to Feb. 9, 1937, nonrecording gage on bridge at same datum.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--47 years, 792 ft³/s (22.43 m³/s), 13.95 in/yr (354 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 128,000 ft³/s (3,620 m³/s) June 23, 1972, gage height, 26.27 ft (8.007 m), from floodmark in gage house, from rating curve extended above 31,000 ft³/s (878 m³/s) on basis of velocity-area and slope-area studies at gage height 19.2 ft (5.85 m) and conveyance study and slope-area measurements at gage heights 22.87 ft (6.971 m) and 26.27 ft (8.007 m); minimum, 6.1 ft³/s (0.17 m³/s) Sept. 1, 1939; minimum gage height, 2.80 ft (0.853 m) Sept. 11, 12, 1930.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10,200 ft³/s (289 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2200	12,300 348	12.57 3.831	Mar. 13	1430	11,100 314	12.04 3.670
Oct. 21	0730	10,700 303	11.88 3.621	Sept. 25	1100	*12,500 354	13.14 4.005
Feb. 25	0700	†12,000 340	*‡13.21 4.026				

† About.

‡ Backwater from ice.

Minimum discharge, 43 ft³/s (1.22 m³/s) Sept. 13, gage height, 2.87 ft (0.875 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	1260	220	180	90	1630	2860	646	200	354	147	79
2	110	848	280	170	90	1170	2580	580	178	281	144	81
3	102	761	220	160	90	1080	4240	551	171	243	119	81
4	95	728	230	160	90	2150	2510	494	141	219	97	72
5	88	767	290	150	88	4940	2390	1020	113	204	90	63
6	83	646	270	150	86	2640	2060	1130	119	255	137	59
7	83	574	400	150	86	1750	1690	954	259	1550	653	66
8	197	528	1000	140	86	1390	1490	735	251	2050	517	63
9	4050	472	640	140	92	1320	1190	754	175	911	312	57
10	3700	451	540	130	100	1670	1070	1040	735	574	243	54
11	1190	483	490	130	120	1830	979	1040	665	414	215	51
12	781	420	620	130	140	1850	865	814	350	399	204	47
13	610	407	410	130	170	5960	764	703	223	340	231	47
14	580	379	390	120	190	4380	697	610	150	272	178	1190
15	622	349	450	120	170	2820	627	539	317	231	290	483
16	467	322	400	120	160	2200	572	478	251	215	175	331
17	399	318	370	120	140	1670	524	534	157	285	178	1040
18	354	332	330	120	130	1440	483	741	489	281	231	534
19	317	317	300	120	120	1340	453	1100	586	215	157	835
20	326	315	350	120	110	1190	428	991	414	212	125	1270
21	4960	307	370	110	110	1110	392	848	268	171	107	1130
22	1770	291	350	110	140	1650	364	748	208	134	227	604
23	1160	280	320	110	160	2280	405	598	125	113	243	451
24	933	260	300	100	1100	1720	2330	671	90	100	150	414
25	1210	240	270	100	6000	1250	2310	1190	97	110	128	5790
26	1390	250	250	98	2190	1210	1520	628	1350	208	110	3400
27	961	200	230	94	2470	1510	1260	430	534	137	97	2670
28	767	390	220	92	3160	3900	1050	335	359	105	88	1360
29	696	340	210	90	---	5920	876	259	653	90	81	969
30	622	250	200	90	---	4470	741	227	568	147	79	748
31	1290	---	190	90	---	4380	---	215	---	235	113	---
TOTAL	30029	13485	11110	3844	17678	73820	39720	21603	10196	11055	5866	24039
MEAN	969	450	358	124	631	2381	1324	697	340	357	189	801
MAX	4960	1260	1000	180	6000	5960	4240	1190	1350	2050	653	5790
MIN	83	200	190	90	86	1080	364	215	90	90	79	47
CFSM	1.26	.58	.46	.16	.82	3.09	1.72	.90	.44	.46	.25	1.04
IN.	1.45	.65	.54	.19	.85	3.56	1.92	1.04	.49	.53	.28	1.16
CAL YR 1976	TOTAL	349596	MEAN 955	MAX 18800	MIN 77	CFSM 1.24	IN 16.87					
WTR YR 1977	TOTAL	262445	MEAN 719	MAX 6000	MIN 47	CFSM .93	IN 12.66					

SUSQUEHANNA RIVER BASIN

01520500 TIOGA RIVER AT LINDLEY, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1964 to October 1965, September 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1974 to current year.

WATER TEMPERATURES: August 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: August 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (except 1977): Maximum daily, 405 micromhos Aug. 29, 1974; minimum daily, 84 micromhos Feb. 25, 1975.

WATER TEMPERATURES: Maximum daily, 30.0°C July 19, 1977; minimum daily (except 1977), freezing point on several days each year.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,100 mg/L Mar. 13, 1977; minimum daily mean, 1 mg/L June 30, July 1, 2, 1975.

SUSPENDED-SEDIMENT DISCHARGES: Maximum daily, 194,000 tons (175,997 Mg) Sept. 26, 1975; minimum daily, 0.46 ton (0.42 Mg) July 2, 1975.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 30.0°C July 19.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,100 mg/L Mar. 13; minimum daily mean, 4 mg/L June 4.

SUSPENDED-SEDIMENT DISCHARGES: Maximum daily, 69,000 tons (62,000 Mg) Mar. 13; minimum daily, 1.5 tons (1.4 Mg) June 4.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CAC03 (MG/L)
OCT									
07...	1235	83	359	8.4	15.5	9.4	93	.0	.0
NOV									
10...	1215	446	209	7.1	1.5	13.0	93	.1	4.0
DEC									
15...	1010	E450	191	6.5	.0	13.6	93	.1	7.0
JAN									
13...	1145	E130	272	6.9	.0	12.6	86	.3	13
FEB									
09...	0930	E92	307	6.6	--	12.3	84	.3	14
MAR									
08...	0945	1370	155	6.8	1.0	13.4	94	.1	5.0
APR									
14...	1000	702	184	7.0	13.0	10.0	94	.1	4.0
MAY									
03...	1030	562	183	6.5	11.5	10.5	96	.2	8.0
JUN									
10...	1130	E709	280	7.7	12.5	9.8	92	.1	4.0
JUL									
07...	1015	1400	168	7.4	20.5	7.6	84	.1	4.0
AUG									
09...	1100	308	137	7.9	23.5	8.0	93	.0	2.0
SEP									
16...	1010	268	240	7.7	15.5	9.1	90	.0	2.0

E Estimated.

01520500 TIOGA RIVER AT LINDLEY, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	ALKALINITY AS CACO ₃ (MG/L)	CARBON DIOXIDE (CO ₂) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLORIDE (CL) (MG/L)	SUS- PEN- DED SEDIMENT (MG/L)	SUS- PEN- DED SEDIMENT DIS- CHARGE (T/DAY)
OCT 07...	62	1	53	.4	93	19	17	3.8
NOV 10...	41	0	34	5.2	50	8.2	22	26
DEC 15...	43	0	35	22	40	9.9	6	--
JAN 17...	47	0	39	9.5	67	14	E0	--
FEB 09...	50	0	41	20	74	19	2	--
MAR 08...	17	0	14	4.3	38	7.2	37	137
APR 14...	30	0	25	4.3	42	7.7	12	23
MAY 03...	28	0	23	14	21	11	11	17
JUN 10...	51	0	42	1.6	63	14	21	--
JUL 07...	37	0	30	2.4	28	5.5	1230	4650
AUG 09...	67	0	55	1.3	35	9.4	39	32
SEP 16...	66	0	54	2.1	41	13	85	62

DATE	TIME	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)
DEC 15...	1010	.66	--	.01	--	.67	--	.02	--
MAR 08...	0945	.73	--	.05	--	.78	--	.06	--
JUN 10...	1130	.38	--	.01	--	.39	--	.02	--
SEP 16...	1010	--	.51	--	.01	--	.52	--	.08

DATE	TIME	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	TOTAL ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)
DEC 15...		.16	--	.18	--	.85	.03	--	.01	--
MAR 08...		.34	--	.40	--	1.2	.04	--	.01	--
JUN 10...		.21	--	.23	--	.62	.01	--	.00	--
SEP 16...		--	.64	--	.72	--	--	.02	--	.01

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TEMPERATURE (DEG C)	SUS- PEN- DED SEDIMENT (MG/L)	SUS- PEN- DED SEDIMENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. * FINER THAN .004 MM	SUS. SED. FALL DIAM. * FINER THAN .008 MM	SUS. SED. FALL DIAM. * FINER THAN .015 MM	SUS. SED. FALL DIAM. * FINER THAN .031 MM	SUS. SED. FALL DIAM. * FINER THAN .062 MM	SUS. SED. FALL DIAM. * FINER THAN .125 MM	SUS. SED. FALL DIAM. * FINER THAN .250 MM
MAR 13...	1340	10800	10.0	7590	221000	30	42	59	76	93	97	100
JUL 08...	0935	3320	22.0	1900	17000	54	73	89	90	99	100	--
SEP 14...	1255	3420	17.0	2720	28100	50	68	80	91	98	99	100
SEP 25...	1130	12100	15.0	2630	85900	57	72	83	90	96	99	100

E Estimated.

SUSQUEHANNA RIVER BASIN

01520500 TIOGA RIVER AT LINDLEY, NY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

(ONCE DAILY)												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	281	160			---	116	124	166	263	184		
2	327	169			---	139	133	172	262	206		
3	328	176			---	148	115	177	265	222		
4	304	181			---	151	126	180	267	236		
5	337	182			---	104	131	177	274	249		
6	296	187			---	109	134	160	278	259		
7	337	193			---	123	148	155	277	158		
8	311	197			---	143	156	166	290	141		
9	155	198			---	139	158	167	270	162		
10	142	204			---	128	166	164	259	176		
11	173	205			---	121	167	155	240	188		
12	198	203			---	124	169	153	232	210		
13	202	213			---	137	181	160	245	214		
14	215	217			---	107	185	171	252	228		
15	201	219			---	118	190	178	267	242		
16	216	221			---	130	202	183	253	250		
17	222	226			---	142	205	190	268	264		
18	230	231			---	144	199	195	283	260		
19	231	239			---	147	191	200	262	277		
20	238	241			---	158	202	204	237	270		
21	123	237			---	153	204	209	225	271		
22	141	232			---	155	213	218	243	293		
23	161	235			---	148	208	229	257	301		
24	169	240			---	153	141	236	280	328		
25	161	247			115	163	126	219	278	333		
26	160	255			132	156	133	196	152	---		
27	167	256			135	155	137	219	171	---		
28	174	237			132	135	143	233	185	---		
29	183	228			---	126	152	236	191	---		
30	188	233			---	99	160	248	169	---		
31	174	---			---	109	---	261	---	---		
MEAN	218	215			129	135	163	193	247	237		

TEMPERATURE (DEG. C OF WATER), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	(ONCE DAILY)											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.5	6.0			---	2.5	8.0	16.0	23.0	24.5	26.0	27.0
2	15.5	5.0			---	1.5	7.0	15.0	23.0	24.0	25.5	25.5
3	17.0	7.0			---	3.0	8.5	15.0	19.0	23.0	26.0	25.5
4	17.0	7.0			---	3.5	7.0	13.0	21.0	24.0	26.0	25.0
5	18.0	7.0			---	4.0	7.0	15.5	21.0	26.0	25.0	25.0
6	16.0	7.0			---	2.5	5.5	16.5	19.0	27.0	25.0	25.0
7	15.0	5.0			---	4.0	5.0	17.0	17.0	23.0	24.0	21.5
8	14.5	4.5			---	3.0	4.5	17.0	18.0	23.0	25.0	24.0
9	10.5	2.5			---	7.0	5.5	7.5	16.0	22.5	25.0	23.0
10	9.5	3.0			---	7.0	7.0	11.0	16.0	22.5	24.0	24.0
11	10.0	3.0			---	8.0	11.5	16.0	17.0	22.5	26.0	20.5
12	11.0	4.0			---	8.5	17.0	16.5	19.0	24.0	25.5	19.0
13	13.5	4.5			---	10.0	17.0	17.5	24.0	28.0	25.0	18.5
14	11.5	4.5			---	7.0	15.5	15.0	23.0	27.0	24.0	17.0
15	13.0	4.0			---	10.5	14.5	17.0	23.0	27.0	24.0	16.5
16	12.0	4.0			---	9.0	14.5	17.0	23.0	28.0	24.0	16.5
17	9.5	4.0			---	6.5	13.0	20.0	24.0	26.5	24.0	18.0
18	7.0	5.0			---	4.0	14.5	21.0	24.0	29.0	22.0	19.0
19	7.5	5.0			---	4.5	14.0	23.0	24.0	30.0	20.5	20.5
20	5.5	4.0			---	3.0	15.0	23.0	23.5	27.0	19.5	21.0
21	9.0	4.0			---	4.0	18.0	23.0	23.5	28.5	19.5	18.0
22	6.0	3.5			---	4.0	18.0	23.0	23.0	25.0	22.0	17.0
23	7.0	2.5			---	3.5	16.0	23.0	24.0	25.0	22.0	16.5
24	7.5	3.5			---	3.5	12.0	25.0	24.0	25.0	20.0	17.0
25	6.0	4.5			1.0	4.0	10.0	23.0	23.5	25.5	20.0	15.0
26	8.0	4.5			3.0	4.5	10.5	22.0	19.5	---	22.0	15.0
27	6.0	6.0			3.0	7.5	10.5	24.0	25.0	22.0	24.0	17.0
28	5.5	7.0			5.0	6.0	11.0	24.0	23.0	22.5	27.0	17.0
29	7.0	3.5			---	5.5	8.5	21.0	23.5	23.0	28.5	15.0
30	6.5	1.0			---	11.0	13.0	22.0	24.0	24.0	27.0	14.0
31	6.5	---			---	9.5	---	23.0	---	26.0	26.0	---
MEAN	10.5	4.5			3.0	5.5	11.5	19.0	21.5	25.0	24.0	20.0

01520500 TIOGA RIVER AT LINDLEY, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	116	8	2.5	1260	80	272	220	15	8.9
2	110	9	2.7	848	33	76	280	18	14
3	102	10	2.8	761	20	41	220	14	8.3
4	95	8	2.1	728	32	63	230	20	12
5	88	7	1.7	767	42	87	290	17	13
6	83	10	2.2	646	14	24	270	15	11
7	83	12	2.7	574	11	17	400	30	32
8	197	30	16	528	15	21	1000	45	121
9	4050	889	20200	472	17	22	640	30	52
10	3700	465	7630	451	14	17	540	20	29
11	1190	61	196	483	28	37	490	17	22
12	781	40	84	420	15	17	620	25	42
13	610	31	51	407	11	12	410	16	18
14	580	34	53	379	13	13	390	12	13
15	622	52	87	349	8	7.5	450	15	18
16	467	22	28	322	9	7.8	400	13	14
17	399	15	16	318	14	12	370	11	11
18	354	25	24	332	17	15	330	9	8.0
19	317	25	21	317	27	23	300	8	6.5
20	326	20	18	315	23	20	350	10	9.5
21	4960	750	10000	307	13	11	370	12	12
22	1770	130	621	291	65	51	350	12	11
23	1160	53	166	280	100	76	320	13	11
24	933	35	88	260	47	33	300	15	12
25	1210	60	196	240	30	19	270	11	8.0
26	1390	95	357	250	19	13	250	10	6.8
27	961	43	112	200	35	19	230	10	6.2
28	767	26	54	390	45	47	220	10	5.9
29	696	27	51	340	36	33	210	9	5.1
30	622	26	44	250	17	11	200	9	4.9
31	1290	95	417	---	---	---	190	9	4.6
TOTAL	30029	---	40546.7	13485	---	1117.3	11110	---	550.7
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	180	8	3.9	90	8	1.9	1630	95	418
2	170	8	3.7	90	9	2.2	1170	85	269
3	160	8	3.5	90	9	2.2	1080	95	277
4	160	9	3.9	90	10	2.4	2150	250	1450
5	150	9	3.6	88	10	2.4	4940	600	8000
6	150	8	3.2	86	12	2.8	2640	190	1350
7	150	9	3.6	86	11	2.6	1750	78	369
8	140	9	3.4	86	10	2.3	1390	65	244
9	140	8	3.0	92	9	2.2	1320	60	214
10	130	9	3.2	100	8	2.2	1670	220	992
11	130	8	2.8	120	8	2.6	1830	130	642
12	130	9	3.2	140	12	4.5	1850	120	599
13	130	9	3.2	170	25	11	5960	3100	69000
14	120	9	2.9	190	20	10	4380	490	5790
15	120	8	2.6	170	18	8.3	2820	250	1900
16	120	10	3.2	160	17	7.3	2200	110	653
17	120	10	3.2	140	15	5.7	1670	70	316
18	120	9	2.9	130	12	4.2	1440	47	183
19	120	10	3.2	120	11	3.6	1340	29	105
20	120	8	2.6	110	10	3.0	1190	24	77
21	110	9	2.7	110	8	2.4	1110	33	99
22	110	9	2.7	140	8	3.0	1650	48	214
23	110	10	3.0	160	12	5.2	2280	76	468
24	100	10	2.7	1100	55	163	1720	45	209
25	100	10	2.7	6000	800	13000	1250	40	135
26	98	9	2.4	2190	182	1080	1210	47	154
27	94	8	2.0	2470	235	1570	1510	75	306
28	92	8	2.0	3160	315	2690	3900	1100	16600
29	90	8	1.9	---	---	---	5920	1430	22900
30	90	9	2.2	---	---	---	4470	850	10300
31	90	8	1.9	---	---	---	4380	825	9760
TOTAL	3844	---	91.0	17678	---	18597.0	73820	---	153993

01520500 TIOGA RIVER AT LINDLEY, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	2860	123	950	646	10	17	200	5	2.7
2	2580	90	627	580	13	20	178	8	3.8
3	4240	220	2520	551	12	18	171	6	2.8
4	2510	43	291	494	10	13	141	4	1.5
5	2390	40	258	1020	55	151	113	7	2.1
6	2060	33	184	1130	85	259	119	9	2.9
7	1690	31	141	954	70	180	259	8	5.6
8	1490	32	129	735	17	34	251	6	4.1
9	1190	25	80	754	12	24	175	7	3.3
10	1070	14	40	1040	17	48	735	15	30
11	979	15	40	1040	18	51	665	9	16
12	865	20	47	814	12	26	350	7	6.6
13	764	23	47	703	12	23	223	6	3.6
14	697	22	41	610	13	21	150	5	2.0
15	627	14	24	539	16	23	317	6	5.1
16	572	20	31	478	16	21	251	16	11
17	524	15	21	534	19	27	157	10	4.2
18	483	20	26	741	60	120	489	11	15
19	453	50	61	1100	20	59	586	30	47
20	428	12	14	991	14	37	414	18	20
21	392	13	14	848	11	25	268	12	8.7
22	364	10	9.8	748	11	22	208	15	8.4
23	405	12	13	598	10	16	125	13	4.4
24	2330	500	3150	671	50	91	90	14	3.4
25	2310	125	780	1190	80	257	97	14	3.7
26	1520	40	164	628	8	14	1350	725	2640
27	1260	21	71	430	5	5.8	534	75	108
28	1050	18	51	335	8	7.2	359	48	47
29	876	17	40	259	6	4.2	653	240	423
30	741	10	20	227	40	25	568	155	238
31	---	---	---	215	10	5.8	---	---	---
TOTAL	39720	---	9884.8	21603	---	1645.0	10196	---	3673.9
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	354	43	41	147	32	13	79	29	6.2
2	281	23	17	144	23	8.9	81	40	8.7
3	243	15	9.8	119	21	6.7	81	30	6.6
4	219	15	8.9	97	19	5.0	72	33	6.4
5	204	12	6.6	90	23	5.6	63	30	5.1
6	255	15	10	137	37	14	59	28	4.5
7	1550	1450	6070	653	264	752	66	37	6.6
8	2050	925	5120	517	50	70	63	37	6.3
9	911	110	271	312	17	14	57	53	8.2
10	574	65	101	243	20	13	54	35	5.1
11	414	35	39	215	20	12	51	40	5.5
12	399	29	31	204	20	11	47	28	3.6
13	340	25	23	231	18	11	47	38	4.8
14	272	20	15	178	22	11	1190	850	2730
15	231	15	9.4	290	260	204	483	203	265
16	215	12	7.0	175	41	19	331	265	237
17	285	25	19	178	42	20	1040	250	702
18	281	22	17	231	75	47	534	95	137
19	215	27	16	157	50	21	835	130	293
20	212	20	11	125	39	13	1270	250	857
21	171	25	12	107	29	8.4	1130	145	442
22	134	24	8.7	227	115	70	604	57	93
23	113	18	5.5	243	90	59	451	48	58
24	100	26	7.0	150	45	18	414	30	34
25	110	25	7.4	128	48	17	5790	1820	48200
26	208	50	28	110	36	11	3400	322	3740
27	137	23	8.5	97	27	7.1	2670	158	1140
28	105	32	9.1	88	25	5.9	1360	65	239
29	90	30	7.3	81	23	5.0	969	50	131
30	147	53	21	79	28	6.0	748	48	97
31	235	56	36	113	43	13	---	---	---
TOTAL	11055	---	11993.2	5866	---	1491.6	24039	---	59472.6

01521000 ARKPORT RESERVOIR NEAR ARKPORT, NY

LOCATION.--Lat 42°23'45", long 77°43'00", Steuben County, Hydrologic Unit 02050104, on right bank 1,000 ft (305 m) upstream from Arkport Dam on Canisteo River, 1.3 mi (2.1 km) west of Arkport, and 2.3 mi (3.7 km) upstream from small tributary.

DRAINAGE AREA.--30.5 mi² (79.0 km²).

PERIOD OF RECORD.--January 1951 to current year.

REVISED RECORDS.--WSP 1552: 1951-57. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway, completed by Corps of Engineers in 1940 for flood control; first used for flood regulation on Mar. 31, 1940. Usable capacity, 7,936 acre-ft (9.79 hm³) between elevations 1,218.0 ft (371.25 m), sill of conduit, and 1,304.0 ft (397.46 m), crest of spillway. No dead storage. The flood-control works consist of a pressure conduit and a side-channel spillway and are not provided with gates. Water is stored during high flows and released gradually.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,304.04 ft (397.471 m) June 23, 1972, contents, 7,944 acre-ft (9.79 hm³); minimum, 1,226.6 ft (373.87 m) part of each day Nov. 4-6, 12-15, 18-25, 1963, contents, 1 acre-ft (1,230 m³).

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 1,254.9 ft (382.494 m) Sept. 20, contents, 1,410 acre-ft (1.74 hm³); minimum daily, 1,227.7 ft (374.20 m) July 22-24, contents, 6 acre-ft (7,398 m³).

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1937)

1,226.00	0	1,235.00	264	1,270.00	2,908
1,227.00	1	1,240.00	462	1,280.00	4,142
1,228.00	8	1,245.00	719	1,290.00	5,552
1,229.00	51	1,250.00	1,040	1,300.00	7,192
1,230.00	122	1,260.00	1,861	1,310.00	9,161

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1228.00	1233.20	1228.50	1228.20	1228.00	1230.80	1231.00	1228.60	1228.00	1228.10	1229.30	1229.90
2	1228.00	1229.70	1228.60	1228.20	1228.00	1229.90	1231.50	1228.50	1228.00	1228.00	1228.40	1229.70
3	1228.00	1229.40	1229.00	1228.10	1228.00	1229.40	1238.80	1228.60	1228.00	1228.00	1228.10	1228.80
4	1228.00	1229.10	1228.50	1228.10	1228.00	1232.80	1231.90	1229.00	1228.00	1228.00	1228.00	1228.50
5	1228.00	1229.00	1228.30	1228.10	1228.00	1240.00	1230.80	1245.40	1227.90	1228.00	1228.70	1228.30
6	1227.90	1228.80	1228.30	1228.10	1228.00	1231.90	1229.80	1230.90	1228.00	1231.50	1238.30	1228.20
7	1228.00	1228.80	1228.40	1228.10	1228.00	1229.50	1229.40	1229.30	1228.10	1237.90	1230.00	1228.10
8	1234.90	1228.70	1229.50	1228.10	1228.00	1229.40	1229.30	1229.00	1228.00	1238.10	1229.20	1228.10
9	1247.50	1228.60	1229.30	1228.10	1228.00	1234.80	1229.20	1229.60	1228.00	1229.30	1228.60	1228.10
10	1247.50	1228.60	1228.60	1228.10	1228.00	1243.60	1229.10	1231.50	1228.10	1228.70	1228.30	1228.00
11	1229.80	1228.60	1229.00	1228.10	1228.10	1242.60	1229.00	1229.60	1228.10	1228.40	1228.20	1228.00
12	1229.10	1228.50	1228.80	1228.10	1228.20	1241.30	1228.80	1229.10	1228.00	1228.00	1228.50	1228.00
13	1228.80	1228.50	1228.60	1228.10	1228.60	1250.40	1228.70	1228.80	1228.00	1228.20	1228.30	1228.60
14	1229.60	1228.50	1228.70	1228.10	1228.60	1241.30	1228.60	1228.70	1227.90	1228.20	1230.90	1249.60
15	1229.20	1228.50	1228.50	1228.10	1228.50	1231.90	1228.60	1228.50	1228.10	1228.10	1229.40	1229.70
16	1228.80	1228.40	1228.30	1228.00	1228.30	1230.00	1228.50	1228.50	1228.00	1228.10	1228.60	1231.50
17	1228.60	1228.40	1228.20	1228.00	1228.30	1229.50	1228.50	1228.40	1228.00	1228.60	1228.60	1231.50
18	1228.50	1228.40	1228.30	1228.00	1228.20	1229.30	1228.40	1228.30	1228.10	1228.20	1228.40	1243.30
19	1228.40	1228.40	1228.50	1228.00	1228.20	1229.20	1228.40	1228.30	1228.50	1228.10	1228.20	1249.70
20	1229.60	1228.40	1229.70	1228.00	1228.20	1229.20	1228.40	1228.30	1228.20	1228.00	1228.20	1254.90
21	1252.90	1228.40	1231.50	1228.00	1228.20	1229.30	1228.30	1228.20	1228.10	1228.00	1228.10	1244.50
22	1234.10	1228.40	1228.70	1228.00	1228.20	1230.40	1228.30	1228.10	1228.00	1227.70	1230.70	1230.40
23	1232.10	1228.30	1228.50	1228.00	1228.20	1230.70	1238.10	1228.10	1227.90	1227.70	1228.80	1229.50
24	1237.70	1228.30	1228.50	1228.00	1229.50	1229.80	1252.30	1228.30	1227.80	1227.70	1230.50	1237.90
25	1239.50	1228.30	1228.50	1228.00	1242.00	1229.50	1238.10	1229.50	1228.50	1229.60	1229.10	1254.80
26	1232.00	1229.00	1228.40	1228.00	1232.60	1229.30	1230.00	1228.40	1228.70	1228.60	1229.70	1249.40
27	1229.70	1229.60	1228.40	1228.10	1236.80	1230.00	1229.50	1228.20	1228.20	1228.20	1228.40	1237.10
28	1229.30	1229.10	1228.40	1228.00	1239.60	1238.60	1229.10	1228.10	1228.10	1228.00	1228.20	1229.60
29	1229.10	1228.80	1228.30	1228.10	---	1239.50	1229.00	1228.10	1228.50	1228.00	1228.20	1229.20
30	1229.00	1228.50	1228.30	1228.00	---	1231.70	1228.70	1228.10	1228.30	1228.20	1228.20	1229.00
31	1240.10	---	1228.20	1228.00	---	1235.80	---	1228.00	---	1228.10	1228.10	---
MEAN	1232.31	1228.84	1228.69	1228.06	1229.58	1233.59	1230.94	1229.29	1228.10	1228.95	1229.07	1234.23
MAX	1252.90	1233.20	1231.50	1228.20	1242.00	1250.40	1252.30	1245.40	1228.70	1238.10	1238.30	1254.90
MIN	1227.90	1228.30	1228.20	1228.00	1228.00	1229.20	1228.30	1228.00	1227.80	1227.70	1228.00	1228.00
†	323	29.5	16.6	8.0	271	212	36.0	8.0	16.6	38.1	51.0	65.2
‡	+4.8	-4.9	-0.2	-0.1	+4.7	-1.0	-3.0	-0.5	+0.1	+0.3	+0.2	+0.2

CAL YR 1976 MEAN 1229.41 MAX 1252.90 MIN 1227.66 † 0
WTR YR 1977 MEAN 1230.14 MAX 1254.90 MIN 1227.70 † 0

† Contents, in acre-feet, at end of month.

‡ Change in contents, equivalent in cubic feet per second.

SUSQUEHANNA RIVER BASIN

01521500 CANISTEO RIVER AT ARKPORT, NY

LOCATION.--Lat 42°23'45", long 77°42'42", Steuben County, Hydrologic Unit 02050104, on left bank 0.2 mi (0.3 km) downstream from Arkport Dam, and 0.9 mi (1.4 km) west of Arkport.

DRAINAGE AREA.--30.6 mi² (79.3 km²).

PERIOD OF RECORD.--January 1937 to current year.

REVISED RECORDS.--WSP 1552: 1952-57. WRD NY 1969: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,202.85 ft (366.629 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Since November 1939, flows above 500 ft³/s (14.2 m³/s) controlled by detention in Arkport Reservoir (see station 01521000).

AVERAGE DISCHARGE.--40 years, 35.2 ft³/s (1.00 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft³/s (56.6 m³/s) Mar. 5, 1938, Feb. 20, 1939; maximum gage height, 5.63 ft (1.716 m) Feb. 19, 1939 (ice jam); practically no flow July 30, 1938, Sept. 30, 1939 (result of construction operations).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1935, reached a discharge of 4,820 ft³/s (137 m³/s), on basis of slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 789 ft³/s (22.3 m³/s) Oct. 9, gage height, 3.16 ft (0.963 m); minimum, 2.5 ft³/s (0.07 m³/s) July 24, 25, gage height, 0.69 ft (0.210 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	104	15	9.0	5.0	71	74	17	5.1	6.0	36	58
2	4.6	51	16	8.0	4.8	59	80	17	4.7	4.4	13	51
3	4.3	39	26	7.4	4.6	40	207	18	4.7	3.4	7.3	22
4	4.0	31	14	6.4	4.4	98	85	25	4.4	4.0	5.1	14
5	3.9	26	11	6.0	4.2	232	71	365	3.7	3.7	19	9.9
6	3.7	22	11	6.6	4.3	85	53	72	4.7	80	197	8.8
7	4.5	21	40	5.8	4.4	45	41	37	6.4	188	62	7.3
8	132	19	42	5.4	4.4	40	38	27	4.4	191	33	6.4
9	438	17	35	5.2	4.5	130	32	47	5.1	35	17	5.5
10	438	17	17	5.4	4.6	324	29	80	6.8	18	11	4.7
11	55	17	25	6.0	5.2	297	26	47	5.5	12	8.8	4.4
12	31	14	22	6.8	8.0	264	22	28	4.7	10	14	4.7
13	22	15	17	6.6	18	542	20	22	4.0	9.3	11	18
14	46	14	20	5.4	17	263	18	19	3.7	7.3	72	509
15	34	14	14	6.2	14	35	17	16	6.0	6.0	40	51
16	22	13	10	4.6	11	62	15	14	4.7	5.5	16	80
17	17	12	9.0	4.8	10	44	14	12	4.4	17	16	80
18	15	13	10	4.8	8.6	37	13	11	6.4	7.8	13	314
19	14	13	14	4.8	8.4	34	12	11	15	6.0	9.3	515
20	46	13	50	4.9	9.0	33	12	9.9	7.3	5.1	7.3	712
21	631	13	80	4.9	8.0	38	11	8.8	6.4	4.0	6.4	348
22	118	12	20	5.0	8.4	66	10	6.8	4.7	3.1	72	65
23	89	11	16	4.8	9.2	70	191	6.4	3.7	3.1	22	42
24	184	11	14	4.7	45	53	603	11	3.4	2.8	69	188
25	223	11	16	4.4	291	45	197	44	15	48	30	705
26	87	25	13	4.4	96	38	62	12	19	16	20	504
27	51	46	13	5.2	165	62	42	8.3	8.3	7.8	13	89
28	36	28	12	4.2	224	201	31	6.8	6.0	5.1	9.0	48
29	29	21	11	6.0	---	221	25	6.0	14	4.4	7.8	33
30	25	14	10	4.4	---	83	20	5.5	9.9	8.8	8.8	26
31	236	---	9.4	4.6	---	148	---	5.1	---	6.8	6.8	---
TOTAL	3049.1	677	632.4	173.7	991.0	3810	2071	1016.6	202.1	729.4	872.6	4523.7
MEAN	98.4	22.6	20.4	5.60	35.4	123	69.0	32.8	6.74	23.5	28.1	151
MAX	631	104	80	9.0	281	542	603	366	19	191	197	712
MIN	3.7	11	9.0	4.2	4.2	33	10	5.1	3.4	2.8	5.1	4.4
CAL YR 1976	TOTAL	18551.6	MEAN	50.7	MAX	773	MIN	2.5				
WTR YR 1977	TOTAL	18748.6	MEAN	51.4	MAX	712	MIN	2.8				

01523000 ALMOND LAKE NEAR ALMOND, NY

LOCATION.--Lat 42°20'50", long 77°42'20", Steuben County, Hydrologic Unit 02050104, at Almond Dam on Canacadea Creek, 2 mi (3 km) northeast of Almond, and 3 mi (5 km) upstream from mouth.

DRAINAGE AREA.--55.8 mi² (145 km²).

PERIOD OF RECORD.--July 1949 to September 1952 (monthly elevations and contents), October 1952 to current year.
Prior to October 1970, published as "Almond Reservoir near Almond."

REVISED RECORDS.--WRD NY 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

REMARKS.--Lake is formed by earthfill dam with concrete spillway, completed by Corps of Engineers in June 1949 for flood control; first used for flood regulation on Mar. 28, 1950. Usable capacity, 14,800 acre-ft (18.2 hm³) between elevations 1,229.0 ft or 374.60 m (sill of gates) and 1,300.0 ft or 396.24 m (crest of spillway). No dead storage. Figures given herein represent usable contents. Discharge is controlled by the operation of three gates. Water is stored during high flows and released when downstream conditions warrant. Lake is used for flood control and recreation.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,298.58 ft (395.807 m) June 23, 1972, contents, 14,100 acre-ft (17.4 hm³); no contents for many days each year 1949-65.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,267.00 ft (386.182 m) Sept. 25, contents, 3,070 acre-ft (3.79 hm³); minimum, 1,246.55 ft (379.948 m) Mar. 1, contents, 313 acre-ft (385,900 m³).

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1938)

1,240.00	80	1,260.00	1,750
1,245.00	230	1,270.00	3,750
1,250.00	570	1,280.00	6,570
1,255.00	1,080	1,290.00	10,300

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250.11	1251.28	1249.84	1250.43	1250.26	1248.87	1251.82	1253.98	1255.42	1255.25	1255.24	1255.24
2	1250.02	1250.94	1250.41	1250.48	1250.35	1250.48	1251.40	1254.17	1255.42	1255.16	1254.95	1255.61
3	1249.91	1250.57	1250.26	1250.51	1250.45	1251.30	1253.95	1254.39	1255.42	1255.09	1254.99	1255.79
4	1249.83	1250.80	1250.40	1250.54	1250.50	1253.95	1251.04	1254.75	1255.40	1255.04	1254.96	1255.84
5	1249.91	1250.58	1250.58	1250.50	1250.43	1250.69	1251.07	1255.31	1255.36	1254.99	1255.04	1255.83
6	1250.00	1250.37	1250.45	1250.48	1250.34	1250.33	1250.85	1255.07	1255.37	1255.42	1257.40	1255.80
7	1250.11	1251.00	1250.49	1250.46	1250.36	1250.17	1250.55	1254.98	1255.59	1257.07	1255.76	1255.74
8	1250.88	1251.56	1250.20	1250.40	1250.37	1250.34	1250.87	1254.94	1255.62	1255.53	1255.25	1255.66
9	1253.12	1251.22	1250.51	1250.34	1250.37	1251.08	1250.99	1255.17	1255.64	1255.12	1255.15	1255.53
10	1253.30	1250.80	1250.64	1250.26	1250.41	1251.60	1250.95	1256.04	1255.68	1255.09	1254.97	1255.39
11	1250.73	1250.67	1251.24	1250.18	1250.41	1251.57	1250.81	1255.99	1255.47	1255.14	1254.70	1255.24
12	1251.03	1250.51	1251.63	1250.36	1250.22	1252.62	1250.43	1255.45	1255.42	1255.30	1255.06	1255.09
13	1251.08	1250.92	1251.49	1250.49	1250.38	1257.19	1250.18	1255.27	1255.38	1255.44	1255.50	1255.33
14	1251.39	1251.26	1250.77	1250.57	1250.57	1255.10	1250.58	1255.24	1255.32	1255.29	1255.78	1258.25
15	1250.81	1251.43	1250.17	1250.58	1250.14	1251.81	1250.92	1255.16	1255.39	1255.20	1255.69	1255.33
16	1250.51	1251.24	1250.08	1250.59	1250.02	1250.73	1251.19	1255.10	1255.41	1255.12	1255.52	1254.96
17	1250.72	1251.03	1250.32	1250.53	1250.40	1251.10	1251.39	1255.13	1255.37	1255.05	1255.57	1255.04
18	1250.83	1250.87	1250.47	1250.46	1250.64	1250.94	1251.54	1255.14	1255.43	1255.08	1255.65	1256.06
19	1250.80	1250.74	1250.17	1250.36	1250.54	1250.43	1251.29	1255.16	1255.67	1255.05	1255.51	1255.84
20	1250.85	1250.64	1250.33	1250.28	1250.25	1250.62	1250.00	1255.12	1255.42	1255.03	1255.36	1257.86
21	1255.66	1250.50	1250.62	1250.22	1250.14	1250.87	1250.14	1255.05	1255.36	1255.05	1255.35	1255.55
22	1251.51	1250.30	1250.19	1250.15	1250.30	1251.52	1250.31	1254.98	1255.25	1255.06	1255.73	1255.29
23	1250.75	1250.19	1250.31	1250.05	1250.70	1250.98	1250.68	1255.00	1255.13	1255.05	1255.43	1255.26
24	1251.16	1250.33	1250.37	1250.06	1256.33	1250.92	1250.86	1255.06	1255.11	1255.04	1255.58	1255.68
25	1252.22	1250.11	1250.29	1250.22	1257.70	1250.48	1250.51	1255.36	1255.22	1255.26	1255.01	1265.94
26	1250.26	1250.29	1250.15	1250.38	1253.61	1250.98	1250.86	1255.47	1255.65	1255.17	1254.90	1263.26
27	1250.38	1251.58	1250.17	1250.47	1254.51	1251.94	1252.09	1255.49	1255.42	1254.95	1254.93	1256.72
28	1250.66	1249.62	1250.14	1250.57	1251.31	1252.97	1252.87	1255.49	1255.34	1254.87	1254.92	1252.75
29	1250.62	1250.10	1250.10	1250.57	---	1251.68	1253.37	1255.47	1255.40	1254.89	1254.96	1251.13
30	1250.35	1249.81	1249.92	1250.45	---	1250.80	1253.69	1255.46	1255.32	1255.07	1255.34	1250.88
31	1251.90	---	1250.20	1250.31	---	1252.04	---	1255.43	---	1255.26	1255.13	---
MEAN	1251.01	1250.71	1250.42	1250.40	1251.14	1251.49	1251.24	1255.16	1255.41	1255.20	1255.33	1255.93
MAX	1255.66	1251.58	1251.63	1250.59	1257.70	1257.19	1253.95	1256.04	1255.68	1257.07	1257.40	1265.94
MIN	1249.83	1249.62	1249.84	1250.05	1250.02	1248.87	1250.00	1253.98	1255.11	1254.87	1254.70	1250.88
†	796	550	602	592	557	810	956	1,129	1,116	1,116	1,096	666
‡	+3.5	-4.1	+0.8	-0.2	-0.6	+4.1	+2.5	+2.8	-0.2	0	-0.3	-7.2

CAL YR 1976 MEAN 1253.12 MAX 1279.79 MIN 1248.00 † 0
WTR YR 1977 MEAN 1252.79 MAX 1265.94 MIN 1248.87 ‡ +0.1

† Contents, in acre-feet, at end of month.

‡ Change in contents, equivalent in cubic feet per second.

SUSQUEHANNA RIVER BASIN

01523500 CANACADEA CREEK NEAR HORNELL, NY

LOCATION.--Lat 42°20'05", long 77°41'00", Steuben County, Hydrologic Unit 02050104, on right bank 35 ft (11 m) downstream from bridge on State Highway 21, 1.2 mi (1.9 km) west of Hornell, 1.5 mi (2.4 km) downstream from Almond Dam, and 2 mi (3 km) upstream from mouth.

DRAINAGE AREA.--57.9 mi² (150 km²).

PERIOD OF RECORD.--October 1940 to December 1942, October 1944 to current year.

REVISED RECORDS.--WRD NY 1969: Drainage area. WRD NY 1971: 1969(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,185.68 ft (361.395 m) above mean sea level. Oct. 23, 1940 to Dec. 31, 1942, at site 185 ft (56 m) upstream at different datum.

REMARKS.--Records good except those for winter periods, which are poor. Since October 1948, floodflows regulated by detention in Almond Lake (see station 01523000). Occasional regulation at low flows to clear debris from gates at Almond Lake. Monthly figures for 1952-66 water years adjusted for regulation.

AVERAGE DISCHARGE.--35 years (1940-42, 1944-77), 64.1 ft³/s (1.815 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,430 ft³/s (267 m³/s) May 17, 1945, gage height, 5.14 ft (1.567 m), from rating curve extended above 3,400 ft³/s (96.3 m³/s); maximum gage height, 6.65 ft (2.027 m) June 3, 1947; minimum discharge, 0.5 ft³/s (0.014 m³/s) May 29, 1965, gage height, 0.61 ft (0.186 m); minimum daily, 0.6 ft³/s (0.017 m³/s) May 30 to June 1, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1935, reached a stage of 16.61 ft (5.063 m), discharge, 21,000 ft³/s (595 m³/s), from floodmarks on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 889 ft³/s (25.2 m³/s) Sept. 14, 20, gage height, 2.86 ft (0.872 m); minimum, 9.0 ft³/s (0.25 m³/s) part of each day July 28 to Aug. 1, gage height, 0.91 ft (0.277 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	199	23	22	25	226	170	25	16	20	114	21
2	19	103	30	21	23	77	123	25	15	17	29	21
3	19	70	36	20	22	73	459	20	15	15	16	21
4	15	59	26	20	21	155	208	32	15	15	16	21
5	12	63	30	19	20	416	151	387	15	15	109	21
6	12	42	36	21	21	249	106	93	16	93	581	21
7	12	24	110	18	21	101	88	75	16	532	498	21
8	174	38	70	20	22	79	63	50	15	178	147	21
9	478	58	40	18	22	204	61	51	18	63	65	21
10	560	50	41	19	23	434	61	81	38	37	56	20
11	91	46	43	20	22	340	61	93	28	20	32	20
12	48	31	45	21	35	301	59	81	18	20	20	20
13	45	23	43	20	100	532	37	48	18	29	19	32
14	140	23	40	19	110	546	26	45	18	31	41	804
15	111	34	32	20	40	259	25	42	18	19	84	173
16	53	39	27	18	28	109	24	32	18	19	31	170
17	37	39	26	21	27	73	24	27	18	18	31	172
18	37	39	26	21	27	93	25	27	18	16	31	289
19	37	39	35	22	27	73	68	25	45	16	31	561
20	59	39	150	23	28	61	44	27	31	15	21	766
21	687	38	100	23	26	51	22	27	23	10	18	268
22	295	38	50	18	28	123	22	20	22	10	56	105
23	144	28	38	24	30	159	244	16	16	10	68	82
24	204	32	35	23	66	103	387	17	13	10	114	217
25	328	37	36	20	137	73	144	16	17	31	70	376
26	170	37	33	20	453	59	54	16	41	38	29	715
27	79	144	31	21	466	103	26	16	33	21	24	561
28	66	91	29	18	459	323	25	16	17	12	24	231
29	65	48	26	23	---	381	25	16	42	9.1	17	120
30	63	38	20	19	---	140	24	16	28	9.1	68	43
31	217	---	16	23	---	106	---	16	---	9.1	34	---
TOTAL	4296	1589	1323	635	2329	6092	2856	1481	661	1357.3	2494	5934
MEAN	139	53.0	42.7	20.5	53.2	197	95.2	47.8	22.0	43.8	80.5	198
MAX	687	199	150	24	466	546	459	387	45	532	581	804
MIN	12	23	16	18	20	59	22	16	13	9.1	16	20
CAL YR 1976	TOTAL	31519.0	MEAN	86.1	MAX	709	MIN	11				
WTR YR 1977	TOTAL	31047.3	MEAN	85.1	MAX	804	MIN	9.1				

SUSQUEHANNA RIVER BASIN

247

01524500 CANISTEO RIVER BELOW CANACADEA CREEK, AT HORNELL, NY

LOCATION.--Lat 42°18'50", long 77°39'05", Steuben County, Hydrologic Unit 02050104, on right bank 235 ft (72 m) upstream from Erie Railroad bridge in Hornell, 0.3 mi (0.5 km) upstream from Crosby Creek, and 1.5 mi (2.4 km) downstream from Canacadea Creek.

DRAINAGE AREA.--158 mi² (409 km²).

PERIOD OF RECORD.--August 1942 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,131.32 ft (344.826 m) above mean sea level.

REMARKS.--Records fair. Diversion from Carrington Creek, a tributary upstream from station, by city of Hornell for municipal supply (1977 average, 3.9 ft³/s or 0.11 m³/s); sewage enters river downstream from gage. Since Nov. 1939, flood flows regulated by Arkport Reservoir (see station 01521000), and, since October 1948, by Almond Lake (see station 01523000); normal regulation occasionally sufficient to materially affect figures of monthly runoff.

COOPERATION.--Records of diversion from Carrington Creek furnished by city of Hornell.

AVERAGE DISCHARGE.--35 years, 158 ft³/s (4.475 m³/s), 13.58 in/yr (345 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,560 ft³/s (271 m³/s) June 23, 1972, gage height, 13.45 ft (4.100 m), from floodmark, from rating curve extended above 7,600 ft³/s (215 m³/s) on basis of critical-depth measurement of peak flow; minimum, 7.4 ft³/s (0.21 m³/s) Sept. 13, 14, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,480 ft³/s (98.6 m³/s) Sept. 25, gage height, 8.05 ft (2.454 m); minimum, 26 ft³/s (0.74 m³/s) June 4, gage height, 0.54 ft (0.165 m), result of regulation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	461	72	56	56	382	344	67	52	47	174	71
2	48	247	76	54	54	203	303	67	50	40	87	136
3	47	197	82	48	52	172	803	67	48	36	54	91
4	42	164	86	46	52	118	438	79	44	40	45	71
5	37	153	72	46	49	104	320	922	45	42	158	64
6	36	130	80	48	52	445	242	307	51	158	830	61
7	39	104	162	44	52	222	204	208	55	880	660	57
8	192	109	140	46	54	161	173	155	49	595	251	55
9	960	123	110	42	54	362	155	179	48	178	132	53
10	1280	118	110	43	54	134	148	285	64	112	106	52
11	279	113	120	48	52	146	143	257	55	79	78	50
12	165	90	120	50	72	650	125	193	44	75	74	49
13	127	83	100	48	140	1210	82	144	43	80	68	61
14	207	79	100	43	130	857	67	127	39	78	144	1520
15	196	87	97	44	110	421	66	115	38	60	188	356
16	125	88	81	42	68	222	66	100	39	57	88	313
17	96	89	75	47	58	197	66	89	40	66	100	398
18	91	91	79	48	56	193	66	85	51	60	88	613
19	85	90	84	50	54	162	85	82	88	51	75	1490
20	99	89	212	50	58	143	79	77	61	50	64	2170
21	1640	88	214	50	52	143	66	73	52	42	55	951
22	616	86	100	47	56	260	66	64	48	36	163	343
23	332	76	94	52	64	307	380	57	40	34	136	249
24	428	75	86	52	290	234	1040	56	36	34	227	519
25	690	79	88	46	640	176	490	140	53	149	169	2020
26	383	86	78	46	980	159	207	81	101	102	92	1440
27	220	179	76	47	740	217	128	64	68	59	74	823
28	177	154	66	42	850	521	103	58	47	45	67	400
29	161	111	64	48	---	155	102	54	80	40	62	273
30	148	80	64	45	---	347	87	52	79	48	110	183
31	423	---	56	52	---	450	---	50	---	41	74	---
TOTAL	9418	3719	3044	1470	4999	12423	6644	4357	1608	3414	4693	14932
MEAN	304	124	98.2	47.4	179	401	221	141	53.6	110	151	498
MAX	1640	461	214	56	980	1210	1040	922	101	880	830	2170
MIN	36	75	56	42	49	143	66	50	36	34	45	49
CAL YR 1976 TOTAL	75165		MEAN 205	MAX 2250	MIN 25							
WTR YR 1977 TOTAL	70721		MEAN 194	MAX 2170	MIN 34							

SUSQUEHANNA RIVER BASIN

01526500 TIOGA RIVER NEAR ERWINS, NY

LOCATION.--Lat 42°07'15", long 77°07'45", Steuben County, Hydrologic Unit 02050104, on right bank 20 ft (6 m) downstream from bridge on Mulholland Road, 1.1 mi (1.8 km) northeast of Erwins, and 1.1 mi (1.8 km) downstream from Canisteo River.

DRAINAGE AREA.--1,377 mi² (3,566 km²).

PERIOD OF RECORD.--July 1918 to current year.

REVISED RECORDS.--WSP 891: 1935-38. WSP 1672: 1919(M), 1927(M), 1929(M). WRD NY 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 931.24 ft (283.842 m) above mean sea level. Prior to June 21, 1931, nonrecording gage on highway bridge at same datum.

REMARKS.--Records good except those for winter periods, which are fair. High flows slightly regulated by upstream reservoirs.

AVERAGE DISCHARGE.--59 years, 1,365 ft³/s (38.66 m³/s), 13.46 in/yr (342 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 190,000 ft³/s (5,380 m³/s) June 23, 1972, from rating curve extended above 44,000 ft³/s (1,250 m³/s) on basis of slope-area measurements at gage heights 18.82 ft (5.736 m) and 23.54 ft (7.175 m) and on computation of peak flow at Lindley and Canisteo River at Erwins, 7.2 mi (11.6 km) and 2.0 mi (3.2 km) upstream, respectively, adjusted for flow from intervening area, gage height, 26.74 ft (8.150 m), from floodmarks; minimum, 18 ft³/s (0.51 m³/s) Sept. 2, 3, 1939; minimum gage height, 0.40 ft (0.122 m) Sept. 8, 9, 1954, July 23, Aug. 10, 11, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 17,000 ft³/s (481 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 10	0100	18,900 535	10.83 3.301	Mar. 13	1700	19,600 555	11.05 3.368
Oct. 21	1100	17,000 481	10.29 3.136	Sept. 25	1200	*24,000 680	*12.23 3.728
Feb. 25	0900	†17,000 481	‡12.13 3.697				

† About.

‡ Backwater from ice.

Minimum discharge, 130 ft³/s (3.68 m³/s) Sept. 12, 13, gage height, 0.95 ft (0.290 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	190	3150	388	330	170	3370	5010	977	284	539	286	252
2	180	1810	490	320	170	2050	4120	882	291	394	375	216
3	170	1500	427	310	170	1420	7200	843	291	316	287	283
4	160	1350	444	300	160	2620	4710	762	282	278	216	231
5	140	1340	502	300	160	8050	4030	2820	282	261	198	202
6	140	1140	472	290	170	4730	3450	2570	278	252	635	184
7	200	994	700	290	170	2880	2760	1840	300	2450	2310	180
8	260	913	1600	270	170	2220	2380	1320	315	4140	1590	173
9	5000	828	1100	270	180	2180	1900	1300	274	1900	821	163
10	8970	790	1000	260	200	3540	1670	2080	438	1070	557	152
11	2770	821	920	250	250	4160	1510	2120	514	754	455	142
12	1500	740	1200	250	340	3830	1330	1540	372	662	405	133
13	1090	669	760	240	430	11100	1160	1250	287	635	478	136
14	969	642	720	240	480	8520	1030	1050	252	502	399	3990
15	1300	595	820	230	440	5180	921	902	278	421	836	2480
16	913	564	740	230	300	3820	836	790	316	356	532	1290
17	732	545	680	230	260	2780	761	692	256	444	388	3270
18	635	564	620	230	240	2360	704	622	341	526	539	1720
19	564	551	560	230	220	2180	662	629	405	399	377	4470
20	545	545	660	220	210	1920	662	580	421	356	311	4730
21	8900	539	700	210	200	1780	608	508	326	310	269	4360
22	4560	514	640	210	250	2460	545	455	287	259	331	2050
23	2620	484	600	200	350	3630	595	360	243	222	615	1370
24	1990	444	540	190	1500	2840	4190	400	220	197	421	1120
25	3250	421	500	190	10000	2030	4170	480	224	196	526	14700
26	3110	421	480	180	4290	1940	2580	526	1240	404	388	8220
27	2030	508	450	180	4710	2350	1970	400	754	327	292	6370
28	1500	711	410	170	6710	6190	1600	378	502	233	248	3330
29	1300	655	390	170	---	10300	1320	305	725	196	224	2220
30	1140	490	370	170	---	7160	1110	284	867	226	220	1650
31	2230	---	350	170	---	7200	---	284	---	411	346	---
TOTAL	59058	25238	20233	7320	32900	127330	65494	29949	11865	19636	15875	69787
MEAN	1905	841	653	236	1175	4107	2183	966	396	633	512	2326
MAX	8970	3150	1600	330	10000	11100	7200	2820	1240	4140	2310	14700
MIN	140	421	350	170	160	1780	545	284	220	196	198	133
CFSM	1.38	.61	.47	.17	.85	2.98	1.59	.70	.29	.46	.37	1.69
IN.	1.60	.68	.55	.20	.89	3.44	1.77	.81	.53	.43	.43	1.89

CAL YR 1976	TOTAL	617106	MEAN	1686	MAX	29000	MIN	98	CFSM	1.22	IN	16.67
WTR YR 1977	TOTAL	484685	MEAN	1328	MAX	14700	MIN	133	CFSM	.96	IN	13.09

SUSQUEHANNA RIVER BASIN

249

01527000 COHOCTON RIVER AT COHOCTON, NY

LOCATION.--Lat 42°30'00", long 77°30'02", Steuben County, Hydrologic Unit 02050105, on left bank 450 ft (137 m) downstream from bridge on U.S. Highway 15 at Cohocton, 800 ft (244 m) downstream from small tributary, and 1.4 mi (2.3 km) upstream from Reynolds Creek.

DRAINAGE AREA.--52.2 mi² (135 km²).

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WRD NY 1969: Drainage area. WRD NY 1972: 1970, 1971.

GAGE.--Water-stage recorder. Datum of gage is 1,275.49 ft (388.769 m) above mean sea level.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--27 years, 56.5 ft³/s (1.60 m³/s), 14.70 in/yr (373 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft³/s (64.0 m³/s) June 23, 1972, gage height, 9.82 ft (2.993 m); minimum, 0.1 ft³/s (0.003 m³/s) Oct. 6, 1954, gage height, 1.30 ft (0.396 m), result of regulation from unknown cause.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.50 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 13	1200	350 9.91	4.71 1.436	Sept. 25	0100	*533 15.1	*5.57 1.698
Sept. 20	0900	443 12.5	5.16 1.573				

Minimum daily discharge, 10 ft³/s (0.28 m³/s) Jan. 30-Feb. 8; minimum gage height, 1.59 ft (0.485 m) Oct. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	142	24	20	10	140	209	85	32	16	20	25
2	15	162	23	20	10	131	204	79	30	15	19	27
3	14	154	22	19	10	110	197	74	28	14	15	30
4	14	137	25	19	10	115	180	70	25	15	14	25
5	13	121	26	18	10	144	162	92	24	15	14	22
6	13	105	25	18	10	145	143	101	22	16	20	22
7	13	91	28	17	10	130	127	95	24	43	24	21
8	27	79	36	17	10	115	115	83	22	79	25	20
9	88	70	28	16	11	113	102	88	21	119	21	18
10	130	66	35	16	12	144	92	98	25	106	18	18
11	162	63	34	15	14	190	82	112	22	70	18	16
12	144	58	32	15	20	225	74	112	20	49	18	16
13	109	54	28	15	24	324	69	105	19	38	19	21
14	87	52	26	15	28	328	63	95	20	30	18	62
15	74	49	26	14	30	323	59	86	30	25	31	51
16	64	47	26	14	20	271	53	75	27	27	20	56
17	54	44	25	13	17	215	48	67	20	26	84	93
18	47	43	25	13	17	176	44	59	25	26	75	140
19	41	42	24	13	19	146	42	64	33	22	59	219
20	45	42	26	13	22	126	41	61	22	21	35	408
21	136	41	31	12	21	114	39	56	21	19	26	392
22	162	39	35	12	20	110	40	49	18	17	49	415
23	194	38	34	12	20	110	67	41	17	16	49	354
24	185	36	30	12	23	104	115	42	16	15	56	308
25	174	35	30	11	110	92	161	63	22	22	60	450
26	168	36	28	11	90	85	178	53	35	24	48	434
27	156	41	26	11	130	84	160	41	22	17	37	445
28	140	39	25	11	148	103	135	36	19	15	34	382
29	125	30	23	11	---	153	116	32	21	15	29	310
30	112	26	21	10	---	188	99	32	19	18	35	220
31	126	---	20	10	---	211	---	28	---	17	28	---
TOTAL	2847	1982	847	443	876	4966	3216	2175	701	967	1018	5020
MEAN	91.8	66.1	27.3	14.3	31.3	160	107	70.2	23.4	31.2	32.8	167
MAX	194	162	36	20	148	328	209	112	35	119	84	450
MIN	13	26	20	10	10	84	39	28	16	14	14	16
CFSM	1.76	1.27	.52	.27	.60	3.07	2.05	1.34	.45	.60	.63	3.20
IN.	2.03	1.41	.60	.32	.62	3.54	2.29	1.55	.50	.69	.73	3.58

CAL YR 1976	TOTAL	30231	MEAN 82.6	MAX 668	MIN 13	CFSM 1.58	IN 21.54
WTR YR 1977	TOTAL	25059	MEAN 68.7	MAX 450	MIN 10	CFSM 1.32	IN 17.86

SUSQUEHANNA RIVER BASIN

01528000 FIVEMILE CREEK NEAR KANONA, NY

LOCATION.--Lat 42°23'18", long 77°21'29", Steuben County, Hydrologic Unit 02050105, on left bank just downstream from town of Wheeler highway bridge, 1.5 mi (2.1 km) upstream from mouth and Kanona.

DRAINAGE AREA.--66.8 mi² (173 km²).

PERIOD OF RECORD.--February 1937 to current year.

REVISED RECORDS.--WRD NY 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,170.30 ft (356.707 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1973, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--40 years, 74.8 ft³/s (2.118 m³/s), 15.21 in/yr (386 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,110 ft³/s (145 m³/s) June 23, 1972, gage height, 6.95 ft (2.118 m) present datum; maximum gage height, 7.10 ft (2.164 m) present datum, Mar. 31, 1940 (ice jam); minimum discharge, 0.04 ft³/s (0.001 m³/s) Sept. 27, 29, 1941; minimum gage height, 0.72 ft (0.219 m) present datum, Sept. 4, 1973 (result of channel improvement).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 880 ft³/s (24.9 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 13	1100	1,070 30.3	4.47 1.362	Sept. 20	0700	1,520 43.0	5.02 1.530
Sept. 18	2400	999 28.3	4.37 1.332	Sept. 25	0530	*1,790 50.7	*5.28 1.609

Minimum discharge, 5.9 ft³/s (0.17 m³/s) Oct. 5, 6, gage height, 0.98 ft (0.299 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	278	28	28	12	400	206	47	16	8.1	8.6	23
2	8.6	136	26	28	12	250	156	47	16	7.3	8.1	60
3	7.3	99	26	29	12	200	271	54	15	6.6	7.3	44
4	6.6	86	31	30	12	180	166	45	14	6.6	6.9	29
5	6.2	80	32	28	12	640	134	315	13	6.6	11	20
6	6.2	68	31	24	12	419	111	178	14	7.3	18	17
7	6.6	58	32	26	12	197	87	94	14	25	20	17
8	23	55	68	25	13	149	82	75	14	376	14	15
9	263	50	56	23	14	260	73	87	14	86	11	14
10	532	49	52	20	16	565	68	229	15	44	9.1	12
11	160	51	58	21	18	542	65	286	17	29	7.7	11
12	79	46	66	18	24	412	60	125	14	25	8.6	9.6
13	56	54	52	17	40	866	52	87	12	22	7.7	12
14	45	55	50	17	80	760	49	72	10	18	8.6	383
15	46	48	48	17	50	309	46	62	9.6	15	10	116
16	38	43	51	16	32	192	41	53	8.6	18	9.6	143
17	33	38	50	16	22	136	36	48	8.6	17	156	300
18	30	39	49	16	21	117	34	42	11	14	60	335
19	27	38	46	15	24	106	36	86	23	12	29	835
20	31	34	62	15	28	97	32	54	15	11	20	1400
21	526	32	150	15	23	96	29	43	13	10	14	1080
22	325	31	130	15	22	141	29	36	10	9.1	24	315
23	142	30	92	14	27	134	100	31	8.1	9.1	28	147
24	131	30	68	14	40	117	404	30	7.3	8.6	73	226
25	267	29	66	13	400	100	206	37	9.6	19	61	1490
26	168	30	60	13	160	97	114	32	11	16	34	1030
27	114	39	58	13	140	125	86	22	10	14	26	415
28	89	42	48	13	700	322	70	19	10	9.6	20	183
29	77	40	40	13	---	618	64	17	12	8.1	17	125
30	67	32	36	12	---	439	52	17	9.6	8.6	17	108
31	232	---	30	12	---	318	---	17	---	7.7	17	---
TOTAL	3555.5	1740	1692	576	1978	9304	2959	2387	374.4	874.3	762.2	8914.6
MEAN	115	58.0	54.6	18.6	70.6	300	98.6	77.0	12.5	28.2	24.6	297
MAX	532	278	150	30	700	866	404	315	23	376	156	1490
MIN	6.2	29	26	12	12	96	29	17	7.3	6.6	6.9	9.6
CFSM	1.72	.87	.82	.28	1.06	4.49	1.48	1.15	.19	.42	.37	4.45
IN.	1.98	.97	.94	.32	1.10	5.18	1.65	1.33	.21	.49	.42	4.96
CAL YR 1976	TOTAL	40645.8	MEAN	111	MAX	1800	MIN	6.2	CFSM	1.66	IN	22.63
WTR YR 1977	TOTAL	35117.0	MEAN	96.2	MAX	1490	MIN	6.2	CFSM	1.44	IN	19.56

251

LOCATION.--Lat 42°29'06", long 77°06'39", Steuben County, Hydrologic Unit 02050105, at entrance to conduit on Diversion Canal, 0.8 mi (1.3 km) east of Keuka, and 1.0 mi (1.6 km) north of Wayne.

DRAINAGE AREA.--45.5 mi² (118 km²).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Daily power generation records.

REMARKS.--Records for January 1951 to September 1966 on file. Sketch indicates diversion from Lamoka-Waneta Lakes (Susquehanna River Basin) to Keuka Lake (Oswego River Basin).

COOPERATION.--Records furnished by New York State
Electric and Gas Corp.

AVERAGE DISCHARGE.--11 years, 24.5 ft³/s (0.694 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 73 ft³/s (2.07 m³/s) June 23, 1972; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 69 ft³/s (1.95 m³/s) many days; no flow many days.

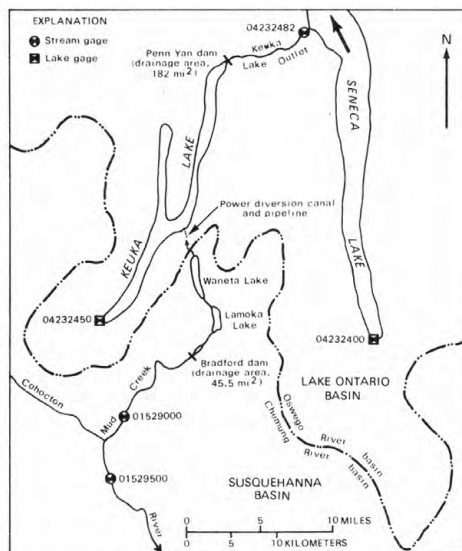


Figure 8.--Gaging stations and transbasin diversion, Cohocton River-Keuka Lake area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	42	0	0	32	0	0	68	0	0	0	0
2	34	42	0	0	32	0	0	68	0	0	0	0
3	34	42	0	18	32	0	0	68	0	0	0	0
4	34	42	0	42	0	0	0	55	0	0	0	0
5	34	44	0	42	0	0	0	55	0	0	0	0
6	33	44	0	42	0	0	0	60	0	0	0	0
7	33	44	0	42	0	0	0	68	0	0	0	0
8	33	46	0	42	12	0	0	68	0	0	0	0
9	33	46	0	42	20	0	0	69	0	0	0	0
10	33	44	0	42	0	0	0	69	0	0	28	0
11	33	44	0	42	0	0	0	69	0	0	55	0
12	42	44	0	42	0	0	0	69	0	0	55	0
13	34	44	0	42	0	0	0	68	0	28	55	32
14	34	44	0	34	0	0	0	68	0	12	28	60
15	34	44	0	34	0	0	0	68	0	0	0	27
16	34	20	0	34	0	0	0	66	0	0	0	54
17	34	0	0	34	0	0	0	66	0	0	0	55
18	33	0	0	34	0	0	0	66	0	0	0	55
19	33	20	0	17	0	0	0	66	0	0	0	66
20	34	40	19	0	0	0	30	65	0	0	0	66
21	34	40	42	18	0	0	47	65	0	0	0	66
22	37	36	44	35	0	0	18	65	12	0	0	66
23	37	36	44	35	0	0	0	33	0	0	0	66
24	37	24	44	35	0	0	0	0	0	0	0	66
25	39	0	44	35	0	0	39	0	0	0	0	66
26	39	0	44	33	0	0	68	0	0	0	0	66
27	42	0	44	32	0	0	68	0	0	0	0	66
28	26	0	44	32	0	0	68	0	0	0	0	66
29	40	0	44	32	---	0	68	0	0	0	0	66
30	40	0	44	32	---	0	68	0	0	0	0	66
31	40	---	44	32	---	0	---	0	---	0	0	---
TOTAL	1091	872	501	976	128	0	474	1482	12	40	221	1075
MEAN	35.2	29.1	16.2	31.5	4.57	0	15.8	47.8	.40	1.29	7.13	35.8
MAX	42	46	44	42	32	0	68	69	12	28	55	66
MIN	26	0	0	0	0	0	0	0	0	0	0	0
CAL YR 1976	TOTAL	12643.8	MEAN	34.5	MAX	69	MIN	0				
WTR YR 1977	TOTAL	6872.0	MEAN	18.8	MAX	69	MIN	0				

SUSQUEHANNA RIVER BASIN

01529000 MUD CREEK NEAR SAVONA, NY

LOCATION.--Lat 42°18'30", long 77°11'50", Steuben County, Hydrologic Unit 02050105, on left bank just upstream from small tributary entering from east, 2.4 mi (3.9 km) upstream from Savona, and 3.3 mi (5.3 km) upstream from mouth.

DRAINAGE AREA.--76.6 mi² (198 km²).

PERIOD OF RECORD.--July 1918 to December 1919 (published as "at Savona"), March 1937 to current year.

REVISED RECORDS.--WRD NY 1969: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,049.63 ft (319.927 m) above mean sea level (levels by Corps of Engineers). Prior to December 1919, nonrecording gage at site 1.5 mi (2.4 km) downstream at different datum.

REMARKS.--Records fair except those for winter periods, which are poor. Flow regulated by Lake Lamoka-Waneta System. Diversion table for station 01528700 represents discharge from 45.5 mi² (118 km²) of drainage area from the Susquehanna River basin to the St. Lawrence River basin through the Keuka power diversion canal of New York State Electric and Gas Corp. Monthly records of diversion for January 1951 to September 1966 available in files of the Geological Survey.

COOPERATION.--Records of diversion furnished by New York State Electric and Gas Corp.

AVERAGE DISCHARGE.--40 years (1937-77), 41.0 ft³/s (1.16 m³/s) unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,100 ft³/s (173 m³/s) June 23, 1972, gage height, 8.66 ft (2.640 m), from rating curve extended above 1,350 ft³/s (38.2 m³/s) on basis of slope-area measurement of peak flow; minimum, 0.04 ft³/s (0.001 m³/s) Sept. 21-23, 1941, gage height, 0.53 ft (0.162 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 577 ft³/s (16.3 m³/s) Sept. 27, gage height, 4.19 ft (1.277 m); minimum discharge, 1.0 ft³/s (0.028 m³/s) July 23; minimum gage height, 0.64 ft (0.195 m) Sept. 10-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	72	7.2	7.0	3.4	88	56	25	5.2	3.6	3.8	2.4
2	3.7	34	6.8	7.2	3.3	66	42	21	5.0	3.1	3.5	2.2
3	4.0	25	6.8	7.2	3.3	52	72	22	4.8	2.8	2.8	2.6
4	3.7	23	8.2	7.6	3.3	45	115	20	4.4	2.8	2.6	2.7
5	3.2	20	8.2	6.8	3.3	160	108	141	4.2	3.4	2.9	2.4
6	3.0	20	8.0	6.0	3.3	100	95	81	4.9	4.0	5.7	2.3
7	3.0	19	12	6.6	3.3	46	84	46	6.5	9.8	9.1	2.1
8	9.7	18	18	6.4	3.4	35	81	34	5.1	61	10	2.1
9	20	15	14	5.8	3.5	62	75	44	5.2	20	5.5	1.9
10	22	14	13	5.0	3.7	140	73	79	10	6.6	4.0	1.8
11	22	15	15	5.4	4.0	130	68	68	7.7	3.7	3.4	1.7
12	19	13	17	4.5	5.0	100	64	45	5.8	3.2	4.2	1.7
13	14	12	13	4.3	10	210	28	36	5.0	2.7	4.3	2.2
14	14	12	13	4.2	20	150	22	29	4.4	2.3	4.2	24
15	12	12	13	4.1	15	72	20	25	4.2	2.0	4.3	26
16	9.7	11	13	4.0	8.0	45	19	22	4.1	1.8	3.4	28
17	8.7	9.7	13	4.0	5.6	32	18	20	3.8	2.7	3.5	56
18	8.3	9.7	13	3.9	5.4	28	17	18	4.5	3.2	3.0	41
19	7.8	10	12	3.9	6.0	25	17	26	6.7	2.0	2.6	102
20	8.3	10	16	3.8	7.0	23	16	21	5.2	1.7	2.4	156
21	90	10	38	3.8	5.8	22	14	16	4.8	1.5	2.2	350
22	66	9.7	23	3.7	5.4	33	13	13	4.4	1.3	3.6	415
23	36	9.2	18	3.7	7.4	31	34	11	3.5	1.1	3.2	136
24	28	8.7	17	3.6	10	27	110	10	3.3	1.1	4.6	52
25	70	8.3	17	3.6	90	24	87	9.5	4.1	19	4.3	354
26	45	9.2	15	3.5	40	23	62	8.3	4.6	14	3.3	455
27	29	10	14	3.5	35	30	50	7.2	3.6	5.6	2.8	517
28	22	11	12	3.5	100	78	40	6.4	3.7	3.8	2.4	384
29	20	10	10	3.4	---	150	34	5.8	5.6	3.3	2.3	143
30	17	8.2	9.0	3.4	---	100	27	5.9	5.0	4.5	3.1	36
31	62	---	7.6	3.4	---	80	---	5.5	---	3.8	2.8	---
TOTAL	685.3	466.7	420.8	146.8	413.4	2207	1562	921.6	149.3	201.4	119.8	3303.1
MEAN	22.1	15.6	13.6	4.74	14.8	71.2	52.1	29.7	4.98	6.50	3.86	110
MAX	90	72	38	7.6	100	210	116	141	10	61	10	517
MIN	3.0	8.2	6.8	3.4	3.3	22	13	5.5	3.3	1.1	2.2	1.7
CAL YR 1976 TOTAL	16461.9			MEAN 45.0	MAX 561	MIN 3.0						
WTR YR 1977 TOTAL	10599.2			MEAN 29.0	MAX 517	MIN 1.1						

01529500 COHOCTON RIVER NEAR CAMPBELL, NY

LOCATION.--Lat 42°15'10", long 77°13'00", Steuben County, Hydrologic Unit 02050105, on left bank just downstream from bridge on town road at junction with County Highway 125, 1.9 mi (3.1 km) upstream from Michigan Creek, and 2 mi (3 km) north of Campbell.

DRAINAGE AREA.--470 mi² (1,217 km²).

PERIOD OF RECORD.--July 1918 to current year.

REVISED RECORDS.--WSP 891: 1935. WSP 1302: 1919-20(M), 1927-28(M), 1928-38 (monthly runoff). WRD NY 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,016.34 ft (309.780 m) above mean sea level. Prior to Mar. 5, 1937, nonrecording gage on highway bridge.

REMARKS.--Records good except those for winter periods, which are fair. During each year since 1927, a large part of flow from 45.5 mi² (118 km²) of drainage area upstream from Lake Lamoka on Mud Creek, a tributary upstream from this station, is diverted into Keuka Lake (Oswego River basin), for power development. For table of diversion, see station 01528700.

AVERAGE DISCHARGE.--59 years, 446 ft³/s (12.63 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41,100 ft³/s (1,160 m³/s) July 8, 1935, gage height, 11.6 ft (3.54 m), from floodmark, from rating curve extended above 24,200 ft³/s (685 m³/s) on basis of velocity-area and slope-area measurements of peak flow; minimum, 8 ft³/s (0.23 m³/s) Sept. 6, 7, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,200 ft³/s (119 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 13	1400	4,830 137	5.27 1.606	Sept. 25	1030	*7,120 202	*6.57 2.003
Sept. 20	1330	4,700 133	5.19 1.582				

Minimum discharge, 42 ft³/s (1.19 m³/s) Sept. 12, 13; minimum gage height, 0.30 ft (0.091 m) Oct. 5, 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	1180	160	150	76	1340	1480	391	171	100	101	138
2	80	841	150	150	76	760	1280	370	168	86	110	243
3	73	735	150	160	76	803	1800	391	155	78	88	245
4	69	650	190	170	76	1060	1320	347	147	78	75	180
5	64	575	200	150	76	2160	1200	1490	135	82	82	138
6	60	510	190	150	76	1550	1020	1080	135	82	216	119
7	62	450	250	160	76	1070	849	743	155	171	233	104
8	155	418	340	130	78	872	772	595	138	1410	210	91
9	1000	370	300	130	80	1100	664	650	133	516	153	80
10	2010	356	280	120	82	1830	615	1030	164	342	122	67
11	864	351	260	120	82	1950	568	1130	152	260	105	53
12	542	311	290	120	98	1430	516	810	130	218	107	47
13	391	306	260	110	150	3680	439	664	119	187	115	49
14	342	302	250	110	210	3070	401	568	112	158	110	1170
15	311	281	260	100	200	2010	370	491	112	133	178	588
16	260	260	240	100	160	1520	342	423	119	125	129	581
17	226	245	230	100	120	1330	315	380	109	138	448	1120
18	208	241	220	98	110	1170	297	347	112	164	351	1030
19	187	245	210	96	130	1060	289	407	197	127	233	2560
20	180	229	200	92	160	968	277	351	147	98	185	3780
21	2100	226	400	90	130	912	256	311	122	97	147	3180
22	1320	215	350	90	120	985	249	281	107	84	216	2010
23	952	204	260	88	120	928	473	253	95	77	237	1390
24	849	201	250	86	150	810	1400	237	89	73	315	1290
25	1290	187	240	84	2000	657	1020	439	100	207	349	5710
26	1040	193	230	80	1900	643	803	297	161	210	249	3650
27	818	226	210	78	1780	765	685	241	133	124	207	2510
28	678	233	190	76	2190	1450	581	211	107	96	180	1760
29	595	237	180	78	---	2280	504	190	127	84	160	1300
30	523	168	170	76	---	1930	439	177	127	101	174	928
31	1030	---	160	76	---	1900	---	168	---	101	162	---
TOTAL	18365	10946	7270	3438	10582	44693	21224	15463	3978	5807	5747	36111
MEAN	592	365	235	111	378	1442	707	499	133	187	185	1204
MAX	2100	1180	400	170	2190	3680	1800	1490	197	1410	448	5710
MIN	60	168	150	76	76	543	249	168	89	73	75	47

CAL YR 1976 TOTAL 194672 MEAN 532 MAX 6720 MIN 60
WTR YR 1977 TOTAL 183624 MEAN 503 MAX 5710 MIN 47

SUSQUEHANNA RIVER BASIN

01529950 CHEMUNG RIVER AT CORNING, NY

LOCATION.--Lat 42°08'47", long 77°03'28", Steuben County, Hydrologic Unit 02050105, on right bank adjacent to Corning Glass Works power plant, 0.2 mi (0.3 km) upstream from bridge on State Highway 414 (Centerway) at Corning, and 1.7 mi (2.7 km) downstream from Cohocton River.

DRAINAGE AREA.--2,006 mi² (5,196 km²).

PERIOD OF RECORD.--Occasional discharge measurements water years 1941, 1968-69. October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 900.00 ft (274.320 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. High flows slightly regulated by upstream reservoirs. During each year a large part of flow from 45.5 mi² (118 km²) of drainage area is diverted from Mud Creek, an upstream tributary, into Keuka Lake (Oswego River basin) for power development. For table of diversion, see station 01528700.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 127,000 ft³/s (3,600 m³/s) Sept. 26, 1975, gage height, 32.46 ft (9.894 m); minimum 211 ft³/s (5.98 m³/s) Aug. 22-24, 1975; minimum gage height, 14.60 ft (4.450 m) Sept. 12, 13, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972, reached a stage of 40.71 ft (12.408 m), from floodmark (discharge, 228,000 ft³/s or 6,460 m³/s), from peak flows determined at upstream and downstream stations adjusted for drainage area and channel storage.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 24,000 ft³/s (680 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 25	1000	†24,000 680	‡22.20 6.767	Sept. 25	1300	*33,400 946	*23.44 7.145
Mar. 13	1700	25,600 725	22.29 6.794				

† About.

‡ Backwater from ice.

Minimum discharge, 254 ft³/s (7.19 m³/s) Oct. 7; minimum gage height, 14.60 ft (4.450 m) Sept. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	370	4350	874	620	290	4780	6360	1480	497	740	473	466
2	335	2770	917	580	290	3160	5190	1360	497	571	531	464
3	307	2350	822	560	290	2750	8780	1330	475	489	479	550
4	294	2120	832	560	280	3810	5820	1260	460	446	384	490
5	280	2030	927	540	280	10500	5050	4220	431	431	385	429
6	267	1750	874	540	300	6150	4390	3910	439	475	690	397
7	261	1530	1360	500	300	3970	3630	2870	489	2150	2490	377
8	413	1410	2900	480	300	3160	3200	2150	521	4930	1880	362
9	5710	1280	2100	480	310	3240	2680	2170	482	2600	1080	345
10	11700	1200	1600	460	370	5030	2400	3280	588	1550	773	321
11	3870	1230	1400	450	430	5750	2210	3590	750	1210	637	299
12	2280	1110	1700	450	560	5350	1980	2640	588	1040	587	287
13	1700	984	1300	420	740	14700	1750	2150	497	984	642	293
14	1460	960	1200	420	860	12800	1560	1810	453	822	643	4580
15	1750	906	1300	400	800	7140	1420	1560	439	691	1000	3340
16	1330	842	1200	400	600	5370	1300	1370	512	633	781	1960
17	1090	801	1100	400	520	4220	1200	1210	453	691	723	4450
18	949	811	1000	400	460	3630	1110	1090	489	760	976	2860
19	874	801	960	400	450	3340	1050	1100	614	642	697	6620
20	917	780	1100	380	420	3020	1040	1050	662	504	572	7840
21	10800	770	1200	360	400	2750	972	917	546	516	501	7500
22	5800	740	1100	360	450	3360	895	832	482	433	536	4210
23	3610	710	1000	340	1000	4410	1020	740	431	391	889	2930
24	2900	652	960	330	2500	3750	5250	681	403	364	717	2540
25	4350	605	900	330	13000	2770	5070	949	446	397	878	22100
26	4120	605	860	310	5570	2700	3510	906	1230	690	712	13000
27	3000	681	820	310	5820	3000	2810	730	1040	564	559	9450
28	2330	874	760	290	9050	6740	2330	633	885	435	486	5230
29	2000	895	720	300	---	13300	1970	571	960	382	442	3820
30	1760	770	680	300	---	9600	1680	537	1100	403	458	2860
31	3060	---	640	300	---	9120	---	521	---	570	544	---
TOTAL	79887	37317	35106	12970	46640	173370	87627	49617	17859	27504	23145	110370
MEAN	2577	1244	1132	418	1666	5593	2921	1601	595	887	747	3679
MAX	11700	4350	2900	620	13000	14700	8780	4220	1230	4930	2490	22100
MIN	261	605	640	290	280	2700	895	521	403	364	384	287
CAL YR 1976	TOTAL	911016	MEAN	2489	MAX	38400	MIN	261				
WTR YR 1977	TOTAL	701412	MEAN	1922	MAX	22100	MIN	261				

SUSQUEHANNA RIVER BASIN

255

01530380 NEWTOWN CREEK AT BREESPORT, NY

LOCATION.--Lat 42°10'23", long 76°43'56", Chemung County, Hydrologic Unit 02050105, on right bank adjacent to State Highway 223 at Breesport, 300 ft (90 m) upstream from bridge on Church Street, and 600 ft (180 m) upstream from Jackson Creek.

DRAINAGE AREA.--20.6 mi² (53.4 km²).

PERIOD OF RECORD.--August 1975 to current year (no winter records).

GAGE.--Water-stage recorder. Datum of gage is 1,090.95 ft (332.522 m) above mean sea level.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,200 ft³/s (62.3 m³/s) Sept. 26, 1975, gage height, 7.00 ft (2.134 m), on basis of slope-area measurement of peak flow; minimum daily discharge recorded, 0.80 ft³/s (0.02 m³/s), July 29-Aug. 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 885 ft³/s (25.1 m³/s) Oct. 9, gage height, 4.07 ft (1.241 m); minimum daily discharge recorded, 0.80 ft³/s (0.02 m³/s) July 29-Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	52				20	67	26	3.5	2.2	.80	2.7
2	4.0	40				21	82	23	3.2	2.2	.80	2.9
3	4.0	35				18	103	24	3.2	1.9	.80	3.5
4	4.0	32				105	59	22	2.9	1.9	.80	2.9
5	3.2	27				88	90	123	2.7	1.9	1.1	2.4
6	2.0	25				42	72	59	2.7	2.4	2.2	2.4
7	1.9	24				22	41	41	2.9	3.5	1.1	2.4
8	29	26				24	46	36	4.0	6.7	6.3	2.2
9	352	21				31	28	45	3.2	4.0	7.6	2.2
10	172	20				41	26	103	3.2	2.2	2.9	2.2
11	65	17				37	33	75	3.2	1.9	2.7	1.9
12	39	15				37	29	52	3.2	1.8	2.4	1.8
13	29	14				146	26	46	3.2	1.6	2.4	1.9
14	30	13				63	22	40	3.5	1.6	4.6	53
15	26	13				35	21	35	3.2	1.4	8.0	17
16	21	12				27	17	29	2.7	1.4	4.3	93
17	19	12				17	16	26	2.7	1.4	4.3	107
18	15	11				12	14	22	2.7	1.4	4.3	50
19	12	11				7.6	14	21	2.7	1.3	2.9	82
20	43	11				7.6	13	18	2.4	3.5	2.7	63
21	200	10				16	12	16	2.2	1.3	2.4	44
22	96	10				37	12	13	2.4	1.0	6.7	30
23	66	10				30	22	9.7	2.4	1.0	5.5	23
24	80	9.8				14	131	7.2	2.2	1.0	4.3	51
25	91	9.6				13	90	6.3	2.2	1.9	3.5	309
26	60	10				17	60	5.1	2.2	2.2	2.9	156
27	44	11				26	51	4.8	1.9	1.6	2.7	105
28	36	11				33	42	4.6	1.9	1.1	2.7	70
29	30	12				60	34	3.8	2.7	.80	2.4	56
30	28	9.6				56	29	3.2	2.4	.80	2.7	42
31	100	---				58	---	3.5	---	.80	2.7	---
TOTAL	1705.7	534.0				1161.2	1302	943.2	83.5	59.70	111.40	1382.4
MEAN	55.0	17.8				37.5	43.4	30.4	2.78	1.93	3.59	46.1
MAX	352	52				146	131	123	4.0	6.7	11	309
MIN	1.9	9.6				7.6	12	3.2	1.9	.80	.80	1.8
CFSM	2.67	.86				1.82	2.11	1.48	.13	.09	.17	2.24
IN.	3.08	.96				2.10	2.35	1.70	.15	.11	.20	2.50

SUSQUEHANNA RIVER BASIN

01530500 NEWTOWN CREEK AT ELMIRA, NY

LOCATION.--Lat 42°06'11", long 76°47'54", Chemung County, Hydrologic Unit 02050105, on left bank 200 ft (61 m) downstream from bridge on Linden Place in Elmira, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--77.5 mi² (201 km²).

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 1502: 1956. WRD NY 1969: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 838.35 ft (255.529 m) above mean sea level.

REMARKS.--Records poor. Diurnal fluctuation at low flow caused by operations of sand and gravel plant and wastewater treatment plant upstream.

AVERAGE DISCHARGE.--39 years, 87.3 ft³/s (2.472 m³/s), 15.30 in/yr (389 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 4,000 ft³/s (113 m³/s) June 23, 1972; maximum gage height, 19.28 ft (5.877 m) June 23, 1972, from floodmarks (backwater from Chemung River); minimum daily discharge, 5.0 ft³/s (0.14 m³/s) Aug. 22, Sept. 19, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s (34.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2115	*2,120 60.0	*13.07 3.984	Mar. 13	1315	1,260 35.7	10.21 3.112
Oct. 21	0815	1,710 48.4	11.69 3.563	Sept. 25	1315	1,710 48.4	11.70 3.566
Feb. 25	0245	1,410 39.9	10.69 3.258				

Minimum discharge, 13 ft³/s (0.37 m³/s) June 28, July 2; minimum gage height, 4.84 ft (1.475 m) Feb 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	252	35	29	16	197	198	55	33	15	15	22
2	26	169	32	28	16	139	192	53	32	14	17	32
3	24	141	29	27	16	122	287	56	33	14	17	30
4	25	133	28	27	16	413	172	51	27	17	17	26
5	26	116	28	26	16	570	201	401	15	24	23	25
6	26	99	32	25	17	280	180	190	18	24	32	26
7	27	93	180	24	17	183	131	121	20	26	42	24
8	95	101	164	24	17	144	114	95	18	34	28	24
9	947	80	94	23	17	154	95	118	20	26	21	24
10	852	76	80	22	18	198	86	295	24	22	20	23
11	239	74	94	22	18	191	81	233	20	20	21	23
12	133	53	84	21	25	180	73	126	17	19	21	21
13	99	57	100	20	60	790	67	95	18	16	21	34
14	102	53	79	20	74	472	63	71	18	16	27	166
15	82	50	60	19	52	264	59	57	17	16	33	56
16	73	47	52	19	39	196	56	46	17	15	23	145
17	61	45	50	18	37	149	54	39	17	18	23	277
18	55	45	47	18	35	133	51	36	17	15	22	123
19	50	44	45	17	33	126	50	36	16	15	20	209
20	78	43	54	17	31	126	51	34	17	16	18	145
21	1050	41	70	16	30	124	51	31	18	16	18	120
22	309	41	52	16	30	302	48	33	17	16	26	89
23	184	39	44	16	40	339	57	39	16	15	26	74
24	205	38	39	16	244	209	314	38	15	15	23	67
25	331	36	37	16	821	155	252	37	18	20	21	1110
26	300	37	35	16	340	148	143	36	18	18	21	450
27	186	39	34	16	424	227	108	35	16	17	21	331
28	145	40	33	16	406	381	86	32	15	14	21	175
29	126	47	31	16	---	463	73	32	18	14	20	136
30	110	37	30	16	---	300	63	34	16	16	23	101
31	440	---	29	16	---	285	---	33	---	14	21	---
TOTAL	6433	2176	1801	622	2905	7960	3456	2589	581	557	702	4108
MEAN	208	72.5	58.1	20.1	104	257	115	83.5	19.4	18.0	22.6	137
MAX	1050	252	180	29	821	790	314	401	33	34	42	1110
MIN	24	36	28	16	16	122	48	31	15	14	15	21
CFSM	2.68	.94	.75	.26	1.34	3.32	1.48	1.08	.25	.23	.29	1.77
IN.	3.09	1.04	.86	.30	1.39	3.82	1.66	1.24	.28	.27	.34	1.97
CAL YR 1976	TOTAL	38910	MEAN 106	MAX 1590	MIN 22	CFSM 1.37	IN 18.68					
WTR YR 1977	TOTAL	33890	MEAN 92.8	MAX 1110	MIN 14	CFSM 1.20	IN 16.27					

01531000 CHEMUNG RIVER AT CHEMUNG, NY

LOCATION.--Lat 42°00'08", long 76°38'06", Chemung County, Hydrologic Unit 02050105, on right bank 100 ft (30 m) upstream from bridge on State Highway 427, 0.7 mi (1.1 km) southwest of Chemung, and 12.2 mi (19.6 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--2,506 mi² (6,491 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1903 to current year (gage heights only for some winter periods).

REVISED RECORDS.--WSP 891: 1935-39. WSP 1432: 1904, 1907, 1915. WRD NY 1969: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 778.63 ft (237.326 m) above mean sea level (levels by Corps of Engineers). Prior to Jan. 10, 1930, nonrecording gage on highway bridge 60 ft (18 m) upstream at same datum.

REMARKS.--Records good except those for winter periods, which are fair. High flows slightly regulated by upstream reservoirs. During each year a large part of flow from 45.5 mi² (118 km²) of drainage area is diverted from Mud Creek, an upstream tributary, into Keuka Lake (Oswego River basin) for power development. For table of diversion, see station 01528700.

AVERAGE DISCHARGE.--71 years (1905-13, 1914-77), 2,518 ft³/s (71.31 m³/s), 13.65 in/yr (347 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 189,000 ft³/s (5,350 m³/s) June 23, 1972, gage height, 31.62 ft (9.638 m), from floodmark, from rating curve extended above 65,000 ft³/s (1,840 m³/s) on basis of slope-area and velocity-area studies at gage height 19.57 ft (5.965 m) and slope-area and contracted opening measurements at gage heights 23.97 (7.306 m) and 31.62 ft (9.638 m); minimum, 49 ft³/s (1.39 m³/s) Aug. 14, 1911, gage height, 1.47 ft (0.448 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 30,000 ft³/s (850 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	0100	30,700 869	13.16 4.011	Sept. 25	2200	*33,800 957	*13.84 4.218

Minimum discharge, 318 ft³/s (9.01 m³/s) Sept. 12, 13, gage height, 3.73 ft (1.137 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	472	6490	916	800	400	7550	9760	2150	714	1110	639	675
2	472	4380	813	800	390	4610	6940	1950	690	800	488	572
3	443	3500	1060	760	410	3860	11000	1810	656	633	608	594
4	433	3190	1010	760	400	4540	8800	1790	622	545	488	659
5	417	3010	1010	740	400	14600	6910	4430	578	513	431	557
6	409	2700	1120	740	420	9980	6290	6180	566	513	610	485
7	402	2400	1480	700	420	6090	5000	4310	600	1090	2110	432
8	394	2220	2390	660	420	4640	4310	3210	644	4880	2810	411
9	5470	2010	2150	640	440	4220	3730	2940	656	4080	1840	393
10	19000	1860	1900	560	520	5870	3230	4220	690	2190	1200	369
11	6810	1840	1800	560	620	7480	2990	5440	916	1570	936	343
12	3660	1780	2100	560	780	7030	2740	4010	852	1250	830	324
13	2700	1590	1800	540	860	15700	2440	3250	679	1170	755	323
14	2300	1530	1600	540	1100	21400	2190	2760	600	1010	835	1340
15	2310	1450	1700	540	1300	11300	2000	2390	545	839	1060	6070
16	2120	1370	1600	540	920	7780	1830	2140	556	738	1310	2760
17	1700	1270	1400	540	780	5950	1680	1930	589	788	906	5600
18	1470	1260	1300	540	680	4930	1590	1740	534	865	1140	4140
19	1330	1250	1200	540	640	4540	1510	1650	633	877	1080	6810
20	1260	1230	1200	540	600	4150	1440	1730	763	738	811	8790
21	13200	1210	1600	520	560	3750	1410	1560	714	644	682	11000
22	10500	1180	1500	490	700	4520	1300	1430	600	499	675	6170
23	5470	1120	1300	470	1000	6400	1330	1340	523	466	860	4080
24	4190	1110	1200	440	3000	5470	5360	1260	462	414	1050	3200
25	5820	1090	1100	430	16000	4190	8110	1220	453	412	985	20900
26	6370	1090	1000	420	9690	3840	5150	1500	775	518	1090	20400
27	4660	1080	960	410	8280	4080	4010	1230	1530	788	825	15000
28	3560	1150	980	400	12700	7420	3330	1050	1020	573	677	7940
29	3070	1400	940	410	---	17800	2820	916	826	443	588	5410
30	2760	1290	880	410	---	14300	2440	826	1260	411	551	3990
31	3990	---	800	410	---	11800	---	763	---	454	525	---
TOTAL	117162	58050	41809	17410	64430	239790	121640	73125	21246	31821	29395	139737
MEAN	3779	1935	1349	562	2301	7735	4055	2359	708	1026	948	4658
MAX	19000	6490	2390	800	16000	21400	11000	6180	1530	4880	2810	20900
MIN	394	1080	800	400	390	3750	1300	763	453	411	431	323
CFSM	1.51	.77	.54	.22	.92	3.09	1.62	.94	.28	.41	.38	1.86
IN.	1.74	.86	.62	.26	.96	3.36	1.81	1.09	.32	.47	.44	2.07

CAL YR 1976	TOTAL	1163797	MEAN	3180	MAX	40900	MIN	337	CFSM	1.27	IN	17.28
WTR YR 1977	TOTAL	955615	MEAN	2618	MAX	21400	MIN	323	CFSM	1.04	IN	14.19

SUSQUEHANNA RIVER BASIN

01531000 CHEMUNG RIVER AT CHEMUNG, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1962 to March 1964, February 1966 to May 1967, August 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1974 to current year.

WATER TEMPERATURES: March 1962 to March 1964, August 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: March 1962 to March 1964, August 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE (except 1977): Maximum daily, 480 micromhos Aug. 30, 1974; minimum daily, 103 micromhos Feb. 25, 1975.

WATER TEMPERATURES: Maximum daily, 27.5°C Aug. 4, 1975; minimum daily (except 1977), 0.5°C on several days during December 1974 and January 1975.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,050 mg/L June 20, 1976; minimum daily mean, 1 mg/L on several days.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 402,000 tons (365,000 Mg) Sept. 26, 1975; minimum daily, 0.85 tons (0.77 Mg) Sept. 20, 1974, Oct. 13, 1975.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 26.0°C July 19.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 800 mg/L Feb. 25; minimum daily mean, 1 mg/L on several days during November, January, and February.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 46,600 tons (42,300 Mg) Mar. 14; minimum daily, 1.1 tons (1.0 Mg) on several days during January and February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM-MF (COL./100 ML)	FECAL STREPTOCOCCI (COL. PER 100 ML)	BICARBONATE (HCO3) (MG/L)
OCT 13...	1800	2390	260	6.9	11.5	12	10.4	<10	52	--	81
NOV 18...	0700	1010	330	7.5	3.0	2	12.0	<10	2	60	102
DEC 14...	1315	1460	255	7.7	.5	9	13.4	<10	40	82	79
MAR 15...	1530	9800	180	6.8	7.5	35	11.0	21	200	460	39
APR 26...	1550	4790	175	7.3	11.0	15	10.6	<10	380	110	52
MAY 18...	1415	1410	280	8.6	19.5	4	10.6	9	220	82	85
JUN 14...	1530	730	380	8.1	19.0	3	8.6	4	54	100	120
JUL 27...	1245	640	320	8.4	22.0	1	9.2	15	510	340	130
AUG 24...	0730	862	350	7.8	20.0	11	7.2	15	490	1820	120
SEP 22...	0930	6280	255	7.4	17.0	--	10.0	--	1700	1840	--

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SUSPENDED SOLIDS (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT 13...	0	66	16	31	12	141	40	.86	.01	.87
NOV 18...	0	84	5.2	38	19	172	6	.86	.02	.88
DEC 14...	0	65	2.5	28	16	143	8	.68	.02	.70
MAR 15...	0	32	9.9	16	14	99	118	.70	.01	.71
APR 26...	0	43	4.2	18	9.6	103	27	.44	.01	.45
MAY 18...	0	70	.3	29	14	171	--	.24	.02	.26
JUN 14...	0	98	1.5	40	26	215	12	.68	.06	.74
JUL 27...	0	110	.8	42	26	221	103	.27	.02	.29
AUG 24...	0	98	3.0	32	22	217	20	.47	.02	.49
SEP 22...	--	--	--	--	--	--	--	--	--	--

B Results based on colony count outside the acceptable range (non-ideal colony count).

SUSQUEHANNA RIVER BASIN

259

01531000 CHEMUNG RIVER AT CHEMUNG, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)
OCT										
13...	.07	.23	.30	1.2	.10	.02	1100	4.3	--	--
NOV										
18...	.15	.18	.33	1.2	.07	.04	290	5.8	.613	.000
DEC										
14...	.10	.23	.33	1.0	.08	.03	740	5.6	.000	.000
MAR										
15...	.05	.56	.61	1.3	.11	.02	4300	6.0	--	--
APR										
26...	.05	.45	.50	.95	.06	.02	850	3.7	--	--
MAY										
18...	.04	.28	.32	.58	.04	.01	320	7.9	3.53	.000
JUN										
14...	.13	.53	.66	1.4	.13	.07	410	3.2	8.69	.702
JUL										
27...	.04	.43	.47	.76	.13	.06	410	4.1	5.06	.684
AUG										
24...	.11	.46	.57	1.1	.11	.07	700	4.3	6.30	.873
SEP										
22...	--	--	--	--	--	--	--	--	.004	.000

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
MAR												
05...	1610 16300		3.0	777	34200	38	53	70	85	98	99	100

SUSQUEHANNA RIVER BASIN

01531000 CHEMUNG RIVER AT CHEMUNG, NY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ONCE DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	193	321	---	---	164	146	268	403	338		
2	397	184	322	322	---	183	161	291	475	318		
3	419	194	336	324	---	174	165	256	413	324		
4	420	208	344	317	---	190	159	264	397	342		
5	408	216	354	337	---	158	168	250	422	351		
6	410	223	353	345	---	145	172	199	464	361		
7	412	232	343	345	---	166	190	182	421	374		
8	400	241	270	347	---	195	187	197	391	343		
9	361	247	256	350	---	168	196	215	444	197		
10	178	257	256	---	---	174	200	210	414	216		
11	160	262	247	---	---	158	219	187	364	252		
12	209	265	240	---	---	144	226	183	396	283		
13	225	270	---	---	---	178	224	199	390	292		
14	242	275	237	---	---	136	241	205	399	315		
15	258	277	252	376	302	144	252	219	399	320		
16	265	285	263	---	---	177	256	224	406	336		
17	281	287	265	---	---	202	264	238	402	352		
18	273	299	273	---	---	185	272	251	406	353		
19	284	310	273	---	---	205	280	270	416	359		
20	298	312	276	---	---	207	277	279	415	348		
21	183	313	---	---	---	214	288	298	396	358		
22	151	311	249	---	---	214	325	317	406	345		
23	170	314	244	---	---	197	330	312	400	374		
24	191	318	253	---	---	208	283	309	404	386		
25	192	326	264	---	200	218	187	322	417	398		
26	182	323	259	---	151	222	193	343	416	399		
27	182	325	---	---	187	224	208	351	388	415		
28	198	316	279	---	177	198	235	372	311	---		
29	212	312	288	---	---	157	246	380	312	---		
30	222	323	302	---	---	126	259	393	331	---		
31	226	---	---	---	---	137	---	401	---	---		
MEAN	271	274	282	340	203	180	227	270	401	335		

TEMPERATURE (DEG. C OF WATER), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ONCE DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	5.5	2.5	---	---	1.0	8.0	11.0	20.0	23.5	24.0	24.0
2	14.0	4.0	2.5	1.5	---	0.5	7.5	15.0	19.5	22.5	22.5	24.5
3	14.5	5.0	1.5	2.0	---	1.0	8.0	13.0	18.0	20.0	23.0	24.0
4	15.5	6.0	2.0	2.5	---	2.5	7.5	12.5	17.5	21.5	23.5	22.0
5	15.0	5.5	3.0	1.5	---	2.0	7.5	13.5	19.5	22.5	24.0	22.5
6	16.0	5.5	2.5	1.0	---	3.0	6.0	14.0	19.0	23.0	24.0	23.0
7	16.5	6.0	2.5	---	---	1.5	5.0	14.5	16.5	23.0	23.5	21.0
8	15.5	4.5	1.5	1.5	---	2.0	5.0	13.5	15.0	23.5	23.0	20.0
9	14.0	5.5	1.5	1.5	---	3.0	4.0	9.5	15.5	21.5	23.5	20.5
10	10.0	5.0	2.5	1.0	---	4.0	5.0	8.5	15.0	22.0	23.0	21.5
11	8.5	5.0	3.0	---	---	5.5	7.0	9.5	14.0	22.5	24.0	19.5
12	8.0	4.0	3.0	---	---	5.5	11.5	10.5	17.5	22.0	24.5	17.5
13	9.5	4.5	---	---	---	8.0	13.0	13.5	17.5	23.0	23.5	18.0
14	10.0	4.0	0.5	---	---	7.0	14.0	12.5	18.5	22.5	24.0	19.0
15	9.5	4.0	2.0	1.5	2.0	6.0	12.0	12.0	19.0	23.5	22.0	16.0
16	10.5	4.0	3.0	---	---	7.0	11.0	13.0	18.5	25.0	22.0	17.0
17	10.0	4.5	2.5	---	---	6.0	10.5	15.0	21.0	25.5	23.5	17.0
18	8.5	5.5	3.0	---	---	4.5	11.0	18.0	21.5	25.0	21.5	17.0
19	8.0	6.0	3.0	---	---	4.5	12.0	19.0	22.0	26.0	19.5	18.0
20	7.0	5.5	4.0	---	---	4.0	14.0	19.0	21.5	25.5	19.0	18.0
21	8.5	6.0	2.5	---	---	5.0	14.5	19.5	21.0	25.5	18.5	18.0
22	7.0	5.5	2.5	---	---	4.0	16.0	21.0	19.0	25.0	20.0	17.0
23	6.5	4.5	3.0	---	---	3.5	16.5	21.0	18.5	22.5	19.5	---
24	7.0	4.5	1.5	---	---	3.5	14.5	23.0	20.0	23.0	20.0	---
25	7.0	4.0	2.0	---	3.0	4.0	12.0	22.5	22.0	25.0	17.5	---
26	7.0	5.0	2.0	---	1.0	5.5	10.0	22.0	22.0	22.0	17.5	---
27	6.0	6.0	---	---	2.0	6.5	10.0	20.0	21.5	20.0	19.0	---
28	5.0	7.0	2.0	---	2.0	5.0	12.0	20.5	22.5	20.0	21.0	---
29	4.0	5.0	1.5	---	---	6.0	9.5	19.5	23.0	21.0	23.0	---
30	5.0	4.0	1.0	---	---	8.0	9.0	19.5	21.5	22.0	24.0	---
31	6.5	---	---	---	---	11.0	---	19.0	---	23.0	23.5	---
MEAN	10.0	5.0	2.5	1.5	2.0	4.5	10.0	16.0	19.5	23.0	22.0	20.0

SUSQUEHANNA RIVER BASIN

261

01531000 CHEMUNG RIVER AT CHEMUNG, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	472	2	2.5	6490	76	1360	916	5	12
2	472	2	2.5	4380	38	449	813	4	8.8
3	443	2	2.4	3500	15	142	1060	5	14
4	433	3	3.5	3190	13	112	1010	5	14
5	417	4	4.5	3010	14	114	1010	7	19
6	409	3	3.3	2700	11	80	1120	7	21
7	402	4	4.3	2400	9	58	1480	12	48
8	394	3	3.2	2220	8	48	2390	30	194
9	5470	526	15200	2010	6	33	2150	26	151
10	19000	711	40100	1860	6	30	1900	15	77
11	6810	165	3030	1840	6	30	1800	14	68
12	3660	58	573	1780	5	24	2100	13	74
13	2700	39	284	1590	4	17	1800	15	73
14	2300	26	161	1530	5	21	1600	17	73
15	2310	21	131	1450	4	16	1700	13	60
16	2120	20	114	1370	4	15	1600	7	30
17	1700	12	55	1270	5	17	1400	5	19
18	1470	8	32	1260	3	10	1300	4	14
19	1330	6	22	1250	1	3.4	1200	5	16
20	1260	6	20	1230	1	3.3	1200	5	16
21	13200	539	22600	1210	1	3.3	1600	30	130
22	10500	270	7650	1180	1	3.2	1500	45	182
23	5470	74	1090	1120	1	3.0	1300	35	123
24	4190	34	385	1110	1	3.0	1200	17	55
25	5820	43	676	1090	1	2.9	1100	8	24
26	6370	51	877	1090	4	12	1000	9	24
27	4660	30	377	1080	8	23	960	6	16
28	3560	16	154	1150	7	22	980	4	11
29	3070	12	99	1400	6	23	940	3	7.6
30	2760	10	75	1290	6	21	880	5	12
31	3990	47	598	---	---	---	800	4	8.6
TOTAL	117162	---	94329.2	58050	---	2699.1	41809	---	1595.0
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	800	4	8.6	400	2	2.2	7550	185	3770
2	800	3	6.5	390	2	2.1	4610	58	722
3	760	3	6.2	410	1	1.1	3860	34	354
4	760	2	4.1	400	1	1.1	4540	70	858
5	740	1	2.0	400	1	1.1	14600	737	30300
6	740	1	2.0	420	2	2.3	9980	180	4850
7	700	2	3.8	420	2	2.3	6090	72	1180
8	660	1	1.8	420	1	1.1	4640	28	351
9	640	2	3.5	440	2	2.4	4220	25	285
10	560	1	1.5	520	2	2.8	5870	65	1030
11	560	1	1.5	620	2	3.3	7480	120	2420
12	560	1	1.5	780	2	4.2	7030	89	1690
13	540	1	1.5	860	2	4.6	15700	713	44900
14	540	1	1.5	1100	10	30	21400	688	46600
15	540	1	1.5	1300	18	63	11300	140	4270
16	540	2	2.9	920	9	22	7780	89	1870
17	540	2	2.9	780	7	15	5950	62	996
18	540	1	1.5	680	5	9.2	4930	36	479
19	540	1	1.5	640	4	6.9	4540	22	270
20	540	1	1.5	600	3	4.9	4150	18	202
21	520	2	2.8	560	3	4.5	3750	17	172
22	490	2	2.6	700	2	3.8	4520	25	305
23	470	2	2.5	1000	2	5.4	6400	44	760
24	440	2	2.4	3000	25	202	5470	37	546
25	430	2	2.3	16000	800	44200	4190	30	339
26	420	2	2.3	9690	235	6150	3840	20	207
27	410	1	1.1	8280	140	3130	4080	20	220
28	400	1	1.1	12700	400	13900	7420	95	2180
29	410	1	1.1	---	---	---	17800	458	22500
30	410	1	1.1	---	---	---	14300	175	6760
31	410	1	1.1	---	---	---	11800	133	4240
TOTAL	17410	---	78.2	64430	---	67777.3	239790	---	185626

SUSQUEHANNA RIVER BASIN

01531000 CHEMUNG RIVER AT CHEMUNG, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	9760	110	2900	2150	9	52	714	7	13
2	6940	49	918	1950	8	42	690	8	15
3	11000	117	3470	1810	7	34	656	8	14
4	8800	137	3260	1790	8	39	622	6	10
5	6910	43	802	4430	69	1010	578	5	7.8
6	6290	30	509	6180	68	1130	566	6	9.2
7	5000	23	310	4310	35	407	600	8	13
8	4310	18	209	3210	15	130	644	9	16
9	3730	15	151	2940	9	71	656	10	18
10	3230	16	140	4220	23	262	690	12	22
11	2990	20	161	5440	34	499	916	13	32
12	2740	21	155	4010	20	217	852	12	28
13	2440	20	132	3250	16	140	679	12	22
14	2190	16	95	2760	12	89	600	11	18
15	2000	13	70	2390	9	58	545	9	13
16	1830	13	64	2140	7	40	556	8	12
17	1680	11	50	1930	8	42	589	7	11
18	1590	9	39	1740	9	42	534	6	8.7
19	1510	8	33	1650	8	36	633	6	10
20	1440	7	27	1730	8	37	763	7	14
21	1410	6	23	1560	7	29	714	8	15
22	1300	7	25	1430	5	19	600	8	13
23	1330	10	36	1340	5	18	523	11	16
24	5360	76	1700	1260	6	20	462	9	11
25	8110	122	2940	1220	7	23	453	9	11
26	5150	34	473	1500	11	45	775	40	84
27	4010	17	184	1230	10	33	1530	70	289
28	3330	15	135	1050	8	23	1020	120	330
29	2820	11	84	916	7	17	826	55	123
30	2440	9	59	826	5	11	1260	35	119
31	---	---	---	763	5	10	---	---	---
TOTAL	121640	---	19154	73125	---	4625	21246	---	1317.7
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	1110	33	99	639	13	22	675	5	9.1
2	800	27	58	488	14	18	572	5	7.7
3	633	18	31	608	17	28	594	5	8.0
4	545	15	22	488	16	21	659	7	12
5	513	11	15	431	15	17	557	6	9.0
6	513	10	14	610	20	33	485	6	7.9
7	1090	65	191	2110	94	662	432	9	10
8	4880	363	6110	2810	183	1360	411	9	10
9	4080	708	8300	1840	155	770	393	9	9.5
10	2190	180	1060	1200	95	308	369	10	10
11	1570	85	360	936	55	139	343	10	9.3
12	1250	55	186	830	40	90	324	10	8.7
13	1170	43	136	755	32	65	323	8	7.0
14	1010	29	79	835	32	72	1340	140	507
15	839	20	45	1060	55	157	6070	622	10000
16	738	18	36	1310	72	255	2760	170	1270
17	788	16	34	906	26	64	5600	185	2860
18	865	15	35	1140	30	92	4140	130	1450
19	877	14	33	1080	33	96	6810	180	3310
20	738	14	28	811	25	55	8790	380	9020
21	644	12	21	682	22	41	11000	345	10200
22	499	11	15	675	19	35	6170	130	2170
23	466	11	14	860	24	56	4080	60	661
24	414	10	11	1050	14	40	3200	30	259
25	412	11	12	985	13	35	20900	750	42300
26	518	15	21	1090	16	47	20400	525	28900
27	788	16	34	825	11	25	15000	275	11100
28	573	15	23	677	5	9.1	7940	95	2040
29	443	14	17	588	4	6.4	5410	55	803
30	411	16	18	551	4	6.0	3990	30	323
31	454	15	18	525	4	5.7	---	---	---
TOTAL	31821	---	17076	29395	---	4630.2	139737	---	127291.2

SUSQUEHANNA RIVER BASIN

263

LAKES AND RESERVOIRS IN SUSQUEHANNA RIVER BASIN

- 01496450 CANADARAGO LAKE AT SCHUYLER LAKE, NY (see station for daily mean elevation).
- 01499500 EAST SIDNEY LAKE AT EAST SIDNEY, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).
- 01511000 WHITNEY POINT LAKE AT WHITNEY POINT, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).
- 01521000 ARKPORT RESERVOIR NEAR ARKPORT, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).
- 01523000 ALMOND LAKE NEAR ALMOND, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

DIVERSION OF WATER AFFECTING THE SUSQUEHANNA RIVER BASIN

- 01528700 Diversion from Waneta Lake to Keuka Lake at Keuka, NY (see station for daily discharge).

OHIO RIVER MAIN STEM

03011020 ALLEGHENY RIVER AT SALAMANCA, NY

LOCATION.--Lat 42°09'23", long 78°42'56", Cattaraugus County, Hydrologic Unit 05010001, on left bank 230 ft (70 m) upstream from Main Street bridge in Salamanca, 1.3 mi (2.1 km) downstream from Great Valley Creek, and 1.6 mi (2.6 km) upstream from Little Valley Creek.

DRAINAGE AREA.--1,608 mi² (4,165 km²).

PERIOD OF RECORD.--September 1903 to current year. Monthly discharge only for some periods, published in WSP 1305. Prior to October 1964, published as "at Red House."

REVISED RECORDS.--WSP 1385: 1907, 1909-12, 1913(M), 1914-15, 1916-17(M), 1925, 1927. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,358.00 ft (413.918 m) above mean sea level (Corps of Engineers bench mark). Prior to Sept. 3, 1917, nonrecording gage and Sept. 4, 1917 to Sept. 30, 1964, water-stage recorder at site 7.5 mi (12.1 km) downstream at different datum. Oct. 1, 1964 to Sept. 30, 1967, at present site at datum 0.04 ft (0.012 m) lower.

REMARKS.--Records good except those for periods of no gage-height record and those for winter periods, which are poor.

AVERAGE DISCHARGE.--74 years, 2,785 ft³/s (78.87 m³/s), 23.52 in/yr (597 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 73,000 ft³/s (2,070 m³/s) June 23, 1972, gage height, 24.01 ft (7.318 m), from floodmarks; minimum daily, 79 ft³/s (2.24 m³/s) Sept. 10, 11, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 17,000 ft³/s (481 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 26	1400	17,500 496	10.00 3.048	Sept. 20	1500	19,800 561	10.78 3.286
Mar. 13	2100	20,500 581	11.00 3.353	Sept. 25	2000	19,900 564	10.81 3.295
July 8	0500	*20,900 592	*11.13 3.392				

Minimum discharge, 365 ft³/s (10.3 m³/s) June 17, gage height, 3.15 ft (0.960 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	817	3100	1700	1000	580	10500	10600	2350	598	1590	6460	1640
2	704	3000	1500	930	580	7430	9520	2120	576	1240	5470	1870
3	609	2800	1400	960	580	5550	11300	1990	521	1010	2940	2090
4	543	2700	1400	940	560	5500	9990	1870	460	868	2120	1740
5	480	2600	1400	920	560	11200	9320	3760	401	792	2730	1450
6	460	2300	1400	900	560	9840	8230	5100	430	804	9610	1340
7	440	2100	1500	880	540	8170	6770	4160	717	6660	12400	1220
8	500	1900	1400	860	540	6430	5660	2880	644	18500	9490	1100
9	2780	1800	1300	820	560	5770	4740	2590	656	11400	5770	987
10	8920	1700	1300	800	580	7470	4160	2410	1370	5900	4180	908
11	7210	1800	1500	790	640	9570	3830	2120	1140	3710	3350	830
12	5070	1600	1600	760	800	10900	3400	1860	754	4420	4690	754
13	3600	1400	1500	740	1000	17700	2990	1690	554	5440	4540	754
14	3690	1300	1500	720	1300	18700	2710	1580	480	4570	3240	10200
15	3850	1200	1400	700	1600	16000	2470	1440	450	3350	3640	13600
16	3050	1200	1400	700	1400	13400	2240	1280	410	2650	3140	8660
17	2510	1100	1400	700	1300	9930	2050	1180	383	2450	3580	8030
18	2310	1100	1400	680	1200	7070	1870	1100	565	2710	3490	7430
19	1800	2220	1300	680	1100	5580	1770	1030	1630	2260	2570	14800
20	1700	1560	1600	680	1100	4720	1710	974	1250	2050	2110	18300
21	4600	1610	1600	680	1000	4130	1610	908	843	1740	1810	17400
22	4400	1740	1500	650	1100	4370	1480	843	620	1390	2630	12200
23	3800	1630	1500	650	1900	5280	2840	792	500	1170	3050	8140
24	3700	1920	1400	640	3000	4870	10000	895	420	1000	2940	6380
25	4800	2330	1400	640	10000	4080	7970	1170	680	1210	2750	15400
26	4400	1940	1300	620	12400	3780	5660	1040	2450	1870	2180	18500
27	3700	2140	1200	620	10000	3920	4640	855	2070	1360	1790	16500
28	3200	2470	1200	620	13100	5900	3850	741	1330	987	1550	13600
29	3100	2430	1100	600	---	9990	3220	692	1300	855	1370	10700
30	3000	1960	1100	600	---	10000	2710	632	1960	3510	2450	7800
31	3400	---	1000	600	---	11000	---	576	---	3240	2310	---
TOTAL	93143	58650	43200	23140	69580	259550	149310	52628	26162	100706	120350	224323
MEAN	3005	1955	1394	746	2485	8373	4977	1698	872	3249	3882	7477
MAX	8920	3100	1700	1000	13100	18700	11300	5100	2450	18500	12400	18500
MIN	440	1100	1000	600	540	3780	1480	576	383	792	1370	754
CFSM	1.87	1.22	.87	.46	1.55	5.21	3.10	1.06	.54	2.02	2.41	4.65
IN.	2.15	1.36	1.00	.54	1.61	6.00	3.45	1.22	.61	2.33	2.78	5.19
CAL YR 1976 TOTAL	1070884		MEAN 2926	MAX 31100	MIN 249	CFSM 1.82	IN 24.77					
WTR YR 1977 TOTAL	1220742		MEAN 3344	MAX 18700	MIN 383	CFSM 2.08	IN 28.24					

Note.--No gage-height record October 19 to November 18, December 2 to January 26.

ALLEGHENY RIVER BASIN

265

03012834 CONEWANGO CREEK BELOW SOUTH DAYTON, NY

LOCATION.--Lat 42°20'12", long 79°02'28", Cattaraugus County, Hydrologic Unit 05010002, on left bank 75 ft (23 m) downstream from bridge on Kysor Road, 1.5 mi (2.4 km) downstream from Slab City Creek, 1.5 mi (2.4 km) upstream from West Branch, and 1.7 mi (2.7 km) south of South Dayton.

DRAINAGE AREA.--63.3 mi² (164 km²).

PERIOD OF RECORD.--August 1975 to September 1977 (discontinued). No winter records.

GAGE.--Water-stage recorder. Altitude of gage is 1,280 ft (390.1 m), from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,540 ft³/s (43.6 m³/s) Sept. 20, 1977, gage height, 13.37 ft (4.075 m); minimum daily discharge recorded, 8.7 ft³/s (0.25 m³/s) Sept. 9, 10, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,540 ft³/s (43.6 m³/s) Sept. 20, gage height, 13.37 ft (4.075 m); minimum discharge recorded, 9.4 ft³/s (0.27 m³/s) June 25, gage height, 3.17 ft (0.966 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	600				1020	201	82	19	17	274	65
2	37	620				830	176	72	20	15	208	98
3	32	500				454	296	67	20	12	143	130
4	28	300				391	294	68	19	12	77	102
5	25	200				830	194	248	15	12	59	73
6	22	150				1300	154	387	17	17	103	64
7	24	130				792	129	328	33	157	144	58
8	27	120				391	132	208	24	483	170	51
9	51	110				362	120	117	22	591	161	45
10	262	110				527	111	96	44	453	144	40
11	305	112				489	100	82	33	153	225	37
12	160	117				667	86	70	22	245	292	32
13	90	113				805	75	60	16	206	292	35
14	79	112				1120	67	57	15	153	266	233
15	91	107				585	59	50	15	93	280	378
16	72	101				383	53	43	14	68	202	221
17	56	93				250	49	38	12	54	209	377
18	52	96				176	45	35	14	44	291	465
19	50	126				155	44	32	27	40	232	881
20	46	142				145	41	29	19	45	141	1490
21	210	136				157	38	26	14	65	104	1220
22	380	122				241	37	25	12	44	299	905
23	480	103				266	330	22	11	33	405	641
24	600	96				255	790	20	10	28	567	348
25	760	100				177	828	28	25	38	609	407
26	820	187				153	493	23	90	95	440	599
27	800	350				159	290	22	57	70	185	751
28	500	600				260	163	17	29	40	108	693
29	290	700				405	119	14	22	32	82	477
30	250	241				335	96	14	21	238	79	264
31	400	---				233	---	13	---	371	72	---
TOTAL	7044	6594				14513	5610	2393	711	3964	6863	11180
MEAN	227	220				468	187	77.2	23.7	128	221	373
MAX	820	700				1300	828	387	90	591	609	1490
MIN	22	93				145	37	13	10	12	59	32
CFSM	3.59	3.48				7.39	2.95	1.22	.37	2.02	3.49	5.89
IN.	4.14	3.88				8.53	3.30	1.41	.42	2.33	4.03	6.57

ALLEGHENY RIVER BASIN

03013000 CONEWANGO CREEK AT WATERBORO, NY

LOCATION.--Lat 42°10'15", long 79°04'10", Chautauqua County, Hydrologic Unit 05010002, on right bank 300 ft (91 m) downstream from bridge on State Highway 394 at Waterboro, 0.2 mi (0.3 km) downstream from Davis Brook, 0.4 mi (0.6 km) upstream from Harris Brook, and 1.9 mi (3.1 km) northeast of Kennedy.

DRAINAGE AREA.--290 mi² (751 km²).

PERIOD OF RECORD.--September 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,255.30 ft (382.615 m) above mean sea level (Corps of Engineers bench mark). Prior to Nov. 7, 1939, nonrecording gages at site 1,300 ft (396 m) upstream at various datums. Nov. 7, 1939 to Nov. 4, 1940, nonrecording gage at site 1,100 ft (335 m) upstream at datum 0.79 ft (0.241 m) higher, and Nov. 5, 1940 to May 28, 1948, nonrecording gage at site 700 ft (213 m) downstream at present datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--39 years, 518 ft³/s (14.67 m³/s), 24.26 in/yr (616 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,600 ft³/s (244 m³/s) Apr. 7, 1947; maximum gage height, 11.58 ft (3.530 m) Mar. 8, 1956; minimum discharge observed, 22 ft³/s (0.62 m³/s) Aug. 18, 1940, Sept. 27, 29, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,300 ft³/s (65.1 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	2400	3,130 88.6	9.43 2.874	Sept. 22	2400	*3,530 100	*9.81 2.990
Apr. 26	1900	2,320 65.7	8.21 2.502	Sept. 25	0100	3,300 93.5	9.60 2.926

Minimum discharge, 74 ft³/s (2.10 m³/s) June 25, gage height, 3.30 ft (1.006 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	1050	1010	260	150	1990	1140	734	118	106	888	301
2	173	1040	869	240	150	1860	1010	620	121	95	783	500
3	148	954	666	250	150	1640	1230	431	110	85	560	595
4	132	806	521	250	150	1540	1210	354	106	80	334	505
5	120	607	441	240	150	1800	1030	800	97	80	515	379
6	113	471	409	240	150	1880	877	904	103	82	1340	327
7	113	416	517	230	140	1830	794	965	138	323	1340	276
8	118	409	624	220	140	1670	728	800	132	932	1250	239
9	215	387	553	220	140	1660	630	645	132	992	1090	211
10	802	384	545	210	150	1710	555	480	208	904	998	192
11	821	445	636	190	160	1870	500	379	165	585	992	173
12	666	475	619	190	180	2040	431	327	127	1040	1150	155
13	438	467	440	190	259	2480	375	279	110	1100	1100	173
14	359	452	410	200	323	2970	334	259	103	921	1000	680
15	401	434	380	200	334	3090	297	233	114	680	904	926
16	332	405	370	200	320	2860	269	208	99	396	756	943
17	261	373	352	200	300	2460	245	189	99	262	987	1210
18	237	366	332	190	290	2020	226	173	112	203	1050	1380
19	240	438	312	180	300	1560	226	165	141	208	871	1850
20	226	509	521	180	310	1180	223	153	121	346	675	2310
21	430	498	948	170	290	976	211	143	101	279	475	2900
22	619	467	780	170	286	1020	206	160	89	194	1010	3420
23	760	427	700	170	319	1940	970	141	82	148	1110	3480
24	974	401	620	170	767	1000	1810	129	78	127	1240	3150
25	1290	405	580	170	1510	877	2100	132	99	155	1340	3150
26	1470	611	515	170	1730	816	2290	123	319	269	1350	3130
27	1480	1220	440	160	1870	784	2230	114	265	239	1100	3100
28	1270	1450	400	160	2010	970	1860	110	165	168	772	3000
29	995	1560	370	160	---	1260	1260	103	132	132	555	2800
30	859	1370	340	150	---	1360	860	99	118	761	475	2600
31	889	---	290	150	---	1290	---	95	---	849	362	---
TOTAL	17161	19297	16510	6090	13028	51503	26127	10447	3904	12741	28372	44055
MEAN	554	643	533	196	465	1661	871	337	130	411	915	1469
MAX	1480	1560	1010	260	2010	3090	2290	965	319	1100	1350	3480
MIN	113	366	290	150	140	784	206	95	78	80	334	155
CFSM	1.91	2.22	1.84	.68	1.60	5.73	3.00	1.16	.45	1.42	3.16	5.07
IN.	2.20	2.48	2.12	.78	1.67	6.61	3.35	1.34	.50	1.63	3.64	5.65

CAL YR 1976	TOTAL	231639	MEAN 633	MAX 7140	MIN 60	CFSM 2.18	IN 29.71
WTR YR 1977	TOTAL	249235	MEAN 683	MAX 3480	MIN 78	CFSM 2.36	IN 31.97

ALLEGHENY RIVER BASIN

267

03013946 CHAUTAUQUA LAKE AT BEMUS POINT, NY

LOCATION.--Lat 42°09'23", long 79°23'39", Chautauqua County, Hydrologic Unit 05010002, 6 ft (1.8 m) east of lake shore, 30 ft (9.1 m) south of the intersection of Pauline Avenue and Lakeside Avenue, and 950 ft (290 m) south-east of the ferry landing, at Bemus Point.

DRAINAGE AREA.--189 mi² (490 km²).

PERIOD OF RECORD.--October 1972 to September 1973; November 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Nov. 1974 at site 950 ft (290 m) northwest at same datum.

REMARKS.--Lake regulated for flood control by Warner Dam. Area of water surface, 20.98 mi² (54.34 km²).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,311.23 ft (399.663 m) Mar. 5, 1976; minimum, 1,306.59 ft (398.249 m) Feb. 11, 12, 22, 23, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,309.82 ft (399.233 m) Sept. 26, 27; minimum, 1,306.59 ft (398.249 m) Feb. 11, 12, 22, 23.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1307.70	1308.30	1307.89	1307.41	1306.69	1307.44	1308.54	1308.26	1308.15	1308.08	1308.42	1308.28
2	1307.67	1308.25	1307.90	1307.36	1306.67	1307.44	1308.52	1308.24	1308.14	1308.06	1308.40	1308.37
3	1307.64	1308.19	1307.89	1307.32	1306.68	1307.42	1308.56	1308.23	1308.12	1308.03	1308.37	1308.40
4	1307.60	1308.13	1307.86	1307.28	1306.70	1307.47	1308.52	1308.25	1308.10	1308.02	1308.33	1308.36
5	1307.56	1308.07	1307.86	1307.23	1306.70	1307.75	1308.46	1308.36	1308.09	1308.01	1308.37	1308.31
6	1307.52	1308.01	1307.85	1307.18	1306.70	1307.83	1308.38	1308.34	1308.11	1308.00	1308.68	1308.26
7	1307.52	1307.96	1307.89	1307.15	1306.68	1307.83	1308.31	1308.31	1308.12	1308.06	1308.74	1308.25
8	1307.51	1307.90	1307.92	1307.11	1306.66	1307.80	1308.23	1308.23	1308.09	1308.07	1308.67	1308.24
9	1307.57	1307.83	1307.94	1307.09	1306.65	1307.83	1308.14	1308.21	1308.12	1308.06	1308.57	1308.23
10	1307.77	1307.80	1307.93	1307.07	1306.63	1308.04	1308.06	1308.19	1308.15	1308.05	1308.53	1308.22
11	1307.80	1307.80	1307.93	1307.04	1306.62	1308.23	1307.98	1308.17	1308.14	1308.07	1308.48	1308.20
12	1307.78	1307.76	1307.94	1307.01	1306.60	1308.38	1307.92	1308.17	1308.13	1308.38	1308.46	1308.17
13	1307.75	1307.73	1307.94	1306.98	1306.62	1308.90	1307.84	1308.18	1308.13	1308.51	1308.38	1308.20
14	1307.74	1307.67	1307.91	1306.96	1306.65	1309.10	1307.77	1308.18	1308.12	1308.47	1308.31	1308.39
15	1307.73	1307.63	1307.87	1306.93	1306.67	1309.08	1307.71	1308.18	1308.12	1308.43	1308.29	1308.39
16	1307.70	1307.59	1307.83	1306.92	1306.67	1309.05	1307.70	1308.18	1308.11	1308.40	1308.27	1308.40
17	1307.68	1307.54	1307.80	1306.90	1306.67	1308.97	1307.70	1308.18	1308.11	1308.38	1308.32	1308.54
18	1307.70	1307.52	1307.77	1306.88	1306.66	1308.93	1307.70	1308.18	1308.14	1308.35	1308.33	1308.63
19	1307.70	1307.52	1307.72	1306.86	1306.65	1308.86	1307.71	1308.18	1308.15	1308.38	1308.30	1309.01
20	1307.71	1307.52	1307.74	1306.84	1306.64	1308.80	1307.72	1308.18	1308.14	1308.43	1308.26	1309.41
21	1307.83	1307.50	1307.85	1306.82	1306.62	1308.73	1307.74	1308.17	1308.13	1308.39	1308.27	1309.50
22	1307.94	1307.49	1307.84	1306.80	1306.60	1308.73	1307.75	1308.16	1308.11	1308.34	1308.54	1309.46
23	1307.98	1307.48	1307.80	1306.77	1306.60	1308.73	1308.00	1308.16	1308.10	1308.28	1308.55	1309.35
24	1308.11	1307.47	1307.76	1306.75	1306.67	1308.68	1308.45	1308.16	1308.08	1308.26	1308.64	1309.25
25	1308.34	1307.44	1307.71	1306.74	1306.96	1308.60	1308.49	1308.19	1308.11	1308.28	1308.61	1309.55
26	1308.38	1307.49	1307.67	1306.73	1307.13	1308.52	1308.45	1308.17	1308.13	1308.27	1308.51	1309.71
27	1308.35	1307.80	1307.64	1306.72	1307.23	1308.46	1308.39	1308.15	1308.12	1308.24	1308.40	1309.77
28	1308.30	1307.91	1307.59	1306.72	1307.38	1308.52	1308.31	1308.14	1308.11	1308.22	1308.31	1309.64
29	1308.24	1307.93	1307.55	1306.72	---	1308.64	1308.27	1308.13	1308.10	1308.21	1308.26	1309.50
30	1308.19	1307.91	1307.49	1306.71	---	1308.62	1308.27	1308.11	1308.09	1308.34	1308.28	1309.36
31	1308.24	---	1307.45	1306.69	---	1308.58	---	1308.10	---	1308.35	1308.27	---
MEAN	1307.85	1307.77	1307.80	1306.96	1306.73	1308.39	1308.12	1308.19	1308.12	1308.24	1308.42	1308.78
MAX	1308.38	1308.30	1307.94	1307.41	1307.38	1309.10	1308.56	1308.36	1308.15	1308.51	1308.74	1309.77
MIN	1307.51	1307.44	1307.45	1306.69	1306.60	1307.42	1307.70	1308.10	1308.08	1308.00	1308.26	1308.17
CAL YR 1976	MEAN	1308.21	MAX	1311.16	MIN	1307.44						
WTR YR 1977	MEAN	1307.95	MAX	1309.77	MIN	1306.60						

03014500 CHADAKOIN RIVER AT FALCONER, NY

DRAINAGE AREA.--194 mi² (502 km²).

PERIOD OF RECORD.--October 1934 to current year.

REVISID RECORDS.--WSP 803: 1936(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,256.41 ft (382.954 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Chautauqua Lake. Diurnal fluctuation caused by mills upstream from station. Monthly figures for 1951-66 water years adjusted for regulation.

AVERAGE DISCHARGE.--42 years (1935-77), 344 ft³/s (9.742 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,070 ft³/s (58.6 m³/s) Mar. 5, 1976, gage height, 4.67 ft (1.423 m); minimum, 2.7 ft³/s (0.076 m³/s) Nov. 20, 21, 1960, gage height, 0.15 ft (0.046 m); minimum daily, 3.0 ft³/s (0.085 m³/s) Nov. 20, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,890 ft³/s (53.5 m³/s) Sept. 26, gage height, 4.41 ft (1.344 m); minimum, 22 ft³/s (0.62 m³/s) July 29, gage height, 0.46 ft (0.140 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	277	774	376	537	208	589	944	228	67	62	201	78
2	276	759	375	523	207	582	915	231	49	58	273	108
3	276	731	360	512	207	573	1010	213	46	57	275	231
4	273	544	354	505	208	608	874	266	41	58	274	406
5	272	565	350	492	208	675	927	728	38	146	306	409
6	236	620	326	478	208	702	931	465	71	78	735	289
7	100	647	314	473	209	703	848	652	72	69	953	55
8	103	679	326	337	206	651	872	431	69	56	932	54
9	101	598	328	430	213	701	795	144	82	55	907	54
10	139	531	350	435	260	770	749	99	68	55	886	53
11	255	550	386	403	300	832	742	164	61	167	888	54
12	301	572	391	348	300	876	701	69	52	200	908	62
13	307	574	396	313	308	1100	685	63	46	588	854	73
14	313	561	411	306	286	1150	673	59	56	504	646	434
15	301	515	518	312	304	1150	369	57	56	305	222	603
16	250	478	537	309	290	1130	129	56	53	212	215	684
17	193	474	534	281	287	1100	94	57	65	211	263	895
18	194	328	521	260	287	1080	75	60	79	211	292	977
19	192	270	496	268	302	1080	74	60	60	221	290	1130
20	248	427	535	258	314	1050	73	60	58	267	197	1300
21	324	536	556	254	309	1020	74	88	54	299	76	1300
22	348	520	608	264	259	1040	74	68	37	299	620	1280
23	397	447	640	260	327	1050	440	65	56	181	796	1230
24	447	412	645	252	418	1070	867	72	55	55	861	1210
25	544	416	636	252	458	986	879	59	61	66	901	1380
26	543	463	621	236	490	939	880	81	54	59	884	1470
27	537	574	609	210	531	908	858	57	55	59	855	1450
28	538	623	601	210	571	932	694	35	129	58	740	1370
29	560	615	585	207	---	979	258	25	70	55	293	1280
30	666	452	555	208	---	976	168	23	63	64	91	1240
31	781	---	544	208	---	1020	---	41	---	59	97	---
TOTAL	10332	16255	14786	10361	8475	28022	17672	4776	1823	4834	16731	21159
MEAN	333	542	477	334	303	904	589	154	60.8	156	540	705
MAX	781	774	645	537	571	1150	1010	728	129	588	953	1470
MIN	100	270	314	207	206	573	73	23	37	55	76	55

CAL YR 1976	TOTAL	166423	MEAN	455	MAX	2020	MIN	47
WTR YR 1977	TOTAL	155226	MEAN	425	MAX	1470	MIN	23

ALLEGHENY RIVER BASIN

269

Lakes and reservoirs in Allegheny River basin

03012520 ALLEGHENY RESERVOIR.--Lat 41°50'17", long 79°00'15", Warren County, PA, Hydrologic Unit 05010001, in Allegheny National Forest, at control house at Kinzua Dam on Allegheny River, 3 mi (5 km) upstream from Hemlock Run, and 7 mi (11 km) east of Warren. DRAINAGE AREA, 2,180 mi² (5,646 km²). PERIOD OF RECORD, October 1965 to current year. Prior to October 1966 published as Allegheny River Reservoir. GAGE, water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by a concrete gravity dam with a gated spillway and with an earthfill section, rock-faced, at right side. Storage began during construction and reservoir acted as retention basin from October 1965 to December 1966. Dam became operational in January 1967. Reservoir first reached minimum pool elevation during period of construction. Capacity, 1,180,000 acre-ft (1,450 hm³) between elevations 1,205.0 ft or 367.28 m (invert of low level sluices) and 1,365.0 ft or 416.05 m (full pool). Dead storage is 128 acre-ft (158,000 m³). Minimum pool elevation, 1,240 ft or 378.0 m (capacity, 24,240 acre-ft or 29.9 hm³). Winter low-water pool elevation, 1,292 ft or 393.8 m (capacity, 239,780 acre-ft or 296 hm³). Summer low-water pool elevation, 1,328 ft or 404.8 m (capacity, 572,610 acre-ft or 706 hm³). Storage to summer pool normally occurs during period April to May. Depletion of low-water storage for augmenting flow in Allegheny River normally occurs during period July to December. Figures given herein represent total contents. Reservoir is used for flood control, low-flow augmentation and water-quality control of Allegheny River and downstream rivers, power generation, and recreation. Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 1,121,120 acre-ft (1,380 hm³) June 27, 1972 (elevation, 1,362.20 ft or 415.199 m); minimum (after first filling), 113,310 acre-ft (140 hm³) Jan. 26, 1968 (elevation 1,268.68 ft or 386.694 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 817,460 acre-ft (1,008 hm³) Sept. 29 (elevation, 1,345.60 ft or 410.139 m); minimum, 133,020 acre-ft (164 hm³) Feb. 23 (elevation, 1,273.03 ft or 388.020 m).

03013946 Chautauqua Lake at Bemus Point, NY (see station for daily mean elevations).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in ft ³ /s)
	03012520	Allegheny	Reservoir
Sept. 30	1,319.19	473,230	---
Oct. 31	1,308.59	369,450	-1,690
Nov. 30	1,304.90	337,040	- 545
Dec. 31	1,294.80	258,780	-1,270
CAL YR 1976	--	--	- 132
Jan. 31	1,281.89	178,320	-1,310
Feb. 28	1,293.63	250,730	+1,300
Mar. 31	1,319.63	477,900	+3,690
Apr. 30	1,331.07	610,610	+2,230
May 31	1,328.04	573,090	- 610
June 30	1,328.16	574,550	+ 24.5
July 31	1,327.22	563,260	- 184
Aug. 31	1,325.85	547,090	- 263
Sept. 30	1,345.42	814,560	+4,500
WTR YR 1977	--	--	+ 472

STREAMS TRIBUTARY TO LAKE ERIE

04213440 FRANKS CREEK NEAR WEST VALLEY, NY

LOCATION.--Lat 42°26'59", long 78°38'56", Cattaraugus County, Hydrologic Unit 04120102, on left bank near eastern perimeter of Nuclear Fuels Service, Inc. compound, 0.2 mi (0.3 km) upstream from unnamed tributary, 1.1 mi (1.8 km) upstream from mouth, and 3.5 mi (5.6 km) northwest of West Valley.

DRAINAGE AREA.--0.28 mi² (0.73 km²).

PERIOD OF RECORD.--December 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,340 ft (408 m), from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 38 ft³/s (1.08 m³/s) Feb. 24, 1977, gage height 3.99 ft (1.216 m), ice jam; minimum, no flow, many days.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15 ft³/s (0.42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 12	0515	-- --	†3.58 1.091	Apr. 23	2130	24 0.68	3.30 1.006
Feb. 24	2145	*†38 1.08	*†3.99 1.216	Aug. 23	2000	20 .57	3.09 .942
Feb. 27	1645	†24 .68	†3.34 1.018	Sept. 18	1900	24 .68	3.29 1.003
Mar. 4	2000	29 .82	3.53 1.076	Sept. 24	2330	29 .82	3.52 1.073
Mar. 13	0430	16 .45	2.91 .887				

† About.

‡ Ice jam.

Minimum discharge, no flow, many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	1.1	.40	.12	0	1.3	.90	.40	0	0	3.8	.30
2	.06	.58	.36	.11	0	1.3	.72	.33	0	0	.24	.81
3	.04	.44	.24	.10	0	1.3	1.5	.33	0	0	.08	.69
4	.03	.33	.22	.10	0	10	.94	1.9	0	0	.04	.14
5	.01	.27	.19	.10	0	6.4	.86	2.9	0	0	.10	.14
6	.01	.30	.19	.10	0	1.4	.80	.58	.01	.01	.58	.10
7	.04	.49	3.8	.10	0	.81	.56	.33	.01	1.0	3.3	.06
8	.12	.36	1.1	.10	0	1.4	.64	.30	0	6.0	.87	.03
9	4.3	.27	.30	.09	0	5.5	.46	.40	.04	.80	.36	.02
10	2.4	.93	.69	.09	.01	5.0	.46	.44	.04	.08	2.5	.01
11	.53	.63	1.9	.08	.03	2.7	.43	.40	0	.03	.49	.01
12	.30	.40	.36	.07	.06	3.5	.40	.27	0	.05	3.5	0
13	.24	.36	.24	.06	.08	6.5	.36	.19	0	1.5	.58	.81
14	1.3	.40	.24	.06	.10	1.8	.40	.19	0	.20	3.6	1.9
15	.53	.33	.19	.06	.09	1.1	.33	.17	0	.04	.69	.14
16	.27	.30	.17	.05	.08	.75	.30	.14	0	.01	.33	4.1
17	.22	.30	.19	.04	.07	.44	.27	.10	0	0	2.2	.99
18	.19	.49	.17	.03	.06	.36	.24	.08	.24	0	.44	6.5
19	.17	.69	.20	.03	.08	.40	.27	.06	.12	.17	.27	3.6
20	.36	.53	5.3	.03	.07	.44	.24	.03	0	.17	.33	5.1
21	4.3	.36	1.2	.02	.07	2.1	.19	.01	0	.04	.30	.44
22	1.9	.33	.36	.02	.07	2.4	.44	.01	0	.02	2.1	.12
23	1.9	.30	.24	.02	.30	1.7	14	0	0	0	3.6	.03
24	4.0	.33	.22	.02	21	.93	4.0	0	0	0	2.8	3.2
25	3.1	.33	.20	.02	25	.87	1.4	0	.01	1.4	.53	4.5
26	1.1	4.5	.18	.02	8.8	1.1	1.1	0	1.0	.10	.27	5.5
27	.69	2.0	.17	.02	11	1.3	.81	0	.05	.01	.17	1.2
28	.49	.81	.16	.02	6.7	2.3	.63	0	.02	0	.12	2.7
29	.40	.52	.15	.01	---	1.8	.53	0	.01	.27	.10	1.1
30	.33	.44	.14	.01	---	1.6	.49	0	0	2.0	.12	.77
31	3.3	---	.13	.01	---	1.5	---	0	---	.36	.06	---
TOTAL	32.73	19.42	19.60	1.71	73.67	70.50	34.67	9.56	1.55	14.26	34.47	45.01
MEAN	1.06	.65	.63	.055	2.63	2.27	1.16	.31	.052	.46	1.11	1.50
MAX	4.3	4.5	5.3	.12	25	10	14	2.9	1.0	6.0	3.8	6.5
MIN	.01	.27	.13	.01	0	.36	.19	0	0	0	.04	0
CFSM	3.77	2.31	2.24	.20	9.36	8.08	4.13	1.10	.19	1.64	3.95	5.34
IN.	4.32	2.56	2.59	.23	9.72	9.30	4.57	1.26	.20	1.88	4.55	5.94
CAL YR 1976	TOTAL	340.33	MEAN .93	MAX 11	MIN 0	CFSM 3.31	IN 44.89					
WTR YR 1977	TOTAL	357.15	MEAN .98	MAX 25	MIN 0	CFSM 3.49	IN 47.11					

STREAMS TRIBUTARY TO LAKE ERIE

271

04213500 CATTARAUGUS CREEK AT GOWANDA, NY

LOCATION.--Lat 42°27'50", long 78°56'10", Erie County, Hydrologic Unit 04120102, on right bank 380 ft (116 m) downstream from bridge on State Highways 39 and 62 at Gowanda, and 4.2 mi (6.8 km) downstream from South Branch. Water-quality sampling site at discharge station.

DRAINAGE AREA.--432 mi² (1,119 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1939 to current year.

REVISED RECORDS.--WSP 1912: Drainage area. WRD NY 1971: 1956(M). WRD NY 1974: 1940-42 (M, P).

GAGE.--Water-stage recorder. Datum of gage is 738.85 ft (225.201 m) above mean sea level. Prior to Oct. 1, 1969, at datum 0.11 ft (0.034 m) lower.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by several industrial plants upstream from station. Diurnal fluctuation at low and medium flow caused by industrial plants at Gowanda and by powerplant 20 mi (32 km) upstream from station.

AVERAGE DISCHARGE.--37 years (1940-77), 731 ft³/s (20.70 m³/s), 22.98 in/yr (584 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,600 ft³/s (980 m³/s) Mar. 7, 1956, gage height, 14.14 ft (4.310 m); minimum, about 6 ft³/s (0.17 m³/s) Aug. 21, 1941, result of regulation; minimum gage height, 0.90 ft (0.274 m) Oct. 26, 1951; minimum daily discharge, 52 ft³/s (1.47 m³/s) Sept. 13, 1945, Aug. 1, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,000 ft³/s (227 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 13	0930	11,700 331	8.52 2.597	Sept. 20	0830	*17,000 481	*10.15 3.094
Apr. 23	2330	16,700 473	10.07 3.069	Sept. 25	0330	9,970 282	7.90 2.408
July 8	0130	9,150 259	7.60 2.316	Sept. 26	1200	8,750 248	7.45 2.271
Sept. 18	2400	15,400 436	9.69 2.954				

Minimum discharge, 173 ft³/s (4.90 m³/s) June 24, 25, July 2, 3, gage height, 1.57 ft (0.479 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	257	2120	765	320	220	1740	1430	646	342	205	1250	514
2	232	1130	725	300	230	1210	1340	618	288	187	721	808
3	214	856	535	290	240	1040	2450	632	262	173	429	1010
4	200	694	480	320	230	1000	1390	681	241	187	320	645
5	188	586	440	300	220	3020	1160	3060	234	190	342	495
6	180	548	460	290	220	2040	1060	1900	292	473	1110	456
7	188	541	1060	280	210	1340	920	944	355	2820	1340	398
8	194	567	967	270	200	1080	944	730	258	3880	1460	342
9	1160	495	664	300	210	2020	793	716	284	1040	823	333
10	2240	573	686	270	200	4350	779	681	333	611	1800	312
11	906	664	1060	250	210	4270	737	590	266	424	1240	300
12	541	567	782	270	280	4460	667	524	234	501	2510	281
13	413	535	586	270	350	9210	611	494	221	1510	1260	413
14	679	522	469	270	440	4430	570	465	214	870	2320	2900
15	717	502	554	250	400	2760	524	423	199	462	1490	902
16	456	469	488	250	380	2310	489	398	196	351	771	2680
17	361	437	475	240	360	1640	460	378	196	312	3110	3280
18	336	469	450	230	340	1260	444	355	244	285	1410	5830
19	308	600	425	250	400	1060	438	351	338	424	793	6990
20	296	642	1450	270	370	987	423	324	231	501	686	12600
21	1750	560	1420	260	380	1070	402	312	214	312	552	4090
22	1760	522	694	250	350	1530	417	308	190	259	2100	2260
23	1500	488	694	230	430	1420	8930	288	181	224	1760	1490
24	2610	488	593	250	2000	1190	8520	296	178	212	3060	1930
25	4200	488	529	270	3900	896	2850	383	471	801	1490	6630
26	2160	2000	560	250	2310	864	1730	304	632	484	855	5770
27	1190	3660	482	230	2690	1010	1330	258	329	300	665	3390
28	873	1980	450	210	2740	2380	978	251	248	245	625	2330
29	717	1250	430	200	---	2820	816	241	244	231	539	1930
30	620	773	380	210	---	1980	723	234	231	1410	659	1390
31	2570	---	350	230	---	1980	---	231	---	532	495	---
TOTAL	30016	25726	20103	8090	20510	69867	44325	18016	8146	20416	37985	72699
MEAN	968	858	648	261	733	2254	1478	581	272	659	1225	2423
MAX	4200	3660	1450	320	3900	9210	8930	3060	632	3880	3110	12600
MIN	180	437	350	200	200	864	402	231	178	173	320	281
CFSM	2.24	1.99	1.50	.60	1.70	5.22	3.42	1.34	.63	1.53	2.84	5.61
IN.	2.58	2.22	1.73	.70	1.77	6.02	3.82	1.55	.70	1.76	3.27	6.26
CAL YR 1976	TOTAL	358346	MEAN	979	MAX	14100	MIN	137	CFSM	2.27	IN	30.86
WTR YR 1977	TOTAL	375899	MEAN	1030	MAX	12600	MIN	173	CFSM	2.38	IN	32.37

STREAMS TRIBUTARY TO LAKE ERIE

04213500 CATTARAUGUS CREEK AT GOWANDA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1972 to current year.

REMARKS.--Additional water-quality data available from New York State Department of Environmental Conservation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISSOLVED OXYGEN (CFS)	SPECIFIC CONDUCTANCE (MICRO- MHO/S)	pH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM 7UM-MF (COL./ 100 ML)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG)
JAN 18...	1200	350	440	6.7	6.0	4.6	14.2	97	<10	23	--	--
FEB 15...	1300	400	370	7.6	6.0	14	13.2	90	<10	897	57	8.0
MAR 15...	1400	2570	222	7.8	7.0	140	9.6	80	--	8110	--	--
APR 12...	1130	549	335	7.4	14.5	23	8.6	85	<10	56	--	--
MAY 25...	1300	475	385	7.4	22.5	16	8.0	93	9	470	31	9.0
JUN 29...	1300	258	395	7.3	23.0	3.0	8.5	100	11	360	--	--
JUL 26...	1300	449	330	7.9	21.0	9.0	8.7	98	15	3600	--	--
AUG 25...	1300	1400	260	7.4	15.0	80	9.2	92	25	770	--	--

DATE	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (PFSI- DUCE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)
JAN 18...	--	--	--	--	--	228	2	1.5	.31	.08	.39	1.9
FEB 15...	9.5	2.0	125	29	18	198	24	1.4	.10	.24	.34	1.7
MAR 15...	--	--	--	--	--	139	328	1.2	.05	.76	.81	2.0
APR 12...	--	--	--	--	--	184	37	1.3	.08	.22	.30	1.6
MAY 25...	11	2.0	150	33	16	242	38	1.4	.22	.38	.60	2.0
JUN 29...	--	--	--	--	--	265	1	--	--	--	--	--
JUL 26...	--	--	--	--	--	198	70	.71	.15	.48	.63	1.3
AUG 25...	--	--	110	20	6.3	157	116	.57	.04	.50	.54	1.1

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHOPHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)
JAN 18...	.01	--	0	1	20	0	170	<.5	5	10	2.9	0
FEB 15...	.03	--	0	0	<10	10	880	<.5	1	0	4.5	0
MAR 15...	.09	--	6	1	20	10	12000	<.5	13	40	6.8	1
APR 12...	.02	--	0	0	10	10	1500	<.5	5	20	1.7	0
MAY 25...	.02	--	1	0	20	2	1200	.0	8	10	6.1	1
JUN 29...	--	--	3	2	10	4	1300	.0	32	20	--	--
JUL 26...	.06	.00	1	0	20	7	3700	.0	26	40	12	3
AUG 25...	.13	.01	1	0	10	9	5000	.0	11	20	5.9	0

B Results based on colony count outside the acceptable range (non-ideal colony count).

04214020 CATTARAUGUS CREEK AT IRVING, NY

LOCATION.--Lat 42°34'12", long 79°06'45", at Chautauqua-Erie County line, Hydrologic Unit 04120102, at bridge on Buffalo Road in Irving, 0.4 mi (0.6 km) downstream from bridge on U.S. Highway 20 and State Highway 5, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--554 mi² (1,435 km²) at mouth.

PERIOD OF RECORD.--Water years 1972 to current year.

REMARKS.--Additional water-quality data available from New York State Department of Environmental Conservation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	DIS- SOLVED OXYGEN (MG/L)	PFR- CENT SATUR- ATION	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI- FORM 7UM-MF (COL./ 100 ML)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)
JAN												
18...	1400	450	485	6.8	.0	2.1	14.0	96	<10	R11	--	--
FEB												
15...	1600	600	385	7.2	.0	11	12.8	88	<10	B110	41	7.3
MAR												
15...	1600	3100	230	7.6	7.0	150	10.0	83	--	84	--	--
APR												
12...	1300	800	345	7.3	14.0	14	8.9	87	<10	B18	--	--
MAY												
25...	1500	620	390	7.4	24.5	1.0	8.2	98	8	56	30	8.1
JUN												
29...	1500	340	420	7.0	23.0	3.0	7.6	89	17	1800	--	--
JUL												
26...	1600	620	310	7.5	22.0	20	8.5	98	20	B9800	--	--
AUG												
25...	1530	1830	270	7.2	15.0	75	8.7	87	30	B1300	--	--

DATE	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)
JAN												
18...	--	--	--	--	--	233	0	1.4	.14	.14	.28	1.7
FEB												
15...	11	1.7	116	32	21	195	16	1.4	.10	.20	.30	1.7
MAR												
15...	--	--	--	--	--	132	376	1.2	.06	.74	.80	2.0
APR												
12...	--	--	--	--	--	195	32	1.2	.05	.25	.30	1.5
MAY												
25...	7.5	1.7	160	35	13	239	20	1.2	.04	.19	.23	1.4
JUN												
29...	--	--	--	--	--	265	3	--	--	--	--	--
JUL												
26...	--	--	--	--	--	194	156	.64	.07	.77	.84	1.5
AUG												
25...	--	--	110	21	7.4	152	11	.52	.06	.48	.54	1.1

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAU- MIUM (CU) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)
JAN												
18...	.02	--	0	1	<10	0	140	<.5	5	10	3.8	0
FEB												
15...	.03	--	1	0	<10	20	1400	<.5	1	30	2.1	0
MAR												
15...	.15	--	7	0	40	10	12000	<.5	11	50	6.4	0
APR												
12...	.02	--	0	0	20	10	1300	<.5	9	20	1.8	0
MAY												
25...	.02	--	5	0	20	2	290	.0	7	10	4.5	3
JUN												
29...	--	--	2	0	10	3	2100	.0	8	30	--	--
JUL												
26...	.10	.02	1	0	30	38	6500	.0	28	40	10	1
AUG												
25...	.13	.01	--	0	10	11	6000	.0	14	20	5.6	--

B Results based on colony count outside the acceptable range (non-ideal colony count).

STREAMS TRIBUTARY TO LAKE ERIE

04214500 BUFFALO CREEK AT GARDENVILLE, NY

LOCATION.--Lat 42°51'16", long 78°45'22", Erie County, Hydrologic Unit 04120103, on left bank 300 ft (91 m) downstream from bridge on Union Road in Gardenville, and 2 mi (3 km) upstream from Cayuga Creek.

DRAINAGE AREA.--144 mi² (373 km²).

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1337: 1939-52. WSP 1912: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 604.04 ft (184.111 m) above mean sea level, unadjusted. Prior to Sept. 26, 1968, water-stage recorder at site 400 ft (122 m) downstream at same datum.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--39 years, 195 ft³/s (5.522 m³/s), 18.39 in/yr (467 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s (368 m³/s) Mar. 1, 1955, Mar. 7, 1956, from rating curve extended above 3,200 ft³/s (90.6 m³/s) on basis of slope-area measurement at gage height 7.07 ft (2.155 m); maximum gage height, 14.11 ft (4.301 m) Feb. 16, 1976 (ice jam); minimum discharge, 0.2 ft³/s (0.006 m³/s) Sept. 1, 1964, gage height, 0.81 ft (0.247 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,200 ft³/s (119 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 20	2300	ice jam	*12.37 3.770	Sept. 16	1600	4,940 140	6.65 2.027
Mar. 13	1130	5,590 158	7.05 2.149	Sept. 20	1500	6,680 189	7.64 2.329
Apr. 24	0030	7,710 218	8.14 2.481	Sept. 25	0400	*8,240 233	8.38 2.554
Aug. 17	0930	5,180 147	6.80 2.073	Sept. 26	1430	4,370 124	6.28 1.914

Minimum discharge, 19 ft³/s (0.54 m³/s) June 25, gage height, 0.90 ft (0.274 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	534	92	120	90	900	343	149	44	38	280	71
2	45	234	58	130	95	940	252	135	41	29	164	67
3	42	173	94	130	95	950	513	165	40	25	67	93
4	38	139	120	120	90	1000	273	133	36	25	46	91
5	35	115	140	120	75	2000	235	920	34	29	38	67
6	35	105	180	120	70	900	245	297	32	37	57	61
7	37	103	210	110	70	950	195	172	37	338	133	57
8	33	98	170	110	74	920	219	133	36	953	303	52
9	159	85	150	100	75	1000	169	122	31	206	291	49
10	1160	94	150	100	94	2100	165	120	34	105	465	44
11	217	134	250	95	120	1270	153	105	35	65	490	41
12	114	101	190	92	180	1270	141	95	31	57	904	40
13	96	93	160	95	230	3000	122	85	28	288	272	54
14	131	92	140	110	250	999	115	84	28	166	1250	705
15	113	90	140	100	210	922	102	77	26	77	485	219
16	42	88	140	90	180	938	107	71	24	55	174	1850
17	46	94	130	95	190	977	84	65	32	47	1690	1470
18	95	84	130	92	200	276	84	65	43	41	343	1180
19	54	95	220	98	210	232	82	77	44	38	169	1650
20	54	83	420	94	200	255	79	67	35	130	128	4340
21	600	80	560	92	190	310	77	57	28	69	110	2200
22	520	75	250	98	180	900	106	52	25	41	1200	495
23	350	74	220	98	190	959	2900	45	22	33	350	307
24	500	130	180	92	520	938	3200	44	20	30	632	1280
25	780	320	170	94	2000	228	857	42	94	30	340	4410
26	346	300	170	98	1200	235	446	41	237	49	165	2130
27	145	500	150	92	1000	125	519	37	82	37	128	855
28	134	205	140	74	1400	136	273	36	46	29	108	377
29	115	156	130	70	---	123	209	34	46	44	93	299
30	103	94	120	74	---	402	175	32	52	130	88	245
31	616	---	110	80	---	460	---	32	---	75	82	---
TOTAL	6893	4678	5504	3016	9498	24157	12451	3099	1343	3316	11105	24799
MEAN	222	156	178	97.3	339	779	415	100	44.8	107	358	827
MAX	1160	534	560	130	2000	3000	3200	420	237	953	1690	4410
MIN	35	74	84	70	70	228	77	32	20	25	38	40
CFSM	1.54	1.08	1.24	.88	2.35	5.41	2.85	.69	.31	.74	2.49	5.74
IN	1.78	1.21	1.42	.78	2.45	6.24	3.22	.80	.35	.86	2.87	6.41
CAL YR 1976	TOTAL	99615	MEAN 272	MAX 6060	MIN 20	CFSM 1.89	IN 25.73					
WTR YR 1977	TOTAL	109859	MEAN 301	MAX 4410	MIN 20	CFSM 2.09	IN 28.38					

STREAMS TRIBUTARY TO LAKE ERIE

275

04215000 CAYUGA CREEK NEAR LANCASTER, NY

LOCATION.--Lat 42°53'24", long 78°38'45", Erie County, Hydrologic Unit 04120103, on right bank 150 ft (46 m) upstream from low dam in Como Lake Park, 700 ft (210 m) downstream from bridge on Bowen Road, 800 ft (240 m) downstream from Little Buffalo Creek, and 2 mi (3.2 km) southeast of Lancaster.

DRAINAGE AREA.--94.9 mi² (246 km²).

PERIOD OF RECORD.--September 1938 to September 1968. October 1971 to April 1974 (peak discharges only). May 1974 to current year.

GAGE.--Water-stage recorder and low concrete dam as control. Datum of gage is 672.80 ft (205.069 m) above mean sea level, unadjusted.

REMARKS.--Records fair except those for winter periods, which are poor. Since August 1962, undetermined amount of flow diverted by Lancaster Country Club for irrigation upstream from station. Concrete dam configuration modified in September 1974 resulting in a lower point of zero flow.

AVERAGE DISCHARGE.--33 years (1938-68, 1975-77) 126 ft³/s (3.568 m³/s), 18.03 in/yr (458 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,410 ft³/s (266 m³/s) Sept. 25, 1977, gage height, 10.08 ft (3.072 m); maximum gage height, 12.58 ft (3.834 m) Mar. 30, 1960 (ice jam); practically no flow part of Aug. 8, 9, 1939, when stoplogs were installed in the dam.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,800 ft³/s (79.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 13	0945	4,110 116	7.43 2.265	Sept. 18	2345	4,780 135	7.78 2.371
Apr. 23	2245	5,180 147	7.98 2.432	Sept. 20	0245	3,760 106	7.26 2.213
July 7	0900	3,100 87.8	6.91 2.106	Sept. 25	0415	*9,410 266	*10.08 3.072
Aug. 22	0900	2,840 80.4	6.76 2.060				

Minimum discharge, 5.2 ft³/s (0.15 m³/s) June 24, 25, July 4, gage height, 2.66 ft (0.811 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	421	52	50	37	270	241	81	16	9.5	111	36
2	34	163	68	54	38	180	180	76	15	7.3	73	32
3	31	145	58	56	40	160	284	83	14	5.7	26	114
4	25	112	56	56	38	330	172	67	12	5.7	16	60
5	22	90	56	52	34	1400	169	158	9.8	6.1	14	40
6	20	80	66	48	32	674	160	140	10	39	201	38
7	21	73	86	49	34	351	118	78	11	300	556	32
8	21	66	130	49	36	288	140	58	9.8	500	1030	27
9	502	54	96	47	39	780	105	56	8.7	70	626	22
10	920	61	90	44	42	1600	97	56	9.0	40	556	19
11	200	70	130	36	52	990	93	48	8.4	30	321	18
12	110	52	110	39	70	940	83	41	7.8	27	494	16
13	75	54	84	44	90	2350	70	34	7.8	64	189	30
14	134	51	72	43	42	515	62	36	7.2	40	603	213
15	102	54	70	42	74	403	53	32	6.9	29	292	95
16	65	45	66	40	68	357	47	28	6.3	22	146	723
17	52	44	64	38	70	241	43	26	8.7	18	1260	514
18	46	45	62	38	78	183	40	26	15	16	213	1040
19	41	46	60	37	82	160	39	37	15	15	114	1500
20	39	43	310	37	80	174	37	29	10	30	61	2420
21	541	41	360	36	76	266	36	23	8.7	15	66	1540
22	346	33	190	35	74	341	56	19	7.2	10	1280	350
23	207	37	114	34	80	225	2220	16	6.3	8.0	271	223
24	174	39	61	34	98	190	2010	15	5.6	7.0	726	1170
25	317	43	80	34	700	150	608	14	40	7.0	286	3970
26	245	75	80	35	540	170	307	13	50	10	147	1540
27	143	230	72	32	360	321	233	12	18	7.2	96	655
28	99	121	66	29	470	674	160	11	11	6.6	71	266
29	81	88	66	27	---	573	123	9.8	11	13	55	198
30	72	46	60	30	---	293	99	9.8	11	82	49	168
31	594	---	52	35	---	336	---	10	---	32	42	---
TOTAL	5322	2542	3007	1260	3514	15986	8085	1342.6	377.2	1472.1	10013	17169
MEAN	172	84.7	97.0	40.6	126	516	270	43.3	12.6	47.5	323	572
MAX	920	421	360	56	700	2350	2220	158	50	500	1280	3970
MIN	20	33	52	27	32	150	36	9.8	5.6	5.7	14	16
CFSM	1.81	.89	1.02	.43	1.33	5.44	2.85	.46	.13	.50	3.40	6.03
IN.	2.09	1.00	1.18	.49	1.38	6.27	3.17	.53	.15	.58	3.92	6.73

CAL YR 1976	TOTAL	64909.9	MEAN	177	MAX	3060	MIN	8.1	CFSM	1.87	IN	25.44
WTR YR 1977	TOTAL	70089.9	MEAN	192	MAX	3970	MIN	5.6	CFSM	2.02	IN	27.47

STREAMS TRIBUTARY TO LAKE ERIE

04215500 CAZENOVIA CREEK AT EBENEZER, NY

LOCATION.--Lat 42°49'47", long 78°46'33", Erie County, Hydrologic Unit 04120103, on right bank 30 ft (9 m) upstream from bridge on Ridge Road in Ebenezer, 4.4 mi (7.1 km) upstream from mouth, and 5 mi (8 km) southeast of Buffalo.

DRAINAGE AREA.--134 mi² (347 km²).

PERIOD OF RECORD.--June 1940 to current year.

REVISED RECORDS.--WSP 1912: Drainage area. WRD NY 1973: 1972 (M).

GAGE.--Water-stage recorder. Datum of gage is 604.86 ft (184.361 m) above mean sea level, unadjusted. Prior to Apr. 4, 1955, at datum 2.00 ft (0.610 m) higher. Apr. 4 to Oct. 12, 1955, nonrecording gage at temporary site 1.3 mi (2.1 km) downstream at different datum.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--37 years, 226 ft³/s (6.400 m³/s), 22.90 in/yr (582 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,500 ft³/s (382 m³/s) Mar. 1, 1955, gage height, 15.82 ft (4.822 m) present datum, from rating curve extended above 7,700 ft³/s (218 m³/s); minimum, 2.6 ft³/s (0.074 m³/s) Nov. 7, 1953; minimum gage height, 1.87 ft (0.570 m) June 28, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft³/s (113 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 13	0915	7,370 209	10.20 3.109	Sept. 16	1230	5,830 165	9.66 2.944
Apr. 23	2230	*10,000 283	*12.05 3.673	Sept. 20	1000	8,560 242	11.65 3.551
Aug. 17	0530	5,580 158	8.86 2.701	Sept. 25	0400	9,770 277	11.87 3.618

Minimum discharge, 16 ft³/s (0.45 m³/s) June 24, gage height, 1.97 ft (0.600 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	565	110	98	100	760	386	127	53	37	514	59
2	34	205	100	110	110	700	318	127	51	27	193	56
3	31	141	90	100	110	440	658	173	41	23	82	133
4	28	109	96	100	100	1000	298	127	37	24	57	112
5	25	87	110	98	94	1900	275	818	34	24	44	70
6	29	82	140	94	88	787	265	338	37	49	95	61
7	30	77	230	90	92	405	201	177	42	214	131	52
8	26	74	190	88	96	480	232	131	39	407	294	46
9	407	72	160	84	100	1170	169	118	34	112	218	41
10	1030	77	180	80	110	2390	173	115	41	59	583	36
11	185	106	270	78	130	1770	165	100	37	39	519	34
12	84	82	190	76	180	1990	147	87	31	37	696	34
13	61	82	140	80	220	4400	127	79	28	333	250	59
14	134	63	120	84	260	1380	118	74	27	131	901	1360
15	98	61	130	82	210	703	103	67	25	61	364	254
16	59	59	120	78	180	820	95	63	24	44	162	2730
17	46	55	120	74	190	464	89	63	37	34	2190	1900
18	41	57	110	72	200	294	87	63	49	28	350	1410
19	38	70	200	82	210	233	84	61	42	35	165	1640
20	35	70	460	88	200	235	82	57	30	162	124	5940
21	683	59	350	88	190	282	79	55	24	84	103	1900
22	601	53	260	86	180	414	151	53	20	49	1510	561
23	413	57	200	86	190	311	4850	51	19	37	350	340
24	601	134	180	94	490	277	3820	51	17	30	665	1640
25	991	407	160	96	1900	187	991	51	391	42	335	4760
26	430	353	150	94	1200	182	477	51	477	109	161	2590
27	185	589	130	88	980	268	364	47	100	44	118	842
28	118	201	120	80	1300	901	232	46	53	28	97	450
29	98	141	110	76	---	1120	177	39	53	63	82	365
30	84	120	100	80	---	632	144	38	47	87	79	250
31	895	---	96	94	---	683	---	38	---	55	72	---
TOTAL	7561	4308	5122	2698	9410	27478	15357	3485	1940	2508	11504	29325
MEAN	244	144	165	87.0	336	499	512	112	64.7	80.9	371	978
MAX	1030	589	460	110	1900	4800	4850	818	477	407	2190	5940
MIN	26	53	90	72	88	182	79	38	17	23	44	34
CFSM	1.82	1.07	1.23	.65	2.51	6.71	3.82	.84	.48	.60	2.77	7.30
IN.	2.10	1.20	1.42	.75	2.61	7.74	4.26	.97	.54	.70	3.19	8.14

CAL YR 1976 TOTAL 107216 MEAN 293 MAX 5930 MIN 17 CFSM 2.19 IN 29.76
WTR YR 1977 TOTAL 121096 MEAN 332 MAX 5940 MIN 17 CFSM 2.48 IN 33.62

277

LOCATION.--Lat 42°52'39", long 78°53'26", Erie County, Hydrologic Unit 04120200, near outer end of Buffalo River South Pier, at Buffalo.

REVISED RECORDS. --WDR NY-75-1: 1974.

COOPERATION.--Records furnished by U.S. Department of Commerce, NOAA-NOS, Lake Survey Center, Detroit, Mich.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 579.09 ft (176.507 m) Nov. 3, 1955; minimum 564.17 ft (171.959 m) Mar. 10, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 574.73 ft (175.178 m) Sept. 26; minimum elevation, 568.86 ft (173.389 m) Jan. 10.

DAY	UCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	571.79	571.44	571.56	571.45	570.35	570.37	571.06	571.82	571.90	572.64	571.83	571.50
2	571.83	571.77	571.66	570.82	570.32	570.39	571.16	571.95	571.94	571.86	571.59	571.52
3	571.82	571.66	570.99	570.49	570.30	570.16	571.60	571.64	571.77	571.64	571.58	571.47
4	571.73	571.63	571.20	570.53	570.17	570.37	570.81	571.63	571.69	571.75	571.62	571.33
5	571.82	571.84	571.12	570.39	570.30	570.53	572.49	571.98	571.70	571.68	571.80	571.52
6	572.00	572.81	570.78	570.44	570.24	570.45	571.72	572.11	571.50	571.75	571.80	571.31
7	571.75	571.59	570.99	570.62	570.22	570.49	571.44	571.92	571.76	571.68	571.84	571.19
8	571.68	571.60	571.12	570.46	570.12	570.44	571.53	572.17	571.74	571.79	571.89	571.15
9	571.58	571.68	571.25	570.01	570.12	570.46	571.34	571.91	571.46	571.70	571.45	571.49
10	572.04	571.64	571.74	570.85	570.10	570.46	571.17	572.00	571.65	571.36	571.89	571.87
11	571.61	571.36	571.14	571.12	570.13	570.40	571.47	571.99	571.69	571.52	571.80	571.38
12	571.88	571.49	571.66	570.62	570.05	570.36	571.42	572.12	571.63	571.73	571.80	571.38
13	572.27	572.21	571.08	570.34	570.23	570.62	571.44	571.99	571.55	571.95	571.76	571.59
14	572.37	572.23	571.68	570.36	570.15	570.70	571.29	571.84	571.61	571.69	571.86	571.49
15	572.78	571.34	571.07	570.41	570.17	570.61	571.28	571.76	571.55	571.70	571.50	571.02
16	571.94	571.46	570.87	570.60	570.16	571.16	571.29	571.80	571.52	571.71	571.71	571.45
17	571.65	571.44	571.42	570.75	570.10	570.67	571.24	571.84	571.72	571.74	571.95	571.58
18	571.52	571.72	570.80	570.36	570.05	570.21	571.22	571.90	571.76	571.73	571.74	571.59
19	571.38	571.64	570.85	570.36	570.10	570.84	571.26	571.83	571.95	571.84	571.77	571.33
20	571.58	571.16	571.12	570.33	570.12	571.24	571.26	571.76	571.79	571.93	571.42	571.91
21	573.02	571.24	571.54	570.33	570.14	570.80	571.27	571.72	571.71	571.84	571.62	571.56
22	573.06	572.31	571.58	570.34	570.03	570.62	571.33	571.75	571.62	571.44	571.93	571.36
23	571.87	572.21	571.86	570.22	569.82	571.24	571.00	571.76	571.50	571.67	571.62	571.18
24	571.41	571.55	571.18	570.20	570.12	571.24	571.58	571.74	571.54	571.69	571.33	571.22
25	571.23	571.13	570.99	570.26	570.34	571.09	571.69	571.76	571.69	571.84	571.42	571.58
26	571.20	571.22	570.92	570.23	570.14	570.98	571.77	571.61	571.63	571.63	571.32	572.45
27	571.30	571.43	570.83	570.55	570.40	570.93	571.88	571.67	571.49	571.48	571.52	572.28
28	572.70	571.23	570.61	570.71	570.45	570.92	571.90	571.61	571.56	571.46	571.50	571.93
29	572.											

CAL YR 1976	MEAN 572.26	MAX 573.86	MIN 570.61
WTR YR 1977	MEAN 571.34	MAX 573.06	MIN 569.82

NIAGARA RIVER BASIN

279

04216200 SCAJAQUADA CREEK AT BUFFALO, NY

LOCATION.--Lat 42°54'41", long 78°47'48", Erie County, Hydrologic Unit 04120104, on right bank 58 ft (18 m) upstream from point where stream goes underground in concrete-lined tunnel, 86 ft (26 m) upstream from Pine Ridge Road, and 0.2 mi (0.3 km) east of boundary line of city of Buffalo.

DRAINAGE AREA.--15.9 mi² (41.2 km²).

PERIOD OF RECORD.--February 1957 to current year.

REVISED RECORDS.--WSP 1912: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 626.26 ft (190.884 m) above mean sea level (city of Buffalo bench mark).

REMARKS.--Records good. Discharge includes flow diverted from Lake Erie and Niagara River as sewage-plant effluent entering basin upstream from station.

COOPERATION.--Town of Cheektowaga maintains records of sewage-plant discharge.

AVERAGE DISCHARGE.--20 years, 34.4 ft³/s (0.974 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,620 ft³/s (74.2 m³/s) Aug. 7, 1963, gage height, 14.38 ft (4.383 m); minimum, 4.1 ft³/s (0.12 m³/s) Sept. 27, 1959; minimum gage height, 1.49 ft (0.454 m) Sept. 2, 1957 (may have been lower during period of partially obstructed intake).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 13	0515	636 18.0	5.25 1.600	Aug. 17	0215	*1,470 41.6	*9.18 2.798
Apr. 23	1800	905 25.6	6.60 2.012	Aug. 22	0530	1,070 30.3	7.41 2.259
Aug. 6	1600	1,050 29.7	7.34 2.237	Sept. 18	1900	946 26.8	6.81 2.076
Aug. 8	1830	911 25.8	6.63 2.021	Sept. 24	2330	1,260 35.7	8.33 2.539
				Sept. 26	1245	1,460 41.3	9.12 2.780

Minimum discharge, 7.1 ft³/s (0.20 m³/s) Oct. 30; minimum gage height, 1.60 ft (0.488 m) Oct. 30, June 13, July 27.

 DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	50	16	16	14	65	32	16	57	24	98	17
2	14	25	15	16	14	47	30	24	16	14	20	22
3	12	20	16	17	15	35	54	18	16	12	17	39
4	13	18	18	18	16	149	37	26	14	18	17	16
5	13	18	18	18	16	175	42	39	13	15	26	17
6	34	16	20	18	15	80	27	22	22	63	361	17
7	41	15	20	18	15	50	27	18	16	115	158	17
8	17	15	52	17	15	70	34	15	15	77	426	16
9	147	14	38	16	16	165	24	15	14	23	118	16
10	135	15	54	16	16	163	14	15	14	16	149	16
11	31	14	136	16	35	92	14	16	14	33	50	14
12	14	14	46	17	61	77	14	15	13	32	88	16
13	23	13	27	15	141	264	17	15	14	37	33	75
14	27	13	22	16	80	63	15	15	14	18	91	96
15	18	14	20	16	55	41	15	14	14	17	40	22
16	16	13	21	16	43	47	15	15	14	16	87	181
17	13	13	23	15	36	31	14	15	24	14	529	73
18	14	13	21	15	33	27	15	30	42	15	43	352
19	14	13	24	16	32	40	15	22	16	15	24	211
20	22	13	241	16	26	33	15	15	25	15	20	257
21	64	12	75	16	25	61	15	15	23	15	36	125
22	24	13	33	16	27	64	42	15	16	14	401	42
23	18	13	24	15	35	77	520	15	16	14	48	28
24	36	13	21	16	172	37	262	15	16	12	147	245
25	48	15	26	16	158	35	107	16	111	18	41	332
26	30	66	20	17	104	39	43	21	20	14	26	676
27	20	50	20	16	203	40	24	25	17	12	21	111
28	17	23	20	16	112	45	24	30	16	13	18	38
29	16	20	19	14	---	35	20	35	40	32	20	28
30	15	16	18	14	---	35	18	34	18	42	18	34
31	106	---	16	14	---	49	---	38	---	38	18	---
TOTAL	1030	560	1227	499	1532	2409	1612	554	682	813	3191	3149
MEAN	33.2	19.3	39.6	16.1	54.7	77.7	53.7	21.2	22.7	26.2	103	105
MAX	147	66	241	18	203	264	520	39	111	115	529	676
MIN	12	12	15	14	14	27	14	14	13	12	17	14

CAL YR 1976 TOTAL 14973 MEAN 40.9 MAX 555 MIN 11
 WTR YR 1977 TOTAL 17382 MEAN 47.6 MAX 676 MIN 12

04217000 TONAWANDA CREEK AT BATAVIA, NY

LOCATION.--Lat 42°59'51", long 78°11'20", Genesee County, Hydrologic Unit 04120104, on right bank 150 ft (46 m) downstream from municipal dam, 500 ft (152 m) upstream from bridge on Walnut Street in Batavia, and 5.0 mi (8.0 km) downstream from Little Tonawanda Creek.

DRAINAGE AREA.--171 mi² (443 km²).

PERIOD OF RECORD.--July 1944 to current year.

REVISED RECORDS.--WSP 1627: 1956-57. WSP 1912: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 876.33 ft (267.105 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are fair. Diversion upstream from station by city of Batavia for municipal supply; sewage, which may include water from municipal and industrial wells upstream from gage, enters creek downstream from gage.

COOPERATION.--City of Batavia maintains records of diversion.

AVERAGE DISCHARGE.--33 years, 204 ft³/s (5.777 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,200 ft³/s (204 m³/s) Mar. 31, 1960, gage height, 12.70 ft (3.871 m); maximum gage height, 13.85 ft (4.221 m) Apr. 6, 1947; minimum discharge, 0.4 ft³/s (0.011 m³/s) Aug. 5-7, 1955; minimum gage height, 0.59 ft (0.180 m) July 26, 27, 1948.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 14.5 ft (4.42 m) in March 1942, from records of city of Batavia.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft³/s (51 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 11	1030	2,360 66.8	6.86 2.091	Aug. 18	0230	2,820 79.9	7.50 2.286
Mar. 14	0130	4,440 126	10.04 3.060	Sept. 21	0200	4,380 124	9.96 3.036
Apr. 24	1600	3,780 107	9.10 2.774	Sept. 25	2100	*5,120 145	*10.89 3.319

Minimum discharge, 16 ft³/s (0.45 m³/s) July 4, 5, gage height, 1.44 ft (0.439 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	554	97	51	56	592	568	178	31	27	46	105
2	49	454	121	56	52	499	368	155	36	21	92	93
3	45	273	92	90	46	393	452	171	37	18	42	117
4	40	215	97	58	41	342	391	145	39	17	30	122
5	36	175	100	54	44	325	303	215	33	18	26	96
6	33	151	92	78	48	1030	306	269	30	37	71	134
7	32	138	112	50	50	743	252	178	31	294	376	94
8	33	126	223	50	54	459	248	138	32	617	472	79
9	49	110	165	76	56	469	215	126	27	553	706	70
10	510	110	132	74	55	1510	203	132	29	215	375	63
11	388	126	186	58	53	2140	197	118	32	112	496	57
12	175	112	208	54	60	1520	192	105	29	81	466	52
13	115	102	145	72	73	2750	172	92	26	123	545	57
14	121	102	105	70	69	3320	154	88	24	154	489	283
15	142	100	115	58	118	1240	135	81	24	81	682	242
16	105	95	110	54	148	857	121	75	21	62	332	287
17	83	90	107	52	168	533	111	71	21	53	1430	926
18	71	95	105	52	161	415	105	65	32	45	2100	1010
19	65	100	97	50	151	329	99	69	33	37	579	1840
20	64	102	151	50	142	310	96	71	29	49	269	2950
21	269	97	459	58	132	323	90	58	22	48	192	3690
22	435	88	265	56	121	453	91	52	21	34	541	1840
23	347	79	182	56	112	357	430	46	20	30	864	773
24	269	79	154	56	115	341	2680	40	22	29	704	474
25	435	79	129	58	148	235	1800	41	28	28	823	2960
26	430	83	129	58	265	264	895	45	77	29	385	3520
27	269	306	118	52	507	303	459	36	48	28	239	2180
28	193	227	107	46	515	349	320	34	32	25	186	1130
29	158	168	107	39	---	1170	252	31	27	25	151	552
30	138	105	97	44	---	1050	212	30	32	60	137	382
31	240	---	83	50	---	559	---	28	---	57	129	---
TOTAL	5396	4771	4400	2030	3660	25924	11917	2989	925	3007	13975	26178
MEAN	174	159	142	65.5	131	835	397	96.4	30.8	97.0	451	873
MAX	510	684	469	90	607	3320	2680	269	77	617	2100	3690
MIN	32	79	83	39	41	258	90	28	20	17	26	52

CAL YR 1976 TOTAL 111120 MEAN 304 MAX 5130 MIN 23
WTR YR 1977 TOTAL 105172 MEAN 288 MAX 3590 MIN 17

04217500 TONAWANDA CREEK NEAR ALABAMA, NY

LOCATION.--Lat 43°05'28", long 78°27'15", Genesee County, Hydrologic Unit 04120104, on right bank 15 ft (5 m) downstream from bridge on Meadville Road, 0.4 mi (0.6 km) downstream from inoperable canal feeder connecting Tonawanda and Oak Orchard Creeks, 1.1 mi (1.8 km) upstream from small tributary, and 3.2 mi (5.1 km) west of Alabama.

DRAINAGE AREA.--231 mi² (598 km²).

PERIOD OF RECORD.--October 1955 to current year.

REVISED RECORDS.--WSP 1912: Drainage area. WRD NY 1974: 1973. WDR NY-75-1: 1959 (P).

GAGE.--Water-stage recorder. Datum of gage is 605.93 ft (184.687 m) above mean sea level. Prior to October 1965, nonrecording gage at same site and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--22 years, 277 ft³/s (7.845 m³/s), 16.28 in/yr (414 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,980 ft³/s (226 m³/s) Mar. 31, 1960, gage height, 14.28 ft (4.353 m); maximum gage height, 15.95 ft (4.862 m) Jan. 23, 1959 (ice jam); minimum daily, 7.7 ft³/s (0.22 m³/s) Sept. 14, 15, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,100 ft³/s (59.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 7	0430	ice jam	†10.94 3.335	Aug. 18	1400	3,070 86.9	11.87 3.618
Mar. 11	2130	3,220 91.2	11.72 3.572	Sept. 21	1830	3,940 112	12.83 3.911
Mar. 14	1730	4,430 125	12.68 3.685	Sept. 26	1730	*5,020 142	*13.54 4.127
Apr. 25	0600	4,130 117	12.47 3.801				

† Backwater from ice.

Minimum discharge, 24 ft³/s (0.68 m³/s) June 24, gage height, 5.11 ft (1.558 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	781	110	140	96	940	880	256	45	41	79	129
2	67	813	96	130	110	1000	582	222	50	40	88	110
3	60	395	94	140	100	780	569	210	50	32	87	109
4	54	287	110	150	88	600	626	205	50	29	54	137
5	49	228	120	140	80	640	453	212	50	27	41	114
6	45	193	130	130	90	1400	424	346	45	40	53	118
7	44	175	120	130	94	1500	365	262	42	262	289	121
8	42	159	150	130	100	980	337	191	41	608	468	93
9	58	143	300	130	110	800	313	166	42	943	1080	80
10	442	129	240	120	110	1500	267	159	39	395	739	73
11	674	141	180	100	100	3100	256	159	37	186	565	64
12	287	147	320	100	110	2510	251	139	41	121	446	58
13	172	121	250	110	130	2630	233	125	37	109	723	61
14	145	123	200	120	140	4090	203	112	34	179	438	118
15	172	119	180	110	190	2370	177	105	32	121	786	369
16	151	116	180	110	250	1350	155	97	32	88	503	193
17	119	109	170	100	300	1040	143	92	31	70	885	824
18	100	107	170	100	320	683	133	87	32	60	2770	1270
19	90	112	160	100	300	475	125	82	42	53	1160	1390
20	85	118	200	96	280	449	121	86	42	50	375	2820
21	139	114	540	96	260	461	118	90	39	57	254	3530
22	586	105	720	94	240	640	119	76	32	53	503	3070
23	457	95	380	90	220	585	420	70	29	41	1180	1240
24	346	90	280	90	210	511	2180	62	28	35	926	674
25	424	90	270	92	270	392	3340	54	36	34	1170	2250
26	595	92	220	96	350	353	1540	56	45	33	649	4480
27	406	203	190	96	600	392	840	62	81	32	310	3490
28	264	313	180	90	1000	734	516	52	56	33	238	2100
29	203	200	180	84	---	1290	375	49	47	31	193	949
30	177	140	170	76	---	1480	304	47	41	73	159	608
31	203	---	150	86	---	1020	---	45	---	82	149	---
TOTAL	6735	5958	6770	3376	5248	36697	16365	3976	1248	3958	17360	30642
MEAN	217	199	218	109	223	1184	546	128	41.6	128	560	1021
MAX	674	813	720	150	1000	4090	3340	346	81	943	2770	4480
MIN	42	90	94	76	80	353	118	45	28	27	41	58
CFSM	.94	.86	.94	.47	.97	5.13	2.36	.55	.18	.55	2.42	4.42
IN.	1.08	.96	1.09	.54	1.01	5.91	2.64	.64	.20	.64	2.80	4.93

CAL YR 1976	TOTAL	140170	MEAN 383	MAX 5110	MIN 29	CFSM 1.66	IN 22.57
WTR YR 1977	TOTAL	139333	MEAN 382	MAX 4480	MIN 27	CFSM 1.65	IN 22.44

04218518 ELLICOTT CREEK BELOW WILLIAMSVILLE, NY

LOCATION.--Lat 42°58'40", long 78°45'50", Erie County, Hydrologic Unit 04120104, on right bank 15 ft (5 m) upstream from bridge on State Highway 324 (Sheridan Drive), 0.8 mi (1.3 km) upstream from sewage treatment plant, and 1.4 mi (2.3 km) northwest of Williamsville.

DRAINAGE AREA.--77.6 mi² (201 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 586.41 ft (178.738 m) above mean sea level.

REMARKS.--Records fair except those for winter periods and those for period of no gage-height record, which are poor. Regulation by intermittent pumping from stone quarry into stream upstream from station. Records at medium and high flows may be comparable with those obtained at station 04218500 between October 1955 to September 1972.

AVERAGE DISCHARGE.--5 years, 138 ft³/s (3.908 m³/s), 24.15 in/yr (613 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,490 ft³/s (70.5 m³/s) Sept. 26, 1977, gage height, 9.23 ft (2.813 m); no flow for part of July 27, 1976, gage height, 0.73 ft (0.222 m), result of pipeline construction.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 11	1645	1,450 41.1	6.52 1.987	Aug. 18	0730	†2,360 66.8	†8.92 2.719
Mar. 14	0815	1,430 40.5	6.46 1.969	Aug. 23	1145	1,100 31.2	5.52 1.682
Apr. 24	2015	1,750 49.6	7.38 2.249	Sept. 21	0815	1,490 42.2	6.62 2.018
Aug. 9	1800	1,290 36.5	6.05 1.844	Sept. 26	0830	*2,490 70.5	*9.23 2.813

† About.

Minimum discharge, 4.4 ft³/s (0.12 m³/s) July 29, gage height 1.01 ft (0.308 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	460	50	40	52	445	217	66	31	12	69	39
2	34	370	46	42	56	445	158	58	21	9.1	53	44
3	29	140	49	44	58	445	168	52	21	7.6	56	54
4	25	110	52	43	54	127	188	58	9.7	8.0	32	74
5	23	90	54	42	49	546	146	69	7.6	7.6	29	65
6	28	72	37	41	48	769	144	106	14	27	126	41
7	43	64	72	40	54	537	123	91	15	41	582	44
8	39	60	82	39	56	437	109	75	14	89	1190	37
9	64	54	94	37	58	459	114	70	14	174	1200	29
10	390	50	88	37	62	882	95	66	11	80	630	24
11	607	58	120	29	68	1400	89	65	9.1	44	325	20
12	191	68	130	32	80	1010	81	62	10	43	250	18
13	97	54	90	35	101	1010	78	60	10	34	330	49
14	102	50	60	35	74	1250	71	57	7.2	29	255	79
15	97	47	50	34	70	519	65	32	7.6	41	390	107
16	83	47	48	33	70	345	57	25	7.2	24	230	160
17	65	43	37	31	76	263	48	54	11	19	880	337
18	54	40	35	31	90	174	36	57	14	11	1900	483
19	46	42	37	35	96	138	45	54	8.6	9.1	498	735
20	47	45	190	39	100	147	45	53	9.1	8.6	157	1160
21	80	41	290	41	110	200	47	50	9.1	9.7	110	1370
22	270	37	300	42	110	345	75	30	7.6	18	415	846
23	160	35	170	41	100	287	480	12	6.8	12	902	315
24	92	50	96	44	158	260	1470	9.7	7.2	11	442	300
25	76	98	70	44	234	186	1200	16	200	12	579	1180
26	260	150	62	43	287	164	501	19	200	13	275	2190
27	190	170	58	42	479	188	230	16	62	10	131	1490
28	120	240	54	42	746	297	139	15	43	7.6	92	868
29	84	110	52	42	---	380	91	26	38	19	75	360
30	70	60	47	46	---	320	76	27	11	11	64	230
31	60	---	42	48	---	215	---	23	---	40	49	---
TOTAL	3566	2955	2672	1214	3596	16090	6388	1473.7	836.8	881.3	12316	12748
MEAN	115	98.5	86.2	39.2	128	519	213	47.5	27.9	28.4	397	425
MAX	607	460	300	48	746	1400	1470	106	200	174	1900	2190
MIN	23	35	35	29	48	138	36	9.7	6.8	7.6	29	18
CF5M	1.48	1.27	1.11	.51	1.65	6.69	2.74	.61	.36	.37	5.12	5.48
IN5	1.71	1.42	1.28	.58	1.72	7.71	3.06	.71	.40	.42	5.90	6.11
CAL YR 1976 TOTAL	54896.5			MEAN 150	MAX 2050	MIN 7.2	CF5M 1.93	IN 26.32				
WTR YR 1977 TOTAL	64736.8			MEAN 177	MAX 2190	MIN 6.8	CF5M 2.28	IN 31.03				

Note.--No gage-height record Oct. 22 to Dec. 2.

NIAGARA RIVER BASIN

283

04219000 ERIE (BARGE) CANAL AT LOCK 30, MACEDON, NY

LOCATION.--Lat 43°04'20", long 77°17'45", Wayne County, Hydrologic Unit 04140201, on left bank at Lock 30, in Macedon, 500 ft (152 m) downstream from headgate in old Erie Canal, 700 ft (213 m) downstream from bridge on State Highway 350, and 2.6 mi (4.2 km) upstream from Ganargua Creek.

PERIOD OF RECORD.--November 1919 to December 1920 (navigation seasons only), October 1950 to current year. Prior to October 1956, published as "Barge Canal at Lock 30, Macedon."

REVISED RECORDS.--WSP 1237: 1951.

GAGE.--Water-stage recorder. Datum of gage is 447.58 ft (136.422 m) above mean sea level. Nov. 1, 1919 to Dec. 28, 1920, nonrecording gage at same site at different datum.

REMARKS.--Records good except those for non-navigation season, which are poor. This record represents net diversion from Niagara River basin into Oswego River basin through Erie (Barge) Canal. During the period of no navigation, from Dec. 3 to Apr. 30, discharge consists chiefly of leakage through guard gates and runoff from small areas tributary to canal upstream from station.

COOPERATION.--Records of gate openings, lockages, lock-value openings, and elevations of water surface in Erie (Barge) Canal upstream and downstream from Lock 30 furnished by New York State Department of Transportation.

AVERAGE DISCHARGE.--27 years (1950-77), 200 ft³/s (5.664 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 874 ft³/s (24.8 m³/s) Dec. 3, 1969; minimum daily, 0.8 ft³/s (0.023 m³/s) Feb. 25, 26, 1962.

 DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	274	255	273	16	10	17	71	3.6	314	320	324	314
2	273	257	132	13	10	17	52	4.6	314	324	310	310
3	285	252	46	11	10	17	30	3.9	312	340	318	298
4	279	251	12	5.7	10	17	17	48	312	324	302	308
5	266	251	12	5.6	10	17	35	226	320	321	312	284
6	266	247	12	5.6	10	17	27	197	312	318	312	280
7	267	254	12	5.6	10	30	17	71	309	317	324	291
8	262	250	11	5.6	10	46	27	70	312	318	305	297
9	268	250	9.6	5.6	10	66	23	71	312	319	306	292
10	259	256	9.6	5.6	10	49	19	78	322	330	297	300
11	254	250	8.5	5.5	10	32	16	72	323	319	304	308
12	252	249	8.5	5.5	10	19	15	75	329	324	305	295
13	284	249	8.5	5.5	10	111	15	75	306	325	300	293
14	256	249	5.6	10	10	203	12	75	303	321	315	287
15	250	249	11	10	10	294	11	78	312	317	312	288
16	251	249	11	7.2	12	293	9.8	71	309	329	303	285
17	258	252	11	5.5	12	296	9.8	73	321	327	300	294
18	259	250	11	5.5	12	296	8.6	71	318	324	301	290
19	256	249	17	10	12	296	5.8	80	322	314	295	287
20	255	254	25	9.4	13	166	5.8	83	311	323	309	297
21	267	246	17	7.2	14	39	5.8	88	298	308	314	290
22	264	578	10	5.5	15	40	6.5	94	309	316	309	278
23	255	334	11	8.3	17	40	40	164	316	327	313	272
24	254	200	11	10	17	39	72	312	321	320	313	290
25	252	200	11	10	17	39	108	305	326	312	309	310
26	249	201	11	10	17	39	80	301	319	314	300	301
27	254	203	11	10	17	44	52	312	319	318	298	291
28	250	204	10	10	17	50	31	327	311	319	310	279
29	250	205	10	10	---	57	18	321	300	326	297	276
30	259	493	11	10	---	61	8.7	320	312	321	291	285
31	254	---	12	10	---	66	---	311	---	317	301	---
TOTAL	8082	7887	771.3	254.4	342	2813	848.8	4381.1	9424	9952	9509	8770
MEAN	261	263	24.9	8.21	12.2	90.7	28.3	141	314	321	307	292
MAX	285	578	273	16	17	296	108	327	329	340	324	314
MIN	249	200	5.6	5.5	10	17	5.8	3.6	298	308	291	272

CAL YR 1976 TOTAL 57770.0 MEAN 158 MAX 578 MIN 2.3
WTR YR 1977 TOTAL 63034.6 MEAN 173 MAX 578 MIN 3.6

ST. LAWRENCE RIVER MAIN STEM

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY
(National stream-quality accounting network station)

LOCATION.--Lat 43°15'40", long 79°03'47", Niagara County, Hydrologic Unit 04120200, on U.S. Coast Guard wharf at Old Fort Niagara, at mouth of Niagara River, and 1.0 mi (1.6 km) northwest of Youngstown.

DRAINAGE AREA.--265,000 mi² (686,350 km²).

PERIOD OF RECORD.--Water years 1971, 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September to December 1973, December 1974 to current year.

WATER TEMPERATURES: September to December 1973, December 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since September 1973.

REMARKS.--Discharge is estimated on the basis of records for station 04216000 Niagara River at Buffalo. Published in 1971 as "at Youngstown;" sampling site 4 mi (6.4 km) upstream from present sampling site. Additional water-quality data available from New York State Department of Environmental Conservation. Interruptions in the record were due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--Extremes not reported due to the extent of missing record caused by instrument malfunctions.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 335 micromhos Jan. 21; minimum recorded, 228 micromhos Apr. 7.

WATER TEMPERATURES: Maximum, 25.5°C July 20, 21, 22; minimum, freezing point on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	STREP- TOCOCCEI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCEI KF AGAR (COL. PER 100 ML)	HARD- NESS (CA,MG) (MG/L)
OCT , 1976										
12...	1400	320	7.5	3	9.6	94	889	27	--	120
NOV										
02...	1400	320	7.5	7	11.6	97	340	56	--	130
APR , 1977										
19...	1400	360	7.1	2	--	--	26	--	29	120
MAY										
18...	1400	300	7.6	2	10.4	93	8160	--	56	140
JUN										
15...	1400	310	7.2	3	7.9	79	816	--	818	130
JUL										
18...	1400	295	7.3	1	7.5	88	36	--	27	130
AUG										
02...	1000	300	7.7	0	8.7	102	814	--	814	120
SEP										
06...	1400	295	7.7	1	6.9	78	61	--	813	130

DATE	NUN- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT , 1976									
12...	33	37	7.8	9.9	1.3	112	0	5.7	23
NOV									
02...	37	39	8.7	10	1.4	117	0	5.9	28
APR , 1977									
19...	27	35	7.2	9.7	1.3	110	0	14	20
MAY									
18...	46	41	8.2	11	1.5	110	0	4.4	25
JUN									
15...	36	38	7.7	11	1.4	110	0	11	23
JUL									
18...	38	38	8.1	11	1.5	110	0	8.8	24
AUG									
02...	33	36	8.0	11	1.5	110	0	3.5	24
SEP									
06...	35	37	8.0	11	1.7	110	0	3.5	24

B Results based on colony count outside the acceptable range (non-ideal colony count).

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	DIS- SOLVED CHLO- RIDE (CL)	DIS- SOLVED FLUO- RIDE (F)	DIS- SOLVED SILICA (SI02)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS)	TOTAL NITRITE PLUS NITRATE (N)	TOTAL KJEL- DAHL NITRO- GEN (N)	TOTAL NITRO- GEN (N)	TOTAL PHOS- PHORUS (P)
		(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)
OCT . 1976										
12...		22	.1	.3	180	157	1.0	.35	1.4	.03
NOV										
02...		23	.1	.4	180	168	.17	.28	.45	.04
APR , 1977										
19...		22	.1	.1	175	150	.22	.30	.52	.03
MAY										
18...		28	.1	.1	207	169	.19	.83	1.0	.01
JUN										
15...		22	.1	.1	196	158	--	--	--	--
JUL										
18...		22	.1	.3	199	159	.13	.40	.53	.01
AUG										
02...		22	.1	.3	183	157	.10	.32	.42	.03
SEP										
06...		21	.1	.1	174	157	.05	.33	.38	.01

DATE	TIME	TOTAL ARSENIC (AS)	DIS- SOLVED ARSENIC (AS)	TOTAL CAD- MIUM (CD)	DIS- SOLVED CAD- MIUM (CD)	TOTAL CHRO- MIUM (CR)	DIS- SOLVED CHRO- MIUM (CR)	TOTAL COBALT (CO)	DIS- SOLVED COBALT (CO)	TOTAL COPPER (CU)	DIS- SOLVED COPPER (CU)	TOTAL IRON (FE)
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
OCT												
12...	1400	0	0	1	0	<10	<10	0	0	10	10	80
APR												
19...	1400	1	1	1	0	10	<10	0	0	0	0	100
JUN												
15...	1400	2	1	0	0	10	1	0	0	13	5	150
AUG												
02...	1000	--	0	--	0	--	1	--	0	--	4	--

DATE	TIME	DIS- SOLVED IRON (FE)	TOTAL LEAD (PB)	DIS- SOLVED LEAD (PB)	TOTAL MAN- GANESE (MN)	DIS- SOLVED MAN- GANESE (MN)	TOTAL MERCURY (HG)	DIS- SOLVED MERCURY (HG)	TOTAL SELE- NIUM (SE)	DIS- SOLVED SELE- NIUM (SE)	TOTAL ZINC (ZN)	DIS- SOLVED ZINC (ZN)
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
OCT												
12...		10	14	5	10	0	<.5	<.5	0	0	10	0
APR												
19...		10	8	4	0	0	<.5	<.5	1	0	10	30
JUN												
15...		10	7	5	0	0	.0	.0	0	0	40	10
AUG												
02...		20	--	9	--	0	--	.2	--	0	--	0

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
		(CFS)	(MG/L)	(T/DAY)	.062 MM			(CFS)	(MG/L)	(T/DAY)	.062 MM
OCT						JUL					
12...	1400	228000	10	6480	93	18...	1400	226000	3	1830	100
NOV						AUG					
02...	1400	240000	12	7390	94	02...	1000	228000	4	2460	91
MAY						SEP					
18...	1400	244000	8	5270	100	06...	1400	224000	4	2420	100
JUN											
15...	1400	229000	4	2470	95						

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE TIME	OCT 12,76 1400	NOV 2,76 1400	MAY 18,77 1400	JUN 15,77 1400	JUL 18,77 1400	AUG 2,77 1000	SEP 6,77 1400			
TOTAL CELLS/ML	40	560	5500	770	860	7800	3500			
DIVERSITY: DIVISION	0.7	1.5	1.0	1.3	1.9	0.9	1.1			
..CLASS	0.7	1.5	1.1	1.5	1.9	0.9	1.1			
...ORDER	1.4	2.1	1.1	1.7	2.0	1.4	1.8			
...FAMILY	2.6	3.0	1.4	1.9	3.0	1.7	2.2			
...GENUS	2.7	3.5	1.5	2.7	3.3	1.7	2.3			
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT		
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
...CHARACIACEAE										
...SCHROEDERIA	--	-	--	-	25	3	130	2		
...CUELASTRACEAE										
...CUELASTRUM	--	-	--	-	50	6	--	-		
...HYDRODICTYACEAE										
...PEDIASTRUM	--	-	28	5	* 0		470	13		
...MICRACTINIACEAE										
...MICRACTINIUM	--	-	--	-	--	-	330	4		
...OOCYSTACEAE										
...ANKISTRODESMUS	2	6	14	2	410	7	* 0	--	-	
...CHODATELLA	1	3	--	-	55	1	4	1	--	-
...DICTYOSPHAERIUM	--	-	55	10	--	-	--	-	--	-
...KIRCHNERIELLA	--	-	--	-	--	-	--	-	--	-
...OOCYSTIS	--	-	21	4	--	-	95	11	170	2
...QUADRIGULA	--	-	7	1	--	-	--	-	--	-
...TETRAEDMON	--	-	3	1	* 0		5	1	* 0	
...SCENEJESMAEAE										
...SCENEJESMUS	5	12	55	10	* 0		16	2	35	4
...TETRASTRUM	--	-	--	-	96	2	--	-	58	1
..TETRASPORALES										
...CUCCOMYXACEAE										
...ELAKATOTHRIX	--	-	--	-	--	-	--	-	--	-
...PALMELLACEAE										
...SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-
...VULVOCALES										
...CHLAMYDOMONADACEAE										
...CHLAMYDOMONAS	--	-	3	1	--	-	--	-	100	1
...ZYGNEATALES										
...DESMIDIACEAE										
...COSMARIUM	--	-	--	-	* 0		* 0		* 0	
...STAUSTRUM	--	-	3	1	--	-	5	1	43	1
CHRYSTOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
...CUSCINODISCACEAE										
...CYCLOTELLA	10#	24	76	13	55	1	5	1	--	-
...MELOSIRA	--	-	17	3	--	-	170#	20	--	-
...STEPHANODISCUS	--	-	10	2	82	1	--	-	--	-
...PENNALES										
...ACHNANTHACEAE										
...CUCCONEIS	1	3	--	-	--	-	--	-	--	-
...RHOICOSPHEVIA	2	6	--	-	* 0		--	-	--	-
...CYMBELLACEAE										
...CYMBELLA	2	6	--	-	--	-	--	-	--	-
...DIATOMACEAE										
...DIATOMA	--	-	--	-	--	-	4	1	--	-
...FRAGILARIACEAE										
...ASTERIONELLA	--	-	--	-	* 0		--	-	20	2
...FRAGILARIA	--	-	100#	18	* 0		40	5	--	-
...SYNEDRA	--	-	--	-	--	-	48	6	--	-
...NAVICULACEAE										
...NAVICULA	12#	30	--	-	* 0		--	-	--	-
...NITZSCHIAEAE										
...NITZSCHIA	4	9	17	3	55	1	8	1	--	-
...TABELLARIACEAE										
...TABELLARIA	--	-	21	4	* 0		--	-	--	-
..CHRYSTOPHYCEAE										
...CHRYSOMONADALES										
...UCHROMONADACEAE										
...DINOBRYON	--	-	--	-	* 0		40	5	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE TIME	OCT 12,76 1400		NOV 2,76 1400		MAY 15,77 1400		JUN 15,77 1400		JUL 18,77 1400		AUG 2,77 1000		SEP 6,77 1400	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)														
..CYANOPHYCEAE														
..CHROCOCCALES														
..CHROCOCCACEAE														
....ANACYSTIS	--	-	--	-	--	-	40	5	--	-	--	-	--	-
..HORMOGONALES														
..NOSTOCACEAE														
....ANABAENA	--	-			--	-			130#	16	120	1	400	11
....APHANIZOMENON	--	-	96#	17	160	3	--	-	--	-	--	-	120	3
..OSCILLATORIACEAE														
....LYNGBYA	--	-	--	-	--	-	300#	38	--	-	--	-	--	-
..OSCILLATORIA	--	-	34	6	4200#	77	200#	26	130#	15	--	-	--	-
....PHORMIDIUM	--	-	--	-	--	-	--	-	65	6	430	6	--	-
..CHROCOCCALES														
..CHROCOCCACEAE														
....GOMPHOSPHEREA	--	-	--	-	--	-	--	-	--	-	5800#	74	1900#	55
EUGLENOPHYTA (EUGLENOIDS)														
..CRYPTOPHYCEAE														
..CRYPTOMONIDALES														
..CRYPTOCHRYSIDACEAE														
....CHROOMONAS	--	-	--	-	180	3	--	-	60	7	360	5	*	0
..CRYPTOMONODACEAE														
....CRYPTOMONAS	--	-	--	-	120	2	24	3	--	-	250	3	--	-
..EUGLENOPHYCEAE														
..EUGLENALES														
....EUGLENACEAE														
....EUGLENA	--	-	--	-	*	0	--	-	--	-	--	-	--	-
....FRACHELOMONAS	--	-	--	-	*	0	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)														
..DINOPHYCEAE														
..GYMNODINIALES														
..GYMNODINIACEAE														
....GYMNODINIUM	--	-	--	-	*	0	--	-	--	-	--	-	--	-
..PERIDINIALES														
..CERATIACEAE														
....CERATIUM	--	-	--	-	--	-	--	-	5	1	*	0	*	0
..GLENODINIACEAE														
....GLENODINIUM	--	-	--	-	--	-	8	1	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

Dates of exposure	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Sept. 14 to Oct. 12	28	1.538	1.231	0.097	0.049	3165	Polyethylene strip
May 18 to June 15	27	2.28	1.50	--	--	--	Polyethylene strip
July 18 to Sept. 6	49	--	--	7.53	4.08	--	Polyethylene strip
Sept. 6 to Oct. 11	34	3.78	3.00	.249	.129	3133	Polyethylene strip

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	---	---	---	---	---	---	316	315	316
2	---	---	---	---	---	---	---	---	---	317	316	316
3	---	---	---	322	320	321	---	---	---	318	317	317
4	---	---	---	322	320	321	---	---	---	319	318	318
5	---	---	---	322	319	320	---	---	---	320	318	319
6	---	---	---	320	318	314	---	---	---	320	319	320
7	---	---	---	319	313	317	---	---	---	321	321	321
8	---	---	---	314	306	309	---	---	---	322	321	322
9	---	---	---	307	302	304	303	284	299	---	---	---
10	---	---	---	307	302	305	302	285	300	---	---	---
11	---	---	---	302	295	299	303	300	301	---	---	---
12	---	---	---	299	294	296	303	299	301	---	---	---
13	309	293	307	---	---	---	---	---	---	---	---	---
14	310	295	307	---	---	---	299	297	298	---	---	---
15	---	---	---	---	---	---	299	298	298	---	---	---
16	---	---	---	---	---	---	303	299	300	---	---	---
17	---	---	---	---	---	---	306	305	305	---	---	---
18	---	---	---	---	---	---	307	304	306	---	---	---
19	---	---	---	---	---	---	307	304	306	---	---	---
20	---	---	---	---	---	---	310	307	309	334	332	333
21	---	---	---	---	---	---	309	306	307	335	327	331
22	---	---	---	---	---	---	308	306	307	333	324	326
23	---	---	---	---	---	---	308	306	307	330	323	328
24	---	---	---	---	---	---	310	308	308	329	327	328
25	---	---	---	---	---	---	310	308	309	324	322	323
26	---	---	---	---	---	---	312	310	311	324	322	323
27	---	---	---	---	---	---	311	310	311	324	320	322
28	---	---	---	---	---	---	313	311	312	324	322	323
29	---	---	---	---	---	---	315	313	314	322	318	319
30	---	---	---	---	---	---	315	314	314	320	318	318
31	---	---	---	---	---	---	315	315	315	318	317	318
MONTH	---	---	---	322	294	311	315	284	306	335	315	322
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	318	317	317	298	288	290	284	277	281	291	287	289
2	313	312	312	289	287	288	285	278	281	291	286	288
3	313	312	312	291	289	291	286	284	285	290	287	288
4	313	312	312	---	---	---	284	277	280	287	285	286
5	313	312	313	---	---	---	296	292	294	285	283	284
6	309	308	308	---	---	---	296	237	288	288	284	286
7	308	307	307	---	---	---	293	228	279	288	278	283
8	308	307	307	---	---	---	288	285	286	283	278	280
9	309	306	307	---	---	---	288	284	285	289	284	286
10	302	301	301	---	---	---	286	284	285	293	290	292
11	302	301	301	---	---	---	286	284	284	299	293	295
12	302	301	301	---	---	---	287	284	285	301	298	300
13	298	296	297	---	---	---	288	284	286	301	298	300
14	298	296	297	---	---	---	287	283	285	302	297	299
15	---	---	---	---	---	---	287	282	285	302	298	300
16	---	---	---	---	---	---	285	282	284	301	300	300
17	304	303	304	289	281	285	284	282	284	303	300	301
18	303	302	303	286	280	282	285	283	284	306	300	303
19	304	302	303	284	278	281	286	284	284	306	303	305
20	303	302	303	283	278	281	288	284	286	306	303	305
21	298	296	297	284	278	281	288	274	284	306	304	306
22	299	295	297	284	279	282	288	285	287	306	303	305
23	299	296	297	285	277	281	290	286	287	307	304	306
24	301	296	298	284	279	281	293	284	290	307	305	306
25	301	298	299	284	277	281	287	283	285	307	305	306
26	295	292	294	280	275	278	287	284	285	307	303	305
27	296	294	295	283	278	280	285	281	283	307	304	306
28	296	290	291	283	279	281	285	283	284	305	302	303
29	---	---	---	293	280	286	284	282	283	304	302	303
30	---	---	---	295	284	289	287	283	284	303	301	302
31	---	---	---	295	281	286	---	---	---	304	302	303
MONTH	318	290	303	298	275	284	296	228	285	307	278	297

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	305	302	304	302	300	301	295	292	293	300	297	299
2	305	303	304	301	299	300	296	292	294	299	298	299
3	305	303	304	302	299	300	296	293	295	299	296	297
4	305	303	304	301	299	300	296	294	295	298	294	296
5	306	304	305	301	299	300	297	295	296	298	296	297
6	305	303	304	299	298	299	298	296	297	301	296	298
7	305	303	304	299	297	298	297	295	296	301	298	300
8	305	303	304	300	297	298	299	297	298	301	298	300
9	305	304	304	300	297	299	299	298	299	302	300	301
10	305	304	305	296	294	295	298	296	297	301	297	299
11	306	304	305	294	291	293	300	298	299	299	296	298
12	306	305	305	293	291	292	300	298	299	298	297	298
13	306	304	305	293	292	293	298	297	297	300	297	298
14	307	305	306	293	290	291	298	296	297	300	298	299
15	309	306	307	294	292	292	298	296	297	301	299	300
16	309	307	308	294	292	293	298	296	297	300	299	300
17	309	307	308	294	292	293	298	296	297	301	297	299
18	308	306	307	298	288	295	297	294	295	301	297	300
19	306	305	305	298	296	297	296	293	294	302	300	301
20	305	303	304	298	295	297	296	295	296	300	297	299
21	305	303	304	298	295	297	297	296	296	297	292	294
22	304	301	302	296	292	295	298	296	298	297	294	296
23	304	302	303	295	292	293	300	297	298	298	296	297
24	303	301	302	294	293	294	297	296	297	298	295	296
25	302	300	301	295	293	294	300	297	298	298	291	296
26	301	300	300	294	292	293	300	298	299	295	286	290
27	302	300	301	294	292	293	302	300	301	293	290	292
28	301	299	300	295	293	294	302	301	301	290	286	288
29	300	298	300	296	295	295	302	299	301	288	285	286
30	302	299	300	295	291	294	299	297	299	292	288	290
31	---	---	---	294	292	293	298	297	298	---	---	---
MONTH	309	298	304	302	288	296	302	292	297	302	285	297

TEMPERATURE(DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	0.5	0.0	0.0
2	---	---	---	---	---	---	---	---	---	0.0	0.0	0.0
3	---	---	---	8.5	8.5	8.5	---	---	---	0.0	0.0	0.0
4	---	---	---	8.5	8.5	8.5	---	---	---	0.0	0.0	0.0
5	---	---	---	8.5	8.5	8.5	---	---	---	0.0	0.0	0.0
6	---	---	---	8.5	8.5	8.5	---	---	---	0.0	0.0	0.0
7	---	---	---	8.5	8.5	8.5	---	---	---	0.0	0.0	0.0
8	---	---	---	8.5	8.5	8.5	---	---	---	0.0	0.0	0.0
9	---	---	---	8.5	8.5	8.5	1.0	0.5	0.5	---	---	---
10	---	---	---	8.5	8.5	8.5	1.0	0.5	0.5	---	---	---
11	---	---	---	8.5	8.5	8.5	1.0	0.5	1.0	---	---	---
12	---	---	---	8.5	8.0	8.5	1.0	0.5	0.5	---	---	---
13	15.0	14.5	14.5	8.5	8.0	8.0	1.0	0.5	0.5	---	---	---
14	14.5	14.5	14.5	---	---	---	0.5	0.0	0.0	---	---	---
15	---	---	---	---	---	---	0.5	0.0	0.0	---	---	---
16	---	---	---	---	---	---	0.5	0.0	0.5	---	---	---
17	---	---	---	---	---	---	0.5	0.5	0.5	---	---	---
18	---	---	---	---	---	---	0.5	0.5	0.5	---	---	---
19	---	---	---	---	---	---	0.5	0.5	0.5	---	---	---
20	---	---	---	---	---	---	1.0	0.5	0.5	0.5	0.5	0.5
21	---	---	---	---	---	---	0.5	0.5	0.5	0.5	0.5	0.5
22	---	---	---	---	---	---	0.5	0.0	0.5	0.5	0.0	0.5
23	---	---	---	---	---	---	0.5	0.0	0.0	0.5	0.0	0.0
24	---	---	---	---	---	---	0.5	0.0	0.0	0.5	0.0	0.5
25	---	---	---	---	---	---	0.0	0.0	0.0	0.5	0.0	0.5
26	---	---	---	---	---	---	0.5	0.0	0.0	0.5	0.0	0.5
27	---	---	---	---	---	---	0.5	0.0	0.0	0.5	0.5	0.5
28	---	---	---	---	---	---	0.0	0.0	0.0	0.5	0.5	0.5
29	---	---	---	---	---	---	0.5	0.0	0.0	0.5	0.0	0.5
30	---	---	---	---	---	---	0.5	0.0	0.5	0.5	0.0	0.5
31	---	---	---	---	---	---	0.5	0.0	0.0	0.5	0.5	0.5
MONTH	---	---	---	8.5	8.0	8.5	1.0	0.0	0.5	0.5	0.0	0.5

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04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY--Continued

TEMPERATURE(DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.5	0.5	0.5	0.5	0.5	0.5	2.0	1.0	1.5	4.5	3.5	4.0
2	0.5	0.0	0.5	1.0	0.5	0.5	2.0	1.0	1.5	4.5	4.5	4.5
3	0.5	0.0	0.5	1.0	1.0	1.0	2.0	2.0	2.0	4.5	4.5	4.5
4	0.5	0.0	0.5	2.0	1.0	1.0	2.0	1.0	1.5	4.5	4.0	4.5
5	0.5	0.5	0.5	---	---	---	2.0	1.5	2.0	4.0	3.5	4.0
6	0.5	0.5	0.5	---	---	---	2.0	1.0	1.5	5.5	4.0	4.5
7	0.5	0.0	0.5	---	---	---	1.5	1.0	1.5	5.5	4.5	5.0
8	0.5	0.0	0.5	---	---	---	1.5	1.0	1.5	5.5	4.5	5.0
9	0.0	0.0	0.0	---	---	---	1.5	1.0	1.5	6.0	5.5	5.5
10	0.5	0.0	0.0	---	---	---	2.0	1.5	1.5	6.5	6.0	6.0
11	0.0	0.0	0.0	---	---	---	3.0	2.0	2.0	7.5	6.5	7.0
12	0.0	0.0	0.0	---	---	---	3.0	2.0	2.5	8.0	7.5	8.0
13	0.5	0.0	0.0	---	---	---	2.5	2.0	2.0	8.5	8.0	8.5
14	0.5	0.0	0.0	---	---	---	2.5	1.5	2.0	9.0	8.5	8.5
15	0.5	0.0	0.0	---	---	---	2.5	2.0	2.0	9.0	9.0	9.0
16	1.0	0.5	0.5	---	---	---	2.5	2.0	2.0	9.5	9.0	9.0
17	1.0	1.0	1.0	2.0	1.0	1.5	2.5	2.0	2.0	10.5	9.5	10.0
18	1.0	0.5	0.5	1.5	1.0	1.0	2.5	2.0	2.0	11.0	10.0	10.5
19	1.0	0.5	1.0	1.5	0.5	1.0	2.5	2.0	2.0	12.0	11.0	11.5
20	1.0	0.5	1.0	1.0	0.5	1.0	2.5	2.0	2.0	12.5	12.0	12.0
21	0.5	0.5	0.5	1.5	0.5	1.0	2.5	1.5	2.0	13.5	12.5	12.5
22	1.0	0.5	0.5	1.5	1.0	1.0	2.5	2.0	2.5	14.0	13.0	13.5
23	1.0	0.5	0.5	1.5	0.5	1.0	2.5	2.0	2.5	15.0	14.0	14.5
24	1.0	0.5	1.0	1.0	0.5	1.0	2.5	2.0	2.5	15.5	15.0	15.0
25	1.0	0.5	1.0	1.5	0.5	1.0	2.5	2.0	2.5	15.5	15.0	15.5
26	1.0	0.5	1.0	1.5	1.0	1.0	2.0	1.5	2.0	16.5	15.0	15.5
27	1.0	1.0	1.0	1.5	1.0	1.5	3.0	1.5	2.0	16.5	15.5	16.0
28	1.0	0.5	0.5	1.5	1.5	1.5	3.0	2.0	2.5	16.0	15.0	15.5
29	---	---	---	2.5	1.5	2.0	3.0	1.5	2.0	15.5	15.0	15.5
30	---	---	---	3.0	1.5	2.5	4.0	2.5	3.0	15.5	14.0	15.0
31	---	---	---	3.0	1.5	2.0	---	---	---	14.5	13.5	13.5
MONTH	1.0	0.0	0.5	3.0	0.5	1.0	4.0	1.0	2.0	16.5	3.5	10.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	14.5	13.0	14.0	20.5	20.0	20.0	24.0	23.5	23.5	22.5	22.0	22.0
2	13.5	13.0	13.0	20.0	19.5	19.5	23.5	23.0	23.0	22.5	22.5	22.5
3	14.5	13.0	14.0	20.5	19.5	20.0	24.0	23.5	23.5	22.5	22.5	22.5
4	14.5	13.5	13.5	21.0	20.0	20.5	24.0	23.5	23.5	22.5	22.0	22.0
5	14.5	13.5	14.0	21.0	20.5	21.0	24.0	23.5	24.0	22.5	22.0	22.0
6	14.5	13.5	14.0	21.0	21.0	21.0	24.0	23.5	24.0	22.0	21.0	22.0
7	13.5	13.0	13.0	21.0	21.0	21.0	24.0	23.5	23.5	22.0	21.5	22.0
8	13.0	12.5	12.5	21.5	21.0	21.5	24.0	23.5	23.5	22.0	21.5	21.5
9	13.0	12.5	12.5	21.5	21.5	21.5	24.0	23.5	23.5	21.5	21.5	21.5
10	13.0	13.0	13.0	21.5	21.5	21.5	24.0	23.5	23.5	21.5	21.0	21.5
11	13.0	12.5	12.5	21.5	21.5	21.5	24.0	23.5	23.5	21.0	20.5	21.0
12	13.0	12.0	12.5	22.0	21.5	21.5	24.0	23.5	23.5	20.5	20.5	20.5
13	15.0	13.0	14.0	22.5	22.0	22.0	24.0	23.5	23.5	20.5	20.5	20.5
14	15.0	14.5	14.5	22.5	22.0	22.5	24.0	23.5	23.5	20.0	19.5	20.0
15	14.5	13.5	14.0	23.0	22.5	22.5	23.5	23.0	23.0	20.0	19.5	19.5
16	15.0	14.5	14.5	23.5	23.0	23.0	24.0	23.0	23.0	19.5	19.5	19.5
17	16.0	15.0	15.0	23.5	23.0	23.5	23.5	22.5	23.0	20.0	19.5	20.0
18	17.0	16.0	16.5	24.5	23.5	24.0	22.5	22.0	22.0	20.0	20.0	20.0
19	17.0	16.5	16.5	24.5	24.0	24.5	22.0	21.5	22.0	20.0	19.5	20.0
20	17.0	16.5	17.0	25.5	24.5	25.0	21.5	21.5	21.5	20.0	20.0	20.0
21	17.0	17.0	17.0	25.5	25.5	25.5	21.5	21.5	21.5	20.0	19.0	19.5
22	17.5	17.0	17.0	25.5	24.5	25.0	21.5	21.0	21.5	19.0	19.0	19.0
23	18.0	17.0	17.5	24.5	24.0	24.5	21.0	20.5	21.0	19.0	18.5	19.0
24	18.5	18.0	18.0	24.0	24.0	24.0	21.0	20.5	20.5	18.5	18.5	18.5
25	18.5	18.0	18.5	24.0	23.5	23.5	20.5	20.0	20.5	19.0	18.5	18.5
26	19.0	18.5	18.5	23.5	23.0	23.0	21.0	20.5	20.5	19.0	18.5	19.0
27	19.5	19.0	19.0	23.0	22.5	22.5	21.5	21.0	21.0	18.5	18.5	18.5
28	20.5	19.0	19.5	23.0	22.5	23.0	22.0	21.5	21.5	18.5	17.5	18.0
29	20.5	19.5	20.0	23.0	22.5	22.5	22.0	22.0	22.0	17.5	17.5	17.5
30	20.0	19.0	19.5	23.5	22.5	23.0	22.0	21.5	22.0	18.0	17.5	17.5
31	---	---	---	24.0	23.0	23.5	22.0	22.0	22.0	---	---	---
MONTH	20.5	12.0	15.5	25.5	19.5	22.5	24.0	20.0	22.5	22.5	17.5	20.0

STREAMS TRIBUTARY TO LAKE ONTARIO

291

04219940 MANNING MUCKLAND CREEK NEAR BARRE CENTER, NY

LOCATION.--Lat 43°10'13", long 78°08'04", Orleans County, Hydrologic Unit 04130001, on left bank 40 ft (12.2 m) up-stream from bridge on McNamar Road, 200 ft (60 m) east of Angevine Road, 1.5 mi (2.41 km) north of South Barre, and 3.2 mi (5.15 km) east of Barre Center.

DRAINAGE AREA.--5.28 mi² (13.68 km²).

PERIOD OF RECORD.--June 1974 to September 1976, October 1976 to current year (no winter records).

GAGE.--Water-stage recorder. Datum of gage is 639.38 ft (194.883 m) above mean sea level.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78 ft³/s (2.21 m³/s) Mar. 5, 1976, gage height, 5.73 ft (1.747 m); minimum, 0.01 ft³/s (<0.001 m³/s) many days in 1975; minimum gage height, 0.95 ft (0.289 m) Sept. 16-18, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 40 ft³/s (1.13 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 10	1800	*72 2.04	*5.54 1.689	Mar. 29	0045	46 1.30	4.49 1.369
Mar. 13	1400	*72 2.04	*5.54 1.689	Apr. 25	0400	40 1.13	4.23 1.289

Minimum discharge, 0.10 ft³/s (0.003 m³/s) July 26, 27, 28, gage height, 1.30 ft (0.396 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	2.8				8.0	18	7.7	1.5	.64	.29	.64
2	1.1	2.6				4.4	16	7.1	1.5	.64	.29	.64
3	1.1	2.5				11	26	6.4	1.4	.64	.24	.64
4	1.1	2.3				14	18	6.1	1.3	.60	.22	.60
5	1.1	2.1				26	19	6.3	1.2	.60	.19	.60
6	1.1	2.1				28	15	5.8	1.2	.68	.20	.60
7	1.1	2.0				28	13	5.3	1.1	.83	.20	.56
8	1.1	1.8				32	14	5.0	1.0	.83	.26	.53
9	1.6	1.8				49	12	4.9	.98	.76	.24	.53
10	3.7	1.8				68	12	4.5	.91	.72	.24	.53
11	2.9	1.9				66	11	4.2	.87	.64	.22	.50
12	2.2	1.8				56	9.6	4.0	.83	.64	.22	.46
13	1.8	1.8				68	8.8	3.8	.83	.60	.19	.68
14	2.1	1.8				58	8.3	3.6	.76	.53	.24	1.1
15	2.3	1.7				36	7.7	3.4	.72	.50	.20	.94
16	1.7	1.6				28	7.3	3.2	.68	.46	.24	1.1
17	1.4	1.5				23	6.8	3.1	.68	.41	.50	1.6
18	1.0	1.6				19	6.5	3.0	.83	.38	.46	1.6
19	.98	1.6				18	6.1	2.9	.83	.38	.38	2.4
20	1.1	1.6				17	5.9	2.8	.76	.33	.33	3.9
21	1.7	1.5				21	5.6	2.6	.72	.29	.33	3.0
22	2.0	1.4				25	5.8	2.4	.68	.20	1.0	2.4
23	1.8	1.3				22	14	2.2	.68	.17	1.0	2.1
24	1.8	1.4				20	31	2.0	.68	.17	1.0	2.9
25	2.1	1.4				16	36	2.0	.76	.16	1.0	9.8
26	2.2	1.5				15	23	1.8	.76	.12	.87	15
27	2.1	1.6				22	17	1.7	.68	.12	.80	24
28	2.1	1.6				36	13	1.6	.60	.12	.72	11
29	2.1	1.6				40	10	1.5	.72	.14	.68	7.9
30	2.1	1.6				28	8.6	1.5	.64	.16	.72	6.4
31	2.5	---				24	---	1.4	---	.12	.64	---
TOTAL	54.18	53.6				938.4	405.0	113.8	26.80	13.58	14.11	104.65
MEAN	1.75	1.79				30.3	13.5	3.67	.89	.44	.46	3.49
MAX	3.7	2.8				68	36	7.7	1.5	.83	1.0	24
MIN	.98	1.3				8.0	5.6	1.4	.60	.12	.19	.46
CFSM	.33	.34				5.74	2.56	.70	.17	.08	.09	.66
IN.	.38	.38				6.61	2.85	.80	.19	.10	.10	.74

STREAMS TRIBUTARY TO LAKE ONTARIO

04219950 MANNING MUCKLAND CREEK TRIBUTARY NEAR ELBA, NY

LOCATION.--Lat 43°07'56", long 78°09'53", Genesee County, Hydrologic Unit 04130001, on left bank 125 ft (38 m) upstream from bridge on Oak Orchard Road, and 3.9 mi (6.28 km) north of Elba.

DRAINAGE AREA.--21.9 mi² (56.7 km²).

PERIOD OF RECORD.--June 1974 to September 1976, October 1976 to current year (no winter records).

GAGE.--Water-stage recorder. Datum of gage is 621.31 ft (189.375 m) above mean sea level.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 340 ft³/s (9.63 m³/s) Mar. 5, 1976, gage height, about 9.2 ft (2.804 m); minimum 0.03 ft³/s (0.001 m³/s) Aug. 24, 1975, Sept. 15, 16, 1976; minimum gage height, 1.18 ft (0.360 m) Aug. 24, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 190 ft³/s (5.38 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 10	†1800	*†260 7.36	unknown	Sept. 27	0300	236 6.68	6.42 1.957
Mar. 13	†1200	*†260 7.36	unknown				

† About.

Minimum discharge, 0.06 ft³/s (0.002 m³/s) July 29, gage height, 1.26 ft (0.384 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	18				23	42	11	2.6	.92	7.7	4.9
2	.77	12				27	31	10	2.8	.70	7.3	4.5
3	.46	9.3				33	48	9.3	3.0	.64	2.8	4.3
4	.25	7.9				34	34	8.7	2.6	.52	1.3	4.5
5	.17	6.7				86	38	9.5	2.3	.40	.92	3.8
6	.12	6.2				92	29	9.3	2.3	.64	1.2	3.7
7	.12	5.8				92	21	7.7	2.4	5.3	4.0	3.4
8	.14	5.3				140	23	6.7	2.2	7.5	10	3.1
9	1.6	4.8				160	18	6.5	2.3	4.8	33	2.9
10	21	4.8				230	16	6.0	2.5	2.2	14	2.6
11	12	5.3				220	14	5.5	2.5	1.4	13	2.5
12	6.7	5.1				200	11	4.9	2.2	1.3	9.3	2.5
13	4.8	4.6				240	9.7	4.8	2.0	1.5	8.5	4.0
14	4.5	4.6				210	8.5	4.8	1.9	1.4	7.5	12
15	4.3	4.3				149	7.3	4.5	1.7	1.1	19	12
16	3.2	4.0				115	6.5	4.3	1.4	.92	8.5	13
17	2.5	4.0				83	6.0	4.3	1.0	1.4	40	28
18	2.2	4.0				59	5.8	3.7	1.1	1.1	29	25
19	1.9	3.8				46	6.2	3.8	1.3	.77	12	44
20	2.9	3.7				42	5.8	3.5	1.0	.64	7.9	76
21	10	3.5				59	5.3	3.2	.77	.77	6.0	62
22	12	4.0				83	6.0	2.9	.64	.46	25	35
23	7.7	3.7				60	32	2.9	.58	.25	31	24
24	6.7	2.6				56	94	2.9	.52	.17	29	23
25	8.3	2.5				45	94	3.4	.52	.14	34	186
26	10	2.9				38	79	3.0	.84	.10	17	191
27	8.3	3.7				58	48	2.6	.92	.10	11	215
28	6.7	3.7				107	30	2.3	.64	.08	8.5	139
29	5.6	3.4				110	19	1.9	.84	.12	6.7	91
30	5.1	2.9				75	14	1.9	1.3	9.3	5.8	65
31	8.5	---				56	---	2.3	---	4.9	5.5	---
TOTAL	159.83	157.1				3048	802.1	158.1	48.67	51.54	416.42	1287.7
MEAN	5.16	5.24				98.3	26.7	5.10	1.62	1.66	13.4	42.9
MAX	21	18				240	94	11	3.0	9.3	40	215
MIN	.12	2.5				23	5.3	1.9	.52	.08	.92	2.5
CFSM	.24	.24				4.49	1.22	.23	.07	.08	.61	1.96
IN.	.27	.27				5.18	1.36	.27	.08	.09	.71	2.19

431607077385301 (042202528) LAKE ONTARIO NEAR ROCHESTER, NY

LOCATION.--Lat 43°16'07", long 77°38'53", Monroe County, Hydrologic Unit 04150200, at Shoremont filtration plant on Dewey Avenue, Rochester.

PERIOD OF RECORD.--June 1975 to current year.

REMARKS.--Samples are collected from raw-water tap in filtration plant laboratory. Analyses are available in the files of the Geological Survey of treated-water samples collected at the Shoremont filtration plant and also at the Mount Read booster pump station which is located 1,500 ft (457 m) northeast.

WATER QUALITY DATA, JUNE 1975 TO SEPTEMBER 1977

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
JUN , 1975											
10...	0900	332	6.4	19.0	130	36	38	8.0	12	1.3	114
SEP											
16...	0800	--	--	--	140	42	44	7.0	17	1.6	118
NOV											
18...	0800	332	7.6	12.5	140	42	43	8.7	13	1.6	123
MAR , 1976											
29...	0800	328	7.6	7.0	130	43	40	8.4	12	1.3	112
JUN											
15...	0800	350	8.0	12.5	130	38	39	8.3	15	1.5	114
SEP											
21...	0800	322	7.8	18.0	130	36	37	8.3	14	1.5	111
MAR , 1977											
29...	0830	405	7.0	6.0	150	65	47	8.8	18	1.7	108
JUN											
28...	0830	340	7.6	17.0	140	47	41	8.5	15	1.4	110
SEP											
20...	0830	345	7.2	17.0	130	40	39	7.9	15	2.0	110

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLJO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)
JUN , 1975											
10...	0	94	27	25	--	.2	201	168	--	.24	.01
SEP											
16...	0	97	30	31	.1	.4	230	189	2	.18	.03
NOV											
18...	0	101	27	27	.1	.1	167	181	1	.18	.02
MAR , 1976											
29...	0	92	29	25	.2	.5	172	172	3	.40	.03
JUN											
15...	0	94	26	28	.2	.2	211	174	<1	.28	.04
SEP											
21...	0	91	28	28	.1	.2	190	174	2	.13	.01
MAR , 1977											
29...	0	89	37	36	.1	1.0	162	203	7	.49	.05
JUN											
28...	0	90	25	26	.1	.1	201	171	3	--	--
SEP											
20...	0	90	29	28	.1	.9	207	176	21	--	--

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
JUN , 1975											
10...	.08	.09	.33	.02	60	1	0	0	10	0	20
SEP											
16...	.32	.35	.53	.03	130	0	0	0	10	0	10
NOV											
18...	.16	.18	.36	.02	50	1	0	0	0	1	20
MAR , 1976											
29...	.22	.25	.65	.02	110	0	0	0	0	0	10
JUN											
15...	.16	.20	.48	.02	30	0	100	0	<10	0	10
SEP											
21...	.24	.25	.38	.03	260	2	0	1	10	1	10
MAR , 1977											
29...	.35	.40	.89	.03	200	1	0	1	<10	0	0
JUN											
28...	--	--	--	--	60	3	0	0	<10	0	8
SEP											
20...	--	--	--	--	820	1	0	0	<10	0	9

LAKE ONTARIO

431607077385301 (042202528) LAKE ONTARIO NEAR ROCHESTER, NY--Continued

WATER QUALITY DATA, JUNE 1975 TO SEPTEMBER 1977

DATE	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB- DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON- TIUM (SR) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JUN , 1975											
10...	70	4	0	10	<.5	1	1	0	0	150	20
SEP											
16...	80	4	0	0	<.5	1	12	0	0	180	10
NOV											
18...	70	2	10	10	<.5	1	2	0	0	150	10
MAR , 1976											
29...	190	0	0	10	<.5	1	5	5	0	150	10
JUN											
15...	0	3	0	0	<.5	1	1	0	0	160	10
SEP											
21...	50	7	0	100	<.5	0	5	0	0	170	10
MAR , 1977											
29...	410	10	0	10	<.5	2	5	0	0	300	10
JUN											
28...	0	2	0	10	.0	2	6	0	0	190	10
SEP											
20...	1400	6	0	40	.0	0	7	0	0	150	10

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	TOTAL PCB (UG/L)	POLY- CHLO- RIVATED NAPH- THA- LENES (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)
JUN , 1975									
10...	3.5	.01	.00	.0	.00	.00	.0	.00	.00
SEP									
16...	6.6	.01	.00	.0	--	.00	.0	.00	.00
NOV									
18...	1.8	.01	.00	.0	--	.00	.0	.00	.00
MAR , 1976									
29...	3.8	.00	.00	.0	.00	.00	.0	.00	.00
JUN									
15...	3.1	.00	.00	.0	.00	.00	.0	.00	.00
SEP									
21...	.4	2.0	.00	.0	.00	.00	.0	.00	.00
MAR , 1977									
29...	--	.00	.00	.0	.00	.00	.0	.00	.00
JUN									
28...	5.1	--	--	.0	.00	.00	.0	.00	.00

DATE	TOTAL DDT (UG/L)	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDO- SULFAN (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL TRI- THION (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)
JUN , 1975									
10...	.00	.00	.00	--	.00	.00	.00	.00	.00
SEP									
16...	.00	.00	.00	--	.00	.00	.00	.00	.00
NOV									
18...	.00	.00	.00	--	.00	.00	.00	.00	.00
MAR , 1976									
29...	.00	.00	.00	--	.00	.00	.00	.00	.00
JUN									
15...	.00	.00	.00	--	.00	.00	.00	.00	.00
SEP									
21...	.00	.00	.00	--	.00	.00	.00	.00	.00
MAR , 1977									
29...	.00	.00	.00	--	.00	.00	.00	.00	.00
JUN									
28...	.00	.01	.00	.00	.00	.00	.00	.00	.00

LAKE ONTARIO

295

431607077385301 (042202528) LAKE ONTARIO NEAR ROCHESTER, NY--Continued

WATER QUALITY DATA, JUNE 1975 TO SEPTEMBER 1977

DATE	TOTAL LINDANE (UG/L)	TOTAL MALA- THION (UG/L)	TOTAL METH- OXY- CHLOR (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL MIREX (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JUN • 1975									
10...	.00	.00	.00	.00	.00	--	.02	.00	.00
SEP									
16...	.00	.00	.00	.00	.00	--	--	--	--
NOV									
18...	.00	.00	.00	.00	.00	--	.00	.00	.00
MAR • 1976									
29...	.00	.00	.00	.00	.00	--	.00	.00	.00
JUN									
15...	.01	.00	.00	.00	.00	--	.00	.00	.00
SEP									
21...	.00	.00	.00	.00	.00	--	.00	.00	.00
MAR • 1977									
29...	.00	.00	.00	.00	.00	--	.00	.00	.00
JUN									
28...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED STRON- TIUM 90 (PC/L)
SEP • 1975								
16...	<1.7	<.4	5.1	<.4	4.1	<.4	.05	.8
NOV								
18...	3.3	<.4	5.5	.5	4.5	.4	.05	.6
MAR • 1976								
29...	<2.7	<.4	<4.0	<.4	3.3	<.4	.05	--
JUN								
15...	<2.5	<.4	4.0	<.4	3.2	<.4	<.01	1.4
SEP								
21...	<2.4	.5	3.0	1.4	2.6	1.3	.05	1.0
MAR • 1977								
29...	<3.5	.4	4.6	1.0	3.7	.9	.09	.7
JUN								
28...	<3.2	<.4	4.9	<.4	4.0	<.4	.11	.8
SEP								
20...	<2.0	1.4	4.4	1.3	3.5	1.1	.06	<.4

STREAMS TRIBUTARY TO LAKE ONTARIO

04221000 GENESEE RIVER AT WELLSVILLE, NY

LOCATION.--Lat 42°07'20", long 77°57'27", Allegany County, Hydrologic Unit 04130002, on left bank 35 ft (11 m) upstream from concrete weir at Wellsville, 0.5 mi (0.8 km) upstream from bridge on State Highway 17, 0.6 mi (1.0 km) upstream from Crowner Brook and sewage treatment plant, and 0.6 mi (1.0 km) downstream from Dyke Creek. Water-quality sampling site at bridge on State Highway 17.

DRAINAGE AREA.--289 mi² (749 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1955 to September 1958, October 1972 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,470.00 ft (448.056 m) above mean sea level. October 1957 to September 1958, nonrecording gage at site 0.4 mi (0.6 km) upstream at datum 3.00 ft (0.91 m) higher. August 1955 to September 1957, at same site at datum 8.00 ft (2.438 m) higher.

REMARKS.--Records good except those for winter periods, which are fair. Record for station 04221500 Genesee River at Scio, 5.2 mi (8.4 km) downstream, published for June 1916 to September 1972.

AVERAGE DISCHARGE.--8 years (1955-58, 1972-77), 432 ft³/s (12.23 m³/s), 20.30 in/yr (516 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s (447 m³/s) Mar. 8, 1956, gage height, 12.65 ft (3.856 m) site and datum then in use, from graph based on gage readings; minimum daily, 18 ft³/s (0.51 m³/s) Sept. 9, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since before June 1916, 38,500 ft³/s (1,090 m³/s) June 23, 1972, gage height, 20.7 ft (6.31 m) present datum, from floodmark, on basis of contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft³/s (102 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1900	4,580 130	8.64 2.633	Sept. 14	0600	*8,020 227	*10.50 3.200
Mar. 13	0900	4,610 131	8.66 2.640	Sept. 18	2400	3,750 106	8.10 2.469
July 8	0130	7,320 207	10.16 3.097	Sept. 25	0700	7,460 211	10.23 3.118

Minimum discharge, 47 ft³/s (1.33 m³/s) Oct. 5, 6, 7, gage height, 4.36 ft (1.329 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	619	240	200	84	1010	1210	263	107	246	315	244
2	58	468	200	210	94	748	1290	252	104	200	245	503
3	55	439	160	200	100	639	1590	237	97	169	182	297
4	52	401	200	230	110	1040	1060	237	88	158	165	236
5	50	361	210	240	110	1770	1090	629	82	143	245	206
6	48	331	210	220	100	1000	879	898	97	385	1070	197
7	50	308	310	190	94	765	749	512	136	3070	1420	172
8	345	287	300	150	86	672	679	411	97	5070	1030	162
9	2070	258	240	190	94	428	560	451	110	1730	676	154
10	1740	259	250	190	110	1240	512	474	234	997	520	144
11	702	253	300	170	120	1290	465	383	128	817	435	131
12	507	214	280	150	165	1350	410	320	104	1130	724	119
13	413	215	240	140	273	3250	374	291	94	742	448	185
14	604	205	210	130	312	1920	344	267	91	527	625	5240
15	491	191	230	130	216	1280	311	235	107	422	541	1380
16	363	174	220	110	140	1010	286	209	91	455	385	1750
17	312	172	190	100	160	785	262	189	82	467	639	1620
18	281	180	180	98	160	703	242	178	90	431	409	1680
19	250	183	180	100	150	630	232	174	140	353	315	2390
20	276	185	437	120	120	557	223	152	120	352	275	2900
21	1890	176	540	120	110	512	201	135	94	253	238	1520
22	790	165	310	110	120	589	187	128	82	213	498	1140
23	671	156	320	98	140	592	364	138	71	182	293	910
24	826	149	290	100	680	508	969	388	65	164	287	901
25	1090	144	290	100	2200	427	551	275	130	334	248	5150
26	729	182	280	100	1330	419	463	196	780	237	200	2810
27	568	308	230	90	1680	548	410	161	234	165	179	2100
28	477	260	220	86	1880	1640	364	140	190	145	165	1360
29	429	244	200	74	---	2170	325	128	605	132	189	1040
30	383	170	170	78	---	1470	291	117	328	410	512	837
31	838	---	190	84	---	1920	---	114	---	235	234	---
TOTAL	17420	7657	7827	4318	10938	33287	16893	8683	4778	20334	13707	37378
MEAN	562	255	252	139	391	1074	563	280	159	656	442	1246
MAX	2070	619	540	240	2200	3250	1590	898	780	5070	1420	5240
MIN	48	144	160	74	84	419	187	114	65	132	165	119
CFSM	1.94	.88	.87	.48	1.35	3.72	1.95	.97	.55	2.27	1.53	4.31
IN.	2.24	.99	1.01	.56	1.41	4.28	2.17	1.12	.62	2.62	1.76	4.81

CAL YR 1976	TOTAL	147971	MEAN 404	MAX 6910	MIN 44	CFSM 1.40	IN 19.05
WTR YR 1977	TOTAL	183220	MEAN 502	MAX 5240	MIN 48	CFSM 1.74	IN 23.58

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD. --

REMARKS.--Additional water-quality data available from New York State Department of Environmental Conservation.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,280 mg/L June 5, 1975; minimum daily mean, 0 mg/L Apr. 2, 1975.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 15,200 tons (13,800 Mg) Feb. 17, 1976; minimum daily, 0 ton (0 Mg) Apr. 2, 1975.

EXTREMES FOR CURRENT YEAR. - -

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 548 mg/L Oct. 9; minimum daily mean, 2 mg/L Jan. 6, 9, 14, 26, 27, May 9-11, June 5.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 8,170 tons (7,410 Mg) Sept. 14; minimum daily, 0.44 ton (.40 Mg) June 5.

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. & FINER THAN .062 MM	DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. & FINER THAN .062 MM
UCT						JUL					
09...	1300	1980	950	5080	79	07...	0900	2210	244	1460	82
09...	1445	3070	1300	10800	70	07...	1145	2460	497	3840	87
09...	1645	3730	1270	12800	65	07...	1515	3500	478	4650	98
09...	1654	4250	1230	14100	68	08...	1300	5440	342	5020	68
09...	1700	4250	1190	13700	69	08...	1450	4770	307	3950	79
09...	1900	4580	889	11000	65	08...	1630	4000	188	2030	74
10...	1315	1320	41	146	90	AUG					
21...	1015	2170	106	621	84	06...	1100	1430	337	1300	81
MAR						07...	1600	1650	96	428	74
13...	1645	3400	314	2880	66	SEP					
14...	1600	1710	45	208	75	14...	0800	7510	708	14500	73
MAY						14...	1130	5580	394	5940	74
06...	1630	1040	470	1320	97	14...	1320	4750	325	4170	73
24...	0830	469	292	370	100	22...	1630	1090	36	106	69
24...	1040	356	159	157	99	25...	1240	5920	368	5880	68
JUN						25...	1630	4570	199	2510	84
29...	0830	599	787	1270	65						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SJS- PENDE- D SEI- MENT (MG/L)	SUS- PENDE- D SEI- MENT CHARGE (T/DAY)	SUS- SED. FALL DIAM. % FINER THAN .002 MM	SUS- SED. FALL DIAM. % FINER THAN .004 MM	SUS- SED. FALL DIAM. % FINER THAN .008 MM	
OCT 09...	1645	3730	1270	12800	14	14	26	
SEP 25...	1630	4670	199	2510	--	--	--	
DATE		SUS- SED. FALL DIAM. % FINER THAN .016 MM	SUS- SED. FALL DIAM. % FINER THAN .031 MM	SUS- SED. FALL DIAM. % FINER THAN .062 MM	SUS- SED. FALL DIAM. % FINER THAN .125 MM	SUS- SED. FALL DIAM. % FINER THAN .250 MM	SUS- SED. FALL DIAM. % FINER THAN .500 MM	SUS- SED. FALL DIAM. % FINER THAN 1.00 MM
OCT 09...	35		49	65	88	99	100	--
SEP 25...	--	--		84	92	97	99	100

STREAMS TRIBUTARY TO LAKE ONTARIO

04221000 GENESEE RIVER AT WELLSVILLE, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	16	2.7	36	60	15	9.7	3	1.6	4	0.91	37	101
2	14	2.2	31	39	18	9.7	3	1.7	5	1.3	25	50
3	16	2.4	50	59	13	5.6	3	1.6	5	1.4	15	26
4	26	3.7	17	18	5	2.7	3	1.9	3	0.89	59	271
5	16	2.2	24	23	5	2.8	4	2.6	5	1.5	57	272
6	19	2.5	9	8.0	17	9.6	2	1.2	3	0.81	25	67
7	21	2.8	4	3.3	22	18	3	1.5	4	1.0	20	41
8	105	124	28	22	18	15	4	1.7	4	0.93	19	34
9	548	4580	13	9.1	20	13	2	1.0	5	1.3	29	65
10	82	385	6	4.2	18	12	4	2.1	4	1.2	49	164
11	17	32	58	40	8	6.5	4	1.8	4	1.3	42	146
12	16	22	50	29	6	4.5	3	1.3	6	2.7	42	153
13	44	49	24	14	21	14	6	2.3	11	8.1	399	4050
14	60	98	17	9.4	21	12	2	0.70	10	8.4	61	316
15	12	16	38	20	7	4.3	5	1.8	6	3.5	30	104
16	7	6.9	210	99	8	4.8	5	1.5	7	2.6	19	52
17	5	4.2	150	70	6	3.1	6	1.6	7	3.0	13	28
18	17	13	155	75	6	2.9	13	3.4	6	2.6	9	17
19	40	27	185	91	5	2.4	9	2.4	6	2.4	9	15
20	22	16	50	25	34	56	6	1.9	6	1.9	8	12
21	126	848	3	1.4	16	23	5	1.6	4	1.2	5	6.9
22	10	21	20	8.9	8	6.7	11	3.3	6	1.9	9	14
23	6	11	15	6.3	6	5.2	7	1.9	6	2.3	7	11
24	19	42	19	7.6	5	3.9	4	1.1	61	211	4	5.5
25	20	59	9	3.5	3	2.3	4	1.1	120	713	8	9.2
26	13	26	15	7.4	3	2.3	2	0.54	60	215	15	17
27	13	20	18	15	4	2.5	2	0.49	103	591	20	30
28	15	19	14	9.8	4	2.4	4	0.93	89	525	77	453
29	22	25	21	14	3	1.6	4	0.80	---	---	63	369
30	14	14	13	6.0	3	1.4	6	1.3	---	---	38	151
31	43	97	---	---	4	2.1	9	2.0	---	---	104	570
TOTAL	---	6573.6	---	797.9	---	262.0	---	50.66	---	2308.14	---	7620.6
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	33	108	11	7.8	10	2.9	20	13	16	14	21	14
2	47	164	13	8.8	11	3.1	22	12	8	5.3	45	61
3	46	197	15	9.6	20	5.2	8	3.7	6	2.9	16	13
4	18	52	11	7.0	11	2.6	9	3.8	5	2.2	13	8.3
5	17	50	31	53	2	0.44	10	3.9	12	7.9	16	8.9
6	11	26	351	1010	8	2.1	142	515	230	832	14	7.4
7	10	20	44	61	14	5.1	439	3770	138	584	15	7.0
8	10	18	8	8.9	3	0.79	428	6900	80	222	19	8.3
9	9	14	2	2.4	9	2.7	52	243	10	18	17	7.1
10	8	11	2	2.6	15	9.5	30	81	6	8.4	14	5.4
11	8	10	2	2.1	7	2.4	28	62	7	8.2	13	4.6
12	7	7.7	3	2.6	7	2.0	43	131	7	14	13	4.2
13	6	6.1	8	6.3	16	4.1	19	38	6	7.3	27	13
14	10	9.3	6	4.3	19	4.7	20	28	25	59	460	8170
15	12	10	4	2.5	18	5.2	9	10	12	18	50	186
16	11	8.5	4	2.3	16	3.9	18	22	6	6.2	208	1230
17	9	6.4	4	2.0	14	3.1	19	24	29	58	120	525
18	8	5.2	6	2.9	14	3.4	28	33	14	15	146	929
19	15	9.4	13	6.1	18	6.8	15	14	12	10	272	2070
20	17	10	10	4.1	9	2.9	14	13	7	5.2	289	2390
21	6	3.3	5	1.8	13	3.3	9	6.1	8	5.1	38	156
22	10	5.0	4	1.4	6	1.3	11	6.3	20	27	17	52
23	19	19	8	3.0	6	1.2	8	3.9	6	4.7	12	29
24	44	115	164	248	6	1.1	7	3.1	10	7.7	15	36
25	14	21	17	13	29	10	27	35	15	10	352	5990
26	7	8.8	10	5.3	220	555	11	7.0	13	7.0	78	592
27	9	10	8	3.5	44	28	6	2.7	14	6.8	39	221
28	10	9.8	11	4.2	21	11	6	2.3	17	7.6	17	62
29	9	7.9	12	4.1	93	157	4	1.4	14	7.1	16	45
30	10	7.9	15	4.7	28	25	31	43	43	59	11	25
31	---	---	13	4.0	---	---	15	9.5	15	9.5	---	---
TOTAL	---	950.3	---	1499.3	---	865.83	---	12040.7	---	2049.1	---	22870.2

STREAMS TRIBUTARY TO LAKE ONTARIO

299

04221990 RUSHFORD LAKE AT CANEADEA DAM, NY

04221991 CANEADEA CREEK AT CANEADEA DAM, NY

LOCATION.--Lat 42°22'49", long 78°11'00", Allegany County, Hydrologic Unit 04130002, in control structure of Caneadea Dam at outlet of Rushford Lake, and 2.4 mi (3.9 km) upstream from mouth.

DRAINAGE AREA.--60.7 mi² (157 km²).

PERIOD OF RECORD.--October 1968 to current year. July 1928 to current year in files of Rochester Gas & Electric Corp.

GAGE.--Water-stage recorder. Elevation of gage is 1,440 ft (439 m) above mean sea level (furnished by Rochester Gas & Electric Corp.).

REMARKS.--Outflow from Rushford Lake (capacity, 1,106 mil ft³ or 31.3 hm³) used for power generation. Discharge computed by orifice and (or) weir formula. Flow regulated by gates at dam completed in 1928. Area of water surface, 0.89 mi² (2.31 km²). Daily discharge record at a site 2 miles (3.2 km) downstream is published for July 1949 to September 1968 as station 04222000 Caneadea Creek at Caneadea, NY.

AVERAGE DISCHARGE.--9 years, 96.3 ft³/s (2.73 m³/s), 21.54 in/yr (547 mm/yr), unadjusted.

MONTHEND ELEVATION, CONTENTS, AND MONTHLY DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCT. 1976 TO SEPT. 1977

04221990 RUSHFORD LAKE				04221991 CANEADEA CREEK AT CANEADEA DAM			
	* Elevation FT	Contents FT ³	Change in contents FT ³ /S	Observed discharge MEAN	† Adjusted for change in contents in Rushford Lake MEAN	CFSM	IN.
October	1,424.0	759.72	-132	272	140	2.31	2.66
November	1,392.6	306.89	-175	250	75.4	1.24	1.39
December	1,376.2	153.01	- 57.5	121	63.7	1.05	1.21
CAL YR 1976			- 9.29	126	116	1.91	26.08
January	1,383.8	218.68	+ 24.5	0	24.5	.40	.47
February	1,402.2	420.68	+ 83.5	0	83.5	1.38	1.43
March	1,437.5	1,046.13	+234	53.1	287	4.73	5.44
April	1,434.9	984.10	- 23.9	192	168	2.77	3.09
May	1,438.8	1,077.24	+ 34.8	26.8	61.5	1.01	1.17
June	1,440.6	1,120.44	+ 16.7	1.93	18.6	.31	.34
July	1,440.8	1,125.27	+ 1.81	76.4	78.2	1.29	1.48
August	1,440.2	1,110.76	- 5.42	118	113	1.86	2.14
September	1,434.9	984.10	- 48.9	264	216	3.56	3.96
WTR YR 1977			- 4.09	115	111	1.83	24.79

* Elevation at 2400 hours on last day of month.

† Adjustments by Geological Survey.

NOTE.--All figures of contents expressed in millions.

04223000 GENESEE RIVER AT PORTAGEVILLE, NY

LOCATION.--Lat 42°34'13", long 78°02'33", Wyoming County, Hydrologic Unit 04130002, on left bank at Portageville, 500 ft (152 m) downstream from bridge on State Highway 436, 800 ft (244 m) upstream from abandoned railroad bridge piers, and 0.9 mi (1.4 km) upstream from Upper Falls. Water-quality sampling site at bridge on Bailey Road, 2.3 mi (3.7 km) upstream from discharge station.

DRAINAGE AREA.--981 mi² (2,541 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1908 to current year. Prior to December 1945, published as "at St. Helena". Records published for both sites December 1945 to September 1950.

REVISED RECORDS.--WSP 264: 1908. WSP 564: 1916(M). WRD NY 1966: Drainage area. WRD NY 1972: 1950(M), 1951(M), 1956(M), 1959(M), 1964(M), 1967(M).

GAGE.--Water-stage recorder. Datum of gage is 1,080.00 ft (329.184 m) above mean sea level (levels by Corps of Engineers). Prior to Aug. 24, 1911, nonrecording gage and Aug. 24, 1911 to Sept. 30, 1946, water-stage recorder at site 8 mi (13 km) downstream at different datum. Oct. 1, 1946 to June 21, 1972, water-stage recorder at site 1,200 ft (366 m) downstream at datum 2.60 ft (0.792 m) higher (destroyed by flood of June 1972). July 12, 1972 to May 18, 1973, nonrecording gage at site 500 ft (152 m) upstream at datum 11.48 ft (3.499 m) higher.

REMARKS.--Records fair except those for winter period, which are poor. Since July 1928, some seasonal regulation by Rushford Lake. Diurnal fluctuation at low flow caused by powerplant. Monthly figures of discharge and runoff 1952 to 1966 water years adjusted for change in contents in Rushford Lake.

AVERAGE DISCHARGE.--69 years, 1,246 ft³/s (35.29 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 90,000 ft³/s (2,550 m³/s) June 23, 1972, gage height, 35.25 ft (10.744 m) site and datum then in use, from high-water mark, from rating curve extended above 25,000 ft³/s (708 m³/s) on basis of contracted-opening measurement of 71,000 ft³/s (2,010 m³/s) at highway bridge 0.4 mi (0.6 km) upstream and contracted-opening measurement of 98,200 ft³/s (2,780 m³/s) 0.7 mi (1.1 km) downstream from gage; minimum, 18 ft³/s (0.51 m³/s) Oct. 5, 17, 1913, gage height, 1.70 ft (0.518 m) site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft³/s (425 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 13	1530	18,600 527	16.61 5.063	Sept. 19	0500	20,800 589	17.34 5.285
Apr. 24	0300	17,200 487	16.10 4.907	Sept. 20	1200	*25,100 711	*18.85 5.745
Sept. 14	1600	17,400 493	16.18 4.914	Sept. 25	1400	22,900 649	18.08 5.511

Minimum discharge, 186 ft³/s (5.27 m³/s) June 24, 25, gage height, 8.74 ft (2.664 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALJES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	307	4620	1050	700	270	4880	4650	942	320	551	3740	674
2	279	2330	1200	720	260	3100	4020	866	302	438	2040	967
3	266	1660	960	740	260	2470	7110	890	278	376	806	1200
4	257	1340	781	800	260	2810	4330	794	260	355	552	846
5	580	1140	939	860	250	8000	4090	5110	240	334	930	662
6	608	980	922	720	270	4580	3470	4260	235	362	5940	583
7	594	890	839	600	290	2980	2750	2700	327	7830	6090	497
8	766	855	1700	480	320	2270	2290	1640	334	11100	5120	455
9	4280	746	1200	450	360	3330	1880	1560	278	5160	2220	409
10	8990	718	1180	430	410	7220	1710	1900	406	2660	1570	368
11	3740	757	1310	440	500	7360	1570	1560	462	1660	1350	332
12	2260	666	1490	460	620	7250	1470	1180	320	1710	1760	310
13	1680	1160	1060	440	720	14500	1300	942	266	4140	1670	324
14	1870	1130	880	400	800	9040	1030	818	240	1680	1180	10100
15	2740	1090	872	360	780	4630	916	715	215	1100	2160	5090
16	1680	1050	849	320	720	3380	806	630	230	748	1180	4070
17	1120	1010	710	300	660	2120	748	570	225	942	3190	6770
18	916	1030	586	290	680	1440	682	515	255	890	1980	7020
19	814	1100	681	290	680	1200	650	506	406	715	1100	14500
20	750	1110	653	290	680	1010	640	470	355	682	729	20700
21	6280	1060	2100	290	660	939	693	422	278	560	605	9320
22	4570	1030	1800	290	700	1400	693	376	245	438	1500	5490
23	3560	983	1500	290	880	1920	6030	348	220	376	1500	4030
24	4360	954	1200	290	1500	1370	13300	390	198	327	2200	4160
25	7060	928	1100	290	8200	862	5280	1440	320	506	1820	18600
26	4630	1180	1000	290	6400	813	3290	640	903	1100	989	11800
27	2600	3590	940	290	5250	1120	2030	454	916	498	707	8040
28	1780	2450	880	290	9000	4950	1610	376	430	356	706	4730
29	1390	1830	840	280	---	7810	1340	320	422	309	610	3600
30	1160	1180	820	280	---	5260	1100	290	866	943	1100	2830
31	4490	---	780	280	---	6060	---	278	---	1180	1090	---
TOTAL	76377	40567	32822	13250	42380	126074	81478	33902	10752	50026	58134	148477
MEAN	2464	1352	1059	427	1514	4067	2716	1094	358	1614	1875	4949
MAX	8990	4620	2100	860	9000	14500	13300	5110	916	11100	6090	20700
MIN	257	666	586	280	250	813	640	278	198	309	552	310
CFSM	2.51	1.38	1.08	.44	1.54	4.15	2.77	1.12	.36	1.65	1.91	5.04
IN.	2.90	1.54	1.24	.50	1.61	4.78	3.09	1.29	.41	1.90	2.20	5.63

CAL YR 1976 TOTAL 687253 MEAN 1878 MAX 22700 MIN 193 CFSM 1.91 IN 26.06
WTR YR 1977 TOTAL 714239 MEAN 1957 MAX 20700 MIN 198 CFSM 1.99 IN 27.08

04223000 GENESEE RIVER AT PORTAGEVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1965, 1971, 1972, 1975 to September 1977 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: April 1975 to September 1977.

REMARKS.--Operated as a suspended-sediment partial-record station in 1964 and 1965, 2.2 mi (3.5 km) downstream from present site. Unpublished miscellaneous chemical analyses for water years 1952 and 1954 are available in files of the Geological Survey. Additional water-quality data available from New York State Department of Environmental Conservation.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 5,160 mg/L May 7, 1975; minimum daily mean, 1 mg/L July 2, 1975.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 222,000 tons (201,000 Mg) Feb. 17, 1976; minimum daily, 0.96 ton (0.87 Mg) July 2, 1975.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,620 mg/L Sept. 25; minimum daily mean, 3 mg/L May 16, July 22.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 134,000 tons (122,000 Mg) Sept. 25; minimum daily, 3.5 tons (3.2 Mg) July 22.

REVISIONS.--The table of Particle-Size Distribution of Suspended Sediment published for 1976 did not contain all of the data available. Also, the values for suspended sediment and suspended-sediment discharge published in 1976 for Feb. 24 (1450 hours) have been revised to 260 (MG/L) and 2960 (T/DAY), respectively. The 1976 table has been revised and rearranged into a two-table format. These two tables are reproduced below and supersede the 1976 table previously published.

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)	SUS- SED. SIEVE DIAM. % FINE R THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)	SUS- SED. SIEVE DIAM. % FINE R THAN .062 MM
OCT						APR					
18...	1645	12200	1490	49100	88	22...	0900	2840	436	3340	95
DEC						22...	1330	3360	358	3250	93
15...	1430	13000	1897	66600	71	22...	1800	3450	222	2070	93
16...	1040	8170	499	11000	78	23...	0815	1940	70	367	95
16...	1400	7110	419	8040	79	23...	1800	1460	38	150	89
JAN						25...	1250	6480	1140	19900	80
27...	1005	12600	1540	52400	82	25...	1300	6700	1168	21100	84
27...	1500	10600	1070	30600	78	25...	1350	7980	1790	38600	86
28...	1300	5470	189	2790	88	25...	1355	8110	1770	38800	87
28...	1400	4930	248	3300	75	25...	1410	8460	1960	44800	88
28...	1430	5110	218	3010	74	25...	1415	8580	1990	46100	86
29...	1600	3640	195	1920	86	25...	1430	8890	2040	49000	86
30...	1100	3020	114	930	89	25...	1440	9120	2220	54700	83
31...	1300	2000	77	416	93	25...	1515	9870	2900	77300	74
FEB						25...	1540	10400	2690	75500	77
01...	1405	2160	170	991	89	25...	1545	10500	2880	81600	75
11...	1515	7640	1730	35700	84	25...	1600	10800	2790	81400	74
11...	1600	8140	1637	36000	71	25...	1720	11500	2170	67400	86
12...	1150	4050	244	2670	85	25...	1730	11600	2340	73300	86
12...	1300	3820	299	3080	72	25...	1740	11600	2230	69800	85
13...	1100	3060	241	1990	80	25...	1810	11500	2400	74500	80
14...	1200	4310	345	4020	76	25...	1835	11500	1920	8290	85
17...	0830	22900	4740	293000	79	25...	1845	11500	1940	60200	86
17...	1200	26000	5790	406000	76	25...	1855	11400	1750	53900	89
17...	1240	26400	4880	348000	80	25...	1110	6840	317	5850	86
17...	1350	27800	4390	330000	79	MAY					
17...	1520	28600	3630	280000	78	17...	1245	4580	396	4900	90
17...	1600	28600	3710	286000	78	17...	1455	3950	220	2350	95
17...	1700	28400	3690	283000	83	17...	1635	3470	242	2270	93
17...	1800	27600	3110	232000	80	17...	1805	3250	250	2190	94
17...	1915	26300	2600	185000	83	17...	2005	2910	209	1640	95
18...	0800	14400	1770	68800	81	JUN					
18...	1400	17800	2500	120000	77	11...	1315	428	26	30	67
18...	1435	18500	2920	146000	72	29...	2005	1010	310	845	92
18...	1515	19400	3620	190000	74	30...	0715	2620	355	2510	95
19...	0915	24700	2700	180000	82	JUL					
19...	1245	20500	1830	101000	84	01...	0710	2000	207	1120	98
22...	1000	16400	2570	114000	83	01...	1230	2170	124	727	98
24...	1450	4220	260	2960	77	12...	1330	1060	119	341	99
25...	1000	4930	201	2680	82	29...	1605	405	204	223	99
25...	1740	4530	225	2750	84	30...	0735	7440	565	11400	93
27...	0945	6460	318	5550	80	30...	0910	6790	811	14900	94
27...	1140	6280	274	4650	80	30...	1050	6070	517	8470	95
MAR						30...	1155	5740	393	6090	99
03...	1435	24400	3600	237000	73	30...	1310	5540	588	8800	91
03...	1615	25200	2810	191000	75	30...	1425	5060	427	5830	98
03...	1810	24800	1959	131000	81	30...	1530	4830	515	6720	97
04...	1205	15700	1008	42700	69	31...	0915	1110	126	378	94
04...	1600	15800	208	8870	80	AUG					
05...	1330	9540	388	9990	80	01...	1050	4410	347	4130	89
05...	1500	9410	367	9320	78	01...	1905	3450	287	2670	94
05...	1630	9360	362	9150	79	08...	1035	5540	704	10500	89
05...	1730	9280	353	8850	79	14...	2005	862	301	701	99
						15...	0955	1040	765	2150	100
						SEP					
						26...	1900	234	175	111	98

STREAMS TRIBUTARY TO LAKE ONTARIO

04223000 GENESEE RIVER AT PORTAGEVILLE, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SJS- PENVED SEDI- MENT (MG/L)	SUS- PENVED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT							
18...	1645	12200	1490	49100	26	34	48
JAN							
27...	1005	12600	1540	52400	24	31	41
27...	1500	10600	1070	30600	22	30	40
28...	1430	5110	218	3010	20	26	36
FEB							
11...	1515	7640	1730	35700	32	40	49
17...	0830	22900	4740	293000	25	27	34
17...	1200	26000	5790	406000	24	24	33
17...	1240	26400	4880	348000	25	29	37
17...	1350	27800	4390	330000	24	29	36
17...	1520	28600	3630	280000	18	24	35
17...	1600	28600	3710	286000	22	32	41
17...	1700	28400	3690	283000	42	48	52
17...	1800	27600	3110	232000	--	--	--
17...	1915	26300	2600	185000	20	31	39
18...	0800	14400	1770	68800	19	25	36
18...	1400	17800	2500	120000	17	24	32
18...	1435	18500	2920	146000	--	--	--
18...	1515	19400	3620	190000	16	21	29
19...	0915	24700	2700	180000	21	29	39
19...	1245	20500	1830	101000	21	28	39
22...	1000	16400	2570	114000	20	26	37
MAR							
03...	1435	24400	3600	237000	17	23	32
03...	1615	25200	2810	191000	14	21	30
04...	1600	15800	208	8670	23	30	39
APR							
22...	1330	3360	358	3250	42	51	60
25...	1250	6480	1140	19900	34	35	40
25...	1350	7980	1790	38600	28	31	42
25...	1355	8110	1770	38800	--	--	--
25...	1410	8460	1960	44800	24	33	44
25...	1415	8580	1990	46100	--	--	--
25...	1430	8890	2040	49000	--	--	--
25...	1440	9120	2220	54700	--	--	--
25...	1515	9870	2900	77100	--	--	--
25...	1540	10400	2690	75500	--	--	--
25...	1545	10500	2880	81600	--	--	--
25...	1600	10800	2790	81400	--	--	--
25...	1720	11500	2170	67400	--	--	--
25...	1730	11600	2340	73300	23	30	42
25...	1740	11600	2230	69800	--	--	--
25...	1810	11500	2400	74500	--	--	--
25...	1835	11500	1920	8290	--	--	--
25...	1845	11500	1940	60200	24	31	42
25...	1855	11400	1750	53900	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

303

04223000 GENESEE RIVER AT PORTAGEVILLE, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
OCT						
18...	61	77	88	98	100	--
JAN						
27...	53	65	82	95	99	100
27...	51	63	78	93	99	100
28...	47	60	74	86	91	100
FEB						
11...	60	73	84	93	98	--
17...	47	63	79	93	98	100
17...	46	61	75	90	96	100
17...	52	66	80	92	98	--
17...	50	66	79	90	97	--
17...	49	62	78	90	98	100
17...	53	65	78	90	97	--
17...	64	75	83	93	98	--
17...	--	--	80	91	97	100
17...	54	69	83	94	98	100
18...	48	62	81	94	100	--
18...	44	57	77	92	99	100
18...	--	--	72	90	98	100
18...	40	53	74	90	98	100
19...	52	66	82	93	98	100
19...	51	67	84	96	99	100
22...	49	64	83	96	100	--
MAR						
03...	44	57	73	90	78	100
03...	43	55	75	90	98	100
04...	53	67	80	94	100	--
APR						
22...	73	83	93	98	100	--
25...	54	67	80	90	97	100
25...	59	72	86	95	99	--
25...	--	--	87	97	100	--
25...	58	72	88	96	100	--
25...	--	--	86	96	100	--
25...	--	--	86	96	100	--
25...	--	--	83	94	99	100
25...	--	--	74	90	98	100
25...	--	--	77	90	98	100
25...	--	--	75	90	98	100
25...	--	--	74	88	96	100
25...	--	--	85	96	100	--
25...	55	68	86	96	99	100
25...	--	--	85	96	97	100
25...	--	--	80	94	99	100
25...	--	--	85	96	100	--
25...	57	70	86	96	100	--
25...	--	--	89	97	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04223000 GENESEE RIVER AT PORTAGEVILLE, NY--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						MAY					
09...	1445	2910	234	2310	95	05...	0905	6480	939	16400	83
09...	1545	3660	416	3120	95	05...	1805	5130	28	388	96
09...	1635	4290	1040	12000	94	06...	1800	5540	527	7880	91
09...	1645	4410	1180	14100	92	07...	0930	2780	206	1550	96
09...	1700	4730	1130	14400	95	24...	1600	342	353	326	99
10...	0835	10100	459	23400	85	25...	0755	1740	584	2740	99
10...	1225	8430	496	20400	89	JUN					
10...	1830	6150	488	8100	89	25...	1950	507	129	177	98
20...	0830	744	411	826	98	JUL					
20...	1805	723	764	1490	98	05...	1705	284	454	348	97
21...	1225	9020	1650	40200	87	07...	1535	7300	866	17100	94
21...	1755	7140	981	18900	79	07...	1600	7170	919	17800	94
21...	1805	7060	637	12100	92	07...	2020	6460	581	10100	95
21...	1815	7010	646	12200	92	07...	2050	6460	560	9770	90
21...	1825	6960	681	12800	91	07...	2110	6530	564	9940	90
21...	1835	6890	619	11500	94	08...	0650	13200	3850	137000	85
FEB						08...	0900	5240	3260	46100	94
26...	1405	6360	249	4280	88	08...	0920	14000	3260	123000	94
MAR						08...	1800	10400	1180	33100	93
09...	1600	2870	165	1280	87	09...	0945	5120	494	6830	95
10...	1640	6670	431	7760	84	AUG					
12...	1800	7210	3870	75300	80	01...	0940	1960	3040	16160	90
13...	0820	13500	4120	150000	87	01...	1235	8400	3550	80500	85
13...	0835	13700	3580	132000	84	01...	1845	5070	1370	18800	96
13...	1130	16000	3320	143000	83	06...	1220	7400	1760	35200	85
13...	1150	16300	3700	163000	81	06...	1730	10800	2840	82800	91
13...	1325	17900	4520	218000	83	06...	2025	9220	1480	36800	91
13...	1335	18000	3100	151000	96	07...	1035	6800	1180	21700	97
13...	1715	18500	3080	154000	83	17...	0740	3900	315	3320	93
13...	1900	18000	2920	137000	85	17...	1250	4460	327	3940	94
13...	1905	18000	2820	137000	85	17...	1730	3670	317	3140	91
14...	1800	7670	319	10700	79	18...	1345	1730	70	327	94
15...	1645	4150	227	2540	81	SEP					
15...	1830	4110	172	1910	82	14...	0830	10800	3750	109000	85
15...	1845	4090	172	1900	82	14...	1210	16100	4700	204000	90
16...	1200	3310	163	1460	84	14...	1555	17400	5150	242000	86
19...	1150	2830	180	1380	--	16...	1510	3800	251	2580	93
28...	0800	3970	437	4680	71	16...	1745	6140	398	6600	74
28...	1620	5210	361	5080	80	16...	1945	6820	630	11600	94
28...	1645	5990	401	6490	86	19...	0805	19600	1660	87800	89
29...	0820	8120	541	11900	79	19...	1150	14500	1330	52100	88
29...	1210	7650	354	7310	88	19...	1850	9380	662	16800	87
29...	1735	7050	319	6070	85	19...	1930	8930	567	13700	89
29...	1745	7050	397	7560	87	20...	0830	23700	3180	203000	87
30...	0800	5390	356	5180	83	20...	1005	24500	2290	151000	89
30...	1100	5190	206	2890	90	20...	1225	25100	2870	194000	88
30...	1705	4660	396	4980	84	20...	1320	24900	2200	148000	86
31...	1635	6800	440	8080	90	20...	1420	24400	2270	150000	83
APR						20...	1835	20000	1370	74000	89
02...	1800	4370	85	1000	88	20...	1905	19100	1510	77900	88
03...	0945	9100	766	18800	86	21...	0815	10100	545	14900	82
03...	1330	8590	1230	28500	91	21...	1445	8720	552	13000	86
03...	1340	8480	1230	28200	91	21...	1855	7020	451	8550	87
03...	1735	6950	626	11700	93	23...	1930	3630	116	1140	91
23...	1820	11100	2520	75500	96	25...	0700	17500	3190	151000	90
23...	1830	11300	2520	76900	96	25...	0940	20300	4380	240000	89
24...	1030	15200	1630	66900	80	25...	1015	20900	4440	273000	93
24...	1220	14000	1140	43100	86	25...	1145	22100	4330	258000	90
24...	1455	11600	830	26000	86	25...	1330	22800	3070	189000	86
24...	1510	10500	808	22900	78	25...	1430	22700	2610	160000	90
24...	1800	10200	622	17100	82	25...	1630	21300	1970	113000	88
25...	1030	5240	210	2970	78	25...	1900	19500	1900	100000	88
25...	1115	5190	178	2490	85	26...	0815	10800	764	22300	86
25...	1630	4680	127	1610	82	26...	1420	11400	436	25700	83
26...	1600	3060	51	421	86	27...	0830	8850	446	10700	89
						27...	1720	6630	416	7450	85
						28...	1800	4660	205	2580	93
						29...	1215	3630	175	1720	83

STREAMS TRIBUTARY TO LAKE ONTARIO

305

04223000 GENESEE RIVER AT PORTAGEVILLE, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SJS- PENDE SEDIM- MENT (MG/L)	SUS- PENDE SEDIM- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
MAR							
13...	0820	13500	4120	150000	18	24	36
13...	1150	16300	3700	163000	--	--	--
13...	1325	17900	4520	218000	24	24	35
13...	1715	18500	3080	154000	--	--	--
13...	1900	18000	2820	137000	--	--	--
15...	1845	4090	172	1900	--	--	--
28...	1645	5990	401	6490	26	35	45
29...	1745	7050	397	7560	25	35	46
30...	1100	5190	206	2890	--	--	--
31...	1635	6800	440	8080	29	40	50
APR							
03...	0945	9100	766	18800	27	33	43
03...	1340	8480	1230	28200	--	--	--
03...	1735	6950	626	11700	35	39	53
23...	1820	11100	2520	75500	--	--	--
24...	1030	15200	1630	66900	--	--	--
24...	1220	14000	1140	43100	21	29	40
24...	1455	11600	830	26000	--	--	--
24...	1800	10200	622	17100	27	29	38
JUL							
07...	1535	7300	866	17100	35	47	60
07...	2050	6460	560	9770	--	--	--
08...	0900	5240	3260	46100	32	42	56
08...	1800	10400	1180	33100	--	--	--
AUG							
01...	0940	1960	3040	16100	--	--	--
01...	1235	8400	3550	80500	19	26	37
01...	1845	5070	1370	18800	--	--	--
06...	1220	7400	1760	35200	--	--	--
06...	1730	10800	2840	82800	28	39	53
06...	2025	9220	1480	36800	--	--	--
07...	1035	6800	1180	21700	41	44	64
SEP							
14...	0830	10800	3750	109000	--	36	54
14...	1210	16100	4700	204000	--	38	52
16...	1745	6140	398	6600	--	29	38
19...	0805	19600	1660	87800	--	38	52
19...	1930	8930	567	13700	--	34	47
20...	0830	23700	3180	203000	--	--	--
20...	1005	24500	2290	151000	--	36	51
20...	1225	25100	2870	194000	--	--	--
20...	1320	24900	2200	148000	--	--	--
20...	1420	24400	2270	150000	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04223000 GENESEE RIVER AT PORTAGEVILLE, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
MAR							
13...	50	66	87	97	100	--	--
13...	--	--	81	94	98	100	--
13...	49	62	83	96	99	100	--
13...	--	--	83	95	99	100	--
13...	--	--	85	96	99	100	--
15...	--	--	82	94	98	100	--
28...	57	73	86	96	99	100	--
29...	58	75	87	97	100	--	--
30...	--	--	90	97	99	100	--
31...	62	79	90	98	100	--	--
APR							
03...	54	68	86	96	99	100	--
03...	--	--	91	99	100	--	--
03...	66	78	93	99	100	--	--
23...	--	--	96	100	--	--	--
24...	--	--	80	96	100	--	--
24...	53	66	86	96	99	100	--
24...	--	--	86	97	100	--	--
24...	51	63	82	95	99	100	--
JUL							
07...	76	94	94	99	100	--	--
07...	--	--	90	97	100	--	--
08...	70	82	94	99	100	--	--
08...	--	--	93	97	98	99	100
AUG							
01...	--	--	90	98	100	--	--
01...	50	65	85	97	100	--	--
01...	--	--	96	99	100	--	--
06...	--	--	85	97	100	--	--
06...	67	78	91	98	100	--	--
06...	--	--	91	98	100	--	--
07...	75	89	97	100	--	--	--
SEP							
14...	73	79	85	96	100	--	--
14...	66	78	90	100	--	--	--
16...	51	63	74	92	100	--	--
19...	68	80	89	96	100	--	--
19...	62	73	89	98	100	--	--
20...	--	--	87	90	99	100	--
20...	65	80	89	95	100	--	--
20...	--	--	88	96	98	100	--
20...	--	--	86	94	98	100	--
20...	--	--	83	94	99	100	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
SEP												
20...	1835	20000	1370	74000	34	48	62	76	89	98	100	--
20...	1905	19100	1510	77900	--	--	--	--	88	96	99	100
25...	0700	17500	3190	151000	30	43	59	77	90	97	100	--
25...	0940	20300	4380	240000	--	--	--	--	89	97	99	100
25...	1015	20900	4840	273000	39	55	71	84	93	98	100	--
25...	1145	22100	4330	258000	--	--	--	--	90	97	99	100
25...	1330	22800	3070	189000	--	--	--	--	86	97	99	100
25...	1430	22700	2610	160000	--	--	--	--	90	98	99	100
25...	1630	21300	1970	113000	--	--	--	--	88	97	99	100
25...	1900	19500	1900	100000	--	--	--	--	88	96	99	100
26...	1420	11400	836	25700	30	42	55	68	83	97	100	--
27...	1720	6630	416	7450	--	--	--	--	85	94	96	100
28...	1800	4660	205	2580	--	--	--	--	93	98	100	--

STREAMS TRIBUTARY TO LAKE ONTARIO

307

04223000 GENESEE RIVER AT PORTAGEVILLE, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	16	13	199	2980	25	71	7	13	9	6.6	275	3620
2	15	11	22	138	30	97	8	16	11	7.7	200	1670
3	14	10	8	36	17	44	11	22	9	6.3	159	1060
4	34	24	5	18	9	19	12	26	7	4.9	240	1820
5	52	81	6	18	8	20	13	30	7	4.7	944	21800
6	26	43	17	45	10	25	13	25	7	5.1	315	3900
7	24	38	21	50	9	20	13	21	7	5.5	135	1090
8	48	168	14	32	11	50	12	16	8	6.9	65	398
9	881	19600	9	18	9	29	13	16	7	6.8	231	2510
10	1040	30200	16	31	8	25	12	14	9	10	772	15300
11	150	1510	10	20	11	39	12	14	12	16	720	14700
12	69	421	11	20	8	32	12	15	11	18	692	13800
13	38	172	22	69	8	23	14	17	14	27	1610	65900
14	53	268	7	21	8	19	14	15	26	56	780	19000
15	67	496	11	32	9	21	14	14	56	118	250	3130
16	26	118	13	37	10	23	14	12	45	87	155	1410
17	14	42	12	33	10	19	14	11	25	45	70	401
18	12	30	6	17	9	14	16	13	19	35	52	202
19	13	29	10	30	8	15	15	12	16	29	43	139
20	13	26	8	24	8	14	14	11	13	24	41	112
21	865	18800	9	26	35	198	14	11	12	21	47	119
22	95	1170	29	81	15	73	13	10	11	21	85	321
23	75	721	9	24	13	53	12	9.4	11	26	75	389
24	148	1740	4	10	14	45	12	9.4	30	121	32	118
25	270	5390	14	35	13	39	11	8.6	581	13500	34	79
26	42	525	122	389	13	35	11	8.6	270	4670	33	72
27	32	225	156	1510	13	33	9	7.0	195	2760	60	181
28	42	202	34	225	12	29	8	6.3	746	19300	503	7520
29	48	180	38	188	11	25	9	6.8	---	---	538	11900
30	49	153	22	70	10	22	7	5.3	---	---	190	2700
31	338	6690	---	---	9	19	7	5.3	---	---	370	6050
TOTAL	---	89096	---	6227	---	1190	---	420.7	---	40938.5	---	201411
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	78	979	11	28	22	19	37	55	1490	21700	18	33
2	155	1680	12	28	13	11	27	32	572	3820	26	68
3	612	12900	16	38	14	11	29	29	39	85	27	87
4	58	678	10	21	13	9.1	21	20	16	24	22	50
5	34	375	437	7070	18	12	19	17	86	564	18	32
6	23	215	255	2930	13	8.2	344	508	1300	33000	7	11
7	17	126	185	1350	12	11	2100	49300	1200	21200	11	15
8	23	142	45	199	8	7.2	2010	63900	327	5180	21	26
9	23	117	19	80	17	13	250	3480	132	791	12	13
10	24	111	18	92	16	18	61	438	64	271	11	11
11	23	97	25	105	21	26	58	260	51	186	8	7.2
12	19	75	18	57	14	12	220	1020	161	835	9	7.5
13	20	70	10	25	11	7.9	651	9040	69	311	16	14
14	10	28	12	27	9	5.8	75	340	29	92	2120	80800
15	16	40	11	21	16	9.3	37	110	58	338	536	8850
16	27	59	3	5.1	11	6.8	23	46	33	105	293	4160
17	17	34	8	12	7	4.3	48	122	253	2570	509	10100
18	11	20	10	14	6	4.1	42	101	88	470	347	10700
19	9	16	9	12	13	14	15	29	29	86	1290	58000
20	8	14	8	10	11	11	18	33	43	85	1870	112000
21	16	30	12	14	19	14	10	15	50	82	630	15900
22	6	11	15	15	25	17	3	3.5	106	473	242	3590
23	1490	42200	18	17	19	11	5	5.1	72	292	118	1280
24	1820	75500	38	40	16	8.6	7	6.2	89	529	403	6600
25	225	3210	384	1760	104	90	93	205	47	231	2620	134000
26	45	400	17	29	83	202	177	526	24	64	780	24900
27	22	121	10	12	72	178	38	51	18	34	438	9510
28	12	52	13	13	45	52	15	14	15	29	215	2750
29	11	40	34	29	43	49	18	15	17	28	174	1690
30	11	33	15	12	48	112	69	245	39	116	91	695
31	---	---	13	9.8	---	---	82	261	22	65	---	---
TOTAL	---	139373	---	14074.9	---	954.3	---	130226.8	---	93656	---	485899.7

STREAMS TRIBUTARY TO LAKE ONTARIO

04224000 MOUNT MORRIS LAKE NEAR MOUNT MORRIS, NY

LOCATION.--Lat 42°44'00", long 77°54'40", Livingston County, Hydrologic Unit 04130002, at Mount Morris Dam on Genesee River, 2.0 mi (3.2 km) northwest of Mount Morris, 5 mi (8 km) upstream from Canaseraga Creek, and 40 mi (64 km) upstream from mouth.

DRAINAGE AREA.--1,075 mi² (2,784 km²).

PERIOD OF RECORD.--January 1952 to current year. Prior to October 1970, published as "Mount Morris Reservoir near Mount Morris."

REVISED RECORDS.--WSP 1437: 1955. WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Apr. 8, 1952, reference point at same site and datum.

REMARKS.--Lake is formed by a concrete gravity-type dam with overflow spillway, completed by Corps of Engineers in 1951 for flood control; first used for flood regulation on Nov. 24, 1951. Usable capacity, 336,800 acre-ft (415 hm³) between elevation 585.0 ft (178.31 m), sill of conduits, and 760.0 ft (231.65 m), crest of spillway. Dead storage, 609 acre-ft (751,000 m³). Discharge is controlled by the operation of nine gates. Water is stored during high flows and released when downstream conditions warrant.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 755.46 ft (230.264 m) June 25, 1972, contents, 322,600 acre-ft (398 hm³); minimum, 584.23 ft (178.073 m) Sept. 2, 1976, contents, 475.8 acre-ft (587,000 m³).

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 695.27 ft (211.918 m) Sept. 28, contents, 154,900 acre-ft (191 hm³); minimum, 586.08 ft (178.637 m) Oct. 5, contents, 799.3 acre-ft (986,000 m³).

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Furnished by Corps of Engineers in 1953)

584.00	436	600.00	5,610	640.00	43,700
586.00	782	605.00	8,250	660.00	78,200
588.00	1,210	610.00	11,600	680.00	119,800
590.00	1,730	620.00	19,800	700.00	166,300
595.00	3,410	630.00	30,500	730.00	245,200
				750.00	305,100

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL. WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	604.16	613.05	589.23	594.68	590.40	645.09	650.33	622.26	587.26	588.40	592.91	589.86
2	602.28	611.53	589.14	593.03	590.45	646.83	646.30	615.06	587.28	588.37	592.26	589.79
3	599.74	605.68	592.56	593.34	590.57	646.71	645.59	609.84	587.27	587.82	589.77	589.74
4	593.30	596.41	596.34	593.95	590.65	646.35	646.76	597.41	587.18	587.46	591.42	589.69
5	587.47	593.50	597.90	593.74	590.76	649.79	647.86	602.64	587.08	587.05	598.39	589.63
6	587.17	592.77	599.27	593.63	590.77	652.73	646.41	618.63	586.97	587.30	605.44	589.55
7	587.25	592.29	600.15	593.68	590.92	652.32	642.51	621.34	586.90	603.00	615.76	589.47
8	587.33	592.05	602.25	593.29	590.96	650.28	639.50	620.11	586.93	622.08	613.33	589.38
9	591.21	596.71	604.62	592.93	591.07	648.08	637.85	617.62	586.97	629.51	603.86	589.29
10	619.26	603.48	604.86	592.74	591.16	648.60	636.12	615.55	587.00	624.34	590.55	589.19
11	625.65	594.75	605.99	592.26	591.34	651.32	634.63	613.54	587.22	616.77	590.22	589.07
12	624.90	590.32	607.84	591.75	592.08	653.44	634.54	610.08	587.32	607.78	590.16	588.96
13	621.30	590.94	608.95	591.36	593.21	655.48	634.41	605.30	587.29	605.68	590.32	588.96
14	614.49	590.71	607.78	591.57	594.24	669.41	633.93	597.81	587.24	603.92	589.69	600.77
15	606.84	589.65	606.40	592.01	595.83	670.93	633.46	593.35	587.18	596.50	589.97	616.48
16	599.81	589.22	605.90	592.24	599.02	668.19	633.61	589.78	587.12	592.64	592.24	610.98
17	589.98	589.15	605.37	591.84	597.76	663.89	633.72	588.09	587.06	590.46	593.51	618.01
18	589.01	589.09	604.53	591.47	594.54	658.26	633.73	587.75	587.02	589.36	592.26	615.13
19	588.76	589.06	602.81	591.33	594.06	652.50	633.66	587.68	587.01	589.10	590.70	630.27
20	589.11	589.04	601.14	591.44	593.97	647.77	633.54	587.48	587.05	588.58	590.54	651.98
21	600.86	589.04	603.88	591.45	594.10	643.35	633.41	587.26	587.07	588.36	590.32	667.47
22	614.76	589.02	608.44	591.57	593.64	640.77	633.31	587.10	587.02	587.87	590.37	670.53
23	613.96	589.98	608.13	591.44	593.44	640.25	635.17	587.03	586.96	587.62	591.12	668.27
24	612.40	588.93	607.67	591.37	594.08	640.44	650.43	587.00	586.87	587.60	591.27	664.46
25	617.99	588.89	607.02	591.38	605.33	640.15	657.89	589.10	586.67	587.59	592.36	673.47
26	622.12	588.86	607.05	591.45	625.00	640.23	658.76	589.01	586.99	588.74	592.02	686.53
27	618.55	591.89	607.11	591.53	631.79	640.46	655.16	588.31	589.46	588.87	591.12	693.76
28	610.34	591.13	606.23	591.22	638.80	642.30	647.91	587.92	588.67	588.75	590.47	695.00
29	601.69	590.00	605.20	590.95	---	648.45	639.15	587.61	587.99	588.07	590.14	692.88
30	593.38	589.51	603.77	590.72	---	652.02	630.61	587.43	588.00	588.22	589.98	688.38
31	598.14	---	600.90	590.46	---	651.85	---	587.31	---	589.58	589.93	---
MEAN	603.65	593.19	603.16	592.12	597.53	650.39	640.68	598.92	587.27	595.40	593.63	626.90
MAX	625.65	613.05	608.95	594.68	638.80	670.93	658.76	622.26	589.46	629.51	615.76	695.00
MIN	587.17	586.86	589.14	590.46	590.40	640.15	630.61	587.00	586.67	587.05	589.69	588.96
†	11,450	1,553	4,866	1,844	48,400	62,750	26,370	1,055	1,306	1,543	1,707	135,200
‡	+53	-166	+54	-49	+838	+233	-611	-412	+4.2	+3.8	+2.7	+2,240

CAL YR 1976 MEAN 610.51 MAX 743.52 MIN 584.27 ‡ -6.3

WTR YR 1977 MEAN 606.93 MAX 695.00 MIN 586.67 ‡ +175

† Contents, in acre-feet, at end of month.

‡ Change in contents, equivalent in cubic feet per second.

STREAMS TRIBUTARY TO LAKE ONTARIO

309

04224775 CANASERAGA CREEK ABOVE DANSVILLE, NY

LOCATION.--Lat 42°32'08", long 77°42'16", Livingston County, Hydrologic Unit 04130002, on right bank on Poags Hole Road, 0.7 mi (1.1 km) upstream from Stony Brook, and 1.7 mi (2.7 km) south of Dansville. Water-quality sampling site at discharge station.

DRAINAGE AREA.--90.0 mi² (233 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 715.60 ft (218.115 m) above mean sea level.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,870 ft³/s (81.3 m³/s) Sept. 20, 1977, gage height, 5.51 ft (1.679 m); minimum, 7.4 ft³/s (0.21 m³/s) Sept. 11, 1975; minimum gage height, 1.02 ft (0.311 m) Sept. 9, 10, 1976 (revised).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1845	1,390 39.4	3.96 1.207	July 8	0145	1,140 32.3	3.65 1.113
Oct. 21	0245	1,570 44.5	4.18 1.274	Sept. 18	2215	1,450 41.1	4.03 1.228
Feb. 25	0100	1,370 38.8	3.94 1.201	Sept. 20	0315	*2,870 81.3	*5.51 1.679
Mar. 13	0945	1,290 36.5	3.84 1.170	Sept. 25	0300	2,500 70.8	5.15 1.570
Apr. 24	0300	1,520 43.0	4.12 1.256				

Minimum discharge, 12 ft³/s (0.34 m³/s) Oct. 6, 7, gage height, 1.06 ft (0.323 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	370	52	24	19	204	204	85	37	21	79	126
2	15	216	50	27	19	142	208	93	36	19	46	207
3	14	160	39	31	19	124	427	109	34	18	30	115
4	13	130	45	33	18	195	220	89	32	19	24	69
5	13	103	49	36	18	450	196	518	31	20	24	54
6	13	89	49	38	19	255	162	195	31	49	83	47
7	13	76	100	36	26	164	132	128	33	179	87	41
8	96	72	110	33	21	142	125	95	30	480	138	37
9	522	66	90	31	24	290	106	115	30	127	64	34
10	410	66	76	30	28	555	100	165	32	73	46	29
11	112	66	68	28	32	496	93	112	30	52	39	26
12	64	60	60	27	40	495	86	89	28	45	47	25
13	49	57	54	30	64	94	79	79	28	224	40	28
14	55	55	49	32	70	332	74	71	28	91	61	295
15	46	55	45	30	54	205	68	64	29	60	66	72
16	36	51	43	28	48	179	66	60	27	49	36	141
17	31	48	41	26	45	135	62	56	26	70	348	195
18	28	51	40	24	44	122	59	52	32	39	129	410
19	25	51	56	22	43	112	59	49	36	35	74	596
20	29	49	130	21	43	104	56	46	28	31	54	1980
21	943	47	121	20	44	104	56	43	24	26	43	828
22	410	46	45	20	47	144	54	41	22	22	115	445
23	330	45	37	20	58	153	455	42	21	21	60	300
24	375	44	35	20	80	132	1050	75	20	19	147	493
25	475	41	32	20	330	108	496	128	35	49	83	1400
26	295	49	30	20	188	104	305	52	43	40	55	730
27	176	87	29	20	275	135	208	43	28	25	44	466
28	133	66	28	20	400	420	154	39	24	21	66	320
29	112	64	27	20	---	462	121	37	27	19	55	234
30	49	47	26	20	---	255	100	35	24	27	76	179
31	470	---	24	20	---	350	---	34	---	25	45	---
TOTAL	5408	2427	1652	807	2110	8295	5580	2845	886	1995	2304	9922
MEAN	174	80.9	54.3	26.0	75.4	268	186	91.3	29.5	64.4	74.3	331
MAX	943	370	130	38	400	964	1050	518	43	480	348	1980
MIN	13	41	24	20	18	104	54	34	20	18	24	25
CFSM	1.93	.90	.60	.29	.84	2.98	2.07	1.02	.33	.72	.83	3.68
IN.	2.24	1.00	.70	.33	.87	3.43	2.31	1.18	.37	.82	.95	4.10

CAL YR 1976	TOTAL	46974.6	MEAN 12H	MAX	1930	MIN	9.8	CFSM	1.42	IN	19.42
WTR YR 1977	TOTAL	44261.0	MEAN 12H	MAX	1980	MIN	13	CFSM	1.34	IN	18.29

WATER-QUALITY RECORDS

REVISIONS.--The table of Particle-Size Distribution of Suspended Sediment published for water year 1976 did not contain all of the data available. The 1976 table has been revised and rearranged into a two-table format. These two tables are reproduced below and supersede the 1976 table previously published.

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SJS- PENDEO SEDI- MENT (MG/L)	SUS- PENDEO SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.
					% FINER THAN .002 MM	% FINER THAN .004 MM	% FINER THAN .008 MM
FEB							
11...	1615	297	536	430	20	28	39
17...	1230	2050	2650	14700	24	27	31
18...	1445	1660	1530	6860	17	22	30
19...	1700	1110	600	1800	19	28	39
APR							
25...	1620	895	1260	3050	22	27	39
		SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.
		% FINER THAN .016 MM	% FINER THAN .031 MM	% FINER THAN .062 MM	% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM
DATE							1.00 MM
FEB							
11...	54	70	88	96	99	100	--
17...	41	56	72	86	93	98	--
18...	40	53	72	84	91	--	--
19...	54	68	84	92	97	100	--
APR							
25...	52	67	83	92	97	99	100

STREAMS TRIBUTARY TO LAKE ONTARIO

311

04224775 CANASERAGA CREEK ABOVE DANSVILLE, NY--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						MAY					
09...	1230	168	411	186	98	02...	1200	79	64	14	--
09...	1350	475	1990	2550	95	05...	0915	672	432	784	86
10...	1045	383	125	129	--	05...	1515	405	260	285	--
15...	1230	45	6	.73	--	16...	1200	56	10	1.5	--
21...	1000	1160	596	1870	92	24...	1000	44	82	9.7	--
NOV						JUN					
10...	1130	64	8	1.4	--	13...	1250	26	8	.56	--
15...	1250	55	11	1.6	--	23...	1130	20	28	1.5	--
27...	1010	87	9	2.1	--	25...	1255	34	371	34	98
27...	1030	87	13	3.1	94	25...	1535	33	232	21	97
DEC						JUL					
15...	1115	45	8	.97	--	07...	1130	115	215	67	97
JAN						09...	1830	99	37	9.9	97
04...	1345	33	34	3.0	--	19...	1145	33	2	.18	--
FEB						28...	1000	20	15	.81	--
15...	1140	54	16	2.3	--	AUG					
MAR						05...	1040	23	7	.43	--
04...	1430	124	61	20	--	17...	1755	265	226	162	--
16...	1320	172	31	14	--	22...	1620	129	60	21	--
21...	1215	91	12	2.9	--	SEP					
APR						22...	1450	405	244	267	94
18...	1345	56	3	.45	--	23...	1035	305	153	126	--
24...	1330	943	383	975	84	25...	1430	1140	1010	3110	87
24...	1630	828	383	856	70	26...	0900	671	214	388	92
24...	1705	894	227	548	92	26...	1500	786	542	1150	92
25...	1350	455	113	139	84	27...	1210	461	237	295	--
25...	1630	440	162	192	96						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
APR								
24...	1630	828	383	856	20	25	31	42
SEP								
22...	1450	405	244	267	--	--	--	--
25...	1430	1140	1010	3110	--	--	--	--
26...	0900	671	214	388	--	--	--	--
26...	1500	786	542	1150	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
APR							
24...	55	70	77	82	86	90	100
SEP							
22...	--	94	96	97	99	100	--
25...	--	87	94	97	99	100	--
26...	--	92	96	98	99	100	--
26...	--	92	98	99	100	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04225000 CANASERAGA CREEK NEAR DANSVILLE, NY

LOCATION.--Lat 42°33'36", long 77°42'57", Livingston County, Hydrologic Unit 04130002, at bridge on State Highway 436 (Ossian Street), 0.5 mi (0.8 km) downstream from Mill Creek, and 1 mi (2 km) west of Dansville.

DRAINAGE AREA.--153 mi² (396 km²).

PERIOD OF RECORD.--Water years 1971-73, 1975 to June 1976 (discontinued).

REVISIONS.--The table of Particle-Size Distribution of Suspended Sediment published for water year 1976 did not contain all of the data available. Also, the values published in 1976 for Apr. 25 (1402 hours) are to be deleted. The 1976 table has been revised and rearranged into a two-table format. These two tables are reproduced below and supersede the 1976 table previously published.

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE MENT SEDIM- ENT (MG/L)	SUS- PENDE MENT SEDIM- ENT (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE MENT SEDIM- ENT (MG/L)	SUS- PENDE MENT SEDIM- ENT (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT. 1975						FEB. 1976					
14...	0955	51	8	1.1	--	18...	1030	1930	2700	14100	86
16...	1050	108	24	7.0	--	19...	1815	2520	968	6590	79
21...	1230	250	25	17	--	20...	0955	992	369	988	75
29...	0945	92	10	2.5	--	26...	1005	502	85	115	--
NOV						MAR					
12...	1425	119	12	3.9	--	05...	1300	1120	361	1090	76
13...	1155	155	11	4.6	--	05...	1615	1620	726	3180	70
28...	1100	119	6	1.9	--	12...	1030	305	43	35	--
DEC						29...	1115	222	26	16	--
09...	1400	155	17	7.1	--	APR					
13...	1040	204	27	15	--	01...	1020	336	125	113	--
28...	1045	136	14	5.1	--	11...	1140	154	16	6.7	--
30...	1540	143	70	27	--	13...	1600	145	14	5.5	--
31...	1245	260	159	119	--	14...	1030	136	9	3.3	--
JAN. 1976						21...	1845	123	41	14	--
12...	1100	100	14	3.8	--	22...	1035	142	24	9.2	--
14...	1245	179	84	41	--	25...	1710	1170	1840	5810	62
27...	1100	2000	406	2190	72	26...	1055	745	299	601	59
27...	1230	1080	303	884	79	26...	1140	730	157	309	--
27...	1535	922	212	528	89	MAY					
FEB						10...	1045	157	15	6.4	--
10...	0950	118	25	8.0	--	19...	1545	402	353	383	--
11...	1315	826	559	1250	74	JUN					
11...	1650	761	544	1120	78	08...	1730	116	54	17	--
17...	1330	2060	3340	18600	70	09...	1050	103	20	5.6	--
17...	1800	1620	2090	9140	68						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE MENT SEDIM- ENT (MG/L)	SUS- PENDE MENT SEDIM- ENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
JAN. 1976								
27...	1535	922	212	528	28	38	48	61
FEB								
17...	1330	2060	3340	18600	17	22	27	38
18...	1030	1930	2700	14100	14	20	26	42
DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
JAN. 1976								
27...		73	89	97	100	100	--	--
FEB								
17...		52	70	84	94	--	--	--
18...		61	86	89	92	95	98	100

04226000 KESHEQUA CREEK AT CRAIG COLONY, SONYEA, NY

LOCATION.--Lat 42°40'50", long 77°49'45", Livingston County, Hydrologic Unit 04130002, on left bank 150 ft (46 m) upstream from bridge on private road, on grounds of Craig Colony at Sonyea, 700 ft (213 m) upstream from bridge on State Highway 36, and 2.5 mi (4.0 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--68.8 mi² (178.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1911 to December 1913 (published as "at Sonyea"), September 1915 to December 1916 (published as "near Sonyea") seasonal records only. August 1917 to September 1932, November 1974 to September 1977 (discontinued). Occasional discharge measurements, water years 1954, 1957-62, 1964, and 1965.

REVISED RECORDS.--WDR NY-75-1: Drainage area.

GAGE.--Water-stage recorder and concrete dam. Altitude of gage is 604 ft (184.1 m), from topographic map. Prior to Sept. 30, 1932, nonrecording gages at different sites and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--17 years (1917-32, 1976-77), 53.7 ft³/s (1.521 m³/s), 10.60 in/yr (269 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,280 ft³/s (178 m³/s) Sept. 25, 1977, gage height 6.69 ft (2.039 m); maximum gage height, 7.74 ft (2.359 m), Feb. 11, 1976 (ice jam); minimum discharge, about 0.1 ft³/s (0.003 m³/s) Sept. 8-21, 1932, at site then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 21	0300	1,190 33.7	3.04 0.927	Aug. 27	2045	1,630 46.2	3.58 1.091
Oct. 31	1300	1,510 42.8	3.40 1.036	Sept. 16	1645	1,070 30.3	2.92 .890
Mar. 13	0830	1,590 45.0	3.49 1.064	Sept. 18	2215	2,310 65.4	4.15 1.265
Apr. 23	1900	3,210 90.9	4.86 1.481	Sept. 20	0845	4,320 122	5.60 1.707
July 7	2245	1,560 44.2	3.45 1.052	Sept. 25	0115	*6,280 178	*6.69 2.039
Aug. 17	0545	2,540 71.9	4.39 1.338				

Minimum discharge 5.7 ft³/s (0.16 m³/s) Oct. 5, 6, July 3, 29; minimum gage height 0.21 ft (0.064 m) Oct. 5, 6, July 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	163	24	18	12	115	113	45	25	7.7	43	31
2	8.3	76	22	17	12	82	149	49	17	6.7	19	80
3	7.7	59	16	17	12	82	245	56	14	6.2	12	60
4	7.7	48	22	16	13	201	108	44	12	7.7	8.8	37
5	6.7	40	23	14	13	361	101	409	10	8.8	7.7	29
6	6.1	37	21	15	13	125	78	194	10	122	15	25
7	6.6	34	52	15	13	84	59	92	12	289	44	23
8	12	32	39	14	12	80	56	64	10	359	44	20
9	256	29	32	15	13	198	42	76	12	99	26	19
10	143	39	34	15	15	335	41	82	14	57	22	16
11	40	42	46	15	16	257	38	59	11	40	17	15
12	25	31	36	14	19	261	30	46	9.4	38	50	15
13	19	30	27	13	127	621	27	40	8.8	208	24	17
14	19	29	22	14	138	242	26	36	8.8	44	120	112
15	17	28	28	15	70	178	23	31	13	26	33	36
16	15	26	26	12	38	155	21	29	8.2	29	17	445
17	14	25	25	12	35	120	19	26	8.2	24	530	265
18	14	26	24	11	40	106	17	24	12	15	67	738
19	14	26	22	11	37	92	17	24	17	14	34	606
20	17	25	36	11	30	95	17	21	10	14	26	1630
21	423	24	58	12	22	141	16	19	12	11	21	261
22	194	24	21	12	22	204	17	17	8.8	8.8	51	152
23	120	23	27	11	24	175	1270	15	7.2	7.7	29	106
24	160	22	24	12	130	144	939	15	6.7	7.2	110	944
25	257	21	20	13	400	93	288	21	41	16	57	1490
26	120	28	21	13	204	88	164	16	30	15	32	354
27	64	47	18	12	285	123	101	14	15	8.8	250	188
28	47	33	18	12	265	245	73	12	11	7.2	122	112
29	40	31	16	11	---	210	60	11	12	6.7	95	86
30	35	17	13	11	---	136	52	11	10	16	108	70
31	590	---	16	11	---	152	---	11	---	12	40	---
TOTAL	2707.0	1115	829	414	2030	5501	4207	1609	396.1	1531.5	2094.5	7982
MEAN	87.3	37.2	26.7	13.4	72.5	177	140	51.9	13.2	49.4	67.6	266
MAX	590	163	58	18	400	621	1270	409	41	359	530	1630
MIN	6.1	17	13	11	12	80	14	11	6.7	6.2	7.7	15
CFSM	1.27	.54	.39	.19	1.05	2.57	2.03	.75	.19	.72	.98	3.87
IN.	1.46	.60	.45	.22	1.10	2.97	2.27	.87	.21	.83	1.13	4.32

CAL YR 1976 TOTAL 32153.0 MEAN 87.8 MAX 3120 MIN 4.8 CFSM 1.28 IN 17.38
WTR YR 1977 TOTAL 30416.1 MEAN 83.3 MAX 1630 MIN 6.1 CFSM 1.21 IN 16.45

04226000 KESHEQUA CREEK AT CRAIG COLONY, SONYEA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to September 1977 (discontinued).

REVISIONS.--The table of Particle-Size Distribution of Suspended Sediment published for water year 1976 did not contain all of the data available. Also, the values published in 1976 for Feb. 18 (1410 hours) and Feb. 19 (1415 hours) are to be deleted. The 1976 table has been revised and rearranged into a two-table format. These two tables are reproduced below and supersede the 1976 table previously published.

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						APR					
14...	1210	9.7	1	.03	--	05...	1045	440	472	561	67
15...	0925	9.2	2	.05	--	05...	1900	430	280	325	81
20...	1525	67	50	9.0	--	09...	1020	84	184	42	--
29...	1200	14	2	.08	--	12...	1520	72	20	3.9	--
NOV						29...	1530	71	0	.00	--
12...	0935	18	2	.10	--	APR					
13...	1630	23	2	.12	--	01...	1225	112	10	3.0	--
28...	1525	18	3	.15	--	11...	1700	38	2	.21	--
DEC						13...	0815	34	3	.28	--
09...	0930	28	7	.53	--	15...	1030	28	2	.15	--
13...	1530	43	10	1.2	--	21...	1920	30	0	.00	--
28...	1510	50	12	1.6	--	22...	0930	220	369	219	94
30...	1655	37	11	1.1	--	25...	1300	3000	6470	52400	70
JAN						25...	1755	1510	2369	9660	87
12...	1540	29	8	.63	--	26...	0920	682	119	956	66
13...	1005	34	5	.46	--	26...	1630	470	219	278	88
14...	0910	90	332	81	85	MAY					
14...	1530	98	366	97	94	10...	1540	39	4	.42	--
14...	1825	88	91	22	92	19...	0945	115	32	9.9	--
15...	1235	63	18	3.1	--	JUN					
27...	1610	432	267	311	92	08...	1010	48	36	4.7	--
27...	1620	432	242	282	94	09...	1610	28	4	.30	--
27...	1815	374	188	190	95	29...	0810	20	32	1.7	--
28...	1000	188	56	28	95	JUL					
FEB						13...	0950	18	8	.39	--
11...	0900	700	1100	2080	85	13...	1555	17	6	.28	--
11...	1815	250	868	586	--	AUG					
17...	1550	702	1460	2770	91	10...	0955	23	4	.25	--
17...	1705	654	1340	2370	92	12...	1615	14	3	.11	--
18...	0935	920	2760	6860	74	SEP					
19...	1115	572	853	1320	90	14...	1015	5.7	1	.02	--
20...	0850	289	183	143	86	15...	1520	6.2	2	.03	--
26...	1425	152	36	15	--						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
JAN								
14...	1530	98	366	97	39	44	56	64
FEB								
11...	0900	700	1100	2080	29	39	49	62
17...	1705	654	1340	2370	34	40	52	68
18...	0935	920	2760	6860	18	23	28	38
APR								
25...	1300	3000	6470	52400	19	25	33	45
25...	1755	1510	2369	9660	26	34	46	59
26...	0920	682	519	956	27	33	41	51

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
JAN							
14...	81	94	97	99	--	--	--
FEB							
11...	74	85	92	100	--	--	--
17...	82	92	96	98	100	--	--
18...	52	74	86	93	100	--	--
APR							
25...	58	70	82	89	95	98	--
25...	72	87	94	98	100	--	--
26...	56	66	69	72	89	96	99

STREAMS TRIBUTARY TO LAKE ONTARIO

315

04226000 KESHEQUA CREEK AT CRAIG COLONY, SONYEA, NY--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						JUL					
15...	1430	18	3	.15	--	16...	1550	29	1	.08	--
21...	1215	258	358	249	99	25...	1500	21	2	.11	--
21...	1535	185	190	95	98	JUN					
22...	0930	175	67	32	--	13...	1750	9.1	4	.10	--
NOV						14...	1515	8.6	7	.16	--
09...	0925	26	5	.35	--	25...	1140	15	20	.81	--
15...	1515	26	9	.63	--	25...	1530	97	579	152	96
27...	1530	42	20	2.3	95	25...	1700	95	455	117	98
DEC						JUL					
07...	0955	37	48	4.8	--	06...	2400	495	2120	2830	93
15...	1425	31	15	1.3	--	07...	0930	115	317	98	98
JAN						08...	0140	976	6210	16400	42
04...	0935	16	40	1.7	--	08...	1145	214	348	201	95
FEB						09...	1430	92	18	4.5	83
11...	0900	600	1100	1780	--	14...	0730	46	69	8.6	66
11...	1815	200	868	469	--	21...	1400	11	5	.15	--
24...	1440	46	31	3.9	--	AUG					
MAR						25...	1335	53	24	3.4	--
04...	1135	120	47	15	--	25...	1630	444	625	749	88
16...	1630	158	22	9.4	--	SEP					
29...	1140	249	104	70	--	20...	1330	1110	2280	6830	89
29...	1145	249	100	67	--	20...	1915	540	613	894	86
29...	1625	217	82	48	--	20...	2115	458	588	727	89
30...	1000	136	56	21	--	21...	1030	269	182	132	87
APR						22...	0930	158	83	35	84
05...	1500	106	14	4.0	--	26...	1235	546	769	1130	77
18...	1620	19	13	.67	--	26...	1740	410	601	665	--
23...	1130	978	3830	10100	81	27...	1120	188	133	68	84
23...	1910	3070	7500	62200	69						
24...	1145	664	940	1690	88						
25...	1040	276	349	260	94						
25...	1445	242	207	135	71						
26...	1000	164	103	46	--						
26...	1053	155	78	33	--						
28...	1100	73	36	7.1	--						

STREAMS TRIBUTARY TO LAKE ONTARIO

04226000 KESHEQUA CREEK AT CRAIG COLONY, SONYEA, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
APR								
23...	1130	978	3830	10100	27	28	37	50
23...	1910	3070	7500	62200	19	24	32	41
24...	1145	664	940	1690	--	--	--	--
JUL								
06...	2400	495	2120	2830	--	--	--	--
07...	0930	115	317	98	--	--	--	--
08...	0140	976	6210	16400	11	15	20	26
08...	1145	214	348	201	--	--	--	--
AUG								
25...	1630	444	625	749	--	--	--	--
SEP								
20...	1330	1110	2280	6830	--	--	--	--
20...	1915	540	613	894	--	--	--	--
20...	2115	458	588	727	--	--	--	--
21...	1030	269	182	132	--	--	--	--
26...	1235	546	769	1130	--	--	--	--
27...	1120	188	133	68	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SJS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
APR							
23...	63	81	90	95	100	--	--
23...	52	69	80	87	93	96	98
24...	--	88	94	98	100	--	--
JUL							
06...	--	93	96	98	100	--	--
07...	--	98	99	100	--	--	--
08...	31	42	53	67	84	93	98
08...	--	95	98	100	--	--	--
AUG							
25...	--	88	93	98	100	--	--
SEP							
20...	--	89	95	98	100	--	--
20...	--	86	91	96	100	--	--
20...	--	89	96	99	100	--	--
21...	--	87	91	94	95	97	100
26...	--	77	86	96	100	--	--
27...	--	84	92	97	100	--	--

04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY

LOCATION.--Lat 42°44'13", long 77°50'26", Livingston County, Hydrologic Unit 04130002, on left bank 30 ft (9 m) upstream from bridge on State Highway 408 at Shakers Crossing, 1.3 mi (2.1 km) upstream from mouth, and 1.5 mi (2.4 km) northeast of Mount Morris. Water-quality sampling site at discharge station.

DRAINAGE AREA.--333 mi² (862 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1915 to September 1922 (gage height only), November 1958 to September 1970, October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 545.52 ft (166.274 m) above mean sea level. Prior to October 1974, at site 30 ft (9 m) downstream at same datum. Prior to November 1958, at site 40 ft (12 m) downstream at datum 5.52 ft (1.682 m) lower. April 1968 to September 1970, and since October 1974, auxiliary water-stage recorder 0.6 mi (1.0 km) downstream from base gage.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--14 years (1959-70, 1975-77), 281 ft³/s (7.958 m³/s), 11.46 in/yr (291 mm/yr).

EXTREMES FOR PERIODS OF RECORD.--Maximum discharge, 5,270 ft³/s (149 m³/s) Mar. 4, 1976, gage height, 13.33 ft (4.063 m); maximum gage height, 23.62 ft (7.199 m) present datum, May 17, 1916 (backwater from Genesee River); minimum discharge, 4.3 ft³/s (0.12 m³/s) Aug. 19, 1970, gage height, 2.26 ft (0.689 m), result of temporary regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 24	0100	3,650 103	11.42 3.481	Sept. 20	0930	3,720 105	11.55 3.520
Sept. 19	0900	3,660 104	*12.39 3.776	Sept. 24	2330	*4,020 114	11.88 3.621

Minimum discharge, 54 ft³/s (1.53 m³/s) Oct. 6, 7, gage height, 2.66 ft (0.811 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	1380	149	110	76	609	466	356	123	73	105	144
2	66	720	174	120	78	385	585	299	115	64	151	379
3	64	553	150	120	80	343	1060	354	105	60	86	371
4	62	456	144	120	82	470	663	271	98	64	74	215
5	60	380	155	110	76	1220	470	1150	92	68	69	163
6	56	338	148	120	72	660	324	800	89	143	95	143
7	56	304	232	120	76	437	447	495	99	730	92	128
8	142	273	260	110	78	370	403	398	91	1850	243	116
9	646	225	190	110	82	540	289	407	88	595	146	106
10	1560	242	198	110	90	1170	275	522	99	236	147	95
11	597	286	239	100	100	1110	267	453	92	175	122	88
12	302	244	230	94	150	1010	241	355	84	164	230	84
13	209	211	160	92	270	2050	221	328	82	492	165	89
14	187	196	140	98	350	1690	213	287	78	284	267	780
15	204	187	180	94	300	787	196	250	139	183	287	780
16	165	182	167	84	230	629	185	215	92	152	137	880
17	145	172	168	76	200	405	176	197	79	246	1250	980
18	134	173	155	74	180	419	165	182	86	151	551	1550
19	126	172	142	76	200	466	162	182	127	125	253	2570
20	121	170	198	80	190	400	155	162	90	144	180	3380
21	1730	164	360	84	180	496	150	149	86	129	154	2750
22	1400	160	167	80	170	767	148	138	75	90	262	1720
23	880	153	191	78	210	763	1240	126	69	82	238	1540
24	702	149	160	82	400	624	3150	144	65	78	384	1900
25	1190	143	140	86	2000	401	2120	453	145	92	378	3760
26	813	148	150	84	1500	388	1260	182	183	136	211	3250
27	528	226	130	78	1300	446	500	138	107	88	254	2540
28	448	200	120	72	1560	877	362	122	86	77	407	1890
29	363	195	110	68	---	1090	780	110	88	71	194	1300
30	304	149	100	72	---	667	439	105	83	86	402	1160
31	1220	---	100	72	---	647	---	102	---	90	195	---
TOTAL	14549	8551	5307	2874	10280	22336	17113	9432	2935	7018	7729	34851
MEAN	469	285	171	92.7	367	721	570	304	97.8	226	249	1162
MAX	1730	1380	360	120	2000	2050	3150	1150	183	1850	1250	3760
MIN	56	143	100	68	72	343	148	102	65	60	69	84
CFSM	1.41	.86	.51	.28	1.10	2.17	1.71	.91	.29	.68	.75	3.49
IN.	1.63	.96	.59	.32	1.15	2.50	1.91	1.05	.33	.78	.86	3.89

CAL YR 1976	TOTAL	173721	MEAN	475	MAX	4970	MIN	56	CFSM	1.43	IN	19.41
WTR YR 1977	TOTAL	142975	MEAN	392	MAX	3760	MIN	56	CFSM	1.18	IN	15.97

STREAMS TRIBUTARY TO LAKE ONTARIO

04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1965, 1972, 1975 to September 1977 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: March 1975 to September 1977.

REMARKS.--Additional water-quality data available from New York State Department of Environmental Conservation.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,940 mg/L May 6, 1975; minimum daily mean, 2 mg/L Jan. 28, 1977.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 35,900 tons (32,600 Mg) Mar. 4, 1976; minimum daily, 0.39 ton (0.35 Mg) Jan. 28, 1977.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,930 mg/L Apr. 24; minimum daily mean, 2 mg/L Jan. 28.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 27,200 tons (24,700 Mg) Sept. 20; minimum daily, 0.39 tons (0.35 Mg) Jan. 28.

REVISIONS.--The table of Particle-Size Distribution of Suspended Sediment published for water year 1976 did not contain all of the data available. Also, some values have been revised, and values for Dec. 15, 1975 (1348 hours), and Feb. 16, 1976 (1620 hours) were deleted. The 1976 table has been revised and rearranged into a two-table format. These two tables are reproduced below and supersede the 1976 table previously published.

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINE R THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINE R THAN .062 MM
OCT						FEB					
18...	1155	929	2390	6000	79	16...	0720	1570	820	3480	93
18...	1520	797	1520	3270	81	16...	1630	2150	688	3990	97
19...	1645	640	1110	1920	88	17...	0720	3190	551	4750	99
DEC						17...	1620	3520	556	5280	99
15...	0830	1340	1060	3840	66	18...	0730	3420	783	7230	97
15...	1130	1560	1110	4680	63	18...	1025	3510	2400	22700	68
JAN						18...	1620	3650	663	6530	96
26...	0800	329	456	405	92	19...	0730	3850	1060	11000	77
26...	1515	250	498	336	94	19...	0930	3860	2720	28300	72
27...	0800	740	310	619	91	19...	1620	3870	801	8370	97
27...	1330	1500	371	1500	95	20...	1115	3030	834	6820	66
27...	1620	1900	428	2200	94	MAR					
27...	1650	1900	464	2380	71	05...	0915	4760	527	6770	72
28...	0910	2200	152	903	81	05...	1630	4240	530	6070	67
28...	1640	1400	140	529	87	APR					
29...	0900	1100	462	1370	91	25...	1030	547	3130	4620	98
29...	1610	920	442	1100	95	25...	1430	1440	4150	16100	90
30...	0900	700	648	1230	93	25...	1600	2460	3790	25200	92
30...	1600	660	659	1170	91	25...	1830	2970	5020	40300	83
31...	0930	540	333	486	91	26...	1030	2320	428	2680	87
31...	1630	520	73	223	89	26...	1630	1890	165	842	90
FEB						26...	1650	1870	302	1530	78
06...	0730	620	2380	3980	72	27...	0630	1410	226	860	70
06...	1630	455	1870	2300	82	27...	1030	1300	162	569	90
07...	0720	615	2110	3500	73	27...	1200	1240	139	465	89
07...	1620	491	1870	2480	83	28...	0900	1030	139	387	89
08...	0900	544	722	1060	99	28...	1200	1030	155	431	87
08...	1620	340	1120	1030	83	28...	1830	1030	150	417	90
09...	0730	462	845	1050	99	29...	0930	913	117	288	86
09...	1600	453	735	899	100	29...	1230	916	111	275	90
10...	0730	398	745	801	99	29...	1740	909	93	228	87
10...	1500	305	651	536	96	30...	0655	670	90	163	84
11...	0725	255	1250	861	90	30...	1230	647	60	105	88
11...	1640	2290	1580	9770	75	30...	1730	628	61	103	90
12...	0730	2170	1250	7320	97	MAY					
12...	1630	1850	1900	9490	75	01...	0630	511	58	80	81
13...	0730	1790	2510	12100	67	01...	1530	492	64	85	82
13...	1630	1840	2140	10600	75	18...	0930	382	66	68	84
14...	0730	2150	1180	6850	92	AUG					
14...	1620	1920	813	4220	99	16...	1400	189	192	98	100
15...	0730	1510	698	2850	99						
15...	1640	1260	546	1860	98						

STREAMS TRIBUTARY TO LAKE ONTARIO
04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY--Continued
PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SJS- PENDED SEJIMENT (MG/L)	SUS- PENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
JAN							
26...	1515	250	498	336	33	44	60
27...	1330	1500	371	1500	34	45	53
FEB							
06...	0730	620	2380	3930	18	20	27
06...	1630	455	1870	2300	20	27	36
07...	0720	615	2110	3500	20	24	32
07...	1620	491	1870	2480	22	24	32
08...	0900	544	722	1060	53	62	72
08...	1620	340	1120	1030	46	48	53
09...	0730	462	845	1050	63	67	69
10...	0730	398	745	801	--	--	--
10...	1500	305	651	536	51	53	63
11...	0725	255	1250	861	--	--	--
11...	1640	2290	1580	9770	16	25	33
12...	0730	2170	1250	7320	44	58	67
12...	1630	1850	1900	9490	16	22	29
13...	0730	1790	2510	12100	--	--	--
13...	1630	1840	2140	10600	--	--	--
14...	0730	2150	1180	6850	31	42	51
14...	1620	1920	813	4220	--	--	--
15...	0730	1510	698	2850	52	59	63
15...	1640	1260	546	1860	58	69	69
16...	0720	1570	820	3480	64	77	85
16...	1630	2150	688	3990	--	--	--
17...	0720	3190	551	4750	64	77	85
17...	1620	3520	556	5280	--	--	--
18...	0730	3420	783	7230	--	--	--
18...	1025	3510	2400	22700	19	23	28
18...	1620	3650	663	6530	--	--	--
19...	0730	3850	1060	11000	43	56	57
19...	0930	3860	2720	28300	21	27	37
19...	1620	3870	801	8370	--	--	--
MAR							
05...	1630	4240	530	6070	26	33	40
APR							
25...	1030	547	3130	4620	35	42	52
25...	1430	1440	4150	16100	36	43	56
25...	1600	2460	3790	25200	27	36	48
25...	1830	2970	5020	40300	22	29	38
26...	1030	2320	428	2680	28	36	45

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
JAN						
26...	72	83	94	97	100	--
27...	72	86	95	99	100	--
FEB						
06...	36	48	72	89	99	100
06...	47	64	82	95	99	100
07...	43	55	73	88	98	100
07...	46	60	83	96	99	100
08...	82	91	99	100	--	--
08...	58	71	83	92	99	100
09...	77	90	99	100	--	--
10...	--	--	99	100	--	--
10...	67	84	96	100	--	--
11...	--	--	90	100	--	--
11...	40	55	75	90	98	100
12...	78	88	97	84	97	100
12...	41	55	75	92	99	100
13...	--	--	67	84	97	100
13...	--	--	75	92	99	100
14...	63	76	92	99	100	--
14...	--	--	99	100	--	--
15...	74	89	99	100	--	--
15...	72	83	98	100	--	--
16...	91	96	93	100	--	--
16...	--	--	97	100	--	--
17...	91	96	99	100	--	--
17...	--	--	99	100	--	--
18...	--	--	97	99	100	--
18...	36	48	68	84	95	100
18...	--	--	96	100	--	--
19...	59	67	77	86	98	100
19...	47	59	72	83	90	--
19...	--	--	97	99	100	--
MAR						
05...	48	57	67	80	89	100
APR						
25...	70	86	98	99	100	--
25...	56	74	90	99	100	--
25...	64	78	92	96	--	--
25...	50	62	83	98	100	--
26...	59	70	87	97	100	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						JUL					
10...	1215	1510	721	2940	78	06...	2130	304	3970	3260	99
21...	1230	2200	1620	9620	90	07...	0900	1090	2500	7360	99
25...	1445	1270	264	905	76	07...	1250	646	783	1370	97
31...	1450	1930	2020	10500	75	07...	1850	730	592	1170	89
DEC						08...	1145	1020	1860	5120	83
21...	1145	360	182	177	96	08...	1800	734	787	1560	90
FEB						09...	1030	328	250	221	97
25...	0820	800	842	1820	90	09...	1200	323	275	240	99
25...	1345	800	624	1350	90	09...	1630	469	280	355	84
MAR						09...	1900	431	202	235	95
05...	1130	1300	800	2810	75	10...	1055	212	91	52	100
13...	1500	2590	3640	25500	85	13...	0730	572	3600	5560	99
APR						13...	1635	707	717	1370	96
23...	1100	884	1700	4060	89	18...	1255	147	238	94	84
23...	1245	1030	2000	5560	89	AUG					
23...	1550	1410	1840	7010	84	12...	1900	274	289	214	94
23...	1705	1390	3340	12500	83	17...	1100	1880	4390	22300	95
24...	1050	3170	1810	15500	83	SEP					
24...	1105	3110	3100	26000	83	14...	1705	780	653	1380	98
24...	1400	2840	1450	11100	69	15...	1730	640	994	1720	90
24...	1800	2790	848	6390	67	16...	1535	880	2260	5370	65
24...	1915	2850	906	6970	63	17...	1735	980	409	1080	83
25...	0730	2280	571	3520	59	18...	1710	1550	485	2030	96
25...	0900	2220	561	3360	58	18...	1815	2140	1190	6880	95
25...	1145	2120	437	2500	63	18...	1920	2500	1160	7830	95
25...	1645	1950	320	1690	79	19...	1320	2420	782	5110	87
26...	1445	1170	209	660	78	19...	1900	2520	542	3690	90
26...	1500	1170	194	613	84	20...	1845	3540	2610	24900	86
MAY						21...	0900	2960	986	7880	84
05...	1215	1640	106	469	82	21...	1045	2930	871	6890	85
05...	1500	1470	1190	4720	68	22...	0900	1730	443	2070	87
06...	0845	833	226	508	85	22...	1430	1640	418	1850	83
25...	1130	467	1150	1450	99	23...	1200	1500	309	1250	93
25...	1600	339	384	351	98	24...	1145	1500	220	891	90
JUN						24...	1305	1490	227	913	94
15...	0900	166	360	161	94	25...	1255	3770	1970	20100	86
25...	0850	68	116	21	100	25...	1730	3630	1340	13100	76
25...	1010	72	168	33	81	26...	0950	3370	729	6630	64
25...	1545	160	150	65	97	27...	0900	2550	402	2770	79
25...	1615	182	196	96	97	28...	1500	1790	424	2050	90
25...	1710	226	314	192	99						
25...	1800	257	316	219	96						
25...	1840	268	446	323	99						
26...	1000	187	136	69	99						
26...	1215	172	143	66	95						

04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT							
21...	1230	2200	1620	9620	24	28	40
APR							
23...	1100	884	1700	4060	26	31	38
23...	1245	1030	2000	5560	--	--	--
23...	1550	1410	1840	7010	25	30	40
23...	1705	1390	3340	12500	--	--	--
24...	1105	3110	3100	26000	22	29	38
25...	0900	2220	561	3360	--	--	--
JUL							
06...	2130	304	3970	3260	42	54	70
07...	0900	1090	2500	7360	29	42	57
13...	0730	572	3600	5560	--	--	--
13...	1635	707	717	1370	36	36	52
SEP							
14...	1705	780	653	1380	--	--	--
15...	1730	640	994	1720	--	--	--
16...	1535	880	2260	5370	--	--	--
17...	1735	980	409	1080	--	--	--
18...	1710	1550	485	2030	--	--	--
18...	1815	2140	1190	6880	--	--	--
18...	1920	2500	1160	7830	--	--	--
19...	1320	2420	782	5110	--	--	--
19...	1900	2520	542	3690	--	--	--
20...	1845	3540	2610	24900	--	--	--
21...	0900	2960	986	7880	--	--	--
21...	1045	2930	871	6890	--	--	--
22...	0900	1730	443	2070	--	--	--
22...	1430	1640	418	1850	--	--	--
23...	1200	1500	309	1250	--	--	--
25...	1730	3630	1340	13100	--	--	--
26...	0950	3370	729	6630	--	--	--
27...	0900	2550	402	2770	--	--	--
28...	1500	1790	424	2050	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
OCT							
21...	57	72	90	95	100	--	--
APR							
23...	51	69	89	97	100	--	--
23...	--	--	89	98	100	--	--
23...	53	67	84	95	99	100	--
23...	--	--	83	95	99	100	--
24...	50	65	83	92	99	100	--
25...	--	--	58	73	90	100	--
JUL							
06...	83	95	99	100	--	--	--
07...	75	91	99	100	--	--	--
13...	--	--	99	100	--	--	--
13...	64	82	96	99	100	--	--
SEP							
14...	--	--	98	100	--	--	--
15...	--	--	90	95	98	100	--
16...	--	--	65	80	93	99	100
17...	--	--	83	93	98	100	--
18...	--	--	96	99	100	--	--
18...	--	--	95	100	--	--	--
18...	--	--	95	99	100	--	--
19...	--	--	87	99	100	--	--
19...	--	--	90	97	99	100	--
20...	--	--	86	93	98	100	--
21...	--	--	84	93	98	99	--
21...	--	--	85	93	98	--	--
22...	--	--	87	95	95	100	--
22...	--	--	83	91	96	99	100
23...	--	--	93	98	100	--	--
25...	--	--	76	86	91	99	100
26...	--	--	64	80	92	99	100
27...	--	--	79	91	99	100	--
28...	--	--	90	96	98	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22	4.1	276	1220	11	4.4	7	2.1	6	1.2	205	337
2	42	7.5	62	121	10	4.7	6	1.9	5	1.1	80	83
3	33	5.7	58	87	10	4.1	7	2.3	4	0.86	55	51
4	19	3.2	42	52	7	2.7	6	1.9	6	1.3	145	184
5	24	3.9	37	38	8	3.3	6	1.8	5	1.0	700	2430
6	25	3.8	45	41	7	2.8	6	1.9	7	1.4	155	276
7	27	4.1	33	27	34	21	6	1.9	5	1.0	72	85
8	44	25	25	18	51	36	5	1.5	4	0.84	60	60
9	375	1450	20	12	14	7.2	5	1.5	7	1.5	125	182
10	783	3610	19	12	16	8.6	7	2.1	11	2.7	452	1460
11	220	355	22	17	20	13	8	2.2	5	1.4	380	1140
12	62	51	19	13	22	14	12	3.0	9	3.6	340	927
13	47	27	16	9.1	24	10	5	1.2	56	80	2010	12800
14	35	18	15	7.9	13	4.9	5	1.3	47	45	490	2240
15	30	17	14	7.1	11	5.3	5	1.3	21	17	150	319
16	26	12	9	4.4	11	5.0	6	1.4	16	9.9	70	119
17	22	8.6	12	5.6	10	4.5	7	1.4	7	3.8	33	36
18	17	6.2	13	6.1	10	4.2	6	1.2	8	3.9	35	40
19	12	4.1	14	6.5	9	3.5	5	1.0	8	4.3	36	45
20	19	6.2	17	7.8	20	11	3	0.65	6	3.1	56	60
21	1270	6830	11	4.9	180	215	5	1.1	7	3.4	115	154
22	365	1380	10	4.3	26	12	4	0.86	9	4.1	282	584
23	130	309	9	3.7	13	6.7	4	0.84	11	6.2	130	268
24	121	229	9	3.6	8	3.5	4	0.89	85	92	72	121
25	235	755	9	3.5	8	3.0	4	0.93	623	3430	64	69
26	98	215	8	3.2	8	3.2	5	1.1	110	445	75	79
27	44	63	40	24	8	2.8	3	0.63	510	1910	89	113
28	36	44	28	15	8	2.6	2	0.39	876	4260	336	839
29	34	33	19	10	9	2.7	4	0.73	---	---	412	1270
30	32	26	13	5.2	9	2.4	5	0.97	---	---	168	303
31	1060	4990	---	---	10	2.7	14	2.7	---	---	141	246
TOTAL	---	20496.4	---	1789.9	---	426.8	---	44.69	---	10335.60	---	26920
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	134	169	30	29	57	19	89	18	662	252	100	39
2	110	174	45	36	70	22	113	20	553	280	343	373
3	423	1290	78	75	49	14	97	16	60	14	200	200
4	95	170	90	66	38	10	82	14	51	10	101	59
5	55	70	880	3370	50	12	59	11	87	16	69	30
6	27	24	220	475	34	8.2	772	960	58	17	61	24
7	25	30	82	110	29	7.8	2540	5560	92	24	66	23
8	30	33	47	51	34	8.4	2240	12800	137	91	57	18
9	35	27	37	41	35	8.3	270	434	82	31	43	12
10	27	20	60	85	35	9.4	87	55	70	28	45	12
11	27	19	39	48	30	7.5	67	32	91	30	41	9.7
12	41	27	26	25	26	5.9	83	37	274	185	41	9.3
13	38	23	27	24	33	7.3	1600	2620	130	58	48	12
14	34	20	25	19	51	11	170	130	121	106	835	2140
15	37	20	24	16	232	97	91	45	150	116	140	295
16	20	10	21	12	73	18	74	30	122	45	1360	4490
17	19	9.0	20	11	63	13	494	334	2010	8480	677	2210
18	27	12	19	9.3	74	17	258	105	670	997	797	3530
19	19	8.3	25	12	108	37	140	47	270	184	986	7550
20	26	11	21	9.2	78	19	70	27	116	56	2900	27200
21	30	12	17	6.8	80	19	59	21	97	40	1280	10300
22	24	9.6	15	5.6	93	19	75	18	185	131	425	1970
23	2310	13000	14	4.8	80	15	83	18	140	90	310	1290
24	2930	26800	16	6.2	78	14	78	16	283	368	727	5930
25	460	2630	983	1520	203	109	96	24	270	276	2250	22800
26	210	714	75	37	148	73	96	35	215	122	720	6320
27	92	124	70	26	123	36	61	14	245	258	405	2780
28	78	76	58	19	90	21	56	12	320	433	409	2090
29	25	53	72	21	78	19	48	9.2	128	85	340	1190
30	15	18	67	19	84	19	63	15	307	347	240	752
31	---	---	50	14	---	---	57	14	150	79	---	---
TOTAL	---	45602.9	---	6202.9	---	695.8	---	23491.2	---	13249	---	103658.0

STREAMS TRIBUTARY TO LAKE ONTARIO

323

04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY

LOCATION.--Lat 42°46'00", long 77°50'21", Livingston County, Hydrologic Unit 04130002, on right bank 100 ft (30 m) north of Jones Bridge Road, 0.8 mi (1.3 km) downstream from Canaseraga Creek, and 2.8 mi (4.5 km) northeast of Mount Morris. Water-quality sampling site at bridge on U.S. Highway 20A (State Highway 39), 1.5 mi (2.4 km) east of Cuylerville, and 1.2 mi (1.9 km) downstream from discharge station.

DRAINAGE AREA.--1,417 mi² (3,670 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1903 to April 1906, August 1908 to April 1914, July 1915 to current year. Prior to 1968, published as "at Jones Bridge."

REVISED RECORDS.--WSP 1277: 1952. WSP 1387: 1913. WSP 1437: 1955. WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 540.12 ft (164.629 m) above mean sea level. Prior to Sept. 11, 1915, nonrecording gage on bridge at datum 2.85 ft (0.869 m) lower.

REMARKS.--Records good except those for winter periods, which are poor. Diurnal fluctuation at low flow caused by powerplant. Flow regulated to some extent by Rushford Lake (see station 04221991) since July 1928, and at high flows since November 1951 by Mount Morris Lake (see station 04224000). Monthly figures of discharge and runoff 1952 to 1966 water years adjusted for change in contents in Rushford Lake and Mount Morris Lake.

AVERAGE DISCHARGE.--67 years (1908-13, 1915-77), 1,646 ft³/s (46.61 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,100 ft³/s (1,560 m³/s) May 17, 1916, gage height, 25.44 ft (7.754 m); minimum, 12 ft³/s (0.34 m³/s) July 23, 1955, gage height, 0.22 ft (0.067 m), partially obstructed intake; minimum daily, 30 ft³/s (0.85 m³/s) Aug. 8, 1909.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,400 ft³/s (295 m³/s) Sept. 19, gage height, 15.44 ft (4.706 m); minimum, 268 ft³/s (7.59 m³/s) June 5, gage height, 2.24 ft (0.683 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	686	5160	1240	740	330	2700	7880	5210	489	747	2310	1010
2	652	4340	1200	680	340	2500	7620	3490	510	574	3150	1250
3	618	3800	1000	620	350	2500	6740	2690	459	505	1210	1760
4	608	2800	880	600	350	2800	5130	2740	430	479	681	1340
5	482	1930	940	600	350	3400	3720	2520	386	459	426	1010
6	733	1710	1000	600	350	4200	6110	2750	390	596	1960	843
7	738	1550	1000	580	360	3900	6460	3180	417	4600	4920	741
8	877	1440	1100	540	370	4500	4800	3030	495	6290	6680	652
9	2480	806	1100	520	390	4920	3600	2970	445	6450	4760	602
10	4540	1090	1200	490	460	5610	3530	3010	449	6370	2250	536
11	3640	1890	1100	470	540	5720	2750	2860	624	4850	1710	489
12	3490	1220	1100	440	540	5640	1990	2620	510	3780	1930	454
13	3950	1360	1000	420	620	5470	1980	2400	426	3870	2190	459
14	4500	1560	960	450	780	6900	1960	1960	386	3130	1610	3430
15	3460	1520	1000	440	920	6730	1510	1160	445	1960	2490	7840
16	2860	1440	1000	420	960	8530	1110	1070	365	1130	1610	5290
17	1640	1380	1000	400	680	8560	1090	911	365	1240	4130	5990
18	1250	1380	1000	380	740	8780	1070	828	373	1110	3380	8390
19	1120	1440	1100	380	660	8000	1070	792	515	1020	1750	7420
20	1030	1450	1000	390	620	6520	1050	753	515	873	1230	5030
21	4200	1430	1000	400	800	5780	1040	687	449	850	966	4320
22	5450	1380	980	400	700	4580	1040	619	382	630	1320	6070
23	4720	1320	960	410	660	3770	2520	563	344	536	2250	8920
24	4360	1300	960	410	900	3270	4770	563	321	479	2400	8720
25	5110	1320	980	420	1300	2580	4890	1700	435	479	2690	6210
26	5230	1330	980	420	2000	2190	5350	1100	814	1170	1630	5120
27	5490	2960	960	400	2400	2260	7710	741	1200	778	1220	4850
28	4720	2750	920	380	2600	2810	9270	613	652	542	1480	7260
29	3360	2140	900	360	---	3810	9050	536	531	449	1010	8670
30	1930	1680	860	350	---	5000	7010	484	836	547	1380	9520
31	3420	---	800	340	---	6550	---	454	---	1370	1640	---
TOTAL	87844	56876	31220	14460	22270	150920	123820	55004	14958	57863	68363	123896
MEAN	2834	1896	1007	456	795	4868	4127	1774	499	1867	2205	4130
MAX	5490	5160	1240	740	2600	8780	9270	5210	1200	6450	6680	9520
MIN	482	806	800	340	330	2190	1040	454	321	449	426	454
CAL YR 1976 TOTAL	874203			2389		9940		73				
WTH YR 1977 TOTAL	807494			2212		9520		321				

STREAMS TRIBUTARY TO LAKE ONTARIO

04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955, 1956, 1964, 1965, 1972, 1975 to September 1977 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: April 1975 to September 1977.

REMARKS.--Additional water-quality data available from New York State Department of Environmental Conservation.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,530 mg/L Mar. 8, 1976; minimum daily mean, 5 mg/L July 23, 1975.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 55,900 tons (50,700 Mg) Mar. 8, 1976; minimum daily, 2.0 tons (1.8 Mg) Sept. 26, 1976.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,300 mg/L Sept. 20; minimum daily mean, 14 mg/L Dec. 24, Apr. 22.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 42,100 tons (38,200 Mg) Sept. 15; minimum daily, 20 tons (18 Mg) Feb. 9.

REVISIONS.--Some values in the table of Particle-Size Distribution of Suspended Sediment published for water year 1976 have been revised. The 1976 table has been revised and rearranged into a two-table format. These two tables are reproduced below and supersede the 1976 table previously published.

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						APR					
18...	1230	3520	1050	9980	94	27...	1030	3160	358	3050	90
18...	1445	3610	1140	11100	75	27...	1215	3100	428	3580	95
DEC						27...	1400	3050	322	2650	85
15...	1640	4300	426	4950	68	27...	1630	2980	318	2560	79
17...	1000	4970	506	6790	64	28...	1015	3230	296	2580	75
17...	1305	4920	401	5330	81	28...	1215	3580	293	2830	80
17...	1600	4880	431	5680	79	29...	1015	4400	346	4110	91
JAN						29...	1300	4700	361	4580	91
28...	1400	2200	180	1070	93	30...	0715	5120	234	3240	94
29...	1045	2100	160	907	93	30...	1230	5070	100	1370	84
FEB						MAY					
19...	1220	5150	2220	30900	78	05...	1630	2540	199	1370	95
27...	1310	8600	646	15000	72	06...	0930	1710	198	914	100
MAR						17...	0930	2080	300	1690	89
04...	1350	6000	711	11500	92	17...	1610	3980	242	2600	99
04...	1445	6000	723	11700	89	18...	0910	2850	284	2190	99
04...	1730	6000	711	11500	91	18...	1300	2780	286	2150	87
05...	0945	5600	641	9690	77	18...	1620	3020	268	2190	94
05...	1515	5840	698	11000	72	19...	0935	3840	297	3080	93
05...	1520	5840	585	9220	78	19...	1630	3360	221	2010	93
13...	1330	8900	465	11200	73	20...	1000	4010	226	2450	91
30...	1315	6520	185	3260	71	21...	0915	3410	120	1110	95
APR						21...	1640	3000	109	883	96
12...	1400	1480	109	436	88	22...	0900	2510	109	739	95
19...	0630	1080	455	1330	100	JUL					
20...	0620	981	703	1860	85	13...	1440	1250	75	253	97
21...	0630	903	650	1590	84	30...	1430	3250	1181	10400	92
21...	1530	828	623	1390	93	AUG					
21...	1600	807	919	2000	72	09...	1515	3030	426	3490	94
22...	0630	1530	825	3410	76	11...	0915	1430	158	610	89
22...	1530	2940	830	6590	73	16...	1220	1530	362	1500	99
23...	0645	3300	915	8160	69	16...	1430	1560	241	1020	93
23...	1600	2540	178	1220	78						
24...	0930	1750	162	765	81						
24...	1600	1590	107	459	93						
25...	0830	2000	128	691	91						
25...	1000	2240	1750	10600	95						
25...	1555	5570	2310	34700	88						
25...	1630	5810	2510	39400	90						
25...	1800	6470	2110	36900	96						
25...	2015	6660	2500	45000	76						
26...	1000	6540	1030	18200	94						
26...	1630	5220	389	5480	90						
27...	0930	3190	459	3950	87						

STREAMS TRIBUTARY TO LAKE ONTARIO

325

04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SJS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
FEB 19...	1220	5150	2220	30900	20	27	36
MAR 04...	1350	6000	711	11500	34	48	61
04...	1445	6000	723	11700	37	47	58
04...	1730	6000	711	11500	38	48	58
05...	1515	5840	698	11000	23	30	38
APR 25...	1000	2240	1750	10600	7	20	37
25...	1630	5810	2510	39400	26	31	41
25...	1800	6470	2110	36900	--	--	--
25...	2015	6660	2500	45000	28	30	40
26...	1000	6540	1030	18200	37	50	64
26...	1630	5220	389	5480	29	53	68
27...	0930	3190	459	3950	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
FEB 19...	46	59	78	95	100	--
MAR 04...	76	85	92	95	100	--
04...	69	82	89	98	--	--
04...	68	81	91	98	--	--
05...	46	57	72	84	100	--
APR 25...	58	76	95	99	100	--
25...	58	74	90	96	100	--
25...	--	--	96	100	--	--
25...	50	64	76	82	92	100
26...	72	82	94	98	100	--
26...	78	84	90	96	100	--
27...	--	--	87	94	99	100

STREAMS TRIBUTARY TO LAKE ONTARIO

04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						JUL					
09...	1040	2080	619	3480	91	13...	0715	3790	671	6870	69
10...	1125	4570	914	11300	91	13...	1615	4140	846	9460	81
11...	1200	3600	834	8110	91	15...	2045	1320	512	1830	88
12...	1150	2640	536	3820	87	16...	1735	1040	246	691	86
13...	1340	3750	265	2680	84	17...	1758	1580	407	1740	91
13...	1430	3740	328	3310	77	18...	1225	1250	245	827	91
17...	1125	1540	520	2160	88	19...	1350	981	186	493	92
21...	1140	4770	1640	21100	90	23...	1750	515	244	339	85
22...	1330	5580	606	9130	79	24...	1810	459	212	263	90
23...	0945	4790	696	9000	84	25...	1715	479	231	299	89
31...	1420	4150	1280	14300	80	26...	1730	1330	203	729	87
NOV						31...	1050	1460	264	1040	86
01...	1210	5190	478	6700	81	AUG					
27...	1105	3510	1730	16400	89	02...	2015	2140	659	3810	89
28...	1030	2750	681	5060	91	03...	1900	990	178	476	91
DEC						04...	1800	542	467	683	89
01...	1405	1110	374	1120	98	07...	1000	4400	1720	20400	85
07...	1610	1000	216	583	95	07...	1800	6710	1510	27400	84
MAR						08...	2020	6640	930	16700	74
13...	1520	6880	2790	51800	66	09...	0830	5960	604	9720	73
17...	1525	8760	740	17500	69	10...	2030	1800	643	3130	80
17...	1545	8770	683	16200	65	11...	2100	1500	602	2440	80
19...	1030	8320	488	11000	74	23...	1345	2180	274	1610	85
19...	1630	7770	500	10500	69	24...	2010	3290	497	4420	71
21...	1000	6110	419	6910	63	SEP					
APR						13...	1320	440	356	423	88
03...	1530	6630	324	5800	62	14...	1735	6780	3310	60600	84
08...	1145	4850	240	3140	77	15...	1715	8290	1500	33600	81
24...	1208	4710	1610	20500	85	16...	1720	3740	898	9070	80
24...	1945	4660	1700	21400	85	18...	1800	8520	495	11400	71
MAY						18...	1900	8540	493	11400	71
05...	1530	2840	1000	7670	83	19...	1400	7170	720	13900	91
06...	0910	2360	564	3590	77	19...	1840	4410	804	9570	94
07...	1200	3180	390	3350	79	21...	0930	4090	1170	12900	79
08...	1600	3000	356	2880	67	21...	1725	4470	1240	15000	78
16...	1620	1010	168	458	92	21...	1835	4620	1170	14600	74
17...	1445	888	130	312	92	22...	1100	5180	143	2000	82
25...	1200	2480	884	5920	82	22...	1115	5180	1180	16500	78
25...	1630	2060	467	2600	81	22...	1500	6280	1920	32600	72
26...	1535	990	472	1260	97	22...	1815	6900	1240	23100	73
26...	1717	950	553	1420	97	23...	1055	8550	903	20800	74
27...	1040	741	113	226	96	23...	1300	8570	743	17200	83
JUN						23...	1410	8570	757	17500	82
26...	1320	918	156	387	90	23...	1730	8710	743	17500	79
27...	1115	1420	349	1340	83	24...	1130	9280	644	16100	77
JUL						24...	1245	9240	606	15100	87
07...	0845	5180	3510	49100	87	24...	1750	8440	548	12500	87
07...	1235	5630	2870	43600	91	24...	1900	8260	526	11700	90
07...	1820	5960	2190	35200	90	25...	1110	6530	2030	35800	92
08...	1000	6170	2070	34500	92	25...	1245	6120	1880	31100	95
08...	1030	6120	1830	30200	87	25...	1250	6280	975	16500	81
08...	1130	6070	1560	25600	91	25...	1320	6210	1500	25200	91
08...	1745	6540	1140	20100	86	25...	1440	6000	1510	24500	88
09...	0845	5990	1030	16700	84	25...	1620	5750	1500	23300	90
09...	1015	6210	1080	18100	80	25...	1745	5560	1370	20600	88
09...	1415	6690	1500	27100	82	26...	0900	6030	763	12400	74
09...	1600	6760	1400	25600	83	26...	0955	6030	744	12100	75
09...	1835	6810	1370	25200	85	26...	1235	4830	476	6210	75
10...	1035	6510	1170	20600	75	26...	1430	4690	708	8970	82
10...	1715	6260	936	15800	69	26...	1450	4680	717	9060	81
10...	2100	5800	768	12000	70	26...	1535	4580	735	9090	80
						27...	1025	3860	506	5270	74
						28...	1620	7480	701	14200	70
						28...	1735	7690	764	15900	67

04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY--Continued

PARTICLE SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIMENT (MG/L)	SUS- PENDED SEDIMENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
OCT								
10...	1125	4570	914	11300	37	38	52	68
21...	1140	4770	1640	21100	24	32	42	59
NOV								
27...	1105	3510	1730	16400	--	17	25	40
APR								
24...	1208	4710	1610	20500	22	28	38	53
JUL								
07...	0845	5180	3510	49100	--	--	--	--
07...	1235	5630	2870	43600	--	--	--	--
07...	1820	5960	2190	35200	31	42	56	66
08...	1030	6120	1830	30200	--	--	--	--
08...	1130	6070	1560	25600	33	41	52	62
SEP								
13...	1320	440	356	423	--	--	--	--
14...	1735	6780	3310	60600	--	--	--	--
15...	1715	8290	1500	33600	--	44	54	62
16...	1720	3740	898	9070	--	--	--	--
18...	1800	8520	495	11400	--	32	38	53
18...	1900	8540	493	11400	--	--	--	--
19...	1400	7170	720	13900	--	--	--	--
19...	1840	4410	804	9570	--	--	--	--
21...	0930	4090	1170	12900	--	--	--	--
21...	1725	4470	1240	15000	--	--	--	--
21...	1835	4620	1170	14600	--	--	--	--
22...	1115	5180	1180	16500	--	--	--	--
22...	1815	6900	1240	23100	--	42	45	51
23...	1055	8550	903	20800	--	--	--	--
23...	1300	8570	743	17200	--	54	59	66
23...	1410	8570	757	17500	--	--	--	--
23...	1730	8710	743	17500	--	--	--	--
24...	1130	9280	644	16100	--	42	44	50
25...	1110	6530	2030	35800	--	44	59	72
25...	1245	6120	1880	31100	--	43	57	70
25...	1250	6280	975	16500	--	--	--	--
26...	1235	4830	476	6210	--	36	38	50
26...	1430	4690	708	8970	--	39	47	59
26...	1450	4680	717	9060	--	--	--	--
28...	1735	7690	764	15900	--	--	--	--
DATE		SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT								
10...		81	91	94	100	--	--	--
21...		76	90	97	100	--	--	--
NOV								
27...		64	89	97	100	--	--	--
APR								
24...		66	85	95	99	100	--	--
JUL								
07...		--	87	93	98	100	--	--
07...		--	91	94	98	100	--	--
07...		75	90	95	99	100	--	--
08...		--	87	89	92	95	98	100
08...		74	91	95	99	100	--	--
SEP								
13...		--	88	96	99	100	--	--
14...		--	84	91	97	100	--	--
15...		72	81	93	99	100	--	--
16...		--	80	90	94	99	100	--
18...		60	71	84	95	100	--	--
18...		--	71	83	91	99	100	--
19...		--	91	96	98	100	--	--
19...		--	94	98	99	100	--	--
21...		--	79	91	94	98	100	--
21...		--	78	92	97	100	--	--
21...		--	74	89	95	99	100	--
22...		--	78	87	92	100	--	--
22...		61	73	90	99	100	--	--
23...		--	74	90	100	--	--	--
23...		74	83	92	99	100	--	--
23...		--	82	91	98	100	--	--
23...		--	79	99	100	--	--	--
24...		68	77	90	99	100	--	--
25...		84	92	98	99	100	--	--
25...		85	95	100	--	--	--	--
25...		--	81	95	97	100	--	--
26...		59	75	94	99	100	--	--
26...		71	82	94	99	100	--	--
26...		--	81	94	97	100	--	--
28...		--	67	80	95	99	100	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	17	31	614	8750	340	1140	198	396	39	35	790	5760
2	15	26	260	3050	338	1100	132	242	36	33	760	5130
3	20	33	164	1680	350	945	107	179	33	31	740	5190
4	21	34	135	1020	220	523	93	151	29	27	780	5900
5	29	38	118	615	345	876	90	146	26	25	1080	9910
6	97	192	105	485	185	499	77	125	24	23	1090	12400
7	145	289	94	393	203	548	72	113	22	21	1040	11000
8	154	365	83	323	240	713	68	99	21	21	960	11700
9	705	6410	62	135	420	1250	58	81	19	20	1140	15100
10	978	12000	87	256	360	1170	60	79	17	21	1290	19500
11	816	8020	146	745	235	698	47	60	17	25	1120	17300
12	540	5090	117	385	200	594	55	65	29	42	340	5180
13	300	3200	115	422	240	648	50	57	56	94	1320	23600
14	426	5180	131	552	400	1040	52	65	91	192	900	16500
15	350	3740	140	575	232	626	87	103	89	221	890	16200
16	240	1850	149	579	128	346	106	120	80	207	1260	29000
17	430	1900	154	574	95	256	95	103	70	166	760	17600
18	260	877	153	570	72	194	85	87	60	120	600	14200
19	168	508	178	692	55	163	78	80	53	94	498	10800
20	160	445	174	681	40	108	72	76	47	79	532	9370
21	1180	15300	167	645	27	73	70	76	38	82	428	6680
22	660	9710	160	596	20	53	67	72	35	66	402	4970
23	660	8410	150	535	32	83	65	72	34	61	440	4500
24	420	4940	140	491	14	36	63	70	150	430	395	3510
25	315	4350	130	463	19	50	61	69	980	3440	238	1660
26	380	5370	220	790	20	53	57	65	400	2160	212	1250
27	450	6670	1170	10000	16	41	52	56	622	4280	212	1290
28	350	4460	640	4750	29	72	48	49	1160	8140	275	2090
29	220	2000	310	1790	19	46	46	45	---	---	460	4730
30	245	1280	200	907	20	46	44	42	---	---	410	5530
31	971	11400	---	---	100	216	41	38	---	---	770	13600
TOTAL	---	124118	---	43449	---	14206	---	3081	---	20156	---	31150
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	950	20200	310	4360	34	45	145	292	1130	14300	82	224
2	670	13800	265	2500	32	44	86	133	1460	15400	121	470
3	172	3130	280	2030	33	41	65	89	310	1010	188	893
4	270	3740	390	2890	27	31	52	67	110	202	90	326
5	610	6130	1150	8830	24	25	46	57	60	69	63	172
6	740	12200	610	4530	22	23	121	323	539	4670	53	121
7	460	8020	400	3430	21	24	2120	29300	1590	21100	44	88
8	250	3240	360	2950	27	36	1520	25800	1120	20200	26	46
9	310	3010	315	2530	26	31	1200	20900	710	9120	21	34
10	250	2380	245	1990	22	27	1050	18100	750	4560	29	42
11	130	965	170	1310	42	71	600	7860	680	3140	19	25
12	96	516	145	1030	33	45	400	4080	525	2740	20	25
13	75	401	145	940	22	25	780	8150	500	2960	24	30
14	55	291	145	767	23	24	780	6590	620	2700	1380	22600
15	47	192	135	423	38	46	620	3280	580	3900	1990	42100
16	57	171	152	439	36	35	320	976	741	3670	1140	16300
17	39	115	135	332	29	29	260	870	1700	19400	970	15700
18	26	75	110	246	31	31	248	743	510	4650	1160	26300
19	28	81	100	214	58	81	185	509	180	850	1300	26000
20	23	65	93	189	63	88	115	271	127	422	2300	31200
21	17	48	72	134	61	74	88	202	118	308	1320	15400
22	14	39	80	134	57	59	110	187	177	631	1400	22900
23	660	4490	50	76	49	46	236	342	320	1940	1020	23700
24	1450	18700	45	68	48	42	220	285	334	2390	640	15100
25	520	6870	465	2420	84	99	228	295	310	2250	1000	16800
26	420	6070	365	1080	152	334	245	774	128	563	810	11200
27	700	14600	125	250	283	463	105	221	108	356	590	7730
28	530	13300	60	99	140	246	75	110	142	567	750	14700
29	440	10800	45	65	113	162	53	64	83	226	1320	30900
30	345	6530	35	46	185	418	75	111	177	660	1560	40100
31	---	---	32	39	---	---	265	980	185	819	---	---
TOTAL	---	160169	---	46341	---	3245	---	131961	---	145773	---	381226

LOCATION.--Lat 42°47'39", long 77°43'15", Livingston County, Hydrologic Unit 04130003, on west shore of Conesus Lake at Geneseo Water Works pumping station, 300 ft (91 m) east of State Highway 256, and 3.0 mi (4.8 km) south of Lakeville.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Oct. 1, 1970 to Sept. 30, 1975, at datum 800.00 ft (243.840 m) higher. Prior to Oct. 1, 1970, nonrecording gage at site 200 ft (61 m) downstream at datum 796.59 ft (242.801 m) higher.

REMARKS.--Lake level maintained by plank and pile dam at outlet. Area of water surface, 5.08 mi² (13.2 km²). Daily average of about 2 ft³/s (0.057 m³/s) diverted from lake for water supply for Avon, Geneseo, and Lakeville Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 822.50 ft (250.698 m) June 24, 1972; minimum observed, 816.33 ft (248.817 m) present datum, Nov. 3-8, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 821.41 ft (250.366 m) Sept. 27; minimum, 817.12 ft (249.058 m) Feb. 11, 12.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	817.43	818.76	818.05	817.57	817.20	817.95	819.03	819.18	818.06	817.82	817.89	818.33
2	817.42	818.82	818.02	817.55	817.19	817.98	819.03	819.13	818.02	817.80	817.87	818.29
3	817.40	818.83	817.99	817.53	817.19	818.00	819.05	819.08	817.98	817.79	817.86	818.28
4	817.39	818.83	817.96	817.52	817.18	818.05	819.06	819.03	817.95	817.77	817.86	818.25
5	817.37	818.82	817.94	817.51	817.18	818.17	819.05	819.03	817.93	817.76	817.84	818.22
6	817.35	818.79	817.91	817.50	817.18	818.23	819.02	819.01	817.90	817.81	817.87	818.19
7	817.33	818.75	817.91	817.49	817.17	818.25	818.98	818.98	817.88	817.87	817.89	818.16
8	817.34	818.71	817.89	817.47	817.15	818.26	818.94	818.93	817.86	817.92	817.95	818.12
9	817.44	818.67	817.88	817.46	817.14	818.28	818.90	818.90	817.83	817.95	817.98	818.09
10	817.64	818.65	817.86	817.45	817.14	818.31	818.86	818.87	817.82	817.98	818.04	818.07
11	817.70	818.63	817.83	817.45	817.13	818.40	818.82	818.84	817.80	818.03	818.09	818.02
12	817.73	818.59	817.81	817.44	817.13	818.49	818.78	818.80	817.79	818.07	818.21	817.98
13	817.74	818.56	817.80	817.42	817.15	818.70	818.74	818.77	817.77	818.08	818.25	817.96
14	817.75	818.52	817.78	817.41	817.18	818.90	818.69	818.72	817.76	818.08	818.27	818.08
15	817.74	818.49	817.76	817.40	817.14	818.90	818.65	818.68	817.75	818.08	818.28	818.10
16	817.71	818.46	817.74	817.39	817.19	818.85	818.61	818.64	817.74	818.08	818.28	818.24
17	817.70	818.42	817.74	817.37	817.19	818.80	818.57	818.60	817.75	818.12	818.61	818.62
18	817.67	818.39	817.72	817.36	817.19	818.80	818.52	818.56	817.77	818.11	818.66	818.81
19	817.65	818.35	817.71	817.34	817.19	818.75	818.47	818.53	817.77	818.11	818.65	819.35
20	817.64	818.32	817.70	817.33	817.19	818.75	818.44	818.49	817.75	818.11	818.61	820.00
21	817.94	818.30	817.69	817.32	817.20	818.70	818.40	818.45	817.73	818.10	818.57	820.41
22	818.13	818.27	817.68	817.31	817.20	818.80	818.37	818.42	817.70	818.06	818.57	820.50
23	818.22	818.24	817.66	817.30	817.19	818.90	818.55	818.38	817.69	818.03	818.54	820.48
24	818.30	818.20	817.65	817.28	817.22	818.86	819.01	818.36	817.67	818.00	818.53	820.42
25	818.40	818.17	817.63	817.28	817.47	818.86	819.22	818.35	817.72	818.00	818.52	821.03
26	818.46	818.15	817.62	817.27	817.61	818.86	819.32	818.30	817.76	817.97	818.49	821.33
27	818.49	818.13	817.62	817.25	817.73	818.86	819.35	818.25	817.76	817.94	818.46	821.40
28	818.50	818.12	817.61	817.24	817.87	818.91	819.33	818.21	817.80	817.9	818.44	821.36
29	818.49	818.11	817.61	817.24	---	818.98	819.28	818.15	817.83	817.88	818.42	821.26
30	818.47	818.09	817.60	817.22	---	819.01	819.23	818.11	817.85	817.89	818.39	821.14
31	818.59	---	817.58	817.21	---	819.04	---	818.07	---	817.87	818.36	---
MEAN	817.84	818.47	817.77	817.38	817.25	818.60	818.88	818.64	817.81	817.97	818.27	819.22
MAX	818.59	818.83	818.05	817.57	817.87	819.04	819.35	819.18	818.06	818.12	818.66	821.40
MIN	817.33	818.09	817.58	817.21	817.13	817.95	818.37	818.07	817.67	817.76	817.84	817.96
CAL YR 1976	MEAN	818.74	MAX	822.05	MIN	817.33						
WTR YR 1977	MEAN	818.18	MAX	821.40	MIN	817.13						

STREAMS TRIBUTARY TO LAKE ONTARIO

04228500 GENESEE RIVER AT AVON, NY

LOCATION.--Lat 42°55'04", long 77°45'27", Livingston County, Hydrologic Unit 04130003, on right bank 250 ft (76 m) downstream from bridge on U.S. Highway 20 (State Highway 5), 0.3 mi (0.5 km) west of Avon, and 0.8 mi (1.3 km) downstream from Conesus Creek. Water-quality sampling site at discharge station.

DRAINAGE AREA.--1,667 mi² (4,318 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1955 to current year.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 500.11 ft (152.433 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Diurnal fluctuation at low flow caused by powerplant. Flow regulated to some extent by Rushford Lake (see station 04221990), at high flows by Mount Morris Lake (see station 04224000), and by Conesus Lake (see station 04227980). Monthly figures of discharge and runoff August 1955 to September 1965 adjusted for change in contents in Rushford Lake and Mount Morris Lake.

AVERAGE DISCHARGE.--22 years, 1,908 ft³/s (54.03 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/s (467 m³/s) June 25, 1972, gage height, 40.67 ft (12.396 m); minimum, 56 ft³/s (1.59 m³/s) Oct. 5, 1955, gage height, 13.73 ft (4.185 m), from graph based on gage readings.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,500 ft³/s (326 m³/s) Sept. 25, gage height 34.36 ft (10.473 m); minimum, 342 ft³/s (9.69 m³/s) June 25, gage height, 14.76 ft (4.499 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	708	5230	1320	780	360	2900	7330	5990	549	893	1150	1280
2	687	4850	1300	720	370	2400	7860	4200	598	699	3210	1080
3	657	4080	1100	650	380	2900	7000	2870	571	580	1810	1490
4	621	3420	940	640	380	3100	6040	2820	521	526	981	1500
5	515	2300	1000	640	380	3500	3640	2540	470	514	601	1170
6	634	1870	1100	640	380	4300	4910	2590	427	518	661	991
7	738	1680	1100	620	390	4900	6310	2980	433	2000	3310	890
8	744	1570	1100	550	400	4700	5320	2980	493	5700	5540	798
9	1180	1410	1100	560	420	5200	3820	2870	532	5990	5490	738
10	3630	735	1200	520	480	5630	3340	2880	491	6170	3100	678
11	3840	1750	1200	500	600	6080	3150	2840	554	5240	1780	612
12	3160	1540	1100	470	600	5940	2100	2640	645	3880	1600	567
13	3380	1280	1100	450	660	6310	1860	2420	521	3380	2100	555
14	3820	1530	1000	500	820	7610	1830	2180	451	3410	1660	1070
15	4010	1530	1100	480	980	6960	1760	1580	445	2320	1880	5820
16	3170	1490	1100	450	1100	8000	1250	1220	451	1430	1940	6470
17	2110	1430	1100	420	1000	8510	1140	1110	406	1110	3050	6190
18	1400	1400	1100	410	840	8690	1130	1000	409	1210	4520	7420
19	1210	1410	1100	410	740	8430	1110	945	440	1090	2490	9520
20	1120	1440	1100	420	680	6970	1100	905	572	973	1540	9810
21	2330	1440	1000	430	800	6180	1080	848	537	936	1160	7620
22	5370	1400	1000	430	900	5290	1090	776	460	807	1190	5920
23	5070	1350	1000	440	720	4380	1720	711	398	657	2040	7490
24	4320	1310	1000	450	940	3660	6020	672	362	585	1930	8640
25	4530	1320	1000	450	1400	3080	5940	1020	381	537	2740	10700
26	5080	1330	1000	460	2100	2410	5510	1490	617	745	2110	8050
27	5180	1810	1000	440	2700	2390	6710	999	999	1070	1390	6010
28	5120	2790	980	420	2800	3070	8590	779	957	717	1440	6680
29	3810	2220	940	390	---	3990	9240	679	635	561	1220	8000
30	2650	1840	880	380	---	4760	7910	615	595	511	1180	9320
31	2370	---	840	370	---	5880	---	566	---	946	1520	---
TOTAL	83164	58755	32900	15540	24320	158520	125810	58693	15920	55705	66333	137079
MEAN	2683	1959	1061	501	869	5114	4194	1893	531	1797	2140	4569
MAX	5370	5230	1320	780	2800	8690	9240	5990	999	6170	5540	10700
MIN	515	735	840	370	360	2390	1080	566	362	511	601	555

CAL YR 1976 TOTAL 925889 MEAN 2530 MAX 10100 MIN 148
WTR YR 1977 TOTAL 832739 MEAN 2281 MAX 10700 MIN 360

STREAMS TRIBUTARY TO LAKE ONTARIO

331

04228500 GENESEE RIVER AT AVON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1965, 1972, 1975 to September 1977 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: April 1975 to September 1977.

REMARKS.--Additional water-quality data available from New York State Department of Environmental Conservation.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,680 mg/L July 8, 1977; minimum daily mean, 1 mg/L Nov. 27, 28, 1975.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 39,800 tons (36,100 Mg) July 8, 1977; minimum daily, 1.7 tons (1.5 Mg) Nov. 27, 1975.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,680 mg/L July 8, minimum daily mean, 6 mg/L Jan. 3, 4, 29, Feb. 8.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 39,800 tons (36,100 Mg) July 8; minimum daily, 6.3 tons (5.7 Mg) Jan. 29.

REVISIONS.--The table of Particle-Size Distribution of Suspended Sediment published for water year 1976 did not contain all of the data available. Also, some values have been revised or are to be deleted. The following table gives the additional and the revised values and shows the deletions.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM MENT (MG/L)	SUS- PENDE SEDIM MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .062 MM
FEB					
11...	1020	3500	127	1200	78
29...	1030	9400	490	12400	77
MAR					
03...	0850	(DELETE ALL VALUES FOR THIS DAY AND TIME)			
04...	1350	7900	761	16200	92
04...	1900	8600	594	13800	92
05...	0910	8500	431	9890	89
05...	1730	7800	352	7410	94
08...	0930	9000	445	10800	80
31...	0850	6110	228	3760	83

STREAMS TRIBUTARY TO LAKE ONTARIO

04228500 GENESEE RIVER AT AVON, NY--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT CHARGE (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIFVE DIAM. & FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT CHARGE (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. & FINER THAN .052 MM
OCT						JUL					
11...	1640	3660	598	6900	99	07...	1505	2360	2340	14900	95
12...	0840	3200	595	5140	98	08...	1200	5870	2090	33100	95
13...	1120	3410	480	3500	98	08...	1210	5890	2110	33600	96
13...	1420	3420	333	3080	96	08...	1640	5970	2630	42400	92
13...	1635	3420	325	3010	94	09...	1535	5840	603	9510	85
14...	1615	3890	253	2660	91	10...	1540	6170	470	16200	93
15...	1155	4090	255	2830	94	11...	0845	5440	575	8450	91
21...	1540	2720	390	2860	92	11...	1820	4860	521	6840	87
22...	1635	5580	673	10100	95	12...	1450	3730	378	3810	87
NOV						13...	0835	3270	311	2750	89
01...	0905	5390	819	11900	95	14...	0830	3580	432	9010	96
25...	1015	2880	778	6050	98	14...	1750	3270	485	8700	96
DEC						15...	1040	2330	351	2210	95
26...	0915	3200	279	2410	91	17...	1110	1090	274	806	78
MAR						18...	1155	1240	264	884	95
07...	1315	5460	360	5310	94	19...	0845	1100	192	570	92
08...	1230	5940	587	11000	88	21...	1140	948	1350	3460	89
09...	1050	5320	755	10800	84	29...	1000	570	183	282	98
11...	1020	6150	683	11300	82	29...	1335	552	122	182	94
11...	1635	6140	764	12700	79	AUG					
13...	0805	5990	511	8260	80	01...	1145	1110	170	509	91
13...	1640	6520	514	10800	82	04...	1445	513	91	126	76
14...	1150	7730	770	16100	82	07...	1015	3270	1020	9010	91
15...	1250	6790	455	8360	79	09...	1120	5840	714	11300	88
15...	1255	6780	447	8180	85	09...	1640	5260	1040	14800	95
16...	0935	7920	984	21100	74	10...	1635	2600	474	3330	94
16...	1440	8160	458	18900	73	11...	1435	1740	445	2100	93
17...	1625	8400	584	13200	78	12...	1635	1590	279	1200	91
21...	1320	6180	447	7460	81	13...	1805	2220	558	3350	94
21...	1600	6110	339	5590	82	14...	1010	1680	327	1480	96
24...	1255	3650	239	2360	85	15...	1635	2090	402	4530	95
28...	1045	3030	185	1520	89	16...	1245	1950	502	2640	97
29...	0845	3940	307	3270	84	16...	1640	1780	415	1990	92
29...	1605	4060	482	4190	83	17...	1635	3580	465	9330	93
31...	1050	5790	403	6300	72	SEP					
APR						15...	1410	6330	2470	42200	94
01...	1640	7490	457	9240	67	20...	1105	11100	548	19400	92
02...	0850	7960	567	12200	66	20...	1350	11200	789	23900	95
04...	0825	6200	237	3970	82	21...	1345	7380	1350	26900	99
06...	1035	4900	463	6130	77	21...	1410	8090	1310	28600	96
07...	1510	6500	394	6920	65	22...	1230	6500	408	15900	96
24...	1025	6460	2160	37700	94	22...	1410	6470	342	16500	94
24...	1655	6550	1670	29500	97	23...	1205	7640	1340	27600	94
27...	1635	6970	593	13000	82	23...	1430	8400	408	20600	97
28...	1510	8740	507	12000	76	25...	1005	11400	549	16900	78
29...	1145	9310	541	13600	73	25...	1500	11620	1110	34800	96
29...	1640	9280	327	8190	90	25...	1605	11500	1060	32900	97
30...	1630	7580	262	5360	84	26...	1130	8580	793	18400	96
MAY						26...	1635	8460	638	14600	82
01...	1005	6150	361	5990	69	27...	1635	5950	538	8640	93
05...	1440	2380	456	2930	90	27...	1745	5940	523	8390	97
06...	1625	2520	271	6610	86	28...	0905	7140	678	13100	92
07...	1605	3060	562	4640	92	28...	1635	7420	595	11900	83
08...	1535	2960	358	2860	73	29...	0800	8400	677	15400	86
25...	1145	1400	269	1020	97	29...	1410	8600	533	12400	89
JUN						30...	0940	8430	659	15000	83
24...	1215	363	63	62	82						

STREAMS TRIBUTARY TO LAKE ONTARIO

333

04228500 GENESEE RIVER AT AVON, NY--Continued

PARTICLE SIZE DISTRIBUTION OF SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
NOV							
01...	0905	5390	819	11900	29	29	45
MAR							
08...	1230	5940	687	11000	19	24	31
09...	1050	5320	755	10800	20	22	27
11...	1020	6150	683	11300	20	25	34
APR							
24...	1025	6460	2160	37700	--	--	--
24...	1655	6550	1670	29500	--	--	--
28...	1510	8740	507	12000	23	23	29
29...	1145	9310	541	13600	--	--	--
JUL							
07...	1505	2360	2340	14900	--	--	--
08...	1200	5870	2090	33100	--	--	--
08...	1210	5890	2110	33600	36	50	66
08...	1640	5970	2630	42400	--	--	--
11...	0845	5440	575	8450	--	--	--
14...	0830	3580	932	9010	--	--	--
15...	1040	2330	351	2210	--	--	--
SEP							
21...	1345	7380	1350	26900	--	--	--
22...	1230	6500	908	15900	--	--	--
23...	1205	7640	1340	27600	--	36	40
23...	1430	8400	908	20600	--	--	--
25...	1500	11620	1110	34800	--	--	--
26...	1130	8580	793	18400	--	--	--
27...	1745	5940	523	8390	--	--	--
29...	0900	8400	677	15400	--	--	--
30...	0940	8430	659	15000	--	39	46

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV							
01...	62	79	95	99	100	--	--
MAR							
08...	42	62	88	97	100	--	--
09...	38	55	84	96	99	100	--
11...	44	58	82	95	99	99	100
APR							
24...	--	--	94	98	100	--	--
24...	--	--	97	99	100	--	--
28...	39	53	76	95	99	100	--
29...	--	--	73	91	98	100	--
JUL							
07...	--	--	95	99	99	--	--
08...	--	--	95	99	100	--	--
08...	79	88	96	99	100	--	--
08...	--	--	92	96	99	100	--
11...	--	--	91	97	99	100	--
14...	--	--	96	99	100	--	--
15...	--	--	95	98	100	--	--
SEP							
21...	--	--	99	100	--	--	--
22...	--	--	96	98	99	100	--
23...	49	70	94	98	100	--	--
23...	--	--	97	98	99	100	--
25...	--	--	96	98	99	99	100
26...	--	--	96	98	99	100	--
27...	--	--	97	99	100	--	--
29...	--	--	86	95	99	100	--
30...	56	67	83	95	100	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04228500 GENESEE RIVER AT AVON, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	47	90	746	10500	120	428	10	21	7	6.8	235	1840
2	42	78	370	4850	81	284	10	19	9	9.0	88	665
3	34	60	134	1480	59	175	6	11	11	11	111	869
4	31	52	102	942	48	122	6	10	7	7.2	280	2340
5	27	38	138	857	38	103	12	21	10	10	530	5010
6	40	68	78	394	33	98	12	21	11	11	232	2690
7	37	74	67	304	31	92	11	18	7	7.4	335	4430
8	53	106	54	229	30	89	10	16	6	6.5	635	8060
9	230	733	50	190	30	89	10	15	10	11	710	9970
10	1010	11300	39	77	34	110	11	15	9	12	885	13500
11	770	7980	95	449	30	97	11	15	9	15	740	12100
12	495	4220	52	216	24	71	10	13	11	18	665	10700
13	330	3010	46	159	30	89	9	11	12	21	605	10300
14	256	2640	80	330	30	81	10	13	21	46	750	15400
15	247	2670	79	326	35	104	13	17	29	77	452	8490
16	177	1510	90	362	59	175	8	9.7	26	77	815	17600
17	195	1110	104	402	39	116	7	7.9	23	62	625	14400
18	269	1020	99	374	37	110	13	14	18	41	545	12800
19	175	572	110	419	43	128	17	19	15	30	481	10900
20	115	348	137	533	46	137	22	25	16	29	435	8190
21	379	3280	132	513	45	121	19	22	16	35	455	7590
22	800	11600	116	438	51	138	11	13	15	36	340	4860
23	350	4790	118	430	59	159	8	9.5	13	25	285	3370
24	172	2010	84	297	62	167	11	13	14	36	245	2420
25	200	2450	82	292	46	124	12	15	364	1560	209	1740
26	256	3510	89	320	36	97	9	11	260	1470	175	1140
27	265	3710	290	1750	29	78	13	15	74	539	105	678
28	210	2900	735	5540	22	58	8	9.1	295	2230	200	1660
29	124	1280	375	2250	18	46	6	6.3	---	---	345	3720
30	126	902	220	1090	15	36	13	13	---	---	355	4560
31	240	1840	---	---	12	27	12	12	---	---	415	6590
TOTAL	---	75951	---	36313	---	3749	---	450.5	---	6438.9	---	208582
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	455	9000	335	5420	43	64	172	415	170	528	125	432
2	540	11500	265	3010	46	74	118	223	725	6620	80	233
3	398	7520	200	1550	48	74	98	153	290	1420	130	523
4	240	3910	162	1230	41	58	86	122	103	273	125	506
5	270	2650	390	2670	31	39	74	103	80	130	86	272
6	525	6960	600	4200	30	35	67	94	141	252	65	174
7	485	8260	552	4440	30	35	1820	16300	1040	9890	47	113
8	285	4090	398	3200	45	60	2680	39800	1410	21100	40	86
9	220	2270	270	2090	53	76	700	11300	940	13900	36	72
10	177	1600	190	1480	41	54	910	15200	505	4230	34	62
11	165	1400	131	1000	30	45	565	7990	430	2070	32	53
12	148	839	116	827	38	66	420	4400	315	1360	29	44
13	151	758	109	712	34	48	510	4650	495	2810	26	39
14	108	534	97	571	33	40	800	7370	330	1480	255	1480
15	78	371	77	328	28	34	365	2290	610	3100	2140	34100
16	75	253	88	290	27	33	282	1090	505	2650	960	16800
17	60	185	74	222	25	27	282	845	874	8100	560	9360
18	61	186	59	159	54	60	266	869	1200	14600	843	17500
19	43	129	54	138	56	67	188	553	425	2860	1080	27800
20	33	98	55	135	69	107	163	428	172	715	565	15000
21	31	90	44	101	70	101	105	265	90	282	800	16500
22	28	82	33	69	53	66	59	129	79	254	705	11300
23	322	2160	28	54	50	54	48	85	245	1350	870	17600
24	1780	28800	26	47	61	60	43	68	220	1150	570	13300
25	550	8820	128	513	56	58	40	58	395	2920	1040	30000
26	365	5430	288	1160	94	157	128	257	175	997	725	15800
27	640	11600	325	855	148	399	199	575	114	428	555	9010
28	555	12900	128	269	97	251	148	287	131	509	620	11200
29	355	8860	76	139	70	120	122	185	96	316	560	12100
30	275	5870	52	86	77	124	94	130	102	325	610	15400
31	---	---	---	---	---	---	140	358	195	800	---	---
TOTAL	---	147125	---	36965	---	2486	---	116592	---	107419	---	276859

LOCATION:--Lat 42°45'44", long 77°30'21", Ontario County, Hydrologic Unit 04130003, on east shore of Honeoye Lake, at Trident Marina on East Lake Road, 1.9 mi (3.1 km) south of U.S. Highway 20A, and 2.0 mi (3.2 km) southeast of Honeoye.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. July 10, 1963 to Sept. 28, 1967, nonrecording gage and Sept. 29, 1967 to Sept. 30, 1969, recording gage at datum 800.35 ft (243.947 m) higher. Oct. 1, 1969 to Sept. 30, 1975, at datum 800.00 ft (243.840 m) higher.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 806.91 ft (245.946 m) June 23, 1972; minimum observed, 802.15 ft (244.495 m) present datum, Oct. 5, 1965, Oct. 1, 2, 1970.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

CAL YR 1976	MEAN 803.63	MAX 805.15	MIN 803.04
WTR YR 1977	MEAN 803.54	MAX 804.75	MIN 803.07

STREAMS TRIBUTARY TO LAKE ONTARIO

04228919 HEMLOCK LAKE NEAR HEMLOCK, NY

LOCATION.--Lat 42°46'30", long 77°36'36", Livingston County, Hydrologic Unit 04130003, at Rochester Water Bureau filtration plant at north end of Hemlock Lake, 1.5 mi (2.4 km) south of Hemlock.

PERIOD OF RECORD.--October 1975 to current year.

REMARKS.--Raw-water samples are collected from tap in filtration plant laboratory.

WATER QUALITY DATA, OCTOBER 1975 TO SEPTEMBER 1977

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (CAL-MG) (MG/L)	NON- CAL- CARE- NATE (MG/L)	DIS- SOLVED SILICA (MG/L)	DIS- SOLVED MAG- NE- SILICA (MG/L)	DIS- SOLVED MAG- NE- SILICA (MG/L)	DIS- SOLVED MAG- NE- SILICA (MG/L)	DICAR- BONATE (MG/L)	CAL- BONATE (MG/L)
OCT , 1975												
30...	0930	214	7.4	13.0	83	14	23	5.3	7.8	1.4	78	0
DEC												
15...	0930	230	7.6	9.0	98	34	24	5.7	7.9	1.6	77	0
MAR , 1975												
29...	1400	215	7.7	8.0	88	32	25	6.2	8.4	1.3	68	0
JUN												
15...	1400	230	7.2	21.0	85	25	25	5.7	7.6	1.2	70	0
SEP												
21...	1400	215	7.4	20.0	86	25	24	5.3	7.5	1.3	74	0
NOV												
16...	1530	225	7.0	7.0	88	30	25	5.5	7.4	1.3	71	0
MAR , 1977												
29...	1500	250	6.9	5.0	88	27	26	5.5	8.4	1.3	72	0
JUN												
28...	1500	230	6.9	22.0	90	34	26	6.1	8.9	1.3	68	0
SEP												
20...	1500	220	7.0	21.0	85	30	25	5.7	8.3	1.5	68	0

DATE	ALKA- LIVITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SODIUM (Na) (MG/L)	DIS- SOLVED SODIUM (Na) (MG/L)	TOTAL NON- CAL- CARE- NATE (MG/L)	TOTAL NITRATE PLUS NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
OCT , 1975												
30...	64	25	13	.2	1.2	132	116	2	.04	.01	.26	.27
DEC												
15...	63	24	14	.0	1.5	123	126	2	.10	.02	.17	.19
MAR , 1975												
29...	56	25	13	.1	1.5	122	114	3	.25	.02	.38	.40
JUN												
15...	57	21	13	.1	.2	130	108	2	.12	.02	.28	.30
SEP												
21...	61	24	14	.1	.5	129	114	1	.01	.01	.17	.18
NOV												
16...	58	25	13	.1	1.6	132	115	1	.13	.01	.14	.15
MAR , 1977												
29...	59	24	14	.1	1.4	130	116	<1	.20	.01	.09	.10
JUN												
28...	56	21	14	.1	.2	145	111	<1	--	--	--	--
SEP												
20...	56	22	13	.0	.9	123	110	1	.03	.01	.21	.22

DATE	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL MARTIN (M) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT , 1975											
30...	.31	.02	--	50	0	0	0	0	1	10	110
DEC											
15...	.29	.02	--	100	0	0	1	10	0	10	160
MAR , 1975											
29...	.45	.01	--	100	0	0	0	0	0	20	160
JUN											
15...	.42	.02	--	50	0	0	1	<10	0	20	110
SEP											
21...	.19	.02	--	50	4	0	1	10	1	20	70
NOV											
16...	.28	.03	--	50	1	0	1	<10	0	0	90
MAR , 1977											
29...	.30	.02	--	70	0	0	1	<10	1	30	140
JUN											
28...	--	--	--	70	2	0	0	10	0	27	90
SEP											
20...	.25	.12	.00	310	0	100	0	<10	1	90	370

STREAMS TRIBUTARY TO LAKE ONTARIO

337

04228919 HEMLOCK LAKE NEAR HEMLOCK, NY--Continued

WATER QUALITY DATA, OCTOBER 1975 TO SEPTEMBER 1977

DATE	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB- DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SILVER (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON- TIUM (SR) (UG/L)	TOTAL VANAD- IUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT , 1975											
30...	2	0	60	<.5	2	0	0	0	130	--	10
DEC											
15...	10	0	30	<.5	2	9	1	0	80	--	10
MAR , 1976											
29...	0	0	10	<.5	1	5	0	0	50	.0	10
JUN											
15...	7	0	10	<.5	1	4	0	0	60	--	30
SEP											
21...	5	0	10	<.5	0	2	0	0	70	--	10
NOV											
16...	5	0	40	<.5	0	1	0	0	50	--	10
MAR , 1977											
29...	9	0	10	<.5	2	4	0	0	100	--	40
JUN											
28...	7	0	10	.0	1	7	0	0	60	--	10
SEP											
20...	5	0	20	.0	0	3	0	0	60	--	40

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	TOTAL PCB (UG/L)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)
OCT , 1975										
30...	5.2	.01	.00	.0	--	.00	.0	.00	.00	.00
DEC										
15...	--	.02	.00	.0	--	.00	.0	.00	.00	.00
MAR , 1976										
29...	4.0	.00	.00	.0	.00	.00	.0	.00	.00	.00
JUN										
15...	4.4	.00	.10	.0	.00	.00	.0	.00	.00	.00
SEP										
21...	.8	.00	.00	.0	.00	.00	.0	.00	.00	.00
NOV										
16...	4.1	.00	.00	.0	.00	.00	.0	.00	.00	.00
MAR , 1977										
29...	--	.00	.00	.0	.00	.00	.0	.00	.00	.00
JUN										
28...	4.0	--	--	.0	.00	.00	.0	.00	.00	.00
SEP										
20...	8.3	.00	--	.0	.00	.00	.0	.00	.00	.00
NOV										
08...	8.1	.00	--	.0	.00	.00	.0	.00	.00	.00

DATE	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDO- SULFAN (UG/L)	TOTAL PARA- THION (UG/L)	DIS- SOLVED PARA- THION (UG/L)	TOTAL TRI- THION (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)
OCT , 1975									
30...	.00	.00	--	.00	--	.00	.00	.00	.00
DEC									
15...	.00	.00	--	.00	.00	.00	.00	.00	.00
MAR , 1976									
29...	.00	.00	--	.00	.00	.00	.00	.00	.00
JUN									
15...	.00	.00	--	.00	.00	.00	.00	.00	.00
SEP									
21...	.00	.00	--	.00	.00	.00	.00	.00	.00
NOV									
16...	.00	.00	--	.00	.00	.00	.00	.00	.00
MAR , 1977									
29...	.00	.00	--	.00	.00	.00	.00	.00	.00
JUN									
28...	.01	.00	.00	--	.00	.00	.00	.00	.00
SEP									
20...	--	.00	.00	--	--	--	--	.00	.00
NOV									
08...	.00	.00	.00	.00	--	.00	.00	.00	.00

STREAMS TRIBUTARY TO LAKE ONTARIO
04228919 HEMLOCK LAKE NEAR HEMLOCK, NY--Continued
WATER QUALITY DATA, OCTOBER 1975 TO SEPTEMBER 1977

DATE	TOTAL LINDANE (UG/L)	TOTAL MALA- THION (UG/L)	TOTAL METH- OXY- CHLOR (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL MIREX (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT , 1975									
30...	.00	.00	.00	.00	.00	--	.00	.00	.00
DEC									
15...	.00	.00	.00	.00	.00	--	.00	.00	.00
MAR , 1976									
29...	.00	.00	.00	.00	.00	--	.00	.00	.00
JUN									
15...	.00	.00	.00	.00	.00	--	.00	.00	.00
SEP									
21...	.00	.00	.00	.00	.00	--	.00	.00	.00
NOV									
16...	.00	.00	.00	.00	.00	--	.00	.00	.00
MAR , 1977									
29...	.00	.00	.00	.00	.00	--	.00	.00	.00
JUN									
28...	.00	.00	.00	.00	.00	.00	.00	.00	.00
SEP									
20...	.00	--	.00	--	--	.00	.00	.00	.00
NOV									
08...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED STRON- TIUM 90 (PC/L)
OCT , 1975								
30...	7.5	<.4	2.9	<.4	2.3	<.4	.02	<.4
DEC								
15...	<1.5	<.4	3.0	<.4	2.4	<.4	.02	.4
MAR , 1976								
29...	<1.3	<.4	2.7	<.4	2.1	<.4	<.01	--
JUN								
15...	<1.4	<.4	2.1	<.4	1.7	<.4	.02	<.4
SEP								
21...	<1.3	.5	1.7	1.2	1.4	1.2	.05	<.4
NOV								
16...	<1.3	<.4	2.6	<.4	2.1	<.4	.06	.7
MAR , 1977								
29...	<1.2	<.4	2.7	.5	2.1	.4	.09	<.4
JUN								
28...	<1.8	<.4	3.1	<.4	2.5	<4.0	.08	<.4
SEP								
20...	<1.5	<.4	3.1	.4	2.5	.4	.10	.5
NOV								
08...	<1.3	<.4	3.8	<.4	3.5	<.4	.16	.4

STREAMS TRIBUTARY TO LAKE ONTARIO

339

04228950 CANADICE LAKE NEAR HEMLOCK, NY

04229000 CANADICE OUTLET NEAR HEMLOCK, NY

LOCATION.--Lake: Lat 42°44'27", long 77°34'20", Ontario County, Hydrologic Unit 04130003, at dam at outlet of Canadice Lake, 3.6 mi (5.8 km) upstream from point of diversion to Hemlock Lake, and 4 mi (6 km) southeast of Hemlock. Outlet: Lat 42°44'27", long 77°34'20", Ontario County, upstream from weir, 60 ft (18.3 m) downstream from dam.

DRAINAGE AREA.--12.4 mi² (32.1 km²).

PERIOD OF RECORD.--Lake: October 1970 to current year.

Outlet: April 1903 to current year. Prior to October 1966, published as "Canadice Lake Outlet."

REVISED RECORDS.--WRD NY 1967: Drainage area. WRD NY 1968: 1967.

GAGE.--Nonrecording gage read once daily and whenever control gate is changed. Datum of gage is 1,093.00 ft (333.146 m) above mean sea level (furnished by city of Rochester).

REMARKS.--Outflow from Canadice Lake diverted into Hemlock Lake for Rochester water supply. Flow regulated by gates at dam and augmented by pumping. Discharge computed by weir formula and from pumping records. Intermittent flow over spillway is not monitored. Accuracy of adjusted record, as indicative of natural runoff, is therefore reduced.

COOPERATION.--Records furnished by Department of Public Works, City of Rochester.

AVERAGE DISCHARGE.--74 years, 11.4 ft³/s (0.323 m³/s), unadjusted.

MONTHEND ELEVATION, CONTENTS, AND MONTHLY DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCT. 1976 TO SEPT. 1977

04228950 CANADICE LAKE

04229000 CANADICE OUTLET

	* Elevation FT	Contents FT ³	Change in contents FT ³ /S	Observed discharge MEAN	† Adjusted for change in contents in Canadice Lake MEAN	CFSM	IN.
October	1,098.83	493.22	+24.8	0	24.8	2.00	2.30
November	1,097.55	450.15	-16.6	15.3	- 1.33	- .11	- .12
December	1,095.85	395.35	-20.5	23.2	2.77	.22	.26
CAL YR 1976			+ .17	5.88	6.04	.49	6.64
January	1,094.52	354.60	-15.2	20.0	4.81	.39	.45
February	1,095.68	390.08	+14.7	2.03	16.7	1.35	1.40
March	1,098.93	496.62	+39.8	0	39.8	3.21	3.70
April	1,098.84	493.56	- 1.18	0	- 1.18	- .10	- .11
May	1,098.65	487.10	- 2.41	0	- 2.41	- .19	- .22
June	1,097.28	441.24	-17.7	16.4	- 1.30	- .10	- .12
July	1,095.38	380.78	-22.6	24.3	1.75	.14	.16
August	1,095.12	372.72	- 3.01	12.2	9.16	.74	.85
September	1,098.75	490.50	+45.4	8.49	53.9	4.35	4.85
WTR YR 1977			+ 2.02	10.2	12.2	.98	13.41

* Elevation at 2400 hours on last day of month.

† Adjustments by Geological Survey. Negative figures indicate that natural losses from Canadice Lake exceeded inflow or that unmonitored spillage occurred.

NOTE.--All figures of contents expressed in millions.

STREAMS TRIBUTARY TO LAKE ONTARIO

04229500 HONEOYE CREEK AT HONEOYE FALLS, NY

LOCATION.--Lat 42°57'24", long 77°35'21", Monroe County, Hydrologic Unit 04130003, on right bank 25 ft (8 m) downstream from bridge on State Highway 65 at Honeoye Falls, and 13 mi (21 km) upstream from mouth.

DRAINAGE AREA.--195 mi² (505 km²).

PERIOD OF RECORD.--October 1945 to September 1970, October 1972 to current year.

REVISED RECORDS.--WRD NY 1966: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 610.00 ft (185.928 m) above mean sea level. Prior to Sept. 30, 1970, water-stage recorder at same site at datum 609.76 ft (185.855 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Outlet of Honeoye Lake not controlled (see station 04228845). Some diversion from and regulation by Hemlock and Canadice Lakes for water supply of city of Rochester. Diurnal fluctuation at low flow caused by mills upstream from station. Prior to 1967 water year, published monthly figures adjusted for change in contents in, and diversion from, Hemlock and Canadice Lakes. During low-water periods the village of Honeoye Falls pumps water from two deep wells with maximum pumping capacity of 600 gpm (1.3 ft³/s or 0.037 m³/s). This pumped water enters creek upstream from gage.

AVERAGE DISCHARGE.--30 years (1946-70, 1973-77), 118 ft³/s (3.342 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,630 ft³/s (131 m³/s) Mar. 28, 1950, gage height, 6.42 ft (1.957 m), from rating curve extended above 2,100 ft³/s (59.5 m³/s); minimum, 0.06 ft³/s (0.002 m³/s) Aug. 28, 1949.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,560 ft³/s (72.5 m³/s) Sept. 20, gage height, 4.46 ft (1.359 m); minimum discharge, 6.0 ft³/s (0.17 m³/s) Oct. 7, 8, July 6; minimum gage height, 0.34 ft (0.104 m) Oct. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	639	110	120	22	700	295	188	21	9.2	16	35
2	9.9	414	84	120	21	520	250	165	25	7.3	21	33
3	9.0	279	84	120	21	410	283	153	26	6.8	28	31
4	8.7	234	120	110	22	340	275	134	23	6.5	17	32
5	7.8	199	100	110	21	554	250	166	21	6.3	17	30
6	7.0	176	86	110	20	500	227	208	18	8.5	19	29
7	6.0	174	94	110	21	305	179	166	16	19	19	30
8	6.8	153	180	100	22	250	163	132	15	20.8	27	27
9	53	134	150	100	23	279	141	132	14	14.6	35	25
10	639	139	130	100	24	385	128	211	13	53	38	22
11	399	166	120	96	26	385	119	211	12	37	64	21
12	144	143	110	92	31	344	109	176	12	35	85	18
13	85	126	96	88	86	460	99	153	11	39	128	19
14	79	115	100	86	170	575	89	130	11	37	69	125
15	76	111	110	84	140	434	79	115	13	32	46	182
16	65	103	110	80	110	362	72	101	13	29	41	240
17	53	99	119	74	94	315	67	94	9.9	34	518	716
18	47	98	128	70	78	264	64	85	11	39	590	653
19	43	99	130	68	68	227	61	80	13	35	240	1660
20	43	105	130	68	58	218	61	76	15	31	96	2030
21	708	101	200	66	54	221	58	70	13	29	65	1650
22	825	98	250	62	50	299	61	61	9.5	25	69	1020
23	466	92	230	60	50	311	279	56	8.5	22	77	744
24	306	90	200	58	88	306	1020	48	7.6	20	75	625
25	344	87	180	56	590	218	872	51	14	19	111	1280
26	362	87	170	52	640	214	599	43	25	20	77	1270
27	287	98	150	46	520	240	476	35	32	19	54	1120
28	230	98	140	39	820	459	371	29	18	16	45	976
29	199	92	130	32	---	606	279	26	12	15	39	800
30	176	80	120	27	---	455	224	23	10	15	37	709
31	335	---	120	24	---	344	---	21	---	15	37	---
TOTAL	6030.2	4629	4181	2428	3880	11601	7250	3340	462.5	1033.6	2800	16152
MEAN	195	154	135	78.3	139	374	242	108	15.4	33.3	90.3	538
MAX	825	639	250	120	820	700	1020	211	32	20.8	590	2030
MIN	6.0	80	84	24	20	214	58	21	7.6	6.3	16	18
CAL YR 1976	TOTAL	92093.7	MEAN	252	MAX	3270	MIN	6.0				
WTR YR 1977	TOTAL	63787.3	MEAN	175	MAX	2030	MIN	6.0				

STREAMS TRIBUTARY TO LAKE ONTARIO

341

04230380 OATKA CREEK AT WARSAW, NY

LOCATION.--Lat 42°44'39", long 78°08'16", Wyoming County, Hydrologic Unit 04130003, on right bank 400 ft (122 m) downstream from bridge on Court Street, Warsaw. Water-quality sampling site at discharge station.

DRAINAGE AREA.--41.9 mi² (109 km²).

WATER-DISCHARGE RECORDS.

PERIOD OF RECORD.--December 1963 to current year.

REVISED RECORDS.--WRD NY 1966: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 987.15 ft (300.883 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--13 years (1964-77), 52.5 ft³/s (1.487 m³/s), 17.02 in/yr (432 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,010 ft³/s (114 m³/s) June 23, 1972, gage height, 9.75 ft (2.972 m), from rating curve extended above 1,770 ft³/s (50.1 m³/s) on basis of slope-area measurement of peak discharge; minimum, 0.90 ft³/s (0.025 m³/s) Aug. 1, 1965; minimum gage height, 1.09 ft (0.332 m) July 22, 23, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 690 ft³/s (19.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 13	0630	1,480 41.9	6.37 1.942	Sept. 20	0900	1,550 43.9	6.56 1.999
Apr. 23	2245	1,200 34.0	5.59 1.704	Sept. 24	2400	*2,020 57.2	*7.56 2.304
Sept. 16	1000	792 22.4	4.42 1.347				

Minimum discharge, 3.5 ft³/s (0.099 m³/s) July 2, 3, 4, 6; minimum gage height, 1.28 ft (0.390 m) Aug. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	146	41	24	13	119	132	45	13	5.1	12	13
2	9.4	81	33	26	13	110	142	46	12	3.9	7.7	13
3	8.9	65	34	25	13	84	204	46	11	3.9	6.1	15
4	8.3	53	35	24	14	137	107	48	9.7	4.7	5.2	12
5	7.2	46	33	22	13	256	105	118	9.1	4.3	6.1	9.8
6	6.6	43	39	22	12	172	92	67	9.1	34	10	9.8
7	6.6	40	76	22	13	114	78	45	9.7	138	11	8.4
8	10	36	60	21	14	108	74	38	9.1	196	59	8.4
9	110	33	46	20	15	225	62	42	10	42	48	7.0
10	116	48	50	19	16	436	60	46	11	32	66	6.1
11	42	43	72	18	20	391	62	36	9.7	25	37	5.7
12	26	39	50	18	20	439	58	29	8.5	24	122	5.6
13	21	35	37	18	32	914	51	27	8.5	53	31	28
14	37	33	40	18	40	336	46	24	7.9	21	72	164
15	28	33	38	18	46	231	39	21	7.3	13	45	18
16	20	32	37	17	44	192	35	19	6.7	11	23	484
17	17	31	36	16	42	127	32	17	7.9	9.8	223	265
18	15	35	34	15	40	92	30	17	9.1	7.7	43	295
19	14	40	58	15	38	82	29	21	8.5	14	25	298
20	16	37	163	15	35	74	28	17	6.1	14	19	851
21	125	32	112	15	32	84	25	15	5.5	9.1	16	331
22	137	29	72	14	32	96	30	13	5.1	7.0	170	144
23	112	28	56	14	40	74	534	12	4.3	6.6	42	88
24	163	28	48	14	70	64	468	12	4.7	6.1	60	379
25	206	28	44	14	170	67	190	17	35	9.8	39	701
26	116	99	42	14	146	65	118	12	15	7.7	23	337
27	69	123	38	13	170	98	90	10	7.3	6.1	26	199
28	53	69	36	12	203	345	71	9.7	6.1	5.7	24	116
29	48	42	33	12	---	357	58	9.1	9.7	5.7	21	88
30	42	35	28	12	---	219	51	9.1	6.1	10	27	75
31	277	---	25	13	---	255	---	9.1	---	6.6	16	---
TOTAL	1878.0	1462	1546	540	1356	6363	3101	897.0	282.7	736.8	1335.1	4974.8
MEAN	60.6	48.7	49.9	17.4	48.4	205	103	28.9	9.42	23.8	43.1	166
MAX	277	146	163	26	203	914	534	118	35	196	223	851
MIN	6.6	28	25	12	12	64	25	9.1	4.3	3.9	5.2	5.6
CFSM	1.45	1.16	1.19	.42	1.16	4.89	2.46	.69	.22	.57	1.03	3.96
IN.	1.67	1.30	1.37	.48	1.20	5.65	2.75	.80	.25	.65	1.19	4.42
CAL YR 1976	TOTAL	27948.6	MEAN	76.4	MAX	1020	MIN	4.3	CFSM	1.82	IN	24.81
WTR YR 1977	TOTAL	24472.4	MEAN	67.0	MAX	914	MIN	3.9	CFSM	1.60	IN	21.73

STREAMS TRIBUTARY TO LAKE ONTARIO
04230380 OATKA CREEK AT WARSAW, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1965, 1970, 1975 to September 1977 (discontinued).

REVISIONS.--The instantaneous discharge and the suspended sediment discharge published in 1976 for Aug. 25, 1976 (1530 hours), have been revised to 9.0 (CFS) and 0.34 (T/Day), respectively, superseding values previously published.

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						APR					
13...	1325	25	9	.61	--	20...	1045	27	6	.44	--
14...	1050	42	5	.57	--	23...	1845	1050	1300	3690	63
NOV						24...	0945	420	257	291	85
17...	1030	31	5	.42	--	24...	1405	327	175	155	86
18...	1130	33	2	.18	--	25...	0925	192	59	31	--
27...	1015	123	19	6.0	94	MAY					
DEC						03...	1450	43	12	1.4	--
13...	1540	37	37	3.7	--	JUN					
17...	1030	36	6	.58	--	02...	1025	9.7	12	.31	--
JAN						03...	0940	264	20	14	--
21...	0945	14	19	.72	--	15...	1050	5.7	65	1.2	--
FEB						15...	1545	5.1	43	.71	--
22...	1515	33	28	2.5	--	JUL					
MAR						08...	1245	125	55	19	--
13...	1640	769	590	1220	76	08...	2015	57	37	5.7	--
13...	1830	684	502	927	74	27...	1600	6.1	20	.33	--
14...	0930	600	130	211	--	AUG					
24...	1015	50	19	2.6	--	17...	1500	150	94	38	94
28...	1245	327	406	358	77	SEP					
28...	1430	405	526	575	74	15...	1200	693	431	806	86
28...	1610	515	499	695	74	16...	1530	679	471	863	80
28...	1715	540	506	738	72	16...	1730	679	363	665	79
28...	1735	537	635	921	83	17...	1345	205	69	38	92
28...	1830	528	377	537	73						
28...	1940	513	367	508	--						
29...	1245	327	95	84	--						
29...	1625	387	126	132	--						
30...	1215	167	38	17	--						
30...	1605	204	62	34	--						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
SEP									
16...	1200	693	431	805	86	93	96	99	100
16...	1530	679	471	863	80	86	91	97	100
16...	1730	679	363	665	79	86	91	96	100
17...	1345	205	69	38	92	96	100	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

343

04230500 OATKA CREEK AT GARBUTT, NY

LOCATION.--Lat 43°00'36", long 77°47'30", Monroe County, Hydrologic Unit 04130003, on right bank 40 ft (12 m) downstream from bridge on Union Street in Garbutt, 1.5 mi (2.4 km) west of Scottsville, and 4.0 mi (6.4 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--204 mi² (528 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1945 to current year.

REVISED RECORDS.--WRD NY 1966: Drainage area. WRD NY 1971: 1960(M).

GAGE.--Water-stage recorder. Datum of gage is 560.89 ft (170.959 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--32 years, 208 ft³/s (5.891 m³/s), 13.85 in/yr (352 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,050 ft³/s (200 m³/s) Mar. 31, 1960, gage height, 8.64 ft (2.633 m); minimum, 3.3 ft³/s (0.093 m³/s) Sept. 11, 12, 1958; minimum gage height, 1.88 ft (0.573 m) June 19, 1959, result of regulation; minimum daily discharge, 13 ft³/s (0.37 m³/s) Oct. 30 to Nov. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	1800	2,560 72.5	6.05 1.844	Sept. 21	0330	2,590 73.3	6.22 1.896
Apr. 25	1130	2,230 63.2	5.78 1.762	Sept. 27	0130	*3,070 86.9	*6.52 1.987
Aug. 17	1615	1,700 48.1	5.28 1.609				

Minimum discharge, 34 ft³/s (0.96 m³/s) July 5, gage height, 2.34 ft (0.713 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	381	110	84	62	438	813	274	67	39	47	145
2	63	463	130	88	56	448	702	254	65	37	53	126
3	59	428	120	92	52	448	566	240	65	37	44	116
4	57	282	110	92	54	433	556	236	63	37	43	120
5	53	210	110	88	56	531	533	247	59	37	40	115
6	51	180	114	84	58	619	435	314	59	42	55	128
7	51	164	129	84	62	656	391	294	57	221	80	114
8	51	155	120	84	64	671	348	232	55	414	106	100
9	72	144	140	82	68	663	322	210	53	443	198	92
10	161	138	150	82	72	552	292	200	51	430	186	84
11	236	141	142	80	76	1570	279	200	51	210	163	77
12	214	152	168	78	66	1550	266	186	49	128	254	72
13	138	138	150	76	58	1590	253	170	49	137	268	76
14	108	129	120	78	60	2310	232	161	47	147	308	98
15	106	126	120	80	70	1850	213	152	46	131	228	192
16	111	123	120	74	80	1010	199	146	44	92	199	263
17	95	120	110	70	110	749	187	141	47	72	965	542
18	81	117	110	70	120	619	177	135	47	62	672	711
19	74	117	110	76	120	486	169	132	46	56	424	1520
20	72	117	120	84	110	427	114	132	44	53	250	1850
21	117	117	140	86	110	411	139	132	42	52	174	2410
22	210	114	190	94	120	499	155	120	42	58	295	2040
23	247	106	170	82	123	493	267	108	41	50	392	1150
24	266	100	140	84	126	460	1150	100	41	44	486	678
25	278	97	120	86	164	395	2020	92	46	42	421	1740
26	310	100	120	82	240	364	1180	87	44	41	319	2550
27	331	106	110	72	331	383	683	84	46	41	227	2450
28	270	200	100	80	404	617	479	77	55	41	191	1350
29	190	207	94	56	---	940	371	72	47	42	181	904
30	155	164	82	64	---	1220	310	67	42	61	157	635
31	183	---	82	74	---	986	---	65	---	46	154	---
TOTAL	4484	5136	3851	2456	3092	24789	13801	5060	1510	3343	7580	22448
MEAN	145	171	124	79.2	110	800	460	163	50.3	108	245	748
MAX	331	463	190	92	404	2310	2020	314	67	443	965	2550
MIN	51	97	82	56	52	364	114	65	41	37	40	72
CFSM	.71	.84	.61	.39	.54	3.92	2.25	.80	.25	.53	1.20	3.67
IN.	.82	.94	.70	.45	.56	4.52	2.52	.92	.28	.61	1.38	4.09

CAL YR 1976	TOTAL	117082	MEAN 320	MAX 5740	MIN 49	CFSM 1.57	IN 21.35
WTR YR 1977	TOTAL	97550	MEAN 267	MAX 2550	MIN 37	CFSM 1.31	IN 17.79

STREAMS TRIBUTARY TO LAKE ONTARIO

04230500 OATKA CREEK AT GARBUTT, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1960, 1961, 1964, 1965, 1971, 1975 to September 1977 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: March 1975 to September 1977.

REMARKS.--Additional water-quality data available from New York State Department of Environmental Conservation.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 282 mg/L Aug. 17, 1977, minimum daily mean, 0 mg/L

Apr. 14, 1975.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 2,980 tons (2,700 Mg) Mar. 5, 1976, minimum daily, 0 ton (0 Mg)

Apr. 14, 1975.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 282 mg/L Aug. 17; minimum daily mean, 2 mg/L Dec. 19.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 963 tons (874 Mg) Aug. 17; minimum daily 0.33 ton (0.30 Mg) July 26.

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER * 0.062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER * 0.062 MM
JUL						SEP					
08...	1530	500	149	201	99	19...	1200	1650	107	477	95
08...	2200	479	122	158	98	20...	1015	1650	97	432	96
AUG						20...	1030	1570	96	433	98
16...	1900	1030	440	1220	99	20...	1300	2340	59	373	63
17...	1800	1590	390	1670	99	20...	1800	2540	61	418	97
19...	1245	418	44	50	100	21...	1800	2500	58	391	96
25...	1800	376	260	264	97	22...	0700	2270	38	233	95
28...	1800	174	35	16	74	22...	1800	1980	35	178	83
29...	2100	174	28	13	89	23...	1900	883	18	43	100
30...	2000	146	15	5.9	98	25...	0900	2040	156	859	99
SEP						25...	1200	2050	46	255	98
03...	1700	111	6	1.8	91	26...	1600	3040	72	591	97
06...	1100	146	7	2.8	71	26...	2000	2840	96	736	81
07...	1700	108	6	1.7	67	27...	0700	2760	49	365	96
08...	1000	111	12	3.6	92	27...	1700	2020	25	136	96
10...	1300	86	20	4.6	100	27...	2000	1830	27	133	92
16...	1700	258	8	5.6	100	29...	0700	946	25	64	88
17...	1530	536	44	64	89	29...	1800	810	16	35	88
17...	1900	515	31	43	97	30...	1700	579	13	20	92
18...	1600	810	42	92	95						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER * 0.062 MM	SUS. SED. SIEVE DIAM. % FINER * 0.125 MM	SUS. SED. SIEVE DIAM. % FINER * 0.250 MM	SUS. SED. SIEVE DIAM. % FINER * 0.500 MM
SEP								
17...	1530	536	44	64	89	93	95	100
20...	1030	1670	96	433	98	99	99	100
20...	1300	2340	59	373	63	73	86	100
22...	1800	1880	35	178	83	94	100	--
25...	0900	2040	156	859	99	99	100	--
26...	1600	3040	72	591	97	99	99	100
26...	2000	2840	96	736	81	96	100	--
27...	1700	2020	25	136	96	96	100	--

04230500 OATKA CREEK AT GARBUTT, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7	1.4	40	41	10	3.0	7	1.6	6	1.0	24	28
2	8	1.4	44	55	11	3.9	5	1.2	7	1.1	22	27
3	8	1.3	31	36	10	3.2	7	1.7	4	0.56	21	25
4	9	1.4	17	13	12	3.6	7	1.7	6	0.87	21	25
5	10	1.4	7	4.0	12	3.6	8	1.9	6	0.91	28	40
6	8	1.1	7	3.4	7	2.2	5	1.1	7	1.1	20	33
7	6	0.83	7	3.1	6	2.1	5	1.1	5	0.84	23	41
8	6	0.83	7	2.9	7	2.3	5	1.1	5	0.86	27	49
9	9	1.7	9	3.5	8	3.0	4	0.89	5	0.92	22	39
10	19	8.3	9	3.4	7	2.8	5	1.1	4	0.78	73	188
11	21	13	11	4.2	9	3.5	5	1.1	6	1.2	88	373
12	14	8.1	17	7.0	9	4.1	6	1.3	4	0.71	44	184
13	8	3.0	8	3.0	8	3.2	6	1.2	4	0.63	50	215
14	5	1.5	9	3.1	7	2.3	5	1.1	5	0.81	82	511
15	4	1.1	22	7.5	6	1.9	5	1.1	5	0.94	48	240
16	4	1.2	10	3.3	4	1.3	5	1.0	6	1.3	24	65
17	4	1.0	5	1.6	5	1.5	6	1.1	4	1.2	18	36
18	5	1.1	6	1.9	4	1.2	7	1.3	6	1.9	15	25
19	3	0.60	18	5.7	2	0.59	8	1.6	5	1.6	14	18
20	3	0.58	15	4.7	3	0.97	5	1.1	5	1.5	12	14
21	5	1.6	8	2.5	9	3.4	14	3.3	6	1.8	12	13
22	13	7.4	6	1.8	14	7.2	14	3.2	7	2.3	20	27
23	14	9.3	5	1.4	11	5.0	6	1.3	5	1.7	16	21
24	13	9.3	6	1.6	7	2.6	9	2.0	4	1.4	15	19
25	14	11	6	1.6	5	1.6	7	1.6	8	3.5	12	13
26	14	12	7	1.9	4	1.3	6	1.3	18	12	8	7.9
27	15	13	7	2.0	4	1.2	6	1.2	29	26	10	10
28	13	9.5	13	7.0	3	0.81	7	1.1	27	29	26	43
29	10	5.1	11	6.1	7	1.8	7	1.1	---	---	42	107
30	7	2.9	10	4.4	7	1.5	7	1.2	---	---	37	122
31	10	4.9	---	---	7	1.5	6	1.2	---	---	24	64
TOTAL	---	136.84	---	237.6	---	78.17	---	43.79	---	98.43	---	2622.9
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	21	46	9	6.7	10	1.8	7	0.74	3	0.38	8	3.1
2	18	34	9	6.2	12	2.1	11	1.1	5	0.72	7	2.4
3	15	23	8	5.2	11	1.9	6	0.60	11	1.3	6	1.9
4	15	23	8	5.1	10	1.7	7	0.70	6	0.70	7	2.3
5	14	20	9	6.0	8	1.3	10	1.0	6	0.65	5	1.6
6	12	14	11	9.3	9	1.4	10	1.1	12	1.8	6	2.1
7	9	9.5	12	9.5	12	1.8	73	64	26	5.6	7	2.2
8	7	6.6	10	6.3	13	1.9	130	145	25	7.2	11	3.0
9	7	6.1	8	4.5	12	1.7	78	93	24	13	12	3.0
10	9	7.1	7	3.8	12	1.7	52	60	17	8.5	19	4.3
11	11	8.3	6	3.2	13	1.8	22	12	13	5.7	15	3.1
12	14	10	6	3.0	17	2.2	13	4.5	36	25	9	1.7
13	16	11	5	2.3	18	2.4	12	4.4	41	30	8	1.6
14	14	8.8	5	2.2	13	1.6	10	4.0	38	32	8	2.1
15	11	6.3	6	2.5	9	1.1	10	3.5	27	17	15	7.8
16	11	5.9	5	2.0	12	1.4	9	2.2	23	12	14	9.9
17	9	4.5	3	1.1	14	1.8	10	1.9	282	963	36	53
18	9	4.3	4	1.5	12	1.5	8	1.3	148	269	40	77
19	10	4.6	4	1.4	10	1.2	7	1.1	49	56	86	369
20	8	2.5	6	2.1	8	0.95	5	0.72	32	22	52	260
21	8	3.0	7	2.5	8	0.91	5	0.70	21	9.9	64	416
22	13	5.4	9	2.9	8	0.91	4	0.63	33	26	37	204
23	16	12	10	2.9	8	0.89	5	0.68	23	24	20	62
24	79	254	15	4.1	8	0.89	6	0.71	49	64	17	31
25	87	474	18	4.5	8	0.99	4	0.45	54	61	126	671
26	34	108	14	3.3	8	0.95	3	0.33	48	41	94	647
27	21	39	12	2.7	9	1.1	7	0.77	43	26	43	284
28	15	19	11	2.3	10	1.5	14	1.5	37	19	23	84
29	11	11	10	1.9	8	1.0	11	1.2	31	15	20	49
30	10	8.4	9	1.6	8	0.91	7	1.2	19	8.1	14	24
31	---	---	9	1.6	---	---	6	0.75	12	5.0	---	---
TOTAL	---	1189.3	---	114.2	---	43.30	---	411.78	---	1770.55	---	3283.1

STREAMS TRIBUTARY TO LAKE ONTARIO

04230650 GENESEE RIVER AT BALLANTYNE BRIDGE NEAR MORTIMER, NY

LOCATION.--Lat 43°05'26", long 77°40'52", Monroe County, Hydrologic Unit 04130003, on right bank 400 ft (120 m) upstream from Ballantyne Bridge on State Highway 252, 1.6 mi (2.6 km) west of Mortimer, and 2.8 mi (4.5 km) upstream from Erie (Barge) Canal.

DRAINAGE AREA.--2,206 mi² (5714 km²).

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft (152.400 m) above mean sea level.

REMARKS.--River regulated at high stages by Mount Morris Lake (see station 04224000). River regulated for operation of Erie (Barge) Canal and downstream power plants.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 19.33 ft (5.892 m) Mar. 5, 1976; minimum, 8.21 ft (2.502 m) Dec. 20, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 16.93 ft (5.160 m) Sept. 25; minimum, 9.35 ft (2.850 m) Dec. 4.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.15	13.44	11.58	11.97	11.90	11.51	14.51	13.70	11.80	12.09	11.91	12.11
2	12.13	13.49	11.71	11.82	11.97	11.03	14.62	13.04	11.82	11.98	12.45	11.95
3	12.10	13.13	11.56	11.47	11.89	11.21	14.11	12.48	11.74	11.88	12.03	12.13
4	12.08	12.71	10.00	11.52	11.97	11.70	13.78	12.42	11.71	11.95	11.87	12.12
5	12.06	12.44	11.55	11.84	12.01	12.83	12.79	12.12	11.68	11.99	11.91	11.97
6	12.10	12.23	12.00	11.78	11.97	13.79	12.89	12.28	11.67	12.00	11.76	11.94
7	12.13	12.28	11.85	11.81	11.93	13.58	13.73	12.51	11.74	12.08	12.27	11.88
8	12.13	11.95	11.81	11.74	12.05	13.59	13.43	12.41	11.80	13.11	12.96	11.94
9	12.30	11.97	11.96	11.92	12.04	13.75	12.86	12.50	11.84	13.52	13.25	12.14
10	12.60	11.75	12.03	12.03	11.93	13.92	12.28	12.43	11.79	13.51	12.43	12.09
11	12.65	11.64	12.11	11.79	11.44	14.56	12.50	12.42	11.75	13.24	12.17	11.89
12	12.50	11.83	12.02	11.70	9.97	14.55	11.94	12.18	11.85	12.77	12.11	12.03
13	12.52	11.68	12.07	11.81	9.84	14.67	10.67	11.99	11.73	12.40	12.25	12.00
14	12.56	11.77	11.98	11.92	10.13	15.40	12.16	12.07	11.68	12.45	11.99	11.91
15	12.58	11.68	11.96	11.83	10.41	15.14	12.18	11.93	11.75	12.15	12.17	13.15
16	12.50	11.78	12.01	11.89	10.42	14.96	12.05	11.82	11.85	12.00	12.04	13.46
17	12.26	11.86	11.91	11.69	10.58	14.94	11.77	11.78	11.78	12.02	12.67	13.62
18	12.15	11.62	12.12	11.95	10.53	14.81	12.09	11.86	11.75	12.08	13.33	14.09
19	12.18	11.56	12.08	11.91	10.38	14.62	11.97	11.79	11.76	12.02	12.47	15.88
20	12.18	11.46	11.90	11.82	10.83	14.05	11.96	11.71	11.82	11.98	12.20	16.44
21	12.45	11.53	11.92	11.96	11.28	13.61	11.86	11.77	11.84	12.02	11.84	16.49
22	13.50	10.92	11.92	11.99	10.60	13.46	12.05	11.74	11.79	12.05	11.96	15.19
23	13.37	10.98	11.94	12.00	9.68	13.02	12.12	11.62	11.76	11.84	12.36	15.05
24	13.06	11.11	11.76	11.94	9.86	12.59	13.93	11.72	11.73	11.83	12.35	15.40
25	13.07	11.52	11.85	11.98	10.53	12.35	14.80	11.88	11.85	11.97	12.63	16.40
26	13.36	11.94	12.08	11.95	11.38	12.50	14.39	11.98	11.99	12.00	12.36	16.63
27	13.38	11.63	12.10	11.93	11.12	12.38	14.33	11.80	12.06	12.24	12.05	15.86
28	13.39	11.93	12.07	11.93	11.35	12.61	14.80	11.72	12.01	11.73	12.07	15.34
29	12.92	11.95	12.25	11.88	---	13.44	14.96	11.70	11.76	11.72	12.09	15.47
30	12.56	11.71	12.09	11.93	---	13.74	14.51	11.79	11.77	11.70	12.02	15.53
31	12.37	---	11.97	11.84	---	14.02	---	11.83	---	12.00	12.27	---
MEAN	12.56	11.92	11.88	11.96	11.07	13.49	13.07	12.10	11.80	12.20	12.27	13.74
MAX	13.50	13.49	12.25	12.03	12.05	15.40	14.96	13.70	12.06	13.52	13.33	16.63
MIN	12.06	10.92	10.00	11.47	9.68	11.03	10.67	11.62	11.67	11.70	11.76	11.88
CAL YR 1976	MEAN 12.60		MAX 19.15	MIN 8.87								
WTR YR 1977	MEAN 12.34		MAX 16.63	MIN 9.68								

STREAMS TRIBUTARY TO LAKE ONTARIO

347

04231000 BLACK CREEK AT CHURCHVILLE, NY

LOCATION.--Lat 43°06'02", long 77°52'57", Monroe County, Hydrologic Unit 04130003, on right bank at east end of Carol Street in Churchville, 100 ft (30 m) downstream from main-line tracks of Penn Central Transportation Co., and 0.3 mi (0.5 km) downstream from Black Creek Dam.

DRAINAGE AREA.--123 mi² (319 km²).

PERIOD OF RECORD.--October 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 552.45 ft (168.387 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair except those for winter periods, which are poor. Prior to May 1952, small diversion by Penn Central Transportation Co. and slight regulation by pumping operations upstream from station.

AVERAGE DISCHARGE.--32 years, 111 ft³/s (3.144 m³/s), 12.26 in/yr (311 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft³/s (138 m³/s) Mar. 31, 1960, gage height, 9.44 ft (2.877 m); minimum, 0.22 ft³/s (0.006 m³/s) Aug. 19, 1970; minimum gage height, 0.93 ft (0.283 m) Aug. 5-7, Sept. 15, 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (22.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 11	0430	1,120 31.7	5.25 1.600	Apr. 25	1600	979 27.7	4.95 1.509
Mar. 14	1500	1,100 31.2	5.19 1.582	Sept. 26	2130	*1,860 52.7	*6.87 2.094

Minimum discharge, 2.7 ft³/s (0.076 m³/s) July 29, gage height, 1.23 ft (0.375 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	120	25	38	14	300	254	122	22	12	17	38
2	23	149	23	35	13	400	211	110	22	8.8	17	34
3	22	134	22	33	13	416	198	102	19	9.7	14	33
4	19	95	21	32	13	413	214	94	17	8.8	12	32
5	18	76	23	31	13	504	200	95	15	8.8	9.2	32
6	17	66	25	30	13	637	172	105	15	13	14	32
7	16	59	32	29	13	674	149	102	16	29	27	38
8	17	55	40	29	13	594	139	86	16	58	72	34
9	38	51	36	31	13	582	136	75	15	84	125	28
10	102	51	34	40	13	444	123	75	15	95	175	25
11	138	54	46	30	25	1100	117	68	14	48	162	22
12	117	54	50	25	30	741	107	54	13	28	102	21
13	75	50	44	24	35	431	100	44	13	23	73	28
14	59	46	37	23	35	1040	92	46	13	27	83	50
15	58	43	34	22	33	831	86	43	12	25	115	58
16	50	40	32	21	30	469	80	34	11	17	144	64
17	44	39	31	20	26	336	76	36	12	14	141	94
18	38	40	30	19	23	269	73	33	19	12	175	139
19	34	40	34	19	22	204	71	32	20	9.7	429	198
20	35	34	46	18	22	198	71	30	17	10	252	317
21	71	39	59	18	21	213	64	24	13	9.7	86	578
22	103	37	64	17	21	279	73	26	11	7.3	110	674
23	95	30	50	16	20	301	162	24	9.7	6.1	166	407
24	79	32	40	16	50	291	462	23	9.7	4.7	312	224
25	76	33	36	16	150	233	914	22	12	5.0	281	493
26	86	34	35	21	160	204	723	19	15	4.7	307	1420
27	87	38	34	24	170	224	426	19	14	3.4	215	1420
28	76	39	36	20	200	307	271	17	13	3.2	102	941
29	64	39	40	17	---	429	187	16	13	6.1	65	659
30	55	27	45	15	---	434	144	16	13	22	50	379
31	75	---	44	14	---	350	---	17	---	21	43	---
TOTAL	1814	1649	1148	748	1204	14853	6115	1623	439.4	634.0	3895.2	8512
MEAN	58.5	55.0	37.0	24.1	43.0	479	204	52.4	14.6	20.5	126	284
MAX	138	149	64	40	200	1100	914	122	22	95	429	1420
MIN	16	27	21	14	13	198	64	15	9.7	3.2	9.2	21
CFSM	.48	.45	.30	.20	.35	3.89	1.66	.43	.12	.17	1.02	2.31
IN.	.55	.50	.35	.23	.36	4.49	1.85	.49	.13	.19	1.18	2.57
CAL YR 1976	TOTAL	52732.0	MEAN	144	MAX	2120	MIN	11	CFSM	1.17	IN	15.95
WTR YR 1977	TOTAL	42634.6	MEAN	117	MAX	1420	MIN	3.2	CFSM	.95	IN	12.89

04232000 GENESEE RIVER AT ROCHESTER, NY

LOCATION.--Lat 43°10'50", long 77°37'40", Monroe County, Hydrologic Unit 04130003, on right bank 40 ft (12 m) downstream from plant 5 of Rochester Gas and Electric Corp., 100 ft (30 m) upstream from bridge on Driving Park Avenue in Rochester, and 6.1 mi (9.8 km) upstream from mouth. Sediment samples collected at footbridge, 1.3 mi (2.1 km) upstream from discharge station.

DRAINAGE AREA.--2,457 mi² (6,364 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1904 to September 1918, December 1919 to current year. Published as "at Driving Park Avenue," 1919-68.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 246.24 ft (75.054 m) above mean sea level (247.00 ft or 75.286 m, Barge Canal datum). April 1904 to December 1910, nonrecording gage and December 1910 to September 1918, water-stage recorder at site 5 mi (8 km) upstream at datum 506.85 ft (154.488 m), Barge Canal datum. December 1919 to Apr. 4, 1927, water-stage recorder in plant 5, and Apr. 4, 1927 to June 19, 1956, at present site at datum 250.00 ft (76.200 m), Barge Canal datum.

REMARKS.--Records fair. Extensive diurnal fluctuation caused by powerplants upstream from station. New York State Erie (Barge) Canal crosses river 5.4 mi (8.7 km) upstream from station. Water diverted by the canal from Lake Erie is discharged into river from the west, the canal again diverting a smaller amount of water from river to the east. Additional regulation is provided by Rushford Lake and Mount Morris Lake.

AVERAGE DISCHARGE.--70 years, (1905-18, 1920-77), 2,751 ft³/s (77.91 m³/s), 15.20 in/yr (386 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,300 ft³/s (1,370 m³/s) Mar. 30, 1916, gage height, 15.3 ft (4.66 m) site and datum then in use; maximum at present site, 34,400 ft³/s (974 m³/s) Mar. 19, 1942; maximum gage height, 17.08 ft (5.206 m) Apr. 2, 1940, present datum; minimum discharge, less than 10 ft³/s (0.28 m³/s), occurred during low-water periods when powerplant was shut down; minimum daily, 91 ft³/s (2.58 m³/s) Jan. 9, 29, Feb. 1, 8, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, about 54,000 ft³/s (1,530 m³/s) Mar. 18, 1865.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,500 ft³/s (496 m³/s) Sept. 19, gage height, 12.41 ft (3.783 m), result of regulation; minimum, 120 ft³/s (3.40 m³/s) Jan. 3, gage height, 0.73 ft (0.223 m), result of regulation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1130	6490	1930	1350	581	4450	10700	7100	896	912	1940	2240
2	1200	6790	1380	1250	588	4040	10800	5110	1050	1130	2990	1570
3	1120	5730	1530	1110	675	4260	9140	4070	878	594	2950	1730
4	1090	4890	1270	951	595	4610	8140	3730	844	578	1250	2290
5	664	3800	893	906	663	5470	5660	3600	768	818	1040	1740
6	845	3050	1700	1670	672	7050	5570	3190	621	679	994	1430
7	1100	2840	1720	1070	637	6700	7600	3820	597	2150	3160	1200
8	1300	3010	1500	932	683	7130	6920	4020	628	5670	5920	1050
9	2240	2230	1530	984	630	8500	5020	3900	680	7270	6810	832
10	4880	2260	1690	913	727	8710	4400	3880	753	6840	4550	1010
11	5320	2090	1920	904	1130	10100	4230	3880	710	6040	2590	837
12	4550	2950	1940	849	971	10200	3720	3350	779	4680	2610	713
13	4340	2290	2040	714	1000	11000	2420	2490	960	4290	2980	1020
14	4590	2390	1560	764	1230	12300	2670	2930	732	4330	3200	1180
15	4630	2450	1730	820	1720	11300	2720	2400	568	3290	2490	6020
16	4430	2250	1630	751	1860	11300	2140	1630	555	2160	3320	8100
17	3270	2120	1760	799	1870	11300	1690	1110	781	1390	3930	8150
18	2190	2580	1710	772	1760	10300	1720	1260	711	1560	7170	9350
19	1890	2380	1760	752	1530	10600	1780	1980	778	1300	4140	13200
20	1920	2410	1900	715	1230	9280	1750	1890	826	1390	2710	14300
21	3680	2450	1760	776	1350	8120	1610	1380	877	956	2110	14200
22	7270	2360	1800	719	1630	7690	1830	1570	712	972	2170	11500
23	6780	1710	1860	771	1260	6650	2950	1620	513	1010	3010	10600
24	5650	1700	1900	740	1280	5680	8940	885	506	604	3780	11300
25	5560	1390	1420	802	2140	4700	11200	1200	519	642	4240	13700
26	6150	1710	1810	758	3850	4240	9790	2220	607	561	3930	14400
27	6240	2230	1530	787	3960	4180	9380	1240	1200	1120	2690	12900
28	6270	3350	1720	664	4280	5020	10700	1190	1390	1160	2120	11400
29	5010	2730	1370	704	---	6630	10700	782	1130	836	2250	11800
30	4040	2660	1560	599	---	8050	9560	775	542	831	1450	11900
31	3810	---	1340	670	---	8300	---	765	---	869	2080	---
TOTAL	113399	87290	51163	26406	40552	239570	175450	78968	23111	66632	96574	201662
MEAN	3658	2910	1650	852	1448	7728	5848	2547	770	2149	3115	6722
MAX	7270	6790	2040	1350	4280	12800	11200	7100	1390	7270	7170	14400
MIN	845	1390	893	599	581	4040	1610	765	506	561	994	713
CAL YR 1976 TOTAL	1459219			3987		21700						
WTR YR 1977 TOTAL	1200777			3290		14400						

STREAMS TRIBUTARY TO LAKE ONTARIO

04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955 to September 1977 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: April 1975 to September 1977.

REMARKS.--Prior to October 1967, published as "at Driving Park Avenue." Additional water-quality data available from New York State Department of Environmental Conservation.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,450 mg/L Sept. 19, 1977; minimum daily mean, 3 mg/L June 29, 1977.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 91,400 tons (82,900 Mg) Feb. 18, 1976; minimum daily, 9.2 tons (8.4 Mg) June 29, 1977.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,450 mg/L Sept. 19; minimum daily mean, 3 mg/L June 29. SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 88,900 tons (80,600 Mg) Sept. 19; minimum daily, 9.2 tons (8.4 Mg) June 29.

REVISIONS.--The table of Particle-Size Distribution of Suspended Sediment published for water year 1976 did not contain all of the data available. Also, some values have been revised or are to be deleted. The following table gives the additional and the revised values and shows the deletions.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT CHARGE (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
FEB								
20...	1700	(DELETE ALL VALUES FOR THIS DATE AND TIME)						
21...	1400	(DELETE ALL VALUES FOR THIS DATE AND TIME)						
21...	1700	10600	445	12700	90	96	100	--
21...	1730	9250	417	10400	88	--	--	--
21...	1930	(DELETE ALL VALUES FOR THIS DATE AND TIME)						
22...	1700	13000	626	22000	81	89	97	100
24...	2300	12300	886	29400	84	93	99	100
MAR								
05...	1800	(DELETE ALL VALUES FOR THIS DATE AND TIME)						
06...	1800	19900	503	27000	65	76	90	100
08...	0700	15000	408	16500	76	--	--	--
14...	1700	11300	379	11600	72	--	--	--
20...	1400	(DELETE ALL VALUES FOR THIS DATE AND TIME)						
20...	1700	(DELETE ALL VALUES FOR THIS DATE AND TIME)						
20...	2330	(DELETE ALL VALUES FOR THIS DATE AND TIME)						
21...	2330	12200	245	8070	70	85	98	100
27...	1130	8650	148	3460	90	--	--	--
29...	2300	7640	172	3550	90	--	--	--
30...	0700	7700	151	3140	94	--	--	--
30...	1200	7500	142	2880	86	--	--	--
30...	1300	7580	153	3130	98	--	--	--
30...	1400	7460	172	3460	92	--	--	--
30...	1500	7640	164	3380	88	--	--	--
31...	2200	(DELETE ALL VALUES FOR THIS DATE AND TIME)						

STREAMS TRIBUTARY TO LAKE ONTARIO

04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT CHARGE (MG/L)	SUS- PEN- DED SED- IMENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .052 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT CHARGE (MG/L)	SUS- PEN- DED SED- IMENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .052 MM
OCT						JUL					
11...	1700	5630	310	4710	99	09...	1400	7700	1050	21800	99
12...	0800	4670	265	3340	99	09...	1500	7640	1240	25600	99
12...	2300	3780	243	2440	99	09...	1600	7620	797	16400	99
13...	0800	4430	203	2430	99	09...	1700	7480	747	15100	99
13...	1530	4510	257	3130	100	09...	1800	7420	697	14000	99
22...	1700	7660	788	16300	100	10...	1200	6800	535	9820	99
23...	1100	6850	424	7840	100	13...	2000	4140	117	1310	100
NOV						16...	1130	2470	184	1230	99
01...	2000	7600	351	7200	99	AUG					
02...	0700	6740	258	4700	100	03...	1015	2640	268	1910	100
02...	1200	6650	276	4960	99	03...	2000	2580	412	2870	99
FEB						07...	1530	4600	146	1810	97
08...	1600	790	385	821	98	09...	1820	6740	493	8970	99
08...	2000	790	425	907	97	SEP					
MAR						16...	1730	7960	1310	28200	98
12...	1200	10100	461	12600	89	17...	1330	8280	694	15300	95
21...	1800	8360	402	9070	97	19...	1900	14170	2470	110000	78
23...	1800	6850	201	3720	99	20...	1200	13250	1420	50800	82
APR						21...	0700	14530	1350	53000	82
02...	1230	11000	425	18600	77	21...	1630	14040	1420	53800	88
24...	1200	10600	326	9330	95	22...	0700	12230	1200	39600	88
25...	1730	10900	759	22300	83	22...	1700	10500	498	14100	92
						23...	0700	10540	741	21100	88
						24...	1030	11560	664	20700	88
						25...	1030	13850	439	35100	86
						25...	1730	14200	885	33900	80
						27...	0700	13430	354	12800	87
						28...	1200	9180	344	8530	85

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT CHARGE (MG/L)	SUS- PEN- DED SED- IMENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
FEB							
08...	2000	790	425	907	--	--	--
JUL							
09...	1400	7700	1050	21800	42	60	78
SEP							
22...	1700	10500	498	14100	--	48	60

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
FEB						
08...	--	--	97	99	100	--
JUL						
09...	91	96	99	100	--	--
SEP						
22...	72	85	92	96	99	100

STREAMS TRIBUTARY TO LAKE ONTARIO

351

04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DIS- CHARGE (T/DAY)
OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	27	82	244	4280	90	469	13	48	10	16	230	2770
2	23	75	257	4710	65	242	16	54	11	17	225	2450
3	24	73	137	2120	45	186	14	42	10	18	140	1610
4	36	106	60	792	30	103	11	28	11	18	170	2120
5	24	56	33	339	20	48	21	51	11	20	260	3840
6	19	43	27	222	22	101	27	78	12	22	455	8660
7	19	56	27	207	32	149	22	64	18	31	330	5970
8	22	77	25	203	32	130	15	38	265	489	276	5560
9	90	544	21	126	24	99	13	35	235	400	720	16500
10	287	3780	23	140	15	68	11	27	44	86	524	12300
11	357	5130	19	107	12	62	12	29	14	43	568	15500
12	262	3220	19	151	12	63	51	117	6	16	490	13500
13	240	2810	19	117	12	66	45	87	7	19	405	12000
14	215	2660	18	116	12	51	36	74	5	17	915	32100
15	136	1700	16	106	12	55	17	38	6	28	620	19900
16	82	981	13	79	15	66	13	27	6	30	530	16200
17	60	530	25	143	13	62	16	35	9	45	475	14500
18	47	278	26	181	24	111	18	38	9	43	465	13700
19	40	204	23	148	23	109	17	35	9	37	455	13000
20	34	176	24	156	5	26	10	19	12	40	430	10800
21	48	477	24	159	6	29	16	34	14	51	415	9100
22	572	11700	24	153	5	24	28	54	11	48	330	6850
23	445	8150	26	120	11	55	36	75	16	54	205	3680
24	210	3200	27	124	15	77	25	50	17	59	435	6670
25	113	1700	29	109	16	61	22	48	110	636	285	3620
26	132	2190	30	139	26	127	23	47	180	1870	135	1550
27	180	3030	56	337	15	62	17	36	149	1590	90	1020
28	145	2450	373	3370	10	46	13	23	130	1500	77	1040
29	106	1430	300	2210	12	44	10	19	---	---	138	2470
30	92	1010	149	1070	16	67	10	16	---	---	299	6500
31	93	957	---	---	14	51	10	18	---	---	285	6390
TOTAL	---	58875	---	22234	---	2910	---	1384	---	7243	---	271870
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	425	12300	40	767	36	87	29	71	47	246	71	429
2	570	16600	30	414	20	57	33	101	62	501	45	191
3	460	11400	20	220	21	50	22	35	80	637	60	280
4	340	7470	24	242	19	43	12	19	245	827	75	464
5	78	1190	33	321	20	41	8	18	475	1330	70	329
6	260	3910	34	293	19	32	10	18	627	1680	65	251
7	710	14600	30	309	22	35	550	5730	1470	14300	52	168
8	400	7470	34	369	20	34	1620	24800	1130	17300	85	241
9	115	1560	41	432	23	42	1080	21100	620	11400	60	135
10	95	1130	74	775	22	45	510	9420	155	1900	80	218
11	90	1030	92	964	18	35	270	4400	110	769	85	192
12	78	783	70	633	40	84	70	885	100	705	55	106
13	90	588	48	323	79	205	80	927	120	966	60	165
14	70	505	88	696	35	69	59	690	125	1080	90	287
15	80	588	52	337	26	40	102	906	70	471	1250	23000
16	65	376	30	132	20	30	109	636	45	403	1520	33200
17	40	183	20	60	26	55	90	338	210	2230	770	16900
18	37	172	40	136	21	40	38	160	662	12800	810	20400
19	24	115	50	267	19	40	8	28	350	3910	2450	88900
20	31	146	24	122	21	47	20	75	120	878	1640	63300
21	27	117	21	78	19	45	32	83	90	513	1380	52900
22	28	138	25	106	22	42	124	325	185	1080	1080	33500
23	90	717	26	114	19	26	140	382	250	2030	680	19500
24	630	15200	18	43	24	33	74	121	110	1120	615	18800
25	698	21100	20	65	26	36	30	52	152	1740	910	33700
26	185	4890	28	168	21	34	14	21	130	1380	740	28800
27	110	2790	23	77	22	71	49	148	102	741	350	12200
28	305	8810	24	77	6	23	63	197	55	315	350	10800
29	145	4190	26	55	3	9.2	99	223	48	292	375	11900
30	70	1810	38	80	13	19	47	105	50	196	320	10300
31	---	---	42	87	---	---	30	70	95	534	---	---
TOTAL	---	141878	---	8762	---	1449.2	---	72084	---	84274	---	481556

STREAMS TRIBUTARY TO LAKE ONTARIO

04232006 GENESEE RIVER AT CHARLOTTE DOCKS AT ROCHESTER, NY
(National stream-quality accounting network station)

LOCATION.--Lat 43°13'26", long 77°36'59", Monroe County, Hydrologic Unit 04130003, at Charlotte Docks, at the Rochester Cement Corp., in Rochester, 0.4 mi (0.6 km) upstream from Rattlesnake Point, 1.6 mi (2.6 km) upstream from Stutson Street Bridge, and 3.9 mi (6.3 km) downstream from gaging station (04232000) at Rochester.

DRAINAGE AREA.--2,457 mi² (6,364 km²) at station 04232000.

PERIOD OF RECORD.--Water years 1971 to current year.

REMARKS.--Water-discharge data are based on records for station 04232000 Genesee River at Rochester. Additional water-quality data available from New York State Department of Environmental Conservation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)
OCT 13...	1100	4300	370	7.3	10.5	94	9.4	84	5100	960	--
NOV 03...	1100	5730	385	7.1	5.0	64	11.8	92	2400	81300	--
APR 20...	1100	1750	630	7.2	14.0	15	9.5	93	84400	--	330
MAY 19...	1100	1980	620	7.3	19.5	15	5.6	61	817000	--	4800
JUN 27...	1000	1200	760	7.6	25.0	1	7.5	90	5100	--	86
JUL 19...	1000	1300	560	7.1	27.5	3	6.5	81	3800	--	81110
AUG 01...	1100	1940	510	7.3	24.5	1	7.0	84	88400	--	3700
SEP 07...	1100	1200	500	7.3	21.5	30	8.3	94	89900	--	690

DATE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT 13...	140	58	43	9.0	14	3.2	105	0	86	55
NOV 03...	160	63	46	11	13	3.3	119	0	98	55
APR 20...	210	83	61	13	42	2.9	150	0	120	80
MAY 19...	230	100	67	14	38	3.0	150	0	120	82
JUN 27...	220	100	68	13	75	3.5	150	0	120	82
JUL 19...	170	76	50	10	42	3.3	110	0	90	59
AUG 01...	180	82	54	11	36	2.8	120	0	98	63
SEP 07...	180	60	55	11	20	3.2	150	0	120	56

B Results based on colony count outside the acceptable range (non-ideal colony count).

04232006 GENESEE RIVER AT CHARLOTTE DOCKS AT ROCHESTER, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO ₂) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 13...	26	.1	4.5	239	207	.62	.68	1.3	.26	11
NOV 03...	25	.1	5.2	242	217	.79	.73	1.5	.11	--
APR 20...	70	.2	2.8	388	346	.85	1.1	2.0	.10	5.8
MAY 19...	66	.1	2.1	394	346	.59	.93	1.5	.09	--
JUN 27...	130	.2	1.6	486	447	.67	1.1	1.8	.13	4.6
JUL 19...	71	.1	4.7	344	294	.69	1.2	1.9	.09	--
AUG 01...	60	.1	1.9	356	288	.65	.59	1.2	.17	--
SEP 07...	31	.1	4.3	286	255	.58	.73	1.3	.12	--

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT 13...	1100	8	0	3	1	<10	<10	3	0	10	10	8700
APR 20...	1100	2	1	5	4	10	<10	1	0	20	10	1300
JUN 27...	1000	3	2	0	0	10	1	0	0	9	6	530
AUG 01...	1100	--	1	--	0	--	0	--	0	--	4	--

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 13...	100	13	3	210	30	<.5	<.5	0	0	30	0
APR 20...	40	12	2	90	70	<.5	<.5	1	0	70	50
JUN 27...	20	13	6	110	70	.0	.0	0	0	30	20
AUG 01...	90	--	7	--	30	--	.0	--	0	--	10

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 13...	1100	4300	257	2980	99	JUN 27...	1000	1200	15	49	96
NOV 03...	1000	5700	178	2740	97	JUL 19...	1000	1300	77	270	100
APR 20...	1100	1750	40	189	88	AUG 01...	1100	1940	49	257	97
MAY 19...	1100	1980	37	198	95	SEP 07...	1100	1200	55	178	100

04232006 GENESEE RIVER AT CHARLOTTE DOCKS AT ROCHESTER, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	OCT 13,76 1100	NOV 3,76 1100	MAY 19,77 1100	JUN 27,77 1000	JUL 19,77 1000	AUG 1,77 1100	SEP 7,77 1100					
TOTAL CELLS/ML	2700	96	4200	4500	1900	4300	1800					
DIVERSITY: DIVISION	0.6	0.8	1.2	1.4	0.6	1.4	1.7					
..CLASS	0.8	0.8	1.2	1.5	0.6	1.4	1.7					
...ORDER	1.2	0.8	1.7	2.3	0.6	2.0	2.3					
...FAMILY	2.7	0.8	1.8	3.0	2.1	3.2	3.2					
...GENUS	2.8	1.1	1.9	3.5	2.2	3.6	3.4					
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)												
..CHLOROPHYCEAE												
...CHLOROCOCCALES												
....CHARACIACEAE												
....SCHROEDERIA	--	-	--	-	--	-	51	3	29	1	--	-
....COELASTRACEAE												
....COELASTRUM	530#	20	--	-	130	3	370#	19	460	11	79	4
....HYDRODICTYACEAE												
....PEDIASTRUM	1100#	39	--	-	--	-	1100#	58	1200#	27	79	4
....MICRACTINIACEAE												
....GOLENKINIA	16	1	--	-	--	-	*	0	--	-	--	-
....OOCYSTACEAE												
....ANKISTRODESMUS	--	-	--	-	43	1	79	2	--	-	58	1
....CHODATELLA	--	-	--	-	--	-	120	3	--	-	--	-
....CLOSTERIOPSIS	16	1	--	-	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	*	0	41	2	--	-	--	-
....OOCYSTIS	180	7	--	-	--	-	--	-	--	-	--	-
....QUADRIGULA	--	-	--	-	--	-	--	-	58	1	--	-
....TREUBARIA	--	-	--	-	--	-	72	4	--	-	--	-
....SCENEDESMACEAE							31	2	--	-	--	-
....ACTINASTRUM	--	-	--	-	--	-	120	3	--	-	--	-
....CRUCIGENIA	--	-	24#	25	--	-	240	5	--	-	58	1
....SCENEDESMUS	180	7	--	-	--	-	430	10	430	10	210	12
....TETRASTRUM	--	-	--	-	--	-	160	4	--	-	64	4
..TETRASPORALES												
...COCCOMYXACEAE												
....ELAKATOTHIKX	33	1	--	-	--	-	--	-	--	-	--	-
....PALMELLACEAE												
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	170	4	--	-
...VOLVOCALES												
..CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	--	-	29	1	690#	15	--	-	72	2
....VOLVOCAEAE												
....PANDORINA	--	-	--	-	--	-	980#	22	--	-	--	-
..ZYGNEMATALES												
...DESMIDIACEAE												
....CLOSTERIUM	--	-	--	-	--	-	--	-	29	1	--	-
....STAUSTRUM	33	1	--	-	--	-	*	0	--	-	--	-
CHRYSOPHYTA												
..BACILLARIOPHYCEAE												
...CENTRALES												
....COSCINODISCACEAE												
....CYCLOTELLA	180	7	66#	69	1000#	25	--	-	31	2	170	4
....MELOSIRA	--	-	--	-	*	0	--	-	--	-	58	1
....STEPHANODISCUS	--	-	6	6	--	-	*	0	--	-	29	1
...PENNALES												
....ACHNANTHACEAE												
....COCCONEIS	--	-	--	-	--	-	--	-	--	-	16	1
....RHODICOSPHEVIA	--	-	--	-	--	-	--	-	10	1	--	-
....CYMBELLACEAE												
....CYMBELLA	--	-	--	-	29	1	39	1	--	-	*	0
....DIATOMACEAE												
....DIATOMA	--	-	--	-	*	0	--	-	20	1	--	-
....FRAGILARIACEAE												
....ASTERIONELLA	180	7	--	-	--	-	--	-	--	-	*	0
....FRAGILARIA	82	3	--	-	--	-	--	-	--	-	390	9
....SYNEKHA	--	-	--	-	--	-	59	1	--	-	430	10
...GUMPHONEMATAEAE												
....GUMPHONEMA	--	-	--	-	--	-	--	-	20	1	*	0
....NAVICULACEAE												
....NAVICULA	--	-	--	-	110	3	120	3	51	3	72	2
....NITZSCHACEAE												
....NITZSCHIA	99	4	--	-	86	2	--	-	20	1	120	3
....TABELLARIACEAE												
....TABELLARIA	99	4	--	-	--	-	--	-	--	-	--	-
..CHRYSOPHYCEAE												
...CHRYSOMONADALES												
....UCHROMONADACEAE												
....DINOBRYON	--	-	--	-	--	-	--	-	29	1	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

STREAMS TRIBUTARY TO LAKE ONTARIO

355

04232006 GENESEE RIVER AT CHARLOTTE DOCKS AT ROCHESTER, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	OCT 13,76 1100		NOV 3,76 1100		MAY 19,77 1100		JUN 27,77 1000		JUL 19,77 1000		AUG 1,77 1100		SEP 7,77 1100	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)														
..CYANOPHYCEAE														
...CHROCOCCALES														
...CHROCOCCACEAE														
....ANACYSTIS	--	-	--	-	230	5	470	11	--	-	360	8	410#	23
...HORMOGONALES														
...NOSTOCACEAE														
....ANABAENA	--	-	--	-	--	-	--	-	--	-	--	-	170	9
...USCILLATORIA														
...USCILLATORIA	--	-	--	-	2400#	58	320	7	--	-	--	-	--	-
...CHROCOCCALES														
...CHROCOCCACEAE														
...GOMPHOSPHERIA	--	-	--	-	--	-	200	4	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)														
..CRYPTOPHYCEAE														
...CRYPTOMONIDAE														
...CRYPTOCHRYSIDACEAE														
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-	--	-	40	2
...CRYPTOMONIDACEAE														
....CRYPTOMONAS	--	-	--	-	--	-	330	8	--	-	--	-	--	-
..EUGLENOPHYCEAE														
...EUGLENALES														
...EUGLENACEAE														
....TRACHELOMONAS	--	-	--	-	43	1	39	1	51	3	43	1	--	-
PYRRHOPHYTA (FIRE ALGAE)														
..DINOPHYCEAE														
...PERIDINIALES														
...CERATIAEAE														
....CERATIUM	--	-	--	-	--	-	--	-	--	-	*	0	--	-
...GLENODINIACEAE														
...GLENODINIUM	--	-	--	-	--	-	--	-	--	-	*	0	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

Dates of exposure	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Sept. 15 to Oct. 13	29	23.1	18.0	3.52	3.16	1449	Polyethylene strip
Apr. 20 to May 19	30	29.4	28.2	.000	.000	--	Polyethylene strip
Sept. 7 to Nov. 1	56	2.76	2.36	.830	.000	482	Polyethylene strip

STREAMS TRIBUTARY TO LAKE ONTARIO

04232047 IRONDEVOUIT CREEK AT EAST ROCHESTER, NY

LOCATION.--Lat 43°07'15", long 77°28'38", Monroe County, Hydrologic Unit 04140101, on left bank 200 ft (61 m) upstream from bridge on Linden Avenue, 2.2 mi (3.5 km) upstream from Allen Creek, and 6.9 mi (11.1 km) upstream from mouth.

DRAINAGE AREA. - 92.8 mi² (240 km²).

PERIOD OF RECORD.--August 1973 to current year.

GAGE.--Water-stage recorder. Datum of gage is 341.46 ft (104.077 m) above mean sea level.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,480 ft³/s (41.9 m³/s) Oct. 29, 1974, gage height, 15.64 ft (4.767 m); minimum, 25 ft³/s (0.71 m³/s) Sept. 9-11, 1975, gage height, 11.27 ft (3.435 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 494 ft³/s (14.0 m³/s) Apr. 25, gage height 13.48 ft (4.109 m), no peak above base of 570 ft³/s (16 m³/s); minimum, 32 ft³/s (0.91 m³/s) Feb. 24, gage height, 11.32 ft (3.450 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	228	110	53	47	136	151	78	57	75	59	48
2	43	144	95	53	49	96	129	81	51	74	44	47
3	41	109	65	53	53	102	76	76	51	70	44	47
4	41	93	59	53	51	200	110	74	50	70	42	45
5	39	85	56	52	47	315	110	95	49	91	47	48
6	38	81	56	52	49	216	99	92	49	99	58	47
7	36	76	92	52	44	151	93	76	49	114	64	47
8	48	75	75	50	42	133	98	70	47	129	106	47
9	203	73	65	50	39	163	86	93	45	99	88	47
10	270	77	66	50	39	203	81	93	45	82	64	44
11	165	78	78	49	44	188	79	78	43	76	57	43
12	109	73	71	48	57	155	75	70	42	86	93	44
13	88	70	68	47	91	347	71	68	43	63	69	66
14	85	69	64	45	95	334	68	65	42	47	102	82
15	79	68	61	45	85	188	64	65	42	42	69	58
16	73	65	60	47	78	146	63	65	42	41	53	99
17	69	64	61	50	74	118	61	64	56	40	93	115
18	65	65	60	46	74	104	60	64	73	41	68	89
19	63	65	59	42	48	104	60	63	57	42	52	127
20	71	63	69	42	44	110	59	61	48	43	47	247
21	328	63	64	41	41	136	59	60	43	42	47	216
22	270	61	60	41	42	203	85	57	45	40	115	112
23	138	59	58	40	36	190	252	69	50	42	66	86
24	106	58	56	40	59	192	447	64	52	42	83	95
25	117	58	56	41	169	142	384	56	78	43	74	404
26	115	59	57	41	150	142	225	53	79	44	58	347
27	96	60	56	44	150	190	163	51	78	45	51	223
28	86	60	56	83	190	367	125	50	78	45	47	132
29	78	64	56	63	---	364	101	48	85	56	48	103
30	74	78	56	52	---	232	81	48	78	65	52	93
31	151	---	54	51	---	179	---	50	---	48	48	---
TOTAL	3228	2341	2019	1516	1987	5846	3663	2097	1647	1936	2008	3248
MEAN	104	78.0	65.1	48.9	71.0	189	122	67.6	54.9	62.5	64.8	108
MAX	328	228	110	83	190	367	447	95	85	129	115	404
MIN	36	58	54	40	36	96	59	48	42	40	42	43
CAL YR 1976	TOTAL	44474	MEAN	122	MAX	862	MIN	36				
WTR YR 1977	TOTAL	31536	MEAN	86.4	MAX	447	MIN	36				

STREAMS TRIBUTARY TO LAKE ONTARIO

357

04232050 ALLEN CREEK NEAR ROCHESTER, NY

LOCATION.--Lat 43°07'49", long 77°31'08", Monroe County, Hydrologic Unit 04140101, on right bank 525 ft (160 m) downstream from Penn Central Transportation Co. bridge, near Rochester, and about 1 mi (2 km) upstream from Irondequoit Creek.

DRAINAGE AREA.--30.1 mi² (78.0 km²), flow from 2.1 mi² (5.44 km²) not contributing.

PERIOD OF RECORD.--November 1959 to current year.

REVISED RECORDS.--WRD NY 1974: 1972(M), 1973(M, P). WDR NY-76-1: 1960-75 (M,P), 1960-63, 1972-74.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 323.54 ft (98.615 m) above mean sea level.

REMARKS.--Records fair. Discharge includes undetermined diversion from Erie (Barge) Canal upstream from station.

AVERAGE DISCHARGE.--17 years (1960-77), 32.6 ft³/s (0.923 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,280 ft³/s (92.9 m³/s) May 17, 1974, gage height, 7.42 ft (2.262 m); minimum daily discharge; 1.7 ft³/s (0.048 m³/s) Jan. 24, 1963; minimum gage height, 1.16 ft (0.354 m) Feb. 19, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 450 ft³/s (12.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 21	0415	606 17.2	4.33 1.320	Sept. 25	0315	*744 21.9	*4.58 1.396
Mar. 13	0915	504 14.3	4.16 1.268				

Minimum daily discharge, 3.5 ft³/s (0.099 m³/s) Feb. 5-10; minimum gage height, 1.88 ft (0.573 m) Jan. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	68	14	7.0	4.0	38	25	27	32	27	42	28
2	25	43	6.7	5.2	3.8	29	23	28	25	27	29	27
3	25	38	8.3	6.0	3.7	31	22	27	25	26	34	29
4	24	33	6.0	6.0	3.6	121	18	29	24	26	33	27
5	24	31	5.4	5.8	3.5	132	19	33	24	45	32	29
6	26	29	5.7	5.8	3.5	57	16	30	25	52	39	27
7	26	29	38	5.6	3.5	42	15	27	24	41	43	27
8	29	29	15	5.4	3.5	43	17	27	24	49	56	26
9	194	28	11	5.4	3.5	62	13	33	24	29	52	26
10	107	30	11	5.8	3.5	64	12	28	24	27	42	26
11	43	30	21	6.0	6.0	45	11	27	24	27	33	25
12	33	28	13	6.0	15	37	9.8	26	24	42	67	26
13	33	27	11	6.0	39	242	9.8	25	24	47	34	45
14	32	27	13	6.0	38	67	9.4	24	23	29	93	45
15	29	27	8.3	5.6	28	38	9.0	24	23	27	38	29
16	28	26	8.3	5.8	30	31	8.3	23	23	26	33	71
17	27	26	9.8	8.0	21	24	8.0	23	29	27	48	48
18	27	26	9.0	10	23	21	7.7	23	45	25	31	50
19	27	26	9.0	8.0	15	27	6.7	24	29	28	28	63
20	38	25	16	7.0	13	29	5.7	22	29	26	29	142
21	291	25	15	5.4	11	56	6.7	22	27	25	33	69
22	59	25	13	4.5	14	63	29	22	26	26	117	45
23	40	25	8.7	4.5	11	60	153	22	27	25	38	37
24	39	24	8.0	4.5	32	52	198	23	25	26	85	68
25	50	25	7.3	4.8	105	38	135	24	38	26	41	375
26	41	25	8.0	5.1	55	39	52	23	29	25	34	135
27	34	25	8.0	5.1	66	98	31	22	28	25	31	127
28	31	25	7.7	7.7	63	156	22	22	27	25	29	56
29	30	26	8.3	9.0	---	104	17	22	32	50	29	45
30	29	24	17	7.0	---	46	25	21	29	66	30	41
31	104	---	9.4	5.0	---	36	---	21	---	33	29	---
TOTAL	1570	875	349.9	190.0	621.1	1928	934.1	774	812	1005	1372	1814
MEAN	50.6	29.2	11.3	6.13	22.2	62.2	31.1	25.0	27.1	32.4	44.3	60.5
MAX	291	68	38	10	105	242	198	33	45	66	117	375
MIN	24	24	5.4	4.5	3.5	21	5.7	21	23	25	28	25
CAL YR 1976	TOTAL	17124.5	MEAN	46.8	MAX	587	MIN	5.4				
WTR YR 1977	TOTAL	12245.1	MEAN	33.5	MAX	375	MIN	3.5				

STREAMS TRIBUTARY TO LAKE ONTARIO

430927077313700 (042320502) IRONDEQUOIT CREEK AT BROWNCROFT BOULEVARD, ROCHESTER, NY

LOCATION.--Lat 43°09'27", long 77°31'37", Monroe County, Hydrologic Unit 04140101, on right bank 200 ft (61 m) downstream from bridge on Browncroft Boulevard, and 1.5 mi (2.4 km) downstream from bridge on Blossom Road, Rochester.

DRAINAGE AREA.--142 mi² (368 km²).

PERIOD OF RECORD.--November 1976 to September 1977.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January to September 1977.

WATER TEMPERATURE: January to September 1977.

INSTRUMENTATION.--Water-quality monitor since January 1977.

REMARKS.--Water-discharge measurements are made at bridge on Blossom Road. Water-quality samples are collected at bridge on Blossom Road when stream discharge exceeds 300 ft³/s (8.50 m³). No record May 4-26, due to battery failure.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,300 micromhos Feb. 13; minimum recorded, 357 micromhos Sept. 25.

WATER TEMPERATURES: Maximum, 27.0°C July 20; minimum, freezing point on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL./100 ML)	FECAL COLIFORM (COL./100 ML)	FFCAL STREPTOCOCCI (COL./100 ML)	HAZARDOUS WASTE (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)
NOV 05...	1200	153	7.6	8.6	72	2700	8150	690	370	160	100	30
FEB 16...	1030	116	7.2	14.0	96	110000	560	--	360	150	95	30
MAY 26...	1100	90	7.2	6.4	68	5400	440	55	420	230	120	30
JUL 27...	1100	41	7.2	6.1	88	4700	81010	--	340	190	100	23
SEP 21...	1130	386	7.4	7.2	75	--	--	--	270	110	74	20

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRATE (N) (MG/L)
NOV 05...	50	3.6	266	0	218	130	91	.2	9.6	546	1.4
FEB 16...	110	4.7	262	0	215	110	200	.2	8.6	688	1.5
MAY 26...	75	4.0	240	0	200	170	130	.2	6.4	654	2.9
JUL 27...	72	4.4	0	190	160	--	--	--	--	590	3.0
SEP 21...	37	4.5	190	0	160	84	65	.1	9.3	388	1.3

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KjELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
NOV 05...	.16	1.6	.65	1.1	1.7	3.3	.42	.24	.30	770	90
FEB 16...	.06	--	1.3	.70	2.0	3.6	.50	--	.42	--	--
MAY 26...	.40	3.3	.43	.97	1.4	4.7	.72	.55	.57	730	170
JUL 27...	.58	3.6	.58	.82	1.4	5.0	.82	.60	.59	1500	120
SEP 21...	.11	1.4	.30	1.5	1.8	3.2	.75	.11	.15	4700	210

B Results based on colony count outside the acceptable range (non-ideal colony count).

STREAMS TRIBUTARY TO LAKE ONTARIO

359

430927077313700 (042320502) IRONDEQUOIT CREEK AT BROWNCROFT BOULEVARD, ROCHESTER, NY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1										---	---	---
2										---	---	---
3										---	---	---
4										---	---	---
5										---	---	---
6										---	---	---
7										---	---	---
8										---	---	---
9										---	---	---
10										---	---	---
11										---	---	---
12										---	---	---
13										---	---	---
14										---	---	---
15										1340	1250	1290
16										1320	1250	1280
17										1320	1260	1300
18										1320	1270	1290
19										1310	1230	1270
20										1300	1230	1260
21										1320	1210	1260
22										1280	1220	1250
23										1290	1220	1250
24										1290	1220	1260
25										1410	1250	1310
26										1460	1340	1380
27										1400	1080	1320
28										1380	1310	1340
29										1380	1310	1350
30										1340	1260	1300
31										1320	1250	1280
MONTH										1460	1080	1290

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	1280	1230	1260	1050	967	1000	1030	989	1000	1020	969	991
2	1270	1220	1240	1150	1050	1080	1070	1010	1030	980	929	955
3	1370	1220	1270	1140	1090	1110	1070	1020	1040	978	916	947
4	1430	1270	1330	1140	745	1040	1030	994	1020	---	---	---
5	1450	1320	1380	804	612	681	1060	1000	1030	---	---	---
6	1440	1320	1360	945	712	882	1030	991	1010	---	---	---
7	1380	1300	1330	1040	945	987	1020	989	1010	---	---	---
8	1340	1270	1310	1090	1030	1060	1090	1020	1060	---	---	---
9	1320	1250	1280	1080	983	1030	1080	1020	1030	---	---	---
10	1400	1210	1280	980	872	916	1130	1080	1110	---	---	---
11	2130	1270	1520	967	684	861	1150	1070	1100	---	---	---
12	2190	2100	2150	910	670	815	1150	1100	1130	---	---	---
13	2300	2140	2230	972	649	809	1180	1130	1160	---	---	---
14	2120	1670	1850	887	762	822	1210	1140	1180	---	---	---
15	1660	1410	1500	1000	885	936	1210	1160	1180	---	---	---
16	1410	1320	1350	1060	972	1010	1210	1160	1190	---	---	---
17	1360	1270	1310	1070	1030	1050	1230	1160	1190	---	---	---
18	1420	1270	1340	1240	1050	1100	1240	1160	1190	---	---	---
19	1380	1220	1270	1620	1150	1300	1240	1180	1200	---	---	---
20	1300	1210	1240	1700	1310	1460	1240	1180	1200	---	---	---
21	1440	1250	1310	1350	1180	1270	1230	1180	1210	---	---	---
22	1490	1280	1360	1200	1040	1110	1230	1030	1190	---	---	---
23	1480	1300	1360	1410	1090	1220	994	779	864	---	---	---
24	1400	1270	1320	1390	1120	1210	766	685	725	---	---	---
25	1310	978	1070	1170	1080	1120	793	691	732	---	---	---
26	997	871	933	1170	1100	1140	871	750	809	---	---	---
27	1090	886	1040	1170	926	1110	958	840	906	1140	1060	1100
28	1050	964	993	910	787	856	1030	931	978	1150	1060	1100
29	---	---	---	806	741	782	1040	997	1020	1070	988	1020
30	---	---	---	916	764	812	1080	1000	1050	1040	994	1020
31	---	---	---	1000	921	973	---	---	---	1050	991	1020
MONTH	2300	871	1360	1700	612	1020	1240	685	1050	1150	916	1020

STREAMS TRIBUTARY TO LAKE ONTARIO

430927077313700 (042320502) IRONDEQUOIT CREEK AT BROWNCROFT BOULEVARD, ROCHESTER, NY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	1050	897	972	1100	1000	1050	882	690	770	985	925	961
2	1030	978	999	1070	975	1020	938	820	874	995	934	957
3	1040	981	1020	1040	981	1000	964	885	940	979	922	951
4	1060	994	1020	1040	984	1010	872	734	802	973	903	933
5	1060	1020	1040	1040	718	913	878	796	847	943	865	908
6	1080	1020	1050	921	687	834	869	688	789	995	897	934
7	1080	1010	1050	868	667	764	828	681	792	982	868	921
8	1050	997	1030	887	681	772	755	447	694	940	868	906
9	1070	991	1030	921	873	893	844	423	651	963	876	918
10	1060	997	1030	927	857	887	847	731	797	985	916	950
11	1050	991	1020	945	868	908	896	778	826	976	922	946
12	1040	978	1010	952	696	883	892	609	719	1040	940	974
13	1080	962	1010	821	505	674	898	788	833	1020	939	888
14	1080	1000	1040	908	824	862	895	483	655	846	705	768
15	1060	1000	1030	933	873	900	883	623	778	969	827	883
16	1080	1010	1030	948	886	916	945	874	899	956	599	808
17	1120	937	1060	935	880	907	911	677	815	882	633	758
18	988	689	845	968	892	936	923	822	882	874	760	835
19	971	831	904	1000	883	932	926	844	880	876	651	755
20	1050	975	1000	974	911	946	932	858	864	841	546	551
21	1090	981	1020	942	901	928	922	854	889	746	631	673
22	1100	1030	1070	980	926	948	849	466	627	860	744	803
23	1150	1060	1100	990	917	962	925	751	840	916	843	871
24	1170	1080	1130	1020	951	980	928	616	760	913	760	879
25	1120	861	1000	1030	932	961	966	816	897	716	357	487
26	991	821	942	1000	922	963	963	900	930	626	517	557
27	1030	955	977	1040	967	1000	982	934	960	730	572	649
28	1140	1010	1050	1080	1000	1030	969	919	948	841	732	782
29	1160	931	1060	1070	904	1000	1020	925	954	876	816	847
30	1140	1020	1060	828	491	644	985	891	937	919	871	895
31	---	---	---	888	839	860	985	906	943	---	---	---
MONTH	1170	689	1020	1100	491	912	1020	423	833	1040	357	835

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1										---	---	---
2										---	---	---
3										---	---	---
4										---	---	---
5										---	---	---
6										---	---	---
7										---	---	---
8										---	---	---
9										---	---	---
10										---	---	---
11										---	---	---
12										---	---	---
13										0.0	0.0	0.0
14										0.0	0.0	0.0
15										0.5	0.0	0.0
16										0.0	0.0	0.0
17										0.0	0.0	0.0
18										0.0	0.0	0.0
19										0.0	0.0	0.0
20										0.0	0.0	0.0
21										0.0	0.0	0.0
22										0.0	0.0	0.0
23										0.5	0.0	0.0
24										2.0	0.5	1.0
25										2.0	1.5	2.0
26										2.0	1.0	1.5
27										1.5	0.0	0.5
28										0.5	0.0	0.0
29										0.5	0.0	0.0
30										0.0	0.0	0.0
31										0.5	0.0	0.0
MONTH										2.0	0.0	0.5

STREAMS TRIBUTARY TO LAKE ONTARIO

361

430927077313700 (042320502) IRONDEQUOIT CREEK AT BROWNCROFT BOULEVARD, ROCHESTER, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.5	0.0	0.0	2.5	1.0	1.5	9.5	7.0	8.5	17.5	12.5	14.5
2	0.5	0.0	0.5	3.5	0.0	1.5	8.5	6.5	7.5	16.5	14.5	15.5
3	0.5	0.0	0.5	4.0	1.0	2.5	10.5	8.5	9.5	16.0	13.0	14.5
4	1.0	0.0	1.0	4.0	2.5	3.0	9.0	6.5	7.0	---	---	---
5	1.0	0.0	0.5	2.5	2.0	2.0	9.5	6.5	7.5	---	---	---
6	0.5	0.0	0.0	2.5	2.0	2.0	7.5	5.5	6.5	---	---	---
7	0.5	0.0	0.5	3.5	2.0	3.0	6.5	4.0	5.5	---	---	---
8	0.5	0.0	0.5	5.5	2.0	3.5	6.0	4.0	5.5	---	---	---
9	2.0	0.5	1.0	7.5	4.0	5.5	7.0	3.5	5.0	---	---	---
10	2.0	1.0	1.5	8.0	6.0	7.0	9.5	4.5	7.0	---	---	---
11	3.5	1.0	2.0	8.5	6.0	7.5	14.0	8.0	10.5	---	---	---
12	3.5	2.5	3.0	9.5	5.5	8.0	17.0	13.0	14.5	---	---	---
13	3.0	2.0	2.5	10.0	9.5	9.5	18.0	14.0	15.5	---	---	---
14	2.5	1.5	2.0	9.0	9.5	9.0	16.0	13.5	14.5	---	---	---
15	2.0	0.0	1.0	9.5	7.0	8.5	15.0	11.0	13.0	---	---	---
16	0.0	0.0	0.0	9.0	7.5	8.5	15.5	11.5	13.5	---	---	---
17	1.0	0.0	1.0	7.5	5.5	6.5	15.5	11.5	13.5	---	---	---
18	2.0	0.0	0.5	6.0	2.0	4.0	14.5	11.5	13.0	---	---	---
19	2.5	1.0	2.0	5.5	2.0	3.5	17.5	12.5	14.5	---	---	---
20	2.0	1.5	1.5	4.0	2.5	3.5	18.0	14.5	16.5	---	---	---
21	1.5	0.5	1.0	6.5	3.0	5.0	20.0	16.0	18.0	---	---	---
22	2.5	0.0	1.0	6.0	2.0	4.0	19.0	17.5	18.0	---	---	---
23	2.5	1.5	2.0	4.5	1.5	2.5	17.5	12.5	15.0	---	---	---
24	4.5	2.0	3.0	4.0	2.0	2.5	12.0	10.5	11.0	---	---	---
25	2.5	1.0	1.5	4.5	1.0	2.5	10.5	10.0	10.5	---	---	---
26	2.5	1.0	1.5	6.0	2.0	4.0	12.0	10.0	11.0	---	---	---
27	4.0	1.5	2.5	7.5	3.5	5.5	14.0	10.5	12.0	20.0	16.0	18.0
28	2.0	1.5	1.5	7.0	3.5	6.5	13.5	11.0	12.5	21.0	17.5	19.0
29	---	---	---	12.0	6.5	9.0	13.5	9.5	11.5	18.5	16.0	17.5
30	---	---	---	14.5	10.0	12.5	15.0	10.5	12.5	19.5	14.5	17.0
31	---	---	---	14.0	9.5	12.0	---	---	---	20.5	15.5	18.0
MONTH	4.5	0.0	1.5	14.5	0.0	5.5	20.0	3.5	11.5	21.0	12.5	17.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	21.0	18.0	19.5	24.0	21.0	22.0	23.0	21.0	22.0	23.5	20.5	22.0
2	19.5	15.5	17.5	22.0	20.0	20.5	22.5	20.0	21.5	22.0	21.0	21.5
3	18.0	14.0	15.5	22.0	19.0	20.0	22.5	20.0	21.0	23.0	21.0	21.5
4	18.0	14.5	16.5	23.5	20.0	22.0	24.0	20.5	22.5	22.0	19.0	20.5
5	19.5	16.5	17.5	24.0	21.5	23.0	23.5	21.5	22.5	21.0	19.5	20.0
6	18.0	14.5	16.0	23.0	21.0	21.5	22.5	21.5	22.0	20.5	19.0	19.5
7	16.5	14.0	15.0	21.5	20.5	21.0	22.5	21.5	22.0	19.5	17.0	18.5
8	17.0	13.5	15.0	21.0	20.5	20.5	23.0	21.5	22.5	20.0	17.0	18.5
9	16.0	14.0	14.5	22.5	20.0	21.0	23.5	21.5	22.5	20.5	17.5	19.0
10	16.5	14.0	15.0	22.5	19.5	21.0	22.0	20.5	21.5	20.5	18.5	19.5
11	19.0	14.5	16.5	21.0	19.0	20.0	24.0	20.5	22.0	18.5	17.0	18.0
12	18.0	16.0	16.5	23.0	20.5	21.5	22.5	21.0	21.5	18.0	15.0	16.5
13	19.5	14.5	17.0	24.0	22.0	22.5	22.5	19.0	21.0	18.0	17.0	17.0
14	20.5	17.0	18.5	23.5	20.5	22.0	22.0	20.5	21.0	18.5	17.0	18.0
15	21.0	17.0	19.5	24.0	20.5	22.0	21.0	19.0	20.0	17.5	15.5	16.5
16	20.5	16.5	19.0	25.5	22.0	23.5	20.5	19.0	20.0	17.5	16.5	17.0
17	20.5	18.5	19.5	25.5	22.5	23.5	21.5	20.0	20.5	18.5	16.5	17.5
18	20.5	19.0	20.0	26.0	22.5	24.0	20.0	18.0	19.0	18.5	17.5	18.5
19	21.0	18.5	20.0	24.5	22.5	23.5	19.5	16.5	18.0	19.0	18.5	18.5
20	20.5	18.5	19.0	27.0	22.0	24.0	19.0	16.5	17.5	18.5	18.0	18.5
21	21.0	18.0	19.5	26.0	23.5	24.5	18.5	16.0	17.0	18.0	16.5	17.0
22	20.5	17.0	19.0	24.0	21.0	22.5	19.5	17.5	18.5	16.5	15.0	15.5
23	21.0	16.5	19.0	23.0	20.0	21.5	18.5	17.5	18.5	16.0	15.0	15.0
24	20.5	17.0	19.0	22.5	20.0	21.0	18.0	16.5	17.0	15.5	14.5	15.0
25	20.5	18.5	19.5	22.5	20.5	21.5	18.5	15.0	16.5	16.0	14.5	15.0
26	22.0	18.5	20.0	21.0	18.5	20.0	19.5	15.5	17.5	16.5	15.0	16.0
27	23.0	19.0	21.0	20.5	17.5	19.0	21.5	18.0	19.5	16.5	15.5	16.5
28	22.5	20.5	21.5	20.5	17.5	19.0	23.0	20.5	21.5	16.5	15.0	16.0
29	22.5	20.5	21.0	22.0	19.0	20.5	23.5	21.0	22.0	15.5	14.0	14.5
30	23.0	19.0	21.0	23.0	20.5	21.5	22.0	21.0	21.5	14.5	14.0	14.5
31	---	---	---	24.0	20.5	22.0	22.5	19.0	20.5	---	---	---
MONTH	23.0	13.5	18.5	27.0	17.5	21.5	24.0	15.0	20.5	23.5	14.0	17.5

LAKE ONTARIO

431721077234800 (042320503) LAKE ONTARIO (POINT A) NEAR WEBSTER, NY

LOCATION.--Lat 43°17'21", long 77°23'48", Monroe County, Hydrologic Unit 04150200. Samples collected about 10 ft (3 m) above lake bottom, 1.0 m (1.6 km) north of shoreline, and 5.6 mi (9.0 km) north of Webster.

PERIOD OF RECORD.--September 1974 to September 1977 (discontinued).

WATER QUALITY DATA, SEPTEMBER 1974 TO SEPTEMBER 1977

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
SEP , 1974												
10...	1200	415	7.3	6.0	130	32	39	7.6	14	1.2	118	0
DEC												
11...	1200	365	7.8	5.0	140	42	41	8.4	12	1.4	116	0
MAR , 1975												
11...	1000	238	7.4	1.5	130	38	39	8.0	13	1.5	112	0
JUN												
10...	1200	330	7.9	13.0	130	37	38	8.0	12	1.5	111	0
SEP												
16...	1200	335	7.9	17.0	130	39	42	6.6	14	1.4	113	0
NOV												
18...	1100	330	7.7	10.0	150	49	44	8.8	12	1.5	118	0
MAR , 1975												
29...	1000	340	7.8	3.0	130	41	40	8.3	12	1.6	113	0
JUN												
15...	1000	355	7.7	14.0	130	38	39	8.2	13	1.5	114	0
SEP												
21...	1000	330	7.8	17.0	140	45	40	8.7	13	1.4	110	0
NOV												
16...	1100	320	7.4	6.0	130	40	40	7.8	12	1.5	112	0
MAR , 1977												
29...	1100	375	7.1	6.0	130	42	40	7.8	14	1.5	110	0
JUN												
28...	1100	362	7.3	18.0	130	32	39	8.1	12	1.4	120	0
SEP												
21...	1430	340	7.7	15.0	130	45	38	7.7	13	1.6	100	0

DATE	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)
SEP , 1974											
10...	97	27	29	--	.4	188	176	--	.29	--	--
DEC											
11...	95	27	28	--	.1	188	175	2	.22	--	--
MAR , 1975											
11...	92	29	27	--	.4	190	173	1	.27	--	--
JUN											
10...	91	26	26	--	.1	204	166	--	.22	.05	.33
SEP											
16...	93	27	25	.2	.1	213	172	3	.06	.04	.35
NOV											
18...	97	27	27	.2	.2	178	179	<1	.17	.07	.27
MAR , 1976											
29...	93	30	26	.2	.6	189	174	5	.43	.06	.39
JUN											
15...	94	29	26	.2	.1	209	173	1	.18	.14	.36
SEP											
21...	90	27	28	.1	.1	188	174	1	.09	.05	.28
NOV											
16...	92	29	27	.2	.3	182	173	<1	.24	.01	.17
MAR , 1977											
29...	90	29	29	.1	.4	190	176	<1	--	--	--
JUN											
28...	98	24	26	.1	.1	220	170	2	--	--	--
SEP											
21...	82	27	27	.1	.1	199	164	<1	.13	.04	.19

LAKE ONTARIO

363

431721077234800 (042320503) LAKE ONTARIO (POINT A) NEAR WEBSTER, NY--Continued

WATER QUALITY DATA, SEPTEMBER 1974 TO SEPTEMBER 1977

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ALJM- INJM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
SEP , 1974											
10...	.19	.48	.02	--	80	1	33	0	1	<1	2
DEC											
11...	.29	.51	.02	--	70	2	33	0	<2	<2	1
MAR , 1975											
11...	.22	.49	.03	--	290	1	30	0	<1	<1	1
JUN											
10...	.38	.60	.03	--	70	1	0	0	10	0	10
SEP											
16...	.39	.45	.01	--	110	1	0	0	<10	0	10
NOV											
18...	.34	.51	.02	--	50	2	0	0	10	1	10
MAR , 1976											
29...	.45	.88	.03	--	180	0	0	0	0	0	0
JUN											
15...	.50	.68	.03	--	40	0	0	0	10	0	0
SEP											
21...	.33	.42	.04	--	40	4	0	1	10	1	20
NOV											
16...	.18	.42	.03	--	50	1	0	1	<10	0	0
MAR , 1977											
29...	--	--	--	--	70	0	0	1	<10	1	0
JUN											
28...	--	--	--	--	80	3	100	0	<10	0	3
SEP											
21...	.23	.36	.10	.00	0	0	0	0	10	2	2

DATE	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB- DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON- TIUM (SR) (UG/L)	TOTAL ZINC (ZN) (UG/L)
SEP , 1974											
10...	80	<2	2	6	.5	1	2	<2	<0	190	0
DEC											
11...	70	<2	1	3	<.5	1	2	0	<0	180	20
MAR , 1975											
11...	270	<2	2	4	.5	1	2	0	<0	200	10
JUN											
10...	100	3	0	10	<.5	1	3	1	0	160	20
SEP											
16...	60	4	0	10	<.5	1	13	0	0	140	20
NOV											
18...	50	4	10	0	<.5	1	1	0	0	160	20
MAR , 1976											
29...	310	6	0	10	<.5	2	7	0	0	150	30
JUN											
15...	40	3	0	0	<.5	1	5	1	0	160	40
SEP											
21...	40	8	0	0	<.5	0	2	0	1	170	20
NOV											
16...	1600	5	0	0	<.5	2	4	0	0	160	0
MAR , 1977											
29...	130	7	0	10	<.5	2	6	2	0	230	0
JUN											
28...	30	10	0	10	.0	2	8	0	0	160	10
SEP											
21...	50	2	0	10	.0	1	4	0	0	140	20

LAKE ONTARIO

431721077234800 (042320503) LAKE ONTARIO (POINT A) NEAR WEBSTER, NY--Continued

WATER QUALITY DATA, SEPTEMBER 1974 TO SEPTEMBER 1977

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	TOTAL PCB (UG/L)	POLY- CHLO- RINATED NAPHA- THA- LENES (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)
SEP , 1974									
10...	--	.01	.02	--	--	--	--	--	--
DEC									
11...	8.4	.02	.00	.0	--	.00	.0	.00	.00
MAR , 1975									
11...	2.9	.01	.00	.0	--	.00	.0	.00	.00
JUN									
10...	3.8	.01	.00	.0	.00	.00	.0	.00	.00
SEP									
16...	3.8	.01	.00	.0	--	.00	.0	.00	.00
NOV									
18...	2.2	.01	.00	.0	.00	.00	.0	.00	.00
MAR , 1976									
29...	3.8	.00	.00	.0	.00	.00	.0	.00	.00
JUN									
15...	4.2	.00	.00	.0	.00	.00	.0	.00	.00
SEP									
21...	.6	2.0	.00	.0	.00	.00	.0	.00	.00
NOV									
16...	4.8	.00	.00	.0	.00	.00	.0	.00	.00
MAR , 1977									
29...	--	.00	--	.0	.00	.00	.0	.00	.00
JUN									
28...	5.5	--	--	.0	.00	.00	.0	.00	.00
SEP									
21...	--	.00	--	.0	.00	.00	.0	.00	.00

DATE	TOTAL DDT (UG/L)	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELDORIN (UG/L)	TOTAL ENDO- SULFAN (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL TRI- THION (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)
SEP , 1974									
10...	--	--	--	--	--	--	--	--	--
DEC									
11...	.00	.00	.00	--	.00	.00	.00	.00	.00
MAR , 1975									
11...	.00	.00	.00	--	.00	.00	.00	.00	.00
JUN									
10...	.00	.00	.00	--	.00	.00	.00	.00	.00
SEP									
16...	.00	.00	.00	--	.00	.00	.00	.00	.00
NOV									
18...	.00	.00	.00	--	.00	.00	.00	.00	.00
MAR , 1976									
29...	.00	.00	.00	--	.00	.00	.00	.00	.00
JUN									
15...	.00	.00	.00	--	.00	.00	.00	.00	.00
SEP									
21...	.00	.00	.00	--	.00	.00	.00	.00	.00
NOV									
16...	.00	.00	.00	--	.00	.00	.00	.00	.00
MAR , 1977									
29...	.00	.00	.00	--	.00	.00	.00	.00	.00
JUN									
28...	.00	.01	.00	.00	.00	.00	.00	.00	.00
SEP									
21...	.00	--	.00	.00	--	--	--	.00	.00

LAKE ONTARIO

365

431721077234800 (042320503) LAKE ONTARIO (POINT A) NEAR WEBSTER, NY--Continued

WATER QUALITY DATA, SEPTEMBER 1974 TO SEPTEMBER 1977

DATE	TOTAL LINDANE (UG/L)	TOTAL MALA- THION (UG/L)	TOTAL METH- OXY- CHLOR (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL MIREX (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
SEP , 1974									
10...	--	--	--	--	--	--	.00	.00	.00
DEC									
11...	<.01	.00	.00	.00	.00	--	.00	.00	.00
MAR , 1975									
11...	.01	.00	--	.00	.00	--	.00	.00	.00
JUN									
10...	.00	.00	.00	.00	.00	--	.02	.00	.00
SEP									
16...	.00	.00	.00	.00	.00	--	.00	.00	.00
NOV									
18...	.00	.00	.00	.00	.00	--	.00	.00	.00
MAR , 1976									
29...	.00	.00	.00	.00	.00	--	.00	.00	.00
JUN									
15...	.00	.00	.00	.00	.00	--	.00	.00	.00
SEP									
21...	.00	.00	.00	.00	.00	--	.00	.00	.00
NOV									
16...	.00	.00	.00	.00	.00	--	.00	.00	.00
MAR , 1977									
29...	.00	.00	.00	.00	.00	--	.00	.00	.00
JUN									
28...	.00	.00	.00	.00	.00	.00	.00	.00	.00
SEP									
21...	.00	--	.00	--	--	.00	.00	.00	.00

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED STRON- TIUM 90 (PC/L)
DEC , 1974								
11...	<2.2	<.4	4.4	.5	3.5	.5	--	1.2
MAR , 1975								
11...	2.6	<.4	4.2	<.4	3.4	<.4	--	.9
SEP								
16...	<1.5	<.4	4.5	<.4	3.6	<.4	.04	.9
NOV								
18...	<2.8	<.4	4.4	<.4	3.6	<.4	.07	.6
MAR , 1976								
29...	<2.0	<.4	4.1	<.4	3.3	<.4	.04	--
JUN								
15...	<2.5	<.4	3.5	<.4	2.8	<.4	.09	.9
SEP								
21...	3.0	.6	1.4	1.3	1.2	1.2	.06	1.1
NOV								
16...	<2.2	<.4	3.7	<.4	2.9	<.4	.04	.8
MAR , 1977								
29...	<2.3	.4	4.1	.5	3.3	.5	.04	.8
JUN								
28...	<2.1	<.4	4.3	<.4	3.5	<.4	.09	.9
SEP								
21...	<2.4	<.4	4.6	<.4	3.7	<.4	.07	.8

LAKE ONTARIO

431731077235400 (042320504) LAKE ONTARIO (POINT B) NEAR WEBSTER, NY

LOCATION.--Lat 43°17'31", long 77°23'54", Monroe County, Hydrologic Unit 04150200. Samples collected about 10 ft (3 m) above lake bottom, 1.2 mi (1.9 km) north of shoreline, and 5.8 mi (9.3 km) north of Webster.

PERIOD OF RECORD.--March 1975 to September 1977 (discontinued).

WATER QUALITY DATA, MARCH 1975 TO SEPTEMBER 1977

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	
MAR , 1975												
11...	1030	240	7.4	1.5	130	37	39	8.0	13	1.5	114	0
JUN												
10...	1230	316	7.8	16.0	120	32	37	7.7	12	1.4	112	0
SEP												
16...	1230	330	8.0	17.0	140	47	43	7.0	12	1.3	109	0
NOV												
18...	1130	332	7.5	10.0	150	51	45	8.7	12	1.5	119	0
MAR , 1976												
29...	1030	358	7.8	3.0	130	41	40	8.3	13	1.6	114	0
JUN												
15...	1030	345	7.6	14.0	130	34	38	8.3	14	1.5	116	0
SEP												
21...	1030	335	7.8	17.0	130	36	37	8.3	13	1.4	110	0
NOV												
16...	1200	325	7.5	6.0	130	40	40	7.8	12	1.4	112	0
MAR , 1977												
29...	1130	360	7.4	6.0	130	46	39	7.5	13	1.5	100	0
JUN												
28...	1130	355	7.4	18.0	130	43	40	8.2	13	1.4	110	0
SEP												
21...	1500	345	7.6	15.0	130	47	39	7.7	13	1.6	100	0

DATE	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUCE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTIT- TUENTS) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)
MAR , 1975											
11...	94	30	28	--	.5	185	176	--	.27	--	--
JUN											
10...	92	26	26	.1	.1	206	165	--	.24	.05	.22
SEP											
16...	89	27	26	.1	.2	216	170	2	.06	.04	.36
NOV											
18...	98	27	27	.2	.2	177	180	<1	.17	.04	.22
MAR , 1976											
29...	94	29	25	.1	.6	183	174	4	.39	.03	.40
JUN											
15...	95	26	27	.1	.1	208	172	2	.23	.09	.54
SEP											
21...	90	29	28	.1	.1	190	171	1	.06	.05	.28
NOV											
16...	92	29	27	.2	.3	186	173	<1	.24	.01	.17
MAR , 1977											
29...	82	28	28	.1	.3	197	167	<1	.31	.01	.19
JUN											
28...	90	25	26	.1	.1	215	168	2	--	--	--
SEP											
21...	82	27	27	.2	.2	199	165	<1	.16	.02	.16

431731077235400 (042320504) LAKE ONTARIO (POINT B) NEAR WEBSTER, NY--Continued

WATER QUALITY DATA, MARCH 1975 TO SEPTEMBER 1977

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
MAR , 1975											
11...	.23	.50	.02	--	220	2	30	0	1	<1	1
JUN											
10...	.27	.51	.03	--	70	1	200	--	10	0	10
SEP											
16...	.40	.46	.03	--	100	0	0	0	0	0	0
NOV											
18...	.26	.43	.02	--	20	1	0	0	0	1	10
MAR , 1976											
29...	.43	.82	.03	--	130	0	0	0	0	0	10
JUN											
15...	.63	.86	.02	--	30	0	100	0	<10	0	0
SEP											
21...	.33	.41	.02	--	40	2	0	1	10	0	0
NOV											
16...	.18	.42	.03	--	40	2	100	1	<10	0	0
MAR , 1977											
29...	.20	.51	.02	--	40	0	0	0	<10	0	0
JUN											
28...	--	--	--	--	60	2	100	0	<10	0	2
SEP											
21...	.18	.34	.09	.00	0	0	0	0	<10	1	0

DATE	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LITHIUM (LI) (UG/L)	TOTAL MANG- NESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL MOLYB- DENUM (MO) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL STRON- TIUM (SR) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAR , 1975											
11...	220	<2	2	4	.5	1	2	0	<0	200	10
JUN											
10...	80	2	0	10	<.5	1	2	1	0	160	10
SEP											
16...	60	4	0	0	<.5	1	18	0	0	150	10
NOV											
18...	40	2	0	0	<.5	1	1	0	0	150	20
MAR , 1976											
29...	210	1	0	10	<.5	1	8	0	0	160	20
JUN											
15...	40	2	10	0	<.5	1	4	0	0	180	30
SEP											
21...	50	5	0	0	<.5	0	3	0	0	170	10
NOV											
16...	70	6	0	0	<.5	2	2	0	0	160	0
MAR , 1977											
29...	40	7	0	0	<.5	3	4	1	0	230	10
JUN											
28...	10	4	0	0	.0	3	7	0	0	210	10
SEP											
21...	100	6	0	0	.0	2	2	0	0	140	10

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	TOTAL PCB (UG/L)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDO (UG/L)	TOTAL DDE (UG/L)
MAR , 1975									
11...	2.5	.01	.00	.0	.00	.00	.0	.00	.00
JUN									
10...	4.0	.01	--	.0	.00	.00	.0	.00	.00
SEP									
16...	26	.01	.00	.0	--	.00	.0	.00	.00
NOV									
18...	3.0	.01	.00	.0	.00	.00	.0	.00	.00
MAR , 1976									
29...	3.6	.00	.00	.0	.00	.00	.0	.00	.00
JUN									
15...	5.2	.00	.10	.0	.00	.00	.0	.00	.00
SEP									
21...	.3	.00	.00	.0	.00	.00	.0	.00	.00
NOV									
16...	2.8	.00	.00	.0	.00	.00	.0	.00	.00
MAR , 1977									
29...	--	.00	.00	.0	.00	.00	.0	.00	.00
JUN									
28...	4.3	--	--	.0	.00	.00	.0	.00	.00
SEP									
21...	7.9	.00	--	.8	.00	.00	.0	.00	.00

LAKE ONTARIO

431731077235400 (042320504) LAKE ONTARIO (POINT B) NEAR WEBSTER, NY--Continued

WATER QUALITY DATA, MARCH 1975 TO SEPTEMBER 1977

DATE	TOTAL DDT (UG/L)	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDO- SULFAN (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL TRI- THION (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)
MAR , 1975									
11...	.00	.00	.00	--	.00	.00	.00	.00	.00
JUN									
10...	.00	.00	.00	--	.00	.00	.00	.00	.00
SEP									
16...	.00	.00	.00	--	.00	.00	.00	.00	.00
NOV									
18...	.00	.00	.00	--	.00	.00	.00	.00	.00
MAR , 1976									
29...	.00	.00	.00	--	.00	.00	.00	.00	.00
JUN									
15...	.00	.00	.00	--	.00	.00	.00	.00	.00
SEP									
21...	.00	.00	.00	--	.00	.00	.00	.00	.00
NOV									
16...	.00	.00	.00	--	.00	.00	.00	.00	.00
MAR , 1977									
29...	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUN									
28...	.00	.02	.00	.00	.00	.00	.00	.00	.00
SEP									
21...	.00	--	.00	.00	--	--	--	.00	.00

DATE	TOTAL LINDANE (UG/L)	TOTAL MALA- THION (UG/L)	TOTAL METH- OXY- CHLOR (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL MIREX (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
MAR , 1975									
11...	.00	.00	--	.00	.00	--	.00	.00	.00
JUN									
10...	.00	.00	.00	.00	.00	--	.02	.00	.00
SEP									
16...	.00	.00	.00	.00	.00	--	.00	.00	.00
NOV									
18...	.00	.00	.00	.00	.00	--	.00	.00	.00
MAR , 1976									
29...	.00	.00	.00	.00	.00	--	.00	.00	.00
JUN									
15...	.01	.00	.00	.00	.00	--	.00	.00	.00
SEP									
21...	.00	.00	.00	.00	.00	--	.00	.00	.00
NOV									
16...	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR , 1977									
29...	.01	.00	.00	.00	.00	.00	.00	.00	.00
JUN									
28...	.00	.00	.00	.00	.00	.00	.00	.00	.00
SEP									
21...	.00	--	.00	--	--	.00	.00	.00	.00

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED STRON- TIUM 90 (PC/L)
MAR , 1975								
11...	<2.2	<.4	--	--	4.1	<.4	--	--
JUN								
10...	<.4	2.7	--	--	6.0	3.7	--	--
SEP								
16...	<1.6	<.4	5.2	<.4	4.2	<.4	.03	.8
NOV								
18...	<2.8	<.4	4.5	<.4	3.7	<.4	.03	.7
MAR , 1976								
29...	<2.5	<.4	4.3	<.4	3.5	<.4	.02	--
JUN								
15...	<2.3	<.4	3.7	<.4	3.2	<.4	.05	1.0
SEP								
21...	<2.7	<.4	2.0	<.4	1.7	<.4	.03	1.2
NOV								
16...	<1.9	<.4	3.7	<.4	2.9	<.4	.10	1.1
MAR , 1977								
29...	<2.9	1.6	4.4	1.5	3.7	1.4	.08	.8
JUN								
28...	<3.0	<.4	5.1	<.4	4.1	<.4	.09	.8
SEP								
21...	<2.5	<.4	6.7	<.4	5.3	<.4	.05	.7

STREAMS TRIBUTARY TO LAKE ONTARIO

369

04232100 STERLING CREEK AT STERLING, NY

LOCATION.--Lat 43°19'31", long 76°38'51", Cayuga County, Hydrologic Unit 04140101, on right bank at Sterling, 25 ft (8 m) downstream from bridge on State Highway 104A, 1.8 mi (2.9 km) southwest of Sterling Valley, and 1.9 mi (3.1 km) upstream from Sterling Valley Creek.

DRAINAGE AREA.--44.4 mi² (115 km²).

PERIOD OF RECORD.--April 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 264.69 ft (80.677 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--20 years, 65.3 ft³/s (1.849 m³/s), 19.97 in/yr (507 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,490 ft³/s (42.2 m³/s) Apr. 4, 1960, gage height, 5.13 ft (1.564 m); minimum, 0.32 ft³/s (0.009 m³/s) Sept. 14, 1966, gage height, 1.50 ft (0.457 m).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 630 ft³/s (17.8 m³/s):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 13	1800	1,320 37.4	4.97 1.515

Minimum discharge, 2.0 ft³/s (0.06 m³/s) July 28, Aug. 8, gage height, 1.60 ft (0.488 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	102	50	40	28	140	211	45	8.7	5.0	5.9	6.4
2	19	96	39	39	27	145	153	45	12	4.6	5.3	17
3	17	89	50	38	27	139	106	47	14	4.6	4.6	14
4	17	80	40	37	27	165	87	43	12	4.3	4.3	10
5	12	70	34	38	27	340	94	40	12	3.7	4.3	9.3
6	10	37	34	38	27	301	83	40	10	3.7	5.3	8.2
7	9.9	110	50	36	27	272	75	43	9.9	26	7.0	6.4
8	16	89	90	36	26	257	75	39	9.3	14	5.9	5.3
9	132	63	60	36	26	369	67	41	9.3	13	8.7	5.3
10	304	60	50	35	26	665	64	48	8.7	9.9	7.6	4.3
11	219	33	40	35	30	876	58	45	8.7	8.2	7.0	2.7
12	149	71	60	35	35	813	52	41	8.2	7.0	7.6	2.7
13	107	87	76	34	40	1110	50	37	8.2	13	8.2	4.0
14	101	70	60	34	50	863	47	33	7.6	14	7.6	7.0
15	75	74	50	34	54	505	45	28	7.0	11	7.0	8.2
16	52	71	46	33	60	310	39	25	6.4	8.7	5.9	19
17	54	66	44	33	54	208	39	24	5.9	7.6	7.0	27
18	47	62	44	32	45	172	40	22	7.0	7.0	6.4	37
19	31	51	47	32	40	134	35	21	7.6	5.3	5.9	75
20	31	80	49	32	37	125	32	19	9.9	5.3	4.6	106
21	361	73	72	32	37	120	34	19	12	4.6	4.6	157
22	320	65	100	32	50	145	42	16	8.7	4.6	14	120
23	197	57	70	31	70	136	216	15	7.0	4.0	13	79
24	150	52	54	31	100	136	269	14	5.9	4.3	17	58
25	147	49	50	30	150	143	265	14	7.6	4.6	19	71
26	119	47	46	30	150	134	192	12	7.6	4.0	14	70
27	80	47	50	29	150	134	114	11	7.0	3.3	10	67
28	83	46	48	29	140	214	98	10	5.9	3.0	8.7	57
29	74	47	45	29	---	516	87	9.9	5.3	3.7	7.0	46
30	56	43	43	29	---	532	57	9.3	5.0	11	7.6	39
31	94	---	41	28	---	336	---	7.0	---	8.2	5.9	---
TOTAL	3104.9	1987	1632	1037	1560	10455	2826	863.2	254.4	231.2	246.9	1138.8
MEAN	100	66.2	52.6	33.5	55.7	337	94.2	27.8	8.48	7.46	7.96	38.0
MAX	361	110	100	40	150	1110	269	48	14	26	19	157
MIN	9.9	33	34	28	26	120	32	7.0	5.0	3.0	4.3	2.7
CFSM	2.25	1.49	1.18	.75	1.25	7.59	2.12	.63	.19	.17	.18	.86
IN.	2.60	1.66	1.37	.87	1.31	8.76	2.37	.72	.21	.19	.21	.95

CAL YR 1976	TOTAL	41883.5	MEAN 114	MAX 862	MIN 9.6	CFSM 2.57	IN 35.09
WTR YR 1977	TOTAL	25336.4	MEAN 69.4	MAX 1110	MIN 2.7	CFSM 1.56	IN 21.23

STREAMS TRIBUTARY TO LAKE ONTARIO

04232200 CATHARINE CREEK AT MONTOUR FALLS, NY

LOCATION.--Lat 42°19'42", long 76°50'39", Schuyler County, Hydrologic Unit 04140201, on left bank 12 ft (3.7 m) downstream from bridge on town road, 0.4 mi (0.6 km) south of Montour Falls village line and 0.6 mi (1.0 km) upstream from diversion channel.

DRAINAGE AREA.--38.6 mi² (100 km²).

PERIOD OF RECORD.--Occasional discharge measurements, water years, 1955-62, 1964-66. August 1975 to September 1977 (discontinued); no winter records.

GAGE.--Water-stage recorder. Altitude of gage is 470 ft (143.3 m), from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,680 ft³/s (47.6 m³/s) Sept. 26, 1975, gage height, 6.40 ft (1.951 m); minimum daily, 4.6 ft³/s (0.13 m³/s) Aug. 29, 1977; minimum gage height, 1.93 ft (0.588 m) July 29, Sept. 8, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 772 ft³/s (21.9 m³/s) Oct. 21; maximum gage height observed, 5.41 ft (1.649 m) Mar. 4; minimum daily discharge, 4.6 ft³/s (0.13 m³/s) Aug. 29; minimum gage height recorded, 1.94 ft (0.591 m) Sept. 5, 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	96				112	106	26	11	8.9	8.3	5.2
2	16	79				87	104	24	11	8.3	7.7	16
3	14	68				69	114	28	11	7.7	7.1	17
4	14	62				254	89	25	11	7.7	6.4	14
5	13	53				302	92	112	10	7.7	7.1	11
6	13	47				165	80	85	11	10	9.5	10
7	13	43				127	64	62	13	13	13	9.5
8	58	45				94	55	46	12	44	13	9.5
9	224	36				92	44	54	13	17	11	8.9
10	192	37				98	41	92	17	14	8.3	8.9
11	122	29				100	39	82	15	12	8.3	7.7
12	100	32				98	35	69	13	12	7.7	7.1
13	83	29				270	31	54	13	11	7.7	7.7
14	76	28				200	29	40	12	9.5	8.9	41
15	62	25				151	27	32	12	8.9	8.3	22
16	51	23				115	25	29	11	8.9	7.7	29
17	43	22				98	24	26	10	8.9	9.5	39
18	39	21				63	22	24	11	8.9	7.7	34
19	36	26				74	22	23	11	9.5	7.1	43
20	93	25				54	22	21	10	10	5.8	34
21	357	23				65	20	19	10	9.5	5.8	29
22	168	23				114	20	18	9.5	8.9	7.7	25
23	108	22				125	29	16	8.9	8.6	7.1	22
24	118	22				100	87	15	8.9	8.4	7.7	40
25	128	20				83	87	15	10	16	6.4	238
26	110	20				78	69	14	10	12	5.8	176
27	86	22				92	57	13	10	9.4	5.2	131
28	71	22				136	43	13	9.5	8.3	5.2	92
29	58	24				154	34	11	10	8.3	4.6	69
30	53	31				134	29	11	9.5	9.5	7.1	50
31	140	---				134	---	11	---	8.3	5.2	---
TOTAL	2678	1055				3892	1540	1110	334.3	345.1	237.9	1246.5
MEAN	86.4	35.2				126	51.3	35.8	11.1	11.1	7.67	41.6
MAX	357	96				302	114	112	17	44	13	238
MIN	13	20				54	20	11	8.9	7.7	4.6	5.2
CF5M	2.24	.91				3.25	1.33	.93	.29	.29	.20	1.08
IN.	2.58	1.02				3.75	1.48	1.07	.32	.33	.23	1.20

371

LOCATION.--Lat 42°23'00", long 76°52'05", Schuylster County, Hydrologic Unit 04140201, on east bank about 300 ft (91 m) from lake on shorter of two boat slips at Watkins Glen.

REVISED RECORDS.--WRD NY 1970: Drainage area.

REMARKS.--Area of water surface, 67.6 mi² (175 km²). Diversion from Susquehanna River basin enters lake through Keuka Lake Outlet at Dresden. For table of diversion, see station 01528700. Lake regulated by taintor gates on Seneca River at lock 4, Waterloo, for operation of Erie (Barge) Canal and power generation by New York State Electric & Gas Corp.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 446.56 ft (136.111 m) Aug. 8; minimum, 442.97 ft (135.017 m) Feb. 12, 13, 24.

DAY	UCT	NOV	DEC	JAN	FEH	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	444.47	444.82	443.72	443.73	443.15	443.53	445.31	445.43	445.41	445.35	445.22	445.15
2	444.45	444.78	443.70	443.71	443.15	443.51	445.37	445.38	445.42	445.35	445.29	445.19
3	444.45	444.74	443.68	443.70	443.11	443.52	445.46	445.33	445.43	445.37	445.22	445.19
4	444.42	444.71	443.67	443.70	443.12	443.53	445.41	445.31	445.42	445.31	445.22	445.17
5	444.35	444.73	443.69	443.68	443.14	443.55	445.45	445.41	445.42	445.33	445.23	445.13
6	444.32	444.68	443.65	443.66	443.12	443.59	445.45	445.46	445.41	445.40	445.27	445.20
7	444.33	444.67	443.75	443.68	443.12	443.71	445.41	445.52	445.43	445.41	445.32	445.15
8	444.42	444.65	443.78	443.66	443.09	443.70	445.45	445.53	445.42	445.46	445.35	445.16
9	444.58	444.57	443.79	443.65	443.05	443.68	445.46	445.66	445.48	445.38	445.38	445.07
10	444.85	444.54	443.75	443.64	443.06	443.74	445.47	445.63	445.48	445.49	445.31	445.07
11	444.86	444.52	443.80	443.60	443.03	443.80	445.48	445.64	445.46	445.46	445.31	445.14
12	444.82	444.48	443.82	443.63	443.03	443.82	445.49	445.61	445.45	445.35	445.35	445.01
13	444.79	444.45	443.87	443.55	443.03	444.00	445.47	445.59	445.45	445.39	445.29	445.00
14	444.84	444.41	443.76	443.53	443.05	444.16	445.49	445.55	445.43	445.40	445.31	445.15
15	444.81	444.37	443.80	443.54	443.09	444.23	445.49	445.49	445.45	445.34	445.35	445.15
16	444.74	444.33	443.80	443.52	443.09	444.29	445.49	445.44	445.45	445.35	445.25	445.11
17	444.76	444.28	443.82	443.47	443.09	444.35	445.50	445.39	445.43	445.37	445.40	445.22
18	444.69	444.25	443.83	443.45	443.06	444.42	445.50	445.41	445.46	445.34	445.39	445.26
19	444.59	444.20	443.79	443.43	443.08	444.47	445.50	445.44	445.51	445.34	445.24	445.45
20	444.54	444.18	443.80	443.42	443.12	444.47	445.46	445.44	445.52	445.33	445.28	445.83
21	444.78	444.13	443.85	443.39	443.11	444.53	445.44	445.45	445.52	445.39	445.22	445.90
22	444.79	444.06	443.80	443.39	443.08	444.64	445.45	445.46	445.51	445.44	445.24	445.91
23	444.75	443.99	443.78	443.35	443.10	444.80	445.57	445.48	445.48	445.33	445.26	445.85
24	444.76	443.94	443.78	443.31	443.07	444.86	445.74	445.50	445.40	445.26	445.27	445.89
25	444.85	443.87	443.74	443.32	443.26	444.89	445.79	445.54	445.41	445.35	445.26	446.18
26	444.88	443.79	443.77	443.30	443.35	444.90	445.77	445.54	445.49	445.39	445.18	446.26
27	444.83	443.78	443.79	443.28	443.41	444.91	445.71	445.46	445.48	445.32	445.17	446.35
28	444.75	443.80	443.77	443.24	443.51	444.99	445.66	445.45	445.44	445.23	445.20	446.32
29	444.70	443.84	443.76	443.21	---	445.14	445.58	445.48	445.41	445.20	445.20	446.29
30	444.68	443.77	443.75	443.19	---	445.22	445.51	445.47	445.42	445.26	445.24	446.20
31	444.76	---	443.72	443.15	---	445.32	---	445.43	---	445.26	445.20	---
MEAN	444.66	444.31	443.77	443.48	443.13	444.27	445.52	445.48	445.45	445.36	445.27	445.50
MAX	444.88	444.82	443.87	443.73	443.51	445.32	445.79	445.65	445.52	445.49	445.40	446.35
MIN	444.32	443.77	443.65	443.15	443.03	443.51	445.37	445.31	445.40	445.20	445.17	445.00
CAL YR 1976	MEAN 445.02		MAX 447.02		MIN 443.65							
NR YR 1977	MEAN 446.69		MAX 446.35		MIN 443.03							

STREAMS TRIBUTARY TO LAKE ONTARIO

04232450 KEUKA LAKE AT HAMMONDSPORT, NY

LOCATION.--Lat 42°24'22", long 77°13'08", Steuben County, Hydrologic Unit 04140201, on left bank of Keuka Inlet at end of Liberty Street extension at Hammondsport, and 300 ft (91 m) upstream from mouth.

DRAINAGE AREA.--182 mi² (471 km²).

PERIOD OF RECORD.--August 1960 to current year.

REVISED RECORDS.--WRD NY 1968: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to October 1, 1975, at datum 710.00 ft (216.408 m) higher.

REMARKS.--Lake regulated by village of Penn Yan; prior to July 1962, by New York State Electric and Gas Corp. Area of water surface, 18.3 mi² (47.4 km²). During each year, a large part of flow from 45.5 mi² (118 km²) of drainage area of Mud Creek (Susquehanna River basin) is diverted into Keuka Lake for power development. For table of diversion, see station 01528700.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 719.35 ft (219.258 m) June 24, 1972; minimum daily, 711.40 ft (216.835 m) Feb. 2, 3, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 715.72 ft (218.151 m) Sept. 27; minimum, 712.36 ft (217.127 m) Jan. 28.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	713.66	713.85	713.12	712.68	712.40	713.20	714.50	714.79	714.38	714.35	714.41	713.91
2	713.66	713.82	713.11	712.50	712.40	713.23	714.50	714.82	714.39	714.36	714.42	713.96
3	713.66	713.80	713.10	712.48	712.40	713.26	714.54	714.85	714.40	714.35	714.40	713.97
4	713.66	713.77	713.09	712.47	712.40	713.31	714.52	714.88	714.37	714.34	714.37	713.95
5	713.65	713.75	713.07	712.45	712.40	713.48	714.50	715.01	714.37	714.35	714.37	713.94
6	713.64	713.70	713.15	712.43	712.40	713.55	714.48	715.02	714.36	714.38	714.39	713.96
7	713.63	713.67	713.16	712.41	712.40	713.58	714.46	715.01	714.36	714.44	714.39	713.93
8	713.71	713.64	713.15	712.42	712.40	713.60	714.44	714.96	714.33	714.61	714.37	713.92
9	713.81	713.59	713.17	712.44	712.40	713.64	714.41	715.00	714.37	714.62	714.33	713.86
10	714.07	713.56	713.09	712.46	712.40	713.72	714.39	715.03	714.39	714.64	714.26	713.84
11	714.13	713.53	713.08	712.46	712.40	713.80	714.37	715.04	714.37	714.60	714.22	713.84
12	714.12	713.48	713.10	712.46	712.40	713.85	714.35	715.01	714.36	714.59	714.22	713.79
13	714.07	713.44	713.11	712.46	712.40	714.08	714.33	714.99	714.35	714.60	714.16	713.82
14	714.03	713.41	713.00	712.46	712.50	714.25	714.32	714.97	714.34	714.62	714.12	714.02
15	713.97	713.38	713.00	712.47	712.60	714.29	714.29	714.93	714.35	714.60	714.11	714.04
16	713.94	713.34	713.00	712.47	712.60	714.28	714.27	714.88	714.33	714.60	714.06	714.09
17	713.90	713.30	713.02	712.44	712.60	714.26	714.24	714.84	714.31	714.60	714.16	714.18
18	713.84	713.26	713.05	712.43	712.60	714.28	714.22	714.81	714.35	714.61	714.12	714.25
19	713.79	713.21	712.97	712.42	712.60	714.26	714.21	714.80	714.40	714.61	714.05	714.46
20	713.76	713.21	712.91	712.40	712.60	714.23	714.20	714.77	714.39	714.62	714.00	714.88
21	713.93	713.16	712.96	712.40	712.60	714.22	714.22	714.73	714.40	714.61	713.93	715.01
22	713.93	713.14	712.87	712.39	712.60	714.26	714.24	714.69	714.39	714.63	713.92	715.01
23	713.93	713.14	712.81	712.39	712.63	714.32	714.34	714.65	714.38	714.57	713.92	715.00
24	713.92	713.14	712.80	712.40	712.66	714.31	714.52	714.61	714.35	714.54	713.98	715.03
25	713.96	713.12	712.78	712.41	712.87	714.30	714.60	714.58	714.37	714.57	713.95	715.53
26	713.96	713.13	712.78	712.40	712.94	714.27	714.66	714.56	714.40	714.57	713.92	715.64
27	713.91	713.15	712.80	712.40	713.02	714.26	714.69	714.51	714.39	714.53	713.91	715.68
28	713.85	713.17	712.74	712.39	713.15	714.31	714.72	714.48	714.39	714.48	713.91	715.65
29	713.81	713.14	712.72	712.38	---	714.41	714.74	714.49	714.39	714.43	713.91	715.61
30	713.77	713.13	712.67	712.40	---	714.44	714.77	714.43	714.39	714.44	713.93	715.57
31	713.82	---	712.67	712.40	---	714.50	---	714.40	---	714.42	713.92	---
MEAN	713.85	713.40	712.97	712.44	712.56	713.99	714.43	714.79	714.37	714.53	714.13	714.48
MAX	714.13	713.85	713.17	712.68	713.15	714.50	714.77	715.04	714.40	714.64	714.42	715.68
MIN	713.63	713.12	712.67	712.38	712.40	713.20	714.20	714.40	714.31	714.34	713.91	713.79

CAL YR 1976 MEAN 714.07 MAX 716.25 MIN 712.67
WTR YR 1977 MEAN 713.84 MAX 715.68 MIN 712.38

373

LOCATION.--Lat 42°40'49", long 76°57'15", Yates County, Hydrologic Unit 04140201, on right bank at upstream side of bridge on Milo Street in Dresden, and 0.4 mi (0.6 km) upstream from mouth.

PERIOD OF RECORD.--April 1965 to current year.

REMARKS.--Records fair except those for winter periods, which are poor. Flow regulated by village of Penn Yan. During each year a large part of flow from 45.5 mi² (118 km²) of Mud Creek drainage area (Susquehanna River basin) is diverted into Keuka Lake (Oswego River basin) for power development. For table of diversion, see station 01528700.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,000 ft³/s (113 m³/s) June 22, 1972, gage height, 8.37 ft (2.551 m), from rating curve extended above 2,100 ft³/s (59.5 m³/s) on basis of contracted-opening measurement at Mays Mills, adjusted for intervening area; minimum daily, 12 ft³/s (0.34 m³/s) July 16, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,580 ft³/s (73.1 m³/s) Sept. 20, gage height, 6.00 ft (1.829 m); minimum, 16 ft³/s (0.45 m³/s) July 24, 25, gage height, 0.25 ft (.076 m).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	390	70	200	78	65	390	39	87	33	47	32
2	41	371	68	199	78	61	380	41	47	32	46	32
3	41	363	68	200	82	79	390	47	48	32	46	32
4	41	359	68	190	88	124	390	71	46	32	46	32
5	42	356	66	200	86	129	380	250	46	34	72	31
6	41	352	80	190	82	107	380	372	47	29	137	32
7	40	344	100	131	80	98	380	372	46	25	137	32
8	67	337	120	64	80	98	370	372	46	33	214	31
9	332	333	137	68	78	107	370	396	48	25	280	31
10	295	330	199	68	80	111	370	424	46	23	280	31
11	228	323	295	68	82	109	300	404	43	22	280	33
12	216	319	288	66	84	109	210	392	42	23	277	42
13	268	316	280	64	90	207	210	376	41	23	273	47
14	309	312	260	64	84	195	207	372	41	23	273	58
15	309	305	252	66	82	340	207	364	41	23	195	48
16	298	288	252	64	78	336	201	364	39	23	96	107
17	291	259	249	60	76	329	201	364	41	23	155	181
18	291	256	246	60	76	326	153	356	43	23	230	244
19	285	252	243	74	78	329	109	344	42	23	224	344
20	291	246	246	88	78	326	72	344	41	24	224	965
21	474	240	243	88	76	333	34	340	41	23	220	348
22	359	170	240	86	78	360	35	336	37	23	153	312
23	371	100	240	84	80	356	71	333	34	21	58	287
24	375	88	240	84	180	348	109	333	34	17	61	360
25	394	80	240	84	202	333	76	333	39	42	60	845
26	382	76	228	82	95	340	60	291	36	91	50	456
27	375	74	220	90	100	384	51	124	33	91	33	424
28	371	74	210	78	84	438	47	124	34	91	33	400
29	363	72	210	76	---	410	42	122	34	91	32	388
30	356	70	200	76	---	480	41	122	32	93	32	384
31	427	---	200	78	---	390	---	124	---	54	32	---
TOTAL	8014	7455	6058	3080	2519	7457	6236	8650	1275	1165	4296	6590
MEAN	259	249	195	99.4	90.0	247	208	279	42.5	37.6	139	220
MAX	474	390	295	200	202	438	390	424	87	93	280	965
MIN	40	70	66	60	76	61	34	39	32	17	32	31
CAL YR 1976	TOTAL	110887	MEAN 303	MAX 1320	MIN 36							
WTR YR 1977	TOTAL	62995	MEAN 173	MAX 965	MIN 17							

STREAMS TRIBUTARY TO LAKE ONTARIO

04233000 CAYUGA INLET NEAR ITHACA, NY

LOCATION.--Lat 42°23'35", long 76°32'43", Tompkins County, Hydrologic Unit 04140201, on left bank 0.8 mi (1.3 km) upstream from Enfield (formerly Butternut) Creek, and 5 mi (8 km) south of Ithaca.

DRAINAGE AREA.--35.2 mi² (91.2 km²).

PERIOD OF RECORD.--March 1937 to current year.

REVISED RECORDS.--WRD NY 1968: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 437.16 ft (133.246 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--40 years, 38.4 ft³/s (1.087 m³/s), 14.81 in/yr (376 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft³/s (136 m³/s) June 23, 1972, gage height, 8.10 ft (2.469 m), from rating curve extended above 1,600 ft³/s (45.3 m³/s) on basis of slope-area measurements at gage heights 5.5 ft (1.68 m) and 7.58 ft (2.310 m); minimum, 1.7 ft³/s (0.048 m³/s) July 22, 1955; minimum gage height, 0.42 ft (0.128 m) Aug. 30, 31, Sept. 1, 2, 1939, July 22, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (19.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1345	*869 24.6	*3.30 1.006	Sept. 25	0430	850 24.1	3.26 0.994

Minimum discharge, 4.3 ft³/s (0.12 m³/s) Sept. 12, gage height, 0.53 ft (0.162 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	98	17	18	8.4	88	115	34	14	7.5	4.6	6.0
2	11	74	16	18	9.2	69	109	36	14	7.2	8.0	8.0
3	10	64	15	19	12	65	118	35	14	9.0	7.3	9.6
4	9.5	59	15	19	15	241	88	34	12	11	7.3	7.2
5	8.6	51	16	17	14	244	105	160	12	13	9.0	8.4
6	8.2	45	16	17	14	145	87	118	14	14	16	7.6
7	7.9	42	81	17	11	100	72	74	18	15	13	6.8
8	30	41	48	16	10	87	67	61	13	58	10	6.4
9	303	36	40	16	11	96	59	74	20	21	8.4	5.7
10	140	36	37	16	12	109	59	92	32	13	7.2	5.3
11	69	34	38	15	14	102	54	74	20	11	6.8	5.0
12	51	30	35	15	28	100	48	61	14	9.6	10	5.0
13	43	29	32	13	68	279	45	55	12	8.8	8.0	6.8
14	51	28	26	14	54	176	41	48	11	8.2	8.8	61
15	38	26	28	15	26	125	38	43	10	7.6	8.8	21
16	36	25	26	15	20	111	36	40	9.8	7.0	6.8	69
17	31	24	25	13	18	79	34	37	9.6	7.2	13	60
18	28	24	24	11	16	74	33	34	12	7.8	8.8	65
19	25	23	24	13	18	70	32	33	12	8.0	7.2	71
20	65	22	34	14	16	64	29	30	11	12	6.4	74
21	282	22	38	14	14	69	27	28	10	12	6.0	48
22	94	21	36	13	13	135	26	25	9.8	10	12	34
23	67	20	27	11	16	127	51	23	9.8	8.8	9.2	27
24	100	19	24	9.6	120	94	120	25	11	7.7	12	61
25	113	20	26	14	237	81	87	25	11	45	9.2	352
26	102	19	24	12	109	75	62	21	9.8	25	7.6	162
27	72	21	22	7.0	192	94	52	19	11	11	6.4	107
28	61	23	20	8.4	157	230	47	18	11	8.8	6.0	64
29	55	25	20	9.6	---	300	41	16	9.2	8.0	5.7	48
30	48	20	17	9.2	---	179	38	15	8.0	15	7.2	39
31	165	---	17	8.4	---	160	---	15	---	10	6.0	---
TOTAL	2135.2	1021	864	427.2	1242.6	3989	1821	1403	385.0	417.3	266.7	1451.8
MEAN	68.9	34.0	27.9	13.8	44.4	129	60.7	45.3	12.8	13.5	8.60	48.4
MAX	303	98	81	19	237	300	120	160	32	58	16	352
MIN	7.9	19	15	7.0	8.4	64	26	15	8.0	7.0	5.7	5.0
CFSM	1.96	.97	.79	.39	1.26	3.66	1.72	1.29	.36	.38	.24	1.38
IN.	2.26	1.08	.91	.45	1.31	4.22	1.92	1.48	.41	.44	.28	1.53

CAL YR 1976	TOTAL	17679.0	MEAN 48.3	MAX 480	MIN 5.8	CFSM 1.37	IN 18.68
WTR YR 1977	TOTAL	15423.8	MEAN 42.3	MAX 352	MIN 5.0	CFSM 1.20	IN 16.30

STREAMS TRIBUTARY TO LAKE ONTARIO

375

04233500 CAYUGA LAKE AT ITHACA, NY

LOCATION.--Lat 42°26'45", long 76°30'45", Tompkins County, Hydrologic Unit 04140201, on left bank of natural channel 40 ft (12 m) upstream from flood-control channel of Cayuga Inlet, at north end of Taughannock Boulevard, and 1 mi (2 km) upstream from mouth of Inlet, at Ithaca.

DRAINAGE AREA.--1,564 mi² (4,051 km²); Cayuga Lake portion, 785 mi² (2,033 km²).

PERIOD OF RECORD.--August 1905 to December 1909, August 1956 to current year in reports of Geological Survey. January 1910 to September 1925 in reports of State Engineer and Surveyor.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (1.43 ft or 0.436 m, Barge Canal datum). Prior to September 1925, nonrecording gage at several sites within 1 mi (2 km) of present site. Prior to October 1968, at datum 378.57 ft (115.388 m) higher. October 1968 to September 1975, at datum 376.57 ft (114.779 m) higher.

REMARKS.--Lake regulated at Mud Lock by New York State Department of Transportation. Area of water surface, 66.9 mi² (173 km²). Seneca River (Cayuga and Seneca Canal) enters lake 0.5 mi (0.8 km) upstream from Mud Lock and is included in first drainage area given above.

EXTREMES FOR PERIOD OF RECORD.--(1905-25 and since 1956): Maximum elevation, 386.33 ft (117.753 m) June 26, 1972; minimum daily, 377.64 ft (115.105 m) present datum, Mar. 28, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 383.93 ft (117.022 m) Sept. 27, 28; minimum, 378.76 ft (115.446 m) Feb. 11.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	381.84	382.01	380.51	379.03	378.84	379.84	382.00	382.27	382.48	382.47	382.04	382.20
2	381.85	381.95	380.45	379.03	378.84	379.91	381.92	382.33	382.52	382.47	382.06	382.23
3	381.85	381.85	380.43	379.01	378.84	379.95	381.95	382.39	382.59	382.45	382.01	382.26
4	381.84	381.79	380.35	379.00	378.84	380.01	381.83	382.31	382.54	382.36	381.98	382.24
5	381.79	381.73	380.27	378.99	378.85	380.20	381.80	382.34	382.52	382.36	381.97	382.16
6	381.75	381.66	380.16	378.98	378.83	380.35	381.82	382.37	382.48	382.41	381.99	382.19
7	381.74	381.56	380.09	378.98	378.81	380.46	381.72	382.39	382.51	382.40	382.02	382.13
8	381.82	381.50	380.15	379.00	378.79	380.53	381.72	382.33	382.48	382.44	382.05	382.10
9	381.93	381.37	380.11	378.99	378.78	380.57	381.57	382.45	382.45	382.49	382.09	382.01
10	382.30	381.26	380.03	378.99	378.77	380.62	381.44	382.45	382.46	382.50	382.09	381.90
11	382.59	381.22	379.99	379.00	378.77	380.69	381.32	382.50	382.44	382.45	382.10	382.01
12	382.56	381.15	379.94	378.99	378.78	380.74	381.35	382.54	382.42	382.40	382.18	381.91
13	382.43	381.09	379.94	378.98	378.80	380.80	381.35	382.62	382.39	382.44	382.17	381.81
14	382.47	381.02	379.83	378.96	378.81	380.97	381.41	382.66	382.34	382.49	382.15	381.92
15	382.39	380.95	379.72	378.97	378.84	381.11	381.39	382.68	382.32	382.41	382.18	382.08
16	382.31	380.88	379.66	378.98	378.85	381.23	381.39	382.69	382.33	382.38	382.14	382.09
17	382.26	380.80	379.62	378.97	378.86	381.35	381.38	382.69	382.29	382.37	382.21	382.27
18	382.22	380.78	379.60	378.95	378.85	381.41	381.36	382.64	382.29	382.35	382.36	382.48
19	382.07	380.78	379.52	378.94	378.84	381.46	381.37	382.61	382.34	382.34	382.38	382.78
20	381.96	380.79	379.45	378.93	378.85	381.44	381.36	382.55	382.39	382.32	382.40	383.11
21	382.13	380.78	379.47	378.92	378.85	381.41	381.40	382.54	382.44	382.34	382.35	383.44
22	382.23	380.75	379.44	378.93	378.84	381.39	381.45	382.49	382.48	382.41	382.28	383.63
23	382.21	380.73	379.35	378.92	378.83	381.47	381.57	382.47	382.47	382.30	382.32	383.65
24	382.15	380.70	379.31	378.90	378.84	381.55	381.77	382.47	382.43	382.21	382.35	383.61
25	382.19	380.67	379.23	378.89	379.09	381.60	381.96	382.54	382.43	382.23	382.40	383.62
26	382.26	380.61	379.20	378.89	379.31	381.60	382.04	382.61	382.49	382.30	382.33	383.74
27	382.23	380.60	379.18	378.89	379.45	381.57	382.08	382.62	382.49	382.26	382.27	383.88
28	382.11	380.61	379.13	378.87	379.70	381.55	382.17	382.62	382.45	382.15	382.27	383.93
29	382.00	380.62	379.08	378.86	---	381.63	382.23	382.62	382.46	382.06	382.25	383.89
30	381.92	380.58	379.05	378.85	---	381.77	382.25	382.56	382.50	382.05	382.28	383.77
31	381.90	---	379.03	378.84	---	381.91	---	382.50	---	382.08	382.28	---
MEAN	382.11	381.09	379.72	378.95	378.91	381.00	381.68	382.51	382.44	382.35	382.19	382.70
MAX	382.59	382.01	380.51	379.03	379.70	381.91	382.25	382.69	382.59	382.50	382.40	383.93
MIN	381.74	380.58	379.03	378.84	378.77	379.84	381.32	382.27	382.29	382.05	381.97	381.81

CAL YR 1976 MEAN 381.55 MAX 383.31 MIN 378.83
WTR YR 1977 MEAN 381.32 MAX 383.93 MIN 378.77

04234000 FALL CREEK NEAR ITHACA, NY

LOCATION.--Lat 42°27'12", long 76°28'23", Tompkins County, Hydrologic Unit 04140201, on left bank in Forest Home, 0.2 mi (0.3 km) east of Ithaca, 0.5 mi (0.8 km) upstream from Cornell University dam, and 2.2 mi (3.5 km) upstream from mouth.

DRAINAGE AREA.--126 mi² (326 km²).

PERIOD OF RECORD.--July 1908 to June 1909 (gage heights only), February 1925 to current year.

REVISED RECORDS.--WSP 874: 1935-38. WSP 1912: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 795.13 ft (242.356 m) above mean sea level. July 1908 to June 1909, nonrecording gage at bridge 1.2 mi (1.9 km) downstream at different datum.

REMARKS.--Records good except those for winter periods, which are poor. Diversion from point about 1 mi (2 km) upstream from station by Cornell University for water supply and at several sites for irrigation purposes. Records of diversion from Fall Creek are in files of Cornell University.

AVERAGE DISCHARGE.--52 years (1925-77), 185 ft³/s (5.239 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft³/s (439 m³/s) July 8, 1935 gage height, 9.52 ft (2.902 m), from average of computed flow over each of four dams; maximum gage height 11.16 ft (3.402 m) Feb. 21, 1971 (ice jam); minimum discharge, about 3 ft³/s (0.085 m³/s) Aug. 25, 1927, result of regulation; minimum daily, 3.6 ft³/s (0.10 m³/s) Aug. 17, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s (53.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2300	2,900 82.1	4.39 1.338	Sept. 17	0130	1,940 54.9	3.70 1.128
Feb. 25	0830	ice jam	*9.11 2.777	Sept. 19	0600	3,690 105	4.87 1.484
Feb. 25	†1430	*†5,000 142	†6.73 2.051	Sept. 20	1400	3,090 87.5	4.51 1.375
Mar. 14	0030	3,270 92.6	4.62 1.408	Sept. 25	1100	2,580 73.1	4.17 1.271

† About.

‡ Ice jam.

Minimum discharge, 21 ft³/s (0.59 m³/s) July 3, 4, 24, Aug. 5, Sept. 12, 13; minimum gage height, 0.46 ft (0.140 m) Sept. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	520	96	92	62	526	584	137	40	30	40	40
2	59	305	110	96	64	356	421	130	39	24	35	42
3	57	257	80	98	64	323	564	145	39	24	27	49
4	52	250	86	100	66	564	385	125	37	23	24	49
5	48	238	98	90	66	1250	380	319	36	31	24	38
6	44	204	94	94	60	753	370	235	36	41	75	35
7	45	191	340	88	56	460	281	159	56	48	188	32
8	210	185	390	84	54	385	257	130	47	135	101	30
9	1250	167	190	82	56	532	221	159	45	114	103	27
10	1500	167	201	82	62	945	214	231	75	59	67	24
11	466	173	204	80	78	971	204	217	61	42	83	23
12	305	145	185	78	100	911	188	148	45	41	57	21
13	246	142	150	76	130	1940	179	128	39	37	53	24
14	242	137	110	78	150	2180	167	114	37	30	45	584
15	217	135	130	80	140	945	153	105	37	26	43	265
16	188	128	120	78	130	646	145	97	33	24	36	886
17	164	118	120	76	120	495	135	90	31	25	351	1350
18	148	123	120	72	100	401	128	86	72	27	210	746
19	135	128	110	72	100	346	123	85	170	26	94	2430
20	148	125	160	76	96	319	116	79	73	43	65	2230
21	753	114	281	78	92	305	107	73	58	31	51	1530
22	385	109	164	78	80	551	107	69	46	58	69	688
23	250	103	159	76	96	558	194	61	37	31	95	454
24	265	101	130	78	110	390	702	61	33	24	92	375
25	520	99	120	80	2200	314	477	140	34	81	121	1900
26	406	99	130	82	720	310	285	83	51	121	75	936
27	269	128	110	78	680	328	221	61	41	46	55	846
28	224	130	100	72	920	646	191	52	33	33	48	489
29	204	156	100	66	---	1350	167	45	37	27	39	375
30	191	110	98	62	---	1030	150	43	39	56	49	305
31	532	---	98	62	---	814	---	40	---	67	56	---
TOTAL	9588	4987	4584	2484	6652	21844	7816	3647	1457	1425	2471	16823
MEAN	309	166	148	80.1	238	705	261	118	48.6	46.0	79.7	561
MAX	1500	520	390	100	2200	2180	702	319	170	135	351	2430
MIN	44	99	80	62	54	305	107	40	31	23	24	21
CFSM	2.45	1.32	1.17	.64	1.89	5.60	2.07	.94	.39	.37	.63	4.45
IN.	2.83	1.47	1.35	.73	1.96	6.45	2.31	1.08	.43	.42	.73	4.97

CAL YR 1976 TOTAL 92850 MEAN 254 MAX 1840 MIN 38 CFSM 2.02 IN 27.41
WTR YR 1977 TOTAL 83778 MEAN 230 MAX 2430 MIN 21 CFSM 1.83 IN 24.73

STREAMS TRIBUTARY TO LAKE ONTARIO

377

04234500 CANANDAIGUA LAKE AT CANANDAIGUA, NY

LOCATION.--Lat 42°52'19", long 77°16'22", Ontario County, Hydrologic Unit 04140201, at south end of city pier at northern end of Canandaigua Lake, 1 mi (2 km) southeast of Canandaigua.

DRAINAGE AREA.--184 mi² (477 km²).

PERIOD OF RECORD.--November 1939 to current year. December 1927 to November 1939, records for site on west side of E. T. Waldorf's boathouse collected by, and in files of, city of Canandaigua.

REVISED RECORDS.--WRD NY 1967: Drainage area. WRD NY 1971: 1970.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. June 26, 1946 to Sept. 30, 1975, at datum 681.17 ft (207.621 m) higher, and prior to June 26, 1946, nonrecording gage at E. T. Waldorf's boathouse at same datum.

REMARKS.--Lake elevation regulated by one gate on West outlet, which is a 1.5 mi-(2.4 km-) long canal, and by two gates on East outlet, which is the natural outlet. Sill elevations of West and East outflow structures are 684.37 ft (208.596 m) and 684.94 ft (208.770 m), respectively. Water diverted for municipal supply for villages of Newark, Palmyra, and Gorham. Records of diversion in files of city of Canandaigua. Area of water surface, 16.6 mi² (43.0 km²).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 692.11 ft (210.955 m) June 24, 1972; minimum daily, 685.62 ft (208.977 m) Jan. 30, 1942.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 689.82 ft (210.257 m) Sept. 26; minimum, 686.89 ft (209.364 m) Feb. 23.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	687.91	688.56	687.45	687.07	686.97	687.31	688.40	688.61	688.48	688.32	688.19	688.22
2	687.91	688.58	687.40	687.06	686.96	687.31	688.46	688.56	688.45	688.25	688.17	688.21
3	687.90	688.54	687.36	687.06	686.96	687.30	688.45	688.51	688.41	688.24	688.16	688.20
4	687.89	688.49	687.33	687.05	686.96	687.32	688.46	688.50	688.40	688.23	688.16	688.19
5	687.90	688.45	687.28	687.05	686.96	687.41	688.45	688.53	688.38	688.23	688.17	688.18
6	687.92	688.42	687.29	687.04	686.97	687.45	688.41	688.53	688.36	688.25	688.16	688.16
7	687.86	688.35	687.24	687.04	686.97	687.47	688.39	688.50	688.34	688.30	688.17	688.14
8	687.94	688.28	687.22	687.03	686.96	687.49	688.33	688.49	688.34	688.44	688.20	688.12
9	688.07	688.26	687.20	687.02	686.96	687.49	688.33	688.50	688.30	688.48	688.20	688.15
10	688.38	688.20	687.20	687.04	686.96	687.55	688.34	688.58	688.28	688.47	688.24	688.08
11	688.42	688.16	687.14	687.05	686.96	687.62	688.34	688.63	688.28	688.50	688.23	688.01
12	688.45	688.11	687.12	687.03	686.96	687.67	688.35	688.64	688.27	688.49	688.24	688.01
13	688.44	688.06	687.08	687.01	686.97	687.83	688.37	688.60	688.27	688.48	688.25	688.02
14	688.41	688.04	687.14	686.99	686.97	687.96	688.36	688.56	688.27	688.45	688.23	688.07
15	688.41	688.02	687.08	686.99	686.97	688.00	688.37	688.53	688.26	688.46	688.22	688.05
16	688.35	688.01	687.08	686.99	686.98	688.02	688.38	688.50	688.27	688.44	688.20	688.12
17	688.31	688.01	687.08	687.00	686.98	688.00	688.38	688.50	688.29	688.45	688.32	688.15
18	688.27	687.99	687.07	686.99	686.98	687.99	688.39	688.50	688.29	688.43	688.32	688.23
19	688.26	687.96	687.08	686.99	686.98	688.00	688.39	688.50	688.31	688.43	688.30	688.54
20	688.24	687.90	687.09	686.98	686.96	688.01	688.41	688.51	688.30	688.41	688.26	688.99
21	688.57	687.85	687.07	686.98	686.96	687.97	688.42	688.51	688.28	688.39	688.25	689.15
22	688.69	687.82	687.11	686.98	686.96	687.98	688.41	688.53	688.26	688.32	688.26	689.16
23	688.66	687.77	687.11	686.97	686.96	688.04	688.54	688.53	688.25	688.32	688.25	689.11
24	688.64	687.71	687.10	686.97	686.96	688.04	688.76	688.52	688.25	688.31	688.25	689.08
25	688.64	687.66	687.10	686.97	687.06	688.02	688.83	688.52	688.30	688.29	688.25	689.61
26	688.61	687.63	687.08	686.97	687.13	688.01	688.84	688.50	688.32	688.25	688.26	689.74
27	688.60	687.59	687.08	686.97	687.18	688.01	688.83	688.50	688.32	688.22	688.25	689.72
28	688.57	687.53	687.08	686.98	687.27	688.09	688.76	688.48	688.33	688.22	688.23	689.65
29	688.53	687.51	687.09	686.97	---	688.25	688.71	688.43	688.34	688.23	688.24	689.58
30	688.46	687.47	687.08	686.97	---	688.33	688.66	688.44	688.30	688.17	688.22	689.51
31	688.49	---	687.09	686.97	---	688.39	---	688.45	---	688.17	688.22	---
MEAN	688.31	688.03	687.16	687.01	686.99	687.82	688.48	688.52	688.32	688.34	688.23	688.61
MAX	688.69	688.58	687.45	687.07	687.27	688.39	688.84	688.64	688.48	688.50	688.32	689.74
MIN	687.86	687.47	687.07	686.97	686.96	687.30	688.33	688.43	688.25	688.17	688.16	688.01
CAL YR 1976	MEAN 688.32		MAX 690.53	MIN 687.07								
WTR YR 1977	MEAN 687.99		MAX 689.74	MIN 686.96								

STREAMS TRIBUTARY TO LAKE ONTARIO

04235000 CANANDAIGUA OUTLET AT CHAPIN, NY

LOCATION.--Lat 42°55'05", long 77°13'59", Ontario County, Hydrologic Unit 04140201, on right bank at Chapin, 25 ft (8 m) upstream from bridge on State Highway 488, and 4.1 mi (6.6 km) downstream from Canandaigua Lake.

DRAINAGE AREA.--195 mi² (505 km²).

PERIOD OF RECORD.--November 1939 to current year. Prior to October 1964, published as "Canandaigua Lake Outlet."

REVISED RECORDS.--WRD NY 1967: 1966; drainage area.

GAGE.--Water-stage recorder. Datum of gage is 671.44 ft (204.655 m) above mean sea level. Prior to June 25, 1974, at site 0.1 mi (0.2 km) upstream at datum 676.90 ft (206.319 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Flow regulated by Canandaigua Lake (see station 04234500), from which water is diverted for municipal supply by villages of Newark, Palmyra, and Gorham. Monthly runoff adjusted for change in contents in Canandaigua Lake from October 1945 to September 1966.

AVERAGE DISCHARGE.--37 years (1940-77), 151 ft³/s (4.276 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,710 ft³/s (48.4 m³/s) June 24, 1972, gage height, 5.62 ft (1.713 m) site and datum then in use; minimum, 4.6 ft³/s (0.13 m³/s) Sept. 17, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,100 ft³/s (31.2 m³/s) Sept. 25, gage height, 6.31 ft (1.923 m); minimum daily, 19 ft³/s (0.54 m³/s) Oct. 3-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	539	122	80	26	210	415	487	31	45	45	51
2	20	510	142	70	25	231	423	474	28	44	43	54
3	19	501	182	60	25	229	433	349	26	43	42	52
4	19	482	223	56	24	250	424	126	25	44	42	52
5	19	469	201	54	23	278	444	244	25	55	43	52
6	19	401	180	52	23	272	425	324	24	60	45	52
7	19	449	176	49	22	271	413	267	25	58	42	51
8	36	433	194	48	22	273	321	61	25	99	43	51
9	258	421	176	47	22	280	138	58	24	55	40	54
10	356	417	236	45	21	294	126	68	24	45	40	63
11	225	405	162	42	21	304	104	130	22	48	38	61
12	225	382	136	40	20	313	52	335	21	58	47	61
13	201	360	120	38	20	405	51	353	24	58	40	68
14	191	160	74	36	25	399	50	346	27	54	43	128
15	201	101	38	35	30	389	48	338	25	55	39	136
16	213	97	38	34	40	385	51	295	27	55	40	191
17	205	97	38	33	50	380	51	74	30	58	94	382
18	196	106	37	32	54	375	51	57	32	57	52	364
19	156	198	38	32	50	376	51	61	32	55	44	453
20	162	314	42	32	45	368	52	64	34	52	40	863
21	569	321	40	31	42	349	51	64	36	50	42	739
22	559	304	50	31	40	378	51	64	36	44	45	708
23	554	276	60	30	50	384	142	63	38	40	44	678
24	539	292	58	29	80	385	594	58	39	39	51	668
25	554	262	54	28	190	365	605	52	48	40	45	958
26	534	279	50	27	200	367	584	45	45	39	44	833
27	515	267	54	27	200	383	564	42	44	37	45	823
28	505	252	60	26	200	470	549	37	45	36	47	779
29	496	250	70	26	---	464	525	33	47	37	51	750
30	478	244	76	26	---	408	505	31	45	40	51	724
31	549	---	80	26	---	418	---	31	---	39	51	---
TOTAL	8612	9669	3207	1222	1590	10553	8293	5031	954	1539	1418	10899
MEAN	278	322	103	39.4	50.8	344	276	162	31.8	49.6	45.7	363
MAX	569	539	236	80	200	470	605	487	48	99	94	958
MIN	19	97	37	26	20	210	48	31	21	36	38	51

CAL YR 1976 TOTAL 111839 MEAN 306 MAX 992 MIN 17
WTR YR 1977 TOTAL 63087 MEAN 173 MAX 958 MIN 19

04235150 FLINT CREEK AT POTTER, NY

LOCATION.--Lat 42°42'09", long 77°12'26", Yates County, Hydrologic Unit 04140201, on left bank 90 ft (27 m) upstream from bridge on State Highway 364 at Potter, 0.1 mi (0.2 km) downstream from unnamed tributary, and 0.5 mi (0.8 km) upstream from Nettle Valley Creek.

DRAINAGE AREA.--31.0 mi² (80.3 km²).

PERIOD OF RECORD.--March 1964 to September 1968, October 1970 to current year.

REVISED RECORDS.--WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 883.93 ft (269.422 m) above mean sea level. Prior to July 23, 1974, recording gage at present site and datum. July 24, 1974 to July 22, 1975, nonrecording gages at various sites within 370 ft (113 m) at datum 1.38 ft (0.421 m) higher.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--11 years (1964-68, 1970-77), 32.1 ft³/s (0.909 m³/s), 14.06 in/yr (357 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,040 ft³/s (143 m³/s) June 23, 1972, gage height, 10.15 ft (3.094 m), from floodmarks, from rating curve extended above 700 ft³/s (19.8 m³/s); minimum daily, 0.02 ft³/s (0.001 m³/s) Sept. 23-27, 1964; minimum gage height, 1.39 ft (0.424 m) July 29, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.50 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	0300	373 10.6	5.44 1.658	Sept. 25	2345	*455 12.9	*5.81 1.771
Sept. 21	0415	336 9.52	5.23 1.594				

Minimum discharge, 1.8 ft³/s (0.051 m³/s) July 29, gage height, 1.39 ft (0.424 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	103	12	7.4	2.9	130	130	33	7.6	3.6	3.1	3.6
2	4.8	74	13	7.2	2.9	85	93	30	7.4	2.8	3.6	3.1
3	4.5	53	11	7.0	2.9	51	93	33	7.1	2.8	2.8	3.6
4	4.3	45	12	7.0	3.0	62	83	29	6.3	3.1	2.6	3.8
5	4.3	38	13	5.6	3.0	131	70	51	5.6	3.0	2.4	3.4
6	4.3	34	12	5.2	2.8	153	61	56	5.2	4.2	3.1	3.1
7	4.3	30	13	5.8	2.7	93	50	40	6.3	7.2	4.3	2.9
8	12	28	14	5.4	2.7	71	47	33	5.4	41	7.7	2.8
9	52	25	17	5.0	2.7	73	40	51	5.3	79	6.5	2.6
10	119	25	15	5.0	2.8	115	38	63	7.7	25	4.5	2.8
11	106	25	17	4.9	3.0	150	42	95	6.1	11	3.6	2.8
12	43	22	16	4.8	4.2	145	30	74	5.0	9.4	3.8	2.4
13	27	20	14	4.6	11	105	27	53	4.6	7.7	4.0	2.4
14	21	20	12	4.5	15	79	25	43	4.5	6.0	3.4	15
15	18	18	13	4.5	14	139	23	45	5.7	5.0	3.6	25
16	16	17	12	4.3	12	94	21	32	4.7	4.0	3.4	17
17	13	17	12	4.1	8.4	73	19	27	4.0	3.6	13	45
18	13	16	11	3.9	7.8	51	19	24	4.3	3.6	11	56
19	12	16	11	3.8	7.4	57	18	24	7.5	3.3	5.4	98
20	15	17	13	3.8	8.2	52	17	22	5.1	3.1	4.0	181
21	81	16	25	3.8	7.8	51	17	18	4.4	2.6	3.4	250
22	139	15	18	3.7	6.2	54	17	16	4.0	2.6	8.0	85
23	74	14	17	3.6	6.8	74	55	17	3.4	2.6	9.4	44
24	54	14	14	3.6	11	54	158	13	3.2	2.4	8.0	43
25	71	13	12	3.6	50	54	163	15	4.8	2.6	12	219
26	70	14	12	3.5	100	50	98	13	7.7	3.8	7.1	291
27	56	16	10	3.3	111	55	69	10	5.2	3.1	5.2	123
28	44	17	9.4	3.1	120	102	54	9.0	4.2	2.6	4.5	73
29	37	16	9.0	2.9	---	203	46	8.1	4.5	2.1	4.0	49
30	33	13	8.0	2.8	---	201	38	7.7	4.2	2.4	3.8	38
31	56	---	7.6	2.8	---	148	---	7.2	---	3.1	4.3	---
TOTAL	1213.8	791	411.0	142.5	532.2	3286	1660	992.0	161.0	258.3	165.5	1691.3
MEAN	39.2	26.4	13.3	4.50	19.0	106	55.3	32.0	5.37	8.33	5.34	56.4
MAX	139	103	26	7.4	120	279	163	95	7.7	79	13	291
MIN	4.3	13	7.6	2.8	2.7	50	17	7.2	3.2	2.1	2.4	2.4
CFSM	1.26	.85	.43	.15	.61	3.42	1.78	1.03	.17	.27	.17	1.82
IN.	1.46	.95	.49	.17	.64	3.94	1.99	1.19	.19	.31	.20	2.03
CAL YR 1976 TOTAL	15617.6			MEAN 42.7	MAX 554	MIN 4.1	CFSM 1.38	IN 18.74				
WTR YR 1977 TOTAL	11304.6			MEAN 31.0	MAX 291	MIN 2.1	CFSM 1.00	IN 13.57				

STREAMS TRIBUTARY TO LAKE ONTARIO

04235250 FLINT CREEK AT PHELPS, NY

LOCATION.--Lat 42°57'28", long 77°04'06", Ontario County, Hydrologic Unit 04140201, on right bank 25 ft (8 m) downstream from bridge on Eagle Street at Phelps, and 1.1 mi (1.8 km) upstream from Canandaigua Outlet.

DRAINAGE AREA.--102 mi² (264 km²).

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 523.14 ft (159.453 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Small diversion (during periods of low ground-water level) by Phelps Cement Products, Inc., located about 0.2 mile (0.3 km) upstream. Since 1967, flow from Canandaigua Lake diverted into Flint Creek for municipal supply of village of Gorham; presently not exceeding 0.3 ft³/s (0.008 m³/s).

AVERAGE DISCHARGE.--18 years, 89.1 ft³/s (2.523 m³/s), 11.86 in/yr (301 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,940 ft³/s (83.3 m³/s) Mar. 30, 1960, gage height, 5.83 ft (1.777 m); maximum gage height, 6.20 ft (1.890 m) Mar. 17, 1963 (ice jam); no flow for many days 1962-65, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (22.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2130	1,050 29.7	4.38 1.335	Sept. 21	0600	1,470 41.6	4.78 1.457
Mar. 29	0130	1,260 35.7	4.59 1.399	Sept. 26	0800	*1,520 43.0	*4.82 1.469

Minimum discharge, 3.1 ft³/s (0.088 m³/s) Aug. 5, gage height, 1.19 ft (0.363 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	394	34	24	8.0	310	425	84	21	9.7	6.1	7.0
2	14	303	23	22	9.0	250	302	75	20	8.4	5.4	7.0
3	14	203	18	21	9.0	212	266	73	20	7.2	4.6	6.5
4	12	155	22	21	9.0	212	231	69	18	6.7	4.4	6.1
5	12	124	27	20	9.2	333	197	96	16	8.1	3.9	6.3
6	11	104	32	19	9.2	354	162	125	15	18	5.8	6.3
7	10	91	41	17	9.4	253	126	94	15	22	6.1	5.8
8	43	83	52	15	9.4	205	111	74	15	43	13	5.4
9	404	75	86	15	9.5	212	96	89	14	70	14	4.7
10	774	73	64	15	9.6	267	87	185	15	69	11	4.2
11	429	79	56	15	10	329	85	224	18	34	10	4.1
12	243	72	45	14	10	329	81	194	15	22	9.6	3.4
13	126	65	38	14	12	379	69	128	13	19	9.4	3.9
14	91	62	33	14	20	305	62	94	12	15	12	19
15	73	60	30	13	32	475	57	81	11	12	11	15
16	61	55	28	13	38	299	54	74	11	10	10	30
17	51	53	26	13	41	194	51	62	12	9.1	47	91
18	45	53	26	13	37	147	47	55	15	7.8	44	84
19	40	51	30	13	34	120	45	50	13	6.7	25	355
20	42	49	41	12	31	120	44	48	16	6.5	14	743
21	621	48	54	11	28	115	43	43	18	5.6	10	1150
22	475	45	68	12	26	179	47	39	13	5.1	10	691
23	342	42	54	11	29	191	200	35	9.7	4.4	17	420
24	216	40	42	11	40	188	626	37	8.8	4.2	23	231
25	253	38	35	12	300	140	543	39	15	4.7	22	400
26	253	39	31	12	270	143	382	35	18	4.7	20	1200
27	197	42	29	11	250	155	235	30	18	4.9	14	820
28	150	43	27	10	320	345	160	25	13	4.9	11	602
29	120	45	26	9.6	---	1060	119	22	12	4.4	8.8	355
30	102	33	25	9.2	---	704	98	21	11	4.9	8.1	197
31	243	---	25	8.8	---	749	---	20	---	4.6	7.5	---
TOTAL	5483	2619	1172	443.6	1670.2	9441	5052	2323	441.5	456.6	417.7	7473.7
MEAN	177	87.3	37.8	14.3	59.7	317	168	74.9	14.7	14.7	13.5	249
MAX	774	394	80	24	320	1060	626	224	21	70	47	1200
MIN	10	33	18	8.8	8.8	115	43	20	8.8	4.2	3.9	3.4
CFSM	1.74	.86	.37	.14	.59	3.11	1.65	.73	.14	.14	.13	2.44
IN.	2.00	.96	.43	.16	.61	3.59	1.84	.85	.16	.17	.15	2.73
CAL YR 1976	TOTAL	53302.0	MEAN	146	MAX	1460	MIN	10	CFSM	1.43	IN	19.44
WTR YR 1977	TOTAL	37393.3	MEAN	102	MAX	1200	MIN	3.4	CFSM	1.00	IN	13.64

381

LOCATION.--Lat 42°53'56", long 76°32'17", Cayuga County, Hydrologic Unit 04140201, on west side of breakwater at city of Auburn water intake and pumping station, 1 mi (2 km) south of city limits of Auburn, and 1.8 mi (2.9 km) upstream from State dam.

PERIOD OF RECORD.--October 1967 to current year. Records since 1912 collected by, and in files of, city of Auburn.

REMARKS.--Lake elevation regulated by gates on outlet at State dam. Area of water surface, 10.6 mi² (27.5 km²).

EXTREMES FOR PERIOD OF RECORD.--Maximum observed elevation, 716.88 ft (218.505 m) June 25, 1972; minimum observed, 708.58 ft (215.975 m) Feb. 17, 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum observed elevation, 713.73 ft (217.545 m) Sept. 20, 21; minimum observed, 708.58 ft (215.975 m) Feb. 17, 18.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	712.05	710.71	710.40	711.17	709.81	710.18	712.80	712.60	712.77	712.78	712.53	712.53
2	712.00	710.68	710.40	711.17	709.70	710.32	712.76	712.61	712.74	712.76	712.51	712.53
3	711.95	710.81	710.38	711.17	709.66	710.36	712.58	712.63	712.72	712.73	712.53	712.51
4	711.91	710.91	710.41	711.18	709.54	710.43	712.52	712.63	712.71	712.72	712.55	712.51
5	711.91	711.61	710.40	711.17	709.48	710.86	712.45	712.69	712.68	712.70	712.53	712.51
6	711.94	710.88	710.40	711.17	709.38	711.23	712.33	712.73	712.66	712.76	712.63	712.51
7	711.91	710.76	710.43	711.17	709.38	711.38	712.23	712.68	712.66	712.76	712.57	712.51
8	712.00	710.65	710.68	711.15	709.33	711.44	712.08	712.63	712.66	712.81	712.60	712.48
9	712.13	710.55	710.75	711.14	709.13	711.53	711.98	712.55	712.64	712.82	712.59	712.51
10	712.64	710.44	710.85	711.15	708.98	711.87	711.90	712.57	712.64	712.80	712.70	712.46
11	712.70	710.34	710.85	711.17	708.88	712.20	711.79	712.61	712.65	712.77	712.66	712.41
12	712.53	710.26	710.92	711.15	708.78	712.42	711.65	712.63	712.64	712.77	712.60	712.41
13	712.34	710.21	710.95	711.13	708.70	712.75	711.65	712.65	712.63	712.72	712.62	712.45
14	712.09	710.14	710.98	711.10	708.63	712.79	711.61	712.66	712.61	712.70	712.62	712.45
15	711.95	710.07	710.93	711.10	708.63	712.94	711.63	712.67	712.63	712.68	712.64	712.70
16	711.70	709.98	710.98	711.11	708.60	712.87	711.63	712.67	712.61	712.65	712.64	712.83
17	711.56	710.02	710.98	711.10	708.58	712.87	711.63	712.67	712.61	712.60	712.72	713.18
18	711.39	710.04	711.02	711.06	708.58	712.70	711.63	712.64	712.63	712.60	712.81	713.23
19	711.21	710.08	711.07	711.06	708.62	712.68	711.65	712.64	712.71	712.60	712.79	713.36
20	710.98	710.07	711.05	711.03	709.66	712.64	711.68	712.66	712.73	712.60	712.75	713.73
21	711.03	710.10	711.14	710.96	708.73	712.48	711.69	712.66	712.72	712.58	712.71	713.73
22	711.13	710.15	711.19	710.88	708.77	712.34	711.73	712.69	712.73	712.56	712.68	713.69
23	710.63	710.17	711.21	710.52	708.80	712.56	711.91	712.71	712.71	712.54	712.68	713.66
24	710.93	710.18	711.21	710.75	708.86	712.53	712.26	712.71	712.71	712.54	712.65	713.63
25	710.91	710.21	711.21	710.59	709.13	712.42	712.60	712.76	712.69	712.54	712.70	713.63
26	710.91	710.27	711.23	710.60	709.40	712.32	712.61	712.75	712.74	712.55	712.66	713.63
27	710.88	710.27	711.23	710.39	709.73	712.28	712.53	712.78	712.76	712.54	712.61	713.63
28	710.81	710.26	711.21	710.26	709.95	712.24	712.54	712.78	712.74	712.52	712.57	713.63
29	710.											

LOCATION.--Lat 42°56'48", long 76°35'56", Cayuga County, Hydrologic Unit 04140201, on left bank 2.5 mi (4.0 km) downstream from center of Auburn, and 4 mi (6 km) downstream from State dam at outlet of Owasco Lake.

PERIOD OF RECORD.--November 1912 to current year. Prior to October 1966, published as "Owasco Lake Outlet."

GAGE.--Water-stage recorder and concrete control. Datum of gage is 533.92 ft (162.739 m) above mean sea level.

REMARKS.--Records fair. Diurnal fluctuation caused by mills in Auburn; seasonal regulation at State dam. Diversion from Owasco Lake (see station 04235396) by city of Auburn for municipal water supply; sewage returns to outlet upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,250 ft³/s (92.0 m³/s) June 23, 1972, gage height, 6.28 ft (1.914 m); minimum, about 2 ft³/s (0.057 m³/s) Dec. 5, 1936; minimum gage height, 1.19 ft (0.363 m) June 26, 1973; minimum daily discharge, 5 ft³/s (0.14 m³/s) Nov. 11, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,690 ft³/s (47.9 m³/s) Sept. 20; gage height, 3.96 ft (1.207 m); minimum, 13 ft³/s (0.37 m³/s) Nov. 4; minimum gage height, 1.30 ft (0.396 m) July 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	UCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176	672	42	344	380	438	969	159	80	26	35	55
2	169	375	41	330	380	439	952	163	71	57	33	55
3	162	19	41	165	370	442	893	163	71	55	33	53
4	88	19	40	146	360	462	721	205	68	55	33	51
5	26	290	40	156	380	479	850	289	68	64	38	53
6	25	676	40	164	410	515	801	340	68	59	35	53
7	24	632	80	152	400	540	777	389	68	62	33	53
8	125	601	70	157	390	552	721	376	68	108	36	53
9	522	576	79	177	400	363	697	376	68	130	32	53
10	939	552	90	180	400	434	657	376	66	130	127	51
11	950	523	92	155	360	785	633	346	66	133	193	48
12	999	341	102	228	360	442	422	205	66	130	159	48
13	975	395	99	302	370	995	283	163	66	130	55	57
14	863	383	130	59	370	1180	239	159	66	130	64	62
15	818	379	110	97	340	1230	190	159	64	130	55	33
16	752	193	114	114	320	1180	169	163	66	130	51	141
17	697	26	116	148	320	1140	169	163	68	130	57	498
18	710	25	121	144	320	1090	133	163	71	103	122	918
19	749	24	131	204	320	1040	85	159	64	44	186	1160
20	734	23	144	301	320	995	64	88	71	42	182	1420
21	746	23	149	337	310	935	33	33	66	40	182	1470
22	743	23	167	335	310	927	57	32	68	40	197	1440
23	730	23	171	324	300	944	88	36	64	38	182	1350
24	693	23	171	328	220	910	80	40	66	36	234	1260
25	670	21	180	350	348	876	310	48	90	40	262	1330
26	464	26	173	400	421	850	601	76	68	36	262	1320
27	498	43	172	440	434	825	529	73	68	35	262	1300
28	728	40	175	440	438	842	415	71	71	35	257	1240
29	468	41	172	430	---	935	243	71	48	33	147	1170
30	664	87	218	420	---	986	159	68	18	42	57	1110
31	662	---	339	390	---	986	---	71	---	32	55	---
TOTAL	17569	7074	3809	7917	10051	25157	12940	5223	1991	2255	3656	17905
MEAN	567	236	123	255	359	812	431	168	66.4	72.7	118	597
MAX	999	676	339	440	438	1230	969	389	90	133	262	1470
MIN	24	19	40	59	220	363	33	32	18	26	32	33
CAL YR 1976	TOTAL	148459	MEAN	406	MAX	1650	MIN	19				
WTR YR 1977	TOTAL	115547	MEAN	317	MAX	1470	MIN	18				

STREAMS TRIBUTARY TO LAKE ONTARIO

383

04236000 SKANEATELES LAKE AT SKANEATELES, NY

LOCATION.--Lat 42°56'42", long 76°25'46", Onondaga County, Hydrologic Unit 04140201, on east side of breakwater, enclosed in city of Syracuse boathouse, at Skaneateles.

DRAINAGE AREA.--72.7 mi² (188 km²).

PERIOD OF RECORD.--October 1967 to current year. Records since September 1890 collected by, and in files of, city of Syracuse.

GAGE.--Nonrecording gages read once daily by employees of Syracuse Water Division. Datum of gage is at mean sea level. October 1967 to September 1975, at same site at datum 801.75 ft (244.373 m) higher.

REMARKS.--Lake elevation regulated by gates at outlet by Syracuse Water Division. Area of water surface, 13.6 mi² (35.2 km²).

COOPERATION.--Records furnished by city of Syracuse.

EXTREMES FOR PERIOD OF RECORD.--(since 1890): Maximum observed elevation, 866.95 ft (264.246 m) June 25, 26, 1972; minimum observed, 858.90 ft (261.793 m) Nov. 15, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum observed elevation, 864.70 ft (263.561 m) May 11; minimum observed, 861.99 ft (262.735 m) Feb. 25.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	863.22	863.65	863.30	862.97	862.35	862.27	864.45	864.63	864.46	864.13	863.44	862.90
2	863.23	863.66	863.29	862.96	862.33	862.24	864.55	864.64	864.48	864.07	863.40	862.92
3	863.19	863.75	863.28	862.92	862.33	862.28	864.43	864.64	864.40	864.03	863.38	862.92
4	863.17	863.70	863.24	862.90	862.31	862.32	864.35	864.63	864.39	864.02	863.37	862.88
5	863.15	863.67	863.18	862.89	862.29	862.45	864.45	864.68	864.38	864.01	863.33	862.85
6	863.15	863.66	863.17	862.87	862.25	862.54	864.45	864.67	864.37	864.03	863.32	862.83
7	863.09	863.65	863.20	862.85	862.23	862.57	864.40	864.67	864.31	863.99	863.31	862.77
8	863.16	863.64	863.24	862.82	862.21	862.51	864.35	864.65	864.30	864.03	863.30	862.74
9	863.19	863.64	863.25	862.80	862.14	862.65	864.34	864.63	864.30	864.02	863.32	862.71
10	863.48	863.64	863.29	862.77	862.16	862.73	864.33	864.66	864.27	863.97	863.30	862.70
11	863.53	863.61	863.20	862.43	862.17	862.45	864.34	864.70	864.24	863.95	863.27	862.65
12	863.55	863.60	863.22	862.40	862.16	862.44	864.29	864.67	864.27	863.96	863.24	862.60
13	863.57	863.59	863.19	862.75	862.13	863.12	864.24	864.67	864.24	863.95	863.24	862.60
14	863.53	863.56	863.19	862.73	862.16	863.40	864.24	864.67	864.23	863.90	863.22	862.64
15	863.49	863.52	863.18	862.57	862.13	863.52	864.27	864.65	864.22	863.88	863.24	862.61
16	863.49	863.52	863.16	862.55	862.13	863.68	864.25	864.66	864.19	863.89	863.21	862.61
17	863.46	863.53	863.16	862.53	862.09	863.72	864.23	864.65	864.17	863.87	863.24	862.73
18	863.43	863.50	863.13	862.61	862.10	863.82	864.21	864.65	864.20	863.78	863.19	862.75
19	863.44	863.47	863.09	862.59	862.06	863.83	864.20	864.61	864.26	863.77	863.15	862.83
20	863.41	863.46	863.06	862.57	862.06	863.85	864.20	864.64	864.22	863.76	863.13	863.02
21	863.49	863.40	863.08	862.55	862.06	863.87	864.21	864.63	864.23	863.74	863.09	863.12
22	863.57	863.39	863.09	862.55	862.05	863.97	864.17	864.64	864.18	863.65	863.14	863.13
23	863.56	863.37	863.13	862.52	862.02	864.10	864.25	864.63	864.17	863.61	863.05	863.13
24	863.55	863.36	863.07	862.50	862.00	864.13	864.45	864.54	864.17	863.60	863.07	863.15
25	863.57	863.32	863.07	862.48	861.99	864.15	864.57	864.63	864.14	863.57	863.07	863.35
26	863.56	863.29	863.07	862.45	862.20	864.14	864.61	864.59	864.13	863.58	863.04	863.35
27	863.59	863.24	863.04	862.45	862.20	864.17	864.63	864.58	864.20	863.51	863.04	863.39
28	863.58	863.28	863.02	862.43	862.27	864.22	864.65	864.57	864.16	863.47	863.02	863.41
29	863.58	863.32	863.02	862.43	---	864.30	864.65	864.50	864.16	863.45	863.00	863.41
30	863.57	863.32	863.01	862.40	---	864.46	864.65	864.54	864.13	863.47	862.97	863.44
31	863.60	---	862.98	862.38	---	864.45	---	864.48	---	863.45	862.93	---
MFAN	863.42	863.51	863.15	862.57	862.17	863.41	864.38	864.63	864.25	863.81	863.19	862.94
MAX	863.60	863.75	863.30	862.97	862.35	864.46	864.65	864.70	864.48	864.13	863.44	863.44
MIN	863.09	863.28	862.98	862.38	861.99	862.24	864.17	864.48	864.13	863.45	862.93	862.60
CAL YR 1976	MEAN 863.87		MAX 865.19		MIN 862.40							
WTR YR 1977	MFAN 863.47		MAX 864.70		MIN 861.99							

STREAMS TRIBUTARY TO LAKE ONTARIO

04237500 SENECA RIVER AT BALDWINVILLE, NY

LOCATION.--Lat 43°09'26", long 76°19'56", Onondaga County, Hydrologic Unit 04140201, on left bank 200 ft (61 m) downstream from bridge on State Highway 31 in Baldwinsville, and 400 ft (122 m) downstream from navigation dam at Lock 24 of New York State Erie (Barge) Canal.

DRAINAGE AREA.--3,136 mi² (8,122 km²).

PERIOD OF RECORD.--November 1949 to current year in reports of Geological Survey. November 1898 to December 1908, prior to construction of Erie (Barge) Canal, not equivalent to later records at same site because of extensive development of Erie (Barge) Canal system. January 1909 to September 1925 (gage heights only) in reports of State Engineer and Surveyor.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 362.60 ft (110.520 m) above mean sea level, Barge Canal datum. Prior to Dec. 31, 1908, nonrecording gage at same site at different datum. Auxiliary water-stage recorder 1,500 ft (457 m) downstream from base gage at same datum.

REMARKS.--Records fair. Discharge from 1898 to 1908 determined on basis of head on dam, flow through 10 mills nearby, lockages at Oswego Canal lock, estimated leakage of dam, wheel gates, flumes, and penstocks; not adjusted for inflow from Lake Erie through Erie (Barge) Canal. Discharge since November 1949, computed by using fall as determined by auxiliary water-stage recorder, represents total discharge at Baldwinsville and includes flow in Erie (Barge) Canal.

A large amount of natural storage and some artificial regulation is afforded by many large lakes and the Erie (Barge) Canal system in river basin. Large diurnal fluctuations at low and medium flows caused by power-plants upstream from station. Seneca River basin receives water from Erie (Barge) Canal through Lock 32 near Pittsford. During part of year, entire flow from 45.5 mi² (118 km²) of Mud Creek drainage area may be diverted from Chemung River basin into Keuka Lake in Oswego River basin (see station 01529000).

COOPERATION.--Records of lockages at Lock 24 furnished by New York State Department of Transportation (since November 1949).

AVERAGE DISCHARGE.--27 years (1950-77), 3,397 ft³/s (96.20 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 17,200 ft³/s (487 m³/s) Apr. 4, 1960, June 28, 1972; maximum gage height, 9.21 ft (2.807 m) Apr. 4, 1960, June 30, 1972; minimum daily discharge, 237 ft³/s (6.71 m³/s) Nov. 10, 1957; minimum gage height, 0.81 ft (0.247 m) Aug. 10, 1952, Oct. 2, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 11,100 ft³/s (314 m³/s) Sept. 28, 29; maximum gage height, 5.68 ft (1.731 m) Sept. 28, 29; minimum daily discharge, 622 ft³/s (17.6 m³/s) Oct. 9; minimum gage height, 1.10 ft (0.335 m) May 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1520	7560	2770	1510	1330	5610	9440	3430	653	1620	1140	1060
2	1500	7800	2940	1450	1340	5630	9040	2930	1470	1450	1150	1670
3	1380	7810	2890	1030	1330	5420	8540	2790	1350	931	1100	1600
4	1190	7470	2630	870	1310	5350	7760	3200	749	966	1070	1020
5	1120	7100	2530	924	1240	6010	7400	3310	783	968	1060	1570
6	1180	6910	2520	1010	1290	6530	7120	3230	1250	962	1040	1010
7	1120	6820	2830	1150	1280	6930	6690	2800	751	1010	1040	1530
8	1150	6760	3120	1220	1330	6950	6550	2430	821	1600	916	987
9	622	6680	3250	1250	1380	6780	5880	2540	833	1560	1150	1040
10	2750	6570	3280	1280	1470	6760	5490	2660	1300	1030	1110	1080
11	4680	6240	3330	1360	1440	6870	5120	2930	866	1110	1660	1060
12	5490	5910	3310	1400	1400	7040	3980	2940	1360	1380	1070	1580
13	5940	5660	3200	1210	1440	6700	3110	2870	776	1460	1090	1010
14	6320	5470	2830	1250	1630	6950	2380	2860	845	1720	1100	1700
15	6270	5420	2540	1190	1890	8150	1760	2760	1400	1680	1120	1610
16	6100	5170	2620	1200	2180	8420	1710	2610	764	1470	1090	1150
17	5990	4430	2970	1150	2190	8070	1150	2840	785	1580	1100	2650
18	5960	3540	2620	1110	1770	7040	957	3050	782	992	1400	4060
19	5760	2950	2660	1110	1290	6300	1330	2870	819	1070	1180	5320
20	5540	2910	2810	1150	1360	5850	1410	2290	755	1110	1750	7190
21	6250	2920	2880	1180	1390	5640	1370	1830	847	1150	1600	8880
22	7350	3050	2400	1160	1400	5580	1250	1570	815	1610	1110	9680
23	8260	3200	2870	1170	1650	5920	1230	1480	817	1050	1180	10000
24	8780	3040	2930	1170	1700	6160	1780	788	841	1020	1730	9940
25	8870	2900	2860	1180	1980	6060	3310	879	841	1070	1690	10000
26	8540	2870	2820	1210	2690	5920	5600	1500	876	1080	1690	10400
27	8180	2870	2630	1220	3180	5820	5960	1210	910	1080	1650	10900
28	7860	2830	2660	1250	4590	6030	5540	901	919	1070	1640	11100
29	7590	2860	2460	1350	---	7430	4130	1500	1060	1080	1640	11100
30	7250	2740	1890	1290	---	8760	3460	1380	1680	1120	1600	10900
31	7210	---	1560	1310	---	9520	---	792	---	1140	1030	---
TOTAL	157722	148460	85610	37324	48470	206200	130447	71170	28718	38139	39896	142797
MEAN	5088	4949	2762	1204	1731	6652	4348	2296	957	1230	1287	4760
MAX	8870	7810	3330	1510	4590	9520	9440	3430	1680	1720	1750	11100
MIN	622	2740	1560	870	1240	5350	957	788	653	931	916	987
CAL YR 1976 TOTAL	1941957			5306		14200		543				
WTR YR 1977 TOTAL	1134953			3109		11100		622				

04238500 ONONDAGA RESERVOIR NEAR NEDROW, NY

LOCATION.--Lat 42°55'51", long 76°10'24", Onondaga County, Hydrologic Unit 04140201, at Onondaga Dam on Onondaga Creek, 3.5 mi (5.6 km) southwest of Nedrow, 4 mi (6 km) south of Syracuse, and 12.6 mi (20.3 km) upstream from Onondaga Lake.

DRAINAGE AREA.--67.7 mi² (175 km²).

PERIOD OF RECORD.--June 1949 to September 1952 (monthly elevations and contents), October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by a rolled earthfill dam, completed by Corps of Engineers in August 1949 for flood control; first used for flood regulation about a year prior to completion. Usable capacity, 18,200 acre-ft (22.5 hm³) between elevations 457.0 ft (139.29 m), conduit invert at intake, and 504.5 ft (153.77 m), crest of spillway. No dead storage. The flood-control works consist of a pressure conduit and a side-channel spillway and are not provided with gates. Water is stored during high flows and released gradually. Storage includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin.

COOPERATION.--Capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 485.9 ft (148.10 m) Apr. 1, 1960, contents, 5,960 acre-ft (7.35 hm³); no contents at times.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 472.89 ft (144.137 m) Mar. 14, contents, 1,390 acre-ft (1.71 hm³); minimum elevation, 459.51 ft (140.059 m) Sept. 12, 13; no contents many days.

Capacity table (elevation, in feet, and contents, in acre-feet)

460.00	0	470.00	700
461.00	5	473.00	1,420
462.00	15	478.00	2,880
464.00	50	482.00	4,230
467.00	225	486.00	6,010

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	459.92	463.58	460.86	460.38	460.08	463.96	465.28	461.43	459.95	459.84	459.78	459.69
2	459.87	462.33	460.42	460.40	460.05	462.61	463.64	461.29	460.02	459.80	459.74	459.66
3	459.85	461.63	460.66	460.40	460.03	462.22	463.35	461.30	460.01	459.77	459.68	459.65
4	459.82	461.43	460.34	460.39	460.04	463.48	462.86	461.11	459.97	459.74	459.70	459.64
5	459.80	461.29	460.31	460.36	460.04	463.02	462.72	461.62	459.94	459.72	459.72	459.63
6	459.78	461.07	460.30	460.33	459.98	467.29	462.89	461.35	459.92	459.72	459.74	459.62
7	459.77	460.95	462.86	460.33	459.99	464.54	462.32	460.83	459.94	459.74	459.74	459.61
8	461.58	460.88	464.06	460.26	460.00	463.38	462.22	460.65	459.94	459.82	459.66	459.59
9	464.27	460.86	462.77	460.21	460.00	464.04	461.86	460.91	459.92	459.89	459.70	459.58
10	469.06	460.90	461.49	460.25	460.01	467.33	461.75	461.76	459.99	459.87	459.71	459.56
11	464.95	461.02	461.58	460.20	460.04	468.20	461.56	461.67	460.02	459.83	459.70	459.54
12	461.73	460.84	461.17	460.19	460.32	467.32	461.34	460.95	459.97	459.80	459.70	459.52
13	461.20	460.77	460.88	460.21	460.79	468.79	461.20	460.79	459.92	459.78	459.72	459.51
14	461.14	460.75	461.42	460.22	461.17	472.58	461.10	460.68	459.89	459.75	459.72	459.91
15	460.98	460.73	460.83	460.21	460.82	470.92	460.98	460.56	459.86	459.73	459.78	460.15
16	460.89	460.68	460.71	460.18	461.04	467.93	460.90	460.48	459.83	459.72	459.78	460.16
17	460.70	460.63	460.70	460.10	461.11	464.85	460.84	460.42	459.83	459.78	459.81	460.94
18	460.59	460.64	460.68	460.13	461.00	463.42	460.77	460.36	460.55	459.76	459.85	461.06
19	460.53	460.65	460.64	460.13	460.43	463.02	460.72	460.50	460.64	459.82	459.80	462.87
20	460.57	460.63	461.43	460.12	460.36	462.73	460.66	460.46	460.21	459.76	459.75	463.97
21	464.39	460.59	462.70	460.12	460.30	462.78	460.59	460.34	460.18	459.70	459.70	465.17
22	463.49	460.56	461.84	460.11	460.69	463.88	460.60	460.24	460.07	459.64	459.69	461.85
23	461.86	460.50	462.29	460.09	460.32	464.82	463.85	460.17	460.00	459.64	459.70	460.90
24	461.53	460.46	461.24	460.10	460.64	463.64	468.01	460.14	459.94	459.68	460.16	460.66
25	462.40	460.42	462.16	460.12	465.64	462.95	468.16	460.17	459.91	459.72	460.50	463.49
26	461.93	460.42	460.79	460.12	465.17	462.83	465.00	460.12	459.95	459.68	460.24	462.97
27	461.34	460.64	461.16	460.10	464.05	462.91	463.03	460.07	459.94	459.66	460.06	462.43
28	461.12	460.64	461.26	459.99	465.80	464.75	462.38	460.04	459.91	459.64	459.93	461.20
29	461.02	460.91	460.62	460.02	---	469.16	462.00	459.98	459.90	459.72	459.83	461.27
30	460.92	460.83	460.87	460.08	---	469.30	461.66	459.97	459.87	459.78	459.77	460.80
31	462.63	---	460.38	460.07	---	467.34	---	459.95	---	459.84	459.73	---
MEAN	461.60	460.94	461.27	460.19	461.07	465.52	462.47	460.66	460.00	459.75	459.81	460.82
MAX	469.06	463.58	464.06	460.40	465.80	472.58	468.16	461.76	460.64	459.89	460.50	465.17
MIN	459.77	460.42	460.30	459.99	459.98	462.22	460.59	459.95	459.83	459.64	459.66	459.51
†	52.8	3.1	2.0	0.4	86.2	181	7.6	0	0	0	0	3.6
‡	+8.6	-8.4	-0.2	-0.3	+1.55	+1.54	-2.91	-1.12	0	0	0	+0.06

CAL YR 1976 MEAN 461.80 MAX 474.10 MIN 459.77 ‡ -0.01
WTR YR 1977 MEAN 461.18 MAX 472.58 MIN 459.51 ‡ 0

† Contents, in acre-feet, at end of period.

‡ Change in contents, equivalent in cubic feet per second.

STREAMS TRIBUTARY TO LAKE ONTARIO

04239000 ONONDAGA CREEK AT DORWIN AVENUE, SYRACUSE, NY

LOCATION.--Lat 42°59'00", long 76°09'04", Onondaga County, Hydrologic Unit 04140201, on left bank 550 ft (168 m) upstream from bridge on Dorwin Avenue, at Syracuse, and 4 mi (6 km) downstream from Onondaga Reservoir.

DRAINAGE AREA.--88.5 mi² (229 km²).

PERIOD OF RECORD.--May 1951 to current year.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 413.59 ft (126.062 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair. High flows regulated by Onondaga Reservoir (see station 04238500). Discharge includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin. The adjusted and unadjusted yearly means are the same for each year of record.

AVERAGE DISCHARGE.--26 years, 124 ft³/s (3.512 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,260 ft³/s (92.3 m³/s) July 3, 1974, gage height, 6.48 ft (1.975 m); minimum daily, 5.5 ft³/s (0.16 m³/s) Aug. 17, 1965; minimum gage height, 1.15 ft (0.351 m) Sept. 16, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,090 ft³/s (30.9 m³/s) Mar. 13, gage height, 4.27 ft (1.302 m); minimum, 25 ft³/s (0.71 m³/s) Sept. 12, gage height, 1.49 ft (0.454 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	296	86	96	58	347	442	146	54	39	33	31
2	44	195	79	92	56	225	300	139	62	37	32	30
3	43	154	78	89	62	201	280	139	56	36	29	34
4	41	141	82	87	60	303	236	127	54	35	30	33
5	39	135	75	82	58	698	233	161	50	34	30	32
6	37	121	72	87	50	632	239	150	47	38	36	32
7	38	113	228	81	48	399	201	129	52	43	34	31
8	169	110	260	87	56	283	195	117	50	58	38	29
9	503	106	170	82	62	370	173	146	48	50	44	29
10	828	110	159	84	61	665	168	190	60	44	35	28
11	535	117	157	80	61	698	154	177	56	37	36	29
12	188	104	129	72	82	632	143	125	49	39	39	26
13	141	102	113	82	108	866	135	119	46	43	36	29
14	133	101	120	80	133	957	129	111	44	39	41	83
15	123	97	108	78	108	446	121	104	44	36	44	50
16	115	94	99	78	89	670	115	96	42	52	33	67
17	102	91	101	72	90	424	112	95	44	41	46	133
18	94	92	99	72	92	283	106	95	106	58	37	162
19	89	92	92	74	84	251	102	113	98	41	31	289
20	92	92	143	76	79	231	97	100	56	38	29	438
21	416	87	248	84	78	236	96	91	66	35	29	450
22	321	84	150	72	84	339	99	81	50	33	35	187
23	178	81	141	64	76	407	399	73	46	33	31	115
24	148	78	127	72	92	303	804	72	44	31	100	98
25	201	76	120	66	465	248	714	75	47	38	62	353
26	173	76	113	73	460	239	438	67	56	36	41	289
27	137	91	112	62	347	251	254	63	46	32	33	249
28	123	91	100	68	496	465	203	62	43	29	31	151
29	117	106	108	66	---	774	178	55	45	29	29	151
30	110	90	90	62	---	744	161	54	42	47	34	117
31	236	---	100	62	---	643	---	52	---	39	32	---
TOTAL	5559	3323	3859	2382	3595	14630	7027	3324	1603	1220	1170	3775
MEAN	179	111	124	76.8	128	472	234	107	53.4	39.4	37.7	126
MAX	828	296	260	96	496	957	804	190	106	58	100	450
MIN	37	76	72	62	48	201	96	52	42	29	29	26
CAL YR 1976	TOTAL	71450	MEAN 195	MAX	1100	MIN 37						
WTR YR 1977	TOTAL	51467	MEAN 141	MAX	957	MIN 26						

STREAMS TRIBUTARY TO LAKE ONTARIO

387

04240010 ONONDAGA CREEK AT SPENCER STREET, SYRACUSE, NY

LOCATION.--Lat 43°03'27", long 76°09'46", Onondaga County, Hydrologic Unit 04140201, on right bank 250 ft (76 m) upstream from bridge on Spencer Street in Syracuse, 1,000 ft (305 m) upstream from Erie (Barge) Canal terminal, and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--109 mi² (282 km²).

PERIOD OF RECORD.--Occasional discharge measurements, water years 1958-70. September 1970 to current year.

REVISED RECORDS.--WRD NY 1972: 1971(M). WRD NY 1975: 1972(M), 1974(M).

GAGE.--Water-stage recorder. Datum of gage is 362.29 ft (110.426 m) above mean sea level.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. High flows regulated by Onondaga Reservoir (see station 04238500). Discharge includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin. Flow may be affected by backwater from Onondaga Lake at times when the lake elevation exceeds 364.75 ft (111.176 m).

AVERAGE DISCHARGE.--7 years, 218 ft³/s (6.174 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,740 ft³/s (77.6 m³/s) July 3, 1974, gage height, 8.73 ft (2.661 m); minimum, 36 ft³/s (1.02 m³/s) Oct. 20, 21, Dec. 5, 1972, gage height, 2.34 ft (0.713 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,510 ft³/s (71.1 m³/s) July 16, gage height, 8.37 ft (2.551 m); minimum, 37 ft³/s (1.05 m³/s) Sept. 10, 11, 12, 13, gage height, 2.35 ft (0.716 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	320	110	128	67	409	573	226	157	81	67	130
2	65	280	120	128	67	285	442	228	104	67	58	65
3	63	250	102	128	74	260	394	218	94	63	55	77
4	63	230	108	126	72	400	376	211	75	60	68	50
5	60	200	108	124	70	703	367	233	70	112	77	62
6	58	190	108	130	62	648	358	230	70	88	110	58
7	58	170	313	120	57	464	308	196	75	90	72	57
8	350	160	319	108	65	361	299	182	72	143	106	55
9	700	160	201	98	75	430	263	218	86	87	87	46
10	840	155	192	102	75	681	255	258	110	74	130	40
11	600	157	199	98	87	707	250	263	102	72	75	37
12	300	139	175	87	102	644	238	208	88	180	121	47
13	200	157	164	100	148	979	226	192	87	102	68	96
14	190	148	132	96	178	979	213	180	83	75	79	182
15	170	137	180	94	150	655	201	164	85	87	85	85
16	150	139	141	94	124	734	189	164	81	385	67	201
17	140	133	143	85	128	519	182	148	116	81	92	258
18	130	126	143	87	128	385	180	152	161	100	74	316
19	120	130	133	98	118	373	211	159	150	79	63	388
20	200	128	199	92	112	325	211	157	135	75	52	612
21	440	122	279	90	106	337	187	146	114	68	49	512
22	350	118	175	86	114	436	175	120	90	63	83	268
23	250	116	180	77	108	499	480	122	83	55	55	204
24	190	112	155	85	178	418	843	120	83	50	178	189
25	220	108	141	85	519	355	726	120	143	70	98	477
26	190	106	152	85	493	340	493	112	102	79	68	400
27	170	122	133	75	397	355	346	106	92	58	55	343
28	150	126	122	74	512	553	305	102	87	54	49	243
29	140	148	130	79	---	811	274	88	102	58	72	230
30	200	114	108	75	---	799	248	87	81	175	67	199
31	290	---	120	74	---	764	---	94	---	65	54	---
TOTAL	7115	4701	4985	3008	4386	16808	9813	5204	2978	2896	2434	5927
MEAN	230	157	161	97.0	157	542	327	168	99.3	93.4	78.5	198
MAX	840	320	319	130	519	979	843	263	161	385	178	612
MIN	58	106	102	74	57	260	175	87	70	50	49	37

CAL YR 1976 TOTAL 96717 MEAN 264 MAX 1500 MIN 58
WTR YR 1977 TOTAL 70255 MEAN 192 MAX 979 MIN 37

Note.--No gage-height record Oct. 8 to Nov. 9.

STREAMS TRIBUTARY TO LAKE ONTARIO

04240100 HARBOR BROOK AT SYRACUSE, NY

LOCATION.--Lat 43°02'08", long 76°11'17", Onondaga County, Hydrologic Unit 04140201, on right bank 145 ft (44 m) downstream from bridge on Velasco Road at Syracuse, and 2.9 mi (4.7 km) upstream from mouth.

DRAINAGE AREA.--9.63 mi² (24.9 km²).

PERIOD OF RECORD.--June 1959 to current year.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 394.79 ft (120.332 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Flow includes some sewage and storm sewer inflow, some originating outside the basin.

AVERAGE DISCHARGE.--18 years, 9.04 ft³/s (0.256 m³/s), 12.75 in/yr (324 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 726 ft³/s (20.6 m³/s) July 3, 1974, gage height, 8.34 ft (2.542 m), from rating curve extended above 180 ft³/s (5.10 m³/s) on basis of slope-area measurements of peak flow; minimum daily, 1.8 ft³/s (0.051 m³/s) Sept. 22, 24, 1964, Aug. 29 to Sept. 3, Sept. 10-13, Oct. 8-10, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
July 16	0145	*344 9.74	*6.59 2.009	Sept. 18	unknown	†160 4.53	unknown
Sept. 1	1815	174 4.93	5.40 1.646				

† About.

Minimum discharge, 3.5 ft³/s (0.099 m³/s) Oct. 5, 6, 7; minimum gage height, 2.56 ft (0.780 m) Sept. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	11	5.6	6.2	4.8	11	23	9.5	9.9	5.5	4.1	3.9
2	4.0	8.5	5.6	6.4	4.5	10	21	9.6	6.6	4.7	4.0	12
3	4.0	7.5	5.3	5.6	4.4	10	20	9.2	5.8	4.6	4.1	7.2
4	3.8	6.9	5.3	5.6	4.4	18	18	9.1	5.6	4.6	4.0	7.6
5	3.8	6.6	5.3	5.6	4.4	34	19	9.3	5.5	4.6	5.2	5.4
6	3.5	6.4	5.3	6.0	4.3	24	18	8.9	5.4	6.2	6.2	6.4
7	3.8	6.1	17	5.6	4.3	19	17	8.7	5.4	4.8	6.1	5.4
8	15	6.4	7.7	5.4	4.3	19	17	8.7	5.3	6.4	5.8	4.9
9	59	6.4	6.6	5.4	4.4	30	16	9.2	5.3	4.2	4.8	4.8
10	21	6.9	6.6	5.6	4.4	46	15	8.7	5.5	3.9	7.3	4.8
11	6.9	6.9	6.6	5.4	5.4	33	15	8.5	5.4	3.8	5.0	4.6
12	5.6	6.6	6.3	5.2	5.2	31	15	8.3	5.3	8.2	7.1	4.8
13	5.3	6.9	6.3	5.2	6.1	70	14	8.3	6.4	5.4	4.7	7.9
14	8.5	6.9	6.1	5.2	5.2	40	14	7.7	5.5	4.1	4.5	10
15	5.3	6.6	6.1	5.4	4.9	32	14	6.5	5.1	4.6	4.5	5.6
16	5.6	6.4	6.1	5.2	4.9	30	14	6.2	8.0	30	4.6	10
17	5.3	6.1	6.3	5.2	4.9	25	14	6.1	6.7	7.2	5.4	13
18	4.7	6.1	6.3	5.0	4.9	21	14	7.9	7.0	6.1	4.5	25
19	4.5	6.4	6.3	4.9	4.8	21	14	7.4	5.3	5.4	4.2	20
20	9.4	6.4	12	4.9	4.9	19	14	6.1	5.7	5.0	3.9	33
21	44	6.1	8.9	4.8	4.9	21	14	5.9	6.5	4.9	3.8	16
22	8.1	5.8	6.8	4.8	5.0	24	15	5.8	5.1	4.6	6.1	16
23	6.6	5.8	6.6	4.7	4.9	21	27	5.6	4.8	4.5	4.4	10
24	7.8	6.1	6.6	4.7	13	19	32	5.8	4.8	4.3	8.2	11
25	8.8	5.8	6.6	4.8	13	18	16	6.1	8.3	4.4	5.4	25
26	7.2	5.8	6.8	4.6	9.6	18	13	5.6	6.5	4.2	5.0	14
27	6.4	5.8	6.6	4.5	11	19	12	5.6	5.1	4.1	4.3	12
28	6.1	6.1	6.8	4.5	14	50	12	5.6	4.9	4.1	5.0	9.7
29	5.8	6.1	6.3	4.8	---	50	11	5.6	6.0	4.5	4.5	9.4
30	5.8	5.6	6.1	4.5	---	30	9.7	5.6	5.0	8.1	5.1	11
31	26	---	6.1	4.5	---	31	---	5.5	---	4.3	4.4	---
TOTAL	315.6	197.0	212.9	160.2	170.8	844	487.7	226.6	177.7	181.3	156.2	330.4
MEAN	10.2	6.57	6.87	5.17	6.10	27.2	16.3	7.31	5.92	5.85	5.04	11.0
MAX	59	11	17	6.4	14	70	32	9.6	9.9	30	8.2	33
MIN	3.5	5.6	5.3	4.5	4.3	10	9.7	5.5	4.8	3.8	3.8	3.9
CFSM	1.06	.68	.71	.54	.63	2.82	1.69	.76	.61	.61	.52	1.14
IN.	1.22	.76	.82	.62	.66	3.26	1.88	.88	.69	.70	.60	1.28
CAL YR 1976	TOTAL	5538.0	MEAN	15.1	MAX	177	MIN	3.5	CFSM	1.57	IN	21.39
WTR YR 1977	TOTAL	3460.4	MEAN	9.48	MAX	70	MIN	3.5	CFSM	.98	IN	13.37

STREAMS TRIBUTARY TO LAKE ONTARIO

389

04240105 HARBOR BROOK AT HIAWATHA BOULEVARD, SYRACUSE, NY

LOCATION.--Lat 43°03'22", long 76°11'07", Onondaga County, Hydrologic Unit 04140201, on left bank 250 ft (76 m) downstream from culvert on Hiawatha Boulevard, in Syracuse, and 3,000 ft (914 m) upstream from mouth.

DRAINAGE AREA.--11.3 mi² (29.3 km²).

PERIOD OF RECORD.--Occasional discharge measurements, water years 1958-70. October 1970 to current year.

REVISED RECORDS.--WDR NY-76-1: 1971-75 (P).

GAGE.--Water-stage recorder. Datum of gage is 365.86 ft (111.514 m) above mean sea level.

REMARKS.--Records fair. Flow includes some sewage and storm sewer inflow, some originating outside the basin.

AVERAGE DISCHARGE.--7 years, 17.3 ft³/s (0.490 m³/s), 20.79 in/yr (528 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 824 ft³/s (23.3 m³/s) July 3, 1974, gage height, 7.91 ft (2.411 m), from rating curve extended above 160 ft³/s (4.53 m³/s) on basis of step-backwater computations; maximum gage height, 8.15 ft (2.484 m) Sept. 26, 1975 (backwater from Onondaga Lake); minimum discharge, 1.0 ft³/s (0.028 m³/s) June 25, 1971; minimum gage height, 0.34 ft (0.104 m) Sept. 20, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 290 ft³/s (8.21 m³/s) and maximum (*).

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
June 25	2215	298 8.44	5.07 1.545	Sept. 1	1800	376 10.6	5.57 1.698
July 16	0130	*754 21.4	*7.59 2.313	Sept. 18	1400	357 10.1	5.45 1.661

Minimum discharge, 3.4 ft³/s (0.096 m³/s) July 15, gage height, 1.78 ft (0.543 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	15	5.9	7.7	6.2	12	28	13	14	5.2	4.9	24
2	4.9	12	6.0	8.2	5.5	11	26	14	4.4	4.4	4.7	6.2
3	4.6	11	5.9	7.5	5.5	11	26	12	4.7	4.4	5.2	8.2
4	4.7	9.6	6.0	7.5	5.5	23	24	12	4.9	4.4	4.6	4.9
5	4.4	8.2	6.2	7.2	5.5	40	26	13	5.2	5.7	6.4	6.0
6	4.4	8.0	6.0	8.2	5.3	25	23	11	5.2	6.0	9.0	5.0
7	4.9	7.7	27	7.5	5.3	21	20	11	5.7	5.5	6.2	4.9
8	29	8.0	9.0	7.2	5.2	21	20	10	6.0	9.0	8.0	5.5
9	72	8.2	7.2	7.2	5.3	41	18	12	7.0	4.7	5.9	6.0
10	28	9.0	7.7	7.5	5.3	52	16	9.6	6.5	4.7	14	5.0
11	10	9.0	7.7	7.0	7.7	37	15	11	6.0	8.2	6.4	4.9
12	8.0	8.0	7.0	7.0	7.0	34	15	11	6.0	15	14	5.2
13	7.7	9.2	6.5	7.0	11	95	14	11	6.4	4.7	6.4	12
14	17	8.7	7.0	7.0	8.0	44	13	9.9	5.9	4.3	6.7	17
15	8.2	8.0	7.0	7.2	6.7	34	12	9.6	5.9	5.0	6.2	5.7
16	7.5	7.7	7.0	7.0	6.2	32	11	9.6	9.9	143	6.0	22
17	7.2	7.5	7.7	7.0	6.2	27	11	9.9	12	7.0	6.5	17
18	6.7	7.5	7.0	6.5	6.2	24	11	14	12	6.4	5.5	41
19	6.4	7.7	7.0	6.4	6.0	24	18	8.2	8.2	5.9	5.2	23
20	16	7.7	15	6.4	6.2	21	20	7.5	9.6	5.2	4.6	62
21	51	7.2	10	6.4	6.2	23	18	7.2	8.0	5.2	4.7	18
22	12	7.0	7.5	6.4	6.4	26	16	7.0	7.2	4.7	7.7	13
23	9.6	6.7	7.5	6.2	6.2	24	37	7.0	7.0	4.6	5.5	11
24	12	6.7	7.5	6.2	17	20	54	7.0	5.5	4.3	13	12
25	12	6.7	7.5	6.4	17	19	29	6.7	15	4.7	5.5	39
26	9.9	6.7	8.2	6.2	9.6	19	22	6.5	6.5	4.7	5.3	19
27	8.7	7.0	7.7	5.8	11	21	21	6.4	5.7	4.3	4.9	13
28	8.2	7.7	8.0	5.8	17	55	19	6.4	5.0	4.9	4.6	11
29	8.0	7.5	7.5	6.0	---	64	17	6.0	6.4	5.2	5.2	9.9
30	8.0	6.0	7.2	5.7	---	34	15	5.9	5.2	15	5.2	11
31	36	---	7.5	5.7	---	39	---	6.0	---	4.6	4.3	---
TOTAL	431.9	246.9	251.9	211.0	216.2	973	615	291.4	217.0	320.9	202.3	442.4
MEAN	13.9	8.23	8.13	6.81	7.72	31.4	20.5	9.40	7.23	10.4	6.53	14.7
MAX	72	15	27	8.2	17	95	54	14	15	143	14	62
MIN	4.4	6.0	5.9	5.7	5.2	11	11	5.9	4.4	4.3	4.3	4.9
CFSM	1.23	.73	.72	.60	.68	2.78	1.81	.83	.64	.92	.58	1.30
IN.	1.42	.81	.83	.69	.71	3.20	2.02	.96	.71	1.06	.67	1.46
CAL YR 1976	TOTAL	6666.7	MEAN 18.2	MAX 408	MIN 4.3	CFSM 1.61	IN 21.95					
WTR YR 1977	TOTAL	4419.9	MEAN 12.1	MAX 143	MIN 4.3	CFSM 1.07	IN 14.55					

STREAMS TRIBUTARY TO LAKE ONTARIO

04240120 LEY CREEK AT PARK STREET, SYRACUSE, NY

LOCATION.--Lat 43°04'38", long 76°10'14", Onondaga County, Hydrologic Unit 04140201, on left bank 0.2 mi (0.3 km) upstream from bridge on Park Street, and 0.4 mi (0.6 km) upstream from mouth.

DRAINAGE AREA.--29.9 mi² (77.4 km²).

PERIOD OF RECORD.--Occasional measurements water years 1959-72. December 1972 to current year.

REVISED RECORDS.--WDR NY 76-1: 1975 (M).

GAGE.--Water-stage recorder. Datum of gage is 362.84 ft (110.594 m) above mean sea level.

REMARKS.--Records poor. Temporary channel storage intermittently results from backwater caused by Onondaga Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,310 ft³/s or 37.1 m³/s Sept. 26, 1975, gage height, 6.17 ft (1.881 m), from rating curve extended above 530 ft³/s (15.0 m³/s); minimum daily, 1.9 ft³/s (0.054 m³/s) Feb. 6, 7, 1977; minimum gage height, 0.28 ft (0.085 m) Feb. 6-8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 450 ft³/s (12.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2230	615 17.4	3.68 1.122	July 16	0500	*1,250 35.4	*5.99 1.826
Oct. 21	0800	499 14.1	3.26 .944	Sept. 20	1000	455 12.9	3.14 .957
Mar. 13	1300	529 15.0	3.34 1.018				

Minimum daily discharge, 1.9 ft³/s (0.054 m³/s) Feb. 6, 7; minimum gage height, 0.28 ft (0.085 m) Feb. 6-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MFAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	100	28	18	2.6	80	75	27	60	18	17	53
2	22	48	26	18	2.6	74	45	25	40	17	15	46
3	21	25	22	18	2.7	80	71	22	17	17	14	31
4	15	30	23	18	2.5	163	29	20	15	16	40	24
5	19	37	23	18	2.3	186	29	26	14	17	33	25
6	18	38	22	18	1.9	149	41	23	13	24	52	25
7	17	33	132	18	1.9	132	64	19	13	22	25	23
8	190	39	66	18	2.2	129	97	17	13	71	48	22
9	332	45	37	18	2.7	161	70	25	13	21	48	22
10	377	47	33	17	4.3	206	42	20	18	17	43	22
11	174	51	48	18	7.8	171	43	17	14	17	39	21
12	92	50	35	19	13	58	44	16	13	41	60	21
13	54	55	29	18	30	365	29	16	12	55	31	38
14	70	61	27	17	27	245	26	15	13	20	66	132
15	50	59	25	15	17	85	24	14	13	17	48	40
16	42	51	25	14	15	74	22	14	12	546	29	81
17	39	48	26	12	13	96	22	15	15	103	30	192
18	41	48	28	8.0	13	32	21	18	31	44	22	166
19	39	48	26	4.5	13	32	42	29	17	23	20	166
20	43	46	61	3.6	12	30	44	14	15	18	19	262
21	345	38	64	3.2	12	41	43	14	32	15	18	148
22	127	34	46	3.0	12	39	47	14	15	14	35	60
23	60	31	41	2.9	20	43	186	14	14	13	20	61
24	27	36	33	2.9	37	48	345	21	14	13	51	47
25	41	29	29	2.8	136	35	228	18	35	15	29	151
26	50	28	29	2.8	84	35	92	15	31	16	22	97
27	38	29	25	2.8	84	41	40	15	18	15	20	77
28	36	32	25	2.7	107	53	46	14	17	15	20	73
29	32	42	25	2.9	---	49	43	15	34	15	20	52
30	28	35	20	2.8	---	45	33	13	19	91	32	39
31	153	---	20	2.7	---	78	---	14	---	22	24	---
TOTAL	2610	1293	1099	339.6	678.5	3055	1983	559	600	1368	990	2217
MEAN	84.2	43.1	35.5	11.0	24.2	98.5	66.1	18.0	20.0	44.1	31.9	73.9
MAX	377	100	132	19	136	365	345	29	60	546	66	262
MIN	15	25	20	2.7	1.9	30	21	13	12	13	14	21
CFSM	2.82	1.44	1.19	.37	.81	3.29	2.21	.60	.67	1.47	1.07	2.47
IN.	3.25	1.61	1.37	.42	.84	3.80	2.47	.70	.75	1.70	1.23	2.76
CAL YR 1976	TOTAL	22926.0	MEAN	62.6	MAX	602	MIN	8.0	CFSM	2.09	IN	28.52
WTR YR 1977	TOTAL	16792.1	MEAN	46.0	MAX	546	MIN	1.9	CFSM	1.54	IN	20.89

STREAMS TRIBUTARY TO LAKE ONTARIO

391

04240180 NINEMILE CREEK NEAR MARIETTA, NY

LOCATION.--Lat 42°55'15", long 76°19'47", Onondaga County, Hydrologic Unit 04140201, on right bank 25 ft (8 m) upstream from bridge on Schuyler Road, 0.9 mi (1.4 km) north of Marietta, and 1.8 mi (2.9 km) downstream from Otisco Lake.

DRAINAGE AREA.--45.5 mi² (118 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1955, 1963. June 1964 to current year.

REVISED RECORDS.--WRD NY 1971: 1966(M), 1968, 1969.

GAGE.--Water-stage recorder. Altitude of gage is 760 ft (232 m), from topographic map.

REMARKS.--Records fair. Flow regulated by Otisco Lake from which water is diverted for city of Syracuse water supply.

AVERAGE DISCHARGE.--13 years, 41.8 ft³/s (1.184 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,030 ft³/s (29.2 m³/s) June 23, 1972, gage height, 8.65 ft (2.637 m); minimum, 0.80 ft³/s (0.023 m³/s) Sept. 13, 18, 19, 1966, gage height, 0.61 ft (0.186 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 240 ft³/s (6.80 m³/s) Mar. 31; maximum gage height, 4.97 ft (1.515 m) Oct. 21 (debris jam); minimum discharge 1.8 ft³/s (0.051 m³/s) July 29; Aug. 2, 3, gage height, 0.70 ft (0.213 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	40	50	40	63	31	211	92	4.8	20	2.0	16
2	40	80	50	40	61	31	201	85	3.8	20	1.9	16
3	40	74	58	39	60	31	174	76	3.7	20	1.9	16
4	40	72	49	48	58	44	157	59	3.6	20	2.5	16
5	40	68	48	54	57	40	147	51	3.6	20	2.5	16
6	40	66	39	63	58	19	128	48	3.8	24	2.6	16
7	45	64	24	51	56	14	116	43	4.0	22	2.7	16
8	70	62	13	50	57	12	103	40	4.0	24	4.1	16
9	150	60	11	50	71	26	93	46	4.0	21	3.2	16
10	80	70	11	59	85	39	85	47	4.3	21	3.2	15
11	60	74	11	50	84	29	69	48	4.0	20	3.0	16
12	46	72	9.8	51	84	28	42	45	3.8	20	3.7	16
13	45	70	9.2	52	86	100	39	40	3.7	20	3.2	17
14	43	90	8.7	53	85	171	37	37	3.7	20	6.7	19
15	42	86	9.2	51	83	194	34	34	4.0	20	3.3	15
16	41	70	8.9	52	59	202	32	31	4.1	19	2.7	20
17	40	54	8.7	72	25	194	30	27	4.5	19	3.6	22
18	40	52	8.7	71	27	177	27	25	6.5	19	2.7	32
19	40	52	8.9	64	26	164	17	25	4.8	19	2.6	27
20	60	51	15	53	26	150	7.6	22	4.8	19	2.4	43
21	120	51	13	60	24	135	6.3	20	5.0	19	2.3	22
22	72	51	10	50	26	141	6.5	18	4.5	18	3.4	20
23	60	51	10	59	28	161	42	14	4.4	20	2.3	19
24	54	51	9.6	58	32	151	96	12	4.4	26	6.8	19
25	62	51	9.4	58	46	145	122	11	5.9	26	5.1	43
26	52	51	9.6	58	33	138	140	7.7	5.1	26	11	27
27	45	50	9.2	58	36	131	142	6.1	13	25	13	24
28	40	51	8.9	77	36	161	126	4.7	24	20	14	22
29	38	50	24	67	---	220	111	4.0	24	1.9	15	22
30	38	50	38	62	---	226	100	4.1	21	2.8	16	20
31	100	---	40	63	---	233	---	4.1	---	2.0	16	---
TOTAL	1724	1944	632.8	1853	1472	3538	2641.4	1026.7	194.8	593.7	155.4	624
MEAN	55.6	64.8	20.4	59.8	52.6	114	88.0	33.1	6.49	19.2	5.34	20.8
MAX	150	94	58	77	86	233	211	92	24	26	16	43
MIN	34	50	8.7	39	24	12	6.3	4.0	3.6	1.9	1.9	15

CAL YR 1976 TOTAL 26591.5 MEAN 72.7 MAX 372 MIN 8.7
WTR YR 1977 TOTAL 16409.8 MEAN 45.0 MAX 233 MIN 1.9

STREAMS TRIBUTARY TO LAKE ONTARIO

04240200 NINEMILE CREEK AT CAMILLUS, NY

LOCATION.--Lat 43°02'21", long 76°18'30", Onondaga County, Hydrologic Unit 04140201, on right bank 150 ft (46 m) downstream from highway bridge on State Highway 5 (Main Street) in Camillus, and 7.2 mi (11.6 km) upstream from Onondaga Lake.

DRAINAGE AREA.--84.3 mi² (218 km²).

PERIOD OF RECORD.--July 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 398.56 ft (121.481 m) above mean sea level.

REMARKS.--Records fair. Flow regulated by Otisco Lake from which water is diverted for city of Syracuse water supply.

AVERAGE DISCHARGE.--19 years, 113 ft³/s (3.200 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,760 ft³/s (78.2 m³/s) Mar. 30, 1960, gage height, 8.25 ft (2.515 m); maximum gage height, 10.83 ft (3.301 m) Sept. 26, 1975; minimum discharge, 16 ft³/s (0.45 m³/s) Sept. 30, Oct. 1, 2, 1961; minimum gage height, 1.02 ft (0.311 m) Aug. 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 681 ft³/s (19.3 m³/s) Mar. 29, gage height, 5.17 ft (1.576 m); minimum, 29 ft³/s (0.82 m³/s) Aug. 16; gage height, 1.02 ft (0.311 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	169	85	81	96	147	409	161	67	64	39	43
2	57	136	86	81	95	126	357	155	63	62	39	39
3	57	127	80	82	95	123	338	145	61	63	38	38
4	57	118	83	81	94	177	291	131	60	64	39	37
5	56	110	85	96	94	351	288	125	58	65	38	39
6	56	104	84	98	91	193	261	122	58	69	39	38
7	56	99	143	98	94	140	231	110	58	66	39	39
8	100	97	111	96	93	130	222	105	57	71	40	38
9	239	96	76	96	93	187	197	111	55	64	40	38
10	428	106	74	98	112	306	187	126	57	62	39	36
11	113	160	79	94	118	257	178	118	55	60	40	36
12	74	152	72	95	125	203	138	111	52	61	40	36
13	66	152	67	95	144	442	130	108	51	62	35	40
14	64	151	66	94	147	444	125	101	51	60	33	74
15	60	146	67	95	136	364	119	97	50	57	39	63
16	58	101	67	97	122	344	115	94	52	59	33	62
17	56	94	67	101	86	328	110	91	56	52	36	90
18	54	94	67	103	81	295	107	91	60	54	35	160
19	53	96	66	99	82	278	103	96	62	50	32	140
20	56	96	85	99	80	257	89	88	59	50	32	210
21	274	91	110	99	79	249	86	83	60	49	31	150
22	132	90	78	99	78	282	88	79	56	49	36	120
23	80	89	76	98	77	306	189	76	54	49	33	110
24	75	87	70	99	92	288	403	71	53	51	50	150
25	101	86	68	99	225	259	312	79	57	54	38	200
26	84	86	69	99	176	255	256	76	64	52	36	120
27	71	89	66	98	160	253	245	73	56	51	36	105
28	68	89	66	98	198	378	218	71	67	50	38	86
29	66	95	66	103	---	630	192	68	69	42	39	85
30	63	87	75	98	---	472	174	67	66	45	41	77
31	177	---	81	97	---	490	---	65	---	40	38	---
TOTAL	3008	3293	2435	2966	3163	8954	6158	3094	1744	1747	1161	2499
MEAN	97.0	110	78.5	95.7	113	289	205	99.8	58.1	56.4	37.5	83.3
MAX	428	169	143	103	225	630	409	161	69	71	50	210
MIN	53	86	66	81	77	123	86	65	50	40	31	36
CAL YR 1976	TOTAL	61859	MEAN 169	MAX 1020	MIN 53							
WTR YR 1977	TOTAL	40222	MEAN 110	MAX 630	MIN 31							

STREAMS TRIBUTARY TO LAKE ONTARIO

393

04240300 NINEMILE CREEK AT LAKE LAND, NY

LOCATION.--Lat 43°04'51", long 76°13'36", Onondaga County, Hydrologic Unit 04140201, on left bank 30 ft (9 m) downstream from bridge on State Highway 48, 0.6 mi (1.0 km) downstream from Geddes Brook, and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--115 mi² (298 km²).

PERIOD OF RECORD.--Occasional measurements, water years 1959-70. November 1970 to September 1973, July 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 360.67 ft (109.93 m) above mean sea level.

REMARKS.--Records poor. Flow regulated by Otisco Lake from which water is diverted for city of Syracuse water supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,410 ft³/s (68.3 m³/s) Sept. 26, 1975, gage height, 8.75 ft (2.667 m); minimum daily, 68 ft³/s (1.93 m³/s) Oct. 23, Nov. 1, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 863 ft³/s (24.4 m³/s) Mar. 29; maximum gage height, 5.60 ft (1.707 m) Mar. 14; minimum daily discharge, 82 ft³/s (2.32 m³/s) May 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	321	162	162	164	307	526	269	122	170	110	162
2	90	254	177	158	162	249	466	249	117	160	110	183
3	110	251	167	156	164	239	463	251	126	160	111	153
4	110	239	179	156	162	329	416	223	136	160	110	146
5	130	223	187	166	162	578	410	208	126	160	102	158
6	130	212	187	191	153	410	391	198	120	170	102	156
7	120	200	318	194	149	294	362	175	120	160	125	141
8	120	204	297	169	151	274	368	153	119	170	123	156
9	290	192	202	166	149	337	334	171	123	160	148	142
10	720	194	169	173	158	533	326	189	139	150	123	141
11	290	232	164	169	179	485	318	196	141	150	111	126
12	200	235	149	171	192	354	292	221	116	160	128	136
13	191	241	144	185	215	599	261	251	120	160	102	142
14	198	239	155	196	230	673	232	221	110	150	99	187
15	194	235	173	183	210	429	204	192	100	150	133	181
16	175	202	167	175	196	359	212	192	110	150	134	166
17	162	192	162	160	171	362	208	175	120	140	123	289
18	153	194	166	167	162	329	217	156	120	150	117	269
19	134	191	153	177	175	323	217	155	110	140	111	362
20	155	189	191	185	169	326	192	126	110	140	119	496
21	477	177	256	189	160	345	181	107	110	140	103	463
22	305	171	188	173	158	379	189	102	110	130	133	321
23	219	169	177	171	146	397	359	99	100	140	126	223
24	212	167	166	171	156	385	696	82	100	150	109	179
25	246	173	155	183	337	351	557	120	110	160	126	186
26	246	173	153	171	313	359	449	114	120	150	139	244
27	212	175	142	166	294	368	413	119	110	130	126	251
28	196	177	139	156	365	481	371	110	130	130	126	221
29	185	183	156	155	---	863	331	100	150	130	146	196
30	173	169	162	160	---	656	297	107	180	130	139	232
31	282	---	169	160	---	533	---	116	---	120	131	---
TOTAL	6513	6174	5532	5314	5402	12906	10258	5147	3625	4620	3745	6408
MEAN	210	206	178	171	193	416	342	166	121	149	121	214
MAX	720	321	318	196	365	863	696	269	180	170	148	496
MIN	88	167	139	155	146	239	181	82	100	120	99	126
CAL YR 1976	TOTAL	99784	MEAN 273	MAX 1850	MIN 88							
WTR YR 1977	TOTAL	75644	MEAN 207	MAX 863	MIN 82							

STREAMS TRIBUTARY TO LAKE ONTARIO

04240495 ONONDAGA LAKE AT LIVERPOOL, NY

LOCATION.--Lat 43°06'01", long 76°12'34", Onondaga County, Hydrologic Unit 04140201, on north shore of Onondaga Lake at Onondaga Park Marina basin, 200 ft (61 m) southwest of Onondaga Lake Parkway, and 1.9 mi (3.1 km) upstream from outlet of lake.

DRAINAGE AREA.--285 mi² (738 km²).

PERIOD OF RECORD.--October 1970 to current year. Elevation records, at Barge Canal datum, since February 1927 collected by, and in files of, New York State Department of Transportation at Syracuse.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

REMARKS.--Lake elevation regulated by operation of Erie (Barge) Canal. Area of water surface, 4.60 mi² (11.9 km²).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 369.21 ft (112.535 m) June 30, 1972; minimum, 362.00 ft (110.338 m) June 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 365.94 ft (111.539 m) March 16; minimum, 362.00 ft (110.338 m) June 16.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	362.99	364.09	363.13	362.78	362.75	363.15	365.89	362.94	362.58	362.89	362.81	362.86
2	362.77	364.12	363.19	362.71	362.75	363.18	365.84	362.75	362.68	362.86	362.81	362.85
3	362.64	364.11	363.15	362.60	362.75	363.19	365.73	363.02	362.97	362.76	362.79	362.74
4	362.60	364.00	363.15	362.43	362.75	363.20	365.44	363.20	362.88	362.65	362.88	363.01
5	362.75	363.83	363.12	362.70	362.73	363.51	365.33	363.32	362.74	362.67	362.96	362.78
6	362.82	363.66	363.08	362.85	362.71	363.85	365.19	363.29	362.76	362.70	362.99	362.67
7	362.91	363.72	363.23	362.88	362.70	363.95	364.98	363.13	362.73	362.67	362.70	362.96
8	363.09	363.76	363.16	362.58	362.70	363.80	364.83	362.82	362.66	362.79	362.84	362.72
9	363.33	363.75	362.95	362.40	362.73	363.77	364.59	362.79	362.88	362.85	362.92	362.57
10	363.87	363.69	362.80	362.34	362.75	364.14	364.36	362.78	363.01	362.80	362.96	362.79
11	363.73	363.59	362.75	362.27	362.77	364.49	364.12	362.85	362.71	362.69	363.03	362.92
12	364.06	363.43	362.70	362.31	362.58	364.62	363.72	362.94	362.65	362.74	362.93	362.82
13	364.31	363.22	362.65	362.75	362.48	365.10	363.13	362.95	362.90	362.78	363.11	362.67
14	364.40	363.11	362.85	362.91	362.52	365.67	362.89	362.83	362.86	362.72	363.15	362.84
15	364.29	363.26	362.92	362.58	362.56	365.79	362.68	362.76	362.58	362.73	362.96	362.86
16	364.12	363.30	362.89	362.31	362.50	365.86	363.14	362.93	362.29	363.19	362.76	362.77
17	363.92	363.17	362.94	362.22	362.49	365.79	363.27	362.90	362.27	362.67	362.66	363.15
18	363.73	362.99	362.87	362.61	362.50	365.53	363.20	362.90	362.61	362.84	362.63	363.27
19	363.57	363.02	362.79	362.88	362.68	365.26	363.16	362.93	362.75	362.87	362.80	363.52
20	363.45	363.08	362.78	362.95	362.78	364.98	363.18	362.80	362.78	362.82	362.72	363.89
21	364.10	363.07	362.95	362.91	362.84	364.80	363.15	362.60	362.81	362.66	362.95	364.46
22	364.46	363.05	362.79	362.86	362.83	364.73	363.08	362.63	362.87	362.86	362.62	364.78
23	364.47	363.06	362.74	362.83	362.48	364.82	363.26	362.71	362.80	362.84	362.73	364.93
24	364.56	363.07	362.76	362.82	362.30	364.81	363.93	362.82	362.81	362.73	362.91	365.02
25	364.65	363.00	362.73	362.83	362.52	364.71	364.37	362.81	362.84	362.74	362.84	365.17
26	364.58	362.95	362.68	362.83	362.84	364.61	364.43	362.93	362.89	362.85	362.76	365.29
27	364.40	362.94	362.60	362.80	363.18	364.50	364.45	362.91	362.80	362.82	362.90	363.37
28	364.21	362.94	362.60	362.79	363.46	364.53	364.33	362.64	362.66	362.76	362.97	365.42
29	364.05	363.01	362.91	362.77	---	365.05	363.93	362.48	362.78	362.72	362.80	365.46
30	363.88	363.15	362.94	362.77	---	365.52	363.35	362.83	362.83	362.87	362.73	365.40
31	363.92	---	362.81	362.76	---	365.80	---	362.82	---	362.84	363.00	---
MEAN	363.76	363.37	362.89	362.68	362.70	364.60	364.10	362.87	362.74	362.79	362.86	363.67
MAX	364.65	364.12	363.23	362.95	363.46	365.86	365.89	363.32	363.01	363.19	363.15	365.46
MIN	362.60	362.94	362.60	362.22	362.30	363.15	362.68	362.48	362.27	362.65	362.62	362.57
CAL YR 1976	MEAN 363.81		MAX 367.82		MIN 362.23							
WTR YR 1977	MEAN 363.25		MAX 365.89		MIN 362.22							

04242500 EAST BRANCH FISH CREEK AT TABERG, NY

LOCATION.--Lat 43°18'06", long 75°37'09", Oneida County, Hydrologic Unit 04140202, on left bank at downstream side of bridge on Main Street at Taberg, just downstream from Furnace Creek, 300 ft (91 m) upstream from bridge on State Highway 69, and 2.8 mi (4.5 km) upstream from confluence of East and West Branches near Blossvale.

DRAINAGE AREA.--188 mi² (487 km²).

PERIOD OF RECORD.--April 1923 to current year.

REVISED RECORDS.--WSP 604: 1924. WSP 759: Drainage area. WSP 1034: 1944. WSP 1054: 1923-45.

GAGE.--Water-stage recorder. Datum of gage is 490.12 ft (149.389 m) above mean sea level. Prior to May 20, 1969, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair. Diversion above station for municipal supply by cities of Rome and Oneida. Diurnal fluctuation at low flow caused by diversion and small power operations upstream.

AVERAGE DISCHARGE.--54 years, 541 ft³/s (15.32 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,500 ft³/s (411 m³/s) June 22, 1972, gage height, 11.71 ft (3.569 m); minimum, 4.9 ft³/s (0.14 m³/s) Aug. 15, 16, 1949.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 4,900 ft³/s (140 m³/s):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 14	0400	6,060 172	7.01 2.137

Minimum discharge, 35 ft³/s (0.99 m³/s) July 28, gage height, 0.84 ft (0.256 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	257	1830	603	220	170	280	2920	577	134	280	247	395
2	218	915	624	220	180	350	2110	562	528	180	227	286
3	191	687	467	230	180	418	2280	582	392	110	143	275
4	163	657	440	230	180	331	2090	495	243	100	97	258
5	143	629	467	220	170	552	1770	444	163	90	108	197
6	132	552	440	210	170	572	1710	453	118	86	427	254
7	128	523	669	200	170	547	1180	418	104	82	513	262
8	792	528	825	200	170	518	923	368	98	170	554	193
9	2210	440	773	190	180	523	719	401	98	230	457	140
10	2700	413	646	190	190	663	697	431	99	170	478	117
11	1190	476	562	190	190	890	905	413	101	120	945	107
12	687	343	481	200	180	1160	2520	337	93	400	657	93
13	513	360	409	200	180	2900	3940	302	93	4000	484	155
14	812	343	350	200	180	4500	4870	274	80	974	730	1370
15	747	331	330	200	190	3450	3120	243	79	405	768	955
16	593	323	310	190	180	3270	2460	221	73	586	395	600
17	513	309	290	190	170	2450	2090	203	73	384	323	1660
18	409	280	270	190	170	1730	2060	188	95	250	299	1140
19	334	280	250	180	180	1270	2090	194	160	145	222	2410
20	334	280	280	180	180	992	2290	180	160	104	173	2960
21	2140	270	340	180	170	780	2290	163	179	88	139	2370
22	1710	260	330	180	170	696	2230	177	142	74	899	1160
23	1250	240	290	170	180	581	3700	197	127	62	1140	820
24	1010	240	270	170	180	553	4250	139	98	54	937	641
25	1190	290	250	170	250	535	2830	137	115	63	1000	644
26	1040	390	240	180	350	507	1740	122	242	63	528	949
27	760	735	230	180	300	506	1120	100	270	49	347	1270
28	587	1410	220	170	280	631	921	89	170	47	278	970
29	509	1170	220	160	---	1520	760	91	160	47	227	1640
30	528	692	210	170	---	2650	646	98	350	569	955	1050
31	1490	---	210	170	---	3800	---	91	---	442	671	---
TOTAL	25280	16196	12296	5930	5440	40525	63231	8690	4837	10424	15368	25341
MEAN	815	540	397	191	194	1307	2108	280	161	336	496	845
MAX	2700	1830	825	230	350	4500	4870	582	528	4000	1140	2960
MIN	128	240	210	160	170	280	646	89	73	47	97	93
†	25.9	24.9	25.5	26.5	27.1	27.6	27.4	31.2	29.1	28.3	27.1	25.7

CAL YR 1976 TOTAL 241198 MEAN 659 MAX 7720 MIN 53 † 25.6
WTR YR 1977 TOTAL 233558 MEAN 640 MAX 4870 MIN 47 † 27.3

† Diversion, in cubic feet per second, by cities of Rome and Oneida for water supply.
(Data supplied by respective cities.)

STREAMS TRIBUTARY TO LAKE ONTARIO

04243500 ONEIDA CREEK AT ONEIDA, NY

LOCATION.--Lat 43°05'51", long 75°38'22", Oneida County, Hydrologic Unit 04140202, on right bank 70 ft (21 m) upstream from bridge on Sconondoa Street at Oneida, and 500 ft (152 m) downstream from Sconondoa Creek.

DRAINAGE AREA.--113 mi² (293 km²).

PERIOD OF RECORD.--October 1949 to current year.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 409.33 ft (124.764 m) above mean sea level.

REMARKS.--Records good except those for winter periods and those above 300 ft³/s (8.50 m³/s), which are fair. Occasional regulation by small mills upstream from station.

AVERAGE DISCHARGE.--28 years, 164 ft³/s (4.644 m³/s), 19.71 in/yr (501 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,100 ft³/s (314 m³/s) Oct. 9, 1976, gage height, 15.01 ft (4.575 m); minimum, 12 ft³/s (0.34 m³/s) Aug. 5, 6, 1962, Oct. 28, 1964; minimum gage height, 1.30 ft (0.396 m) Aug. 3, 6, 1955, Aug. 17, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s (53.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2215	*11,100 314	*15.01 4.575	Mar. 29	2030	3,550 101	11.17 3.405
Oct. 21	1130	2,230 63.2	8.81 2.685	Apr. 24	1015	2,680 75.9	9.68 2.950
Mar. 14	0300	3,200 90.6	10.69 3.258	Sept. 21	0315	2,950 83.5	10.19 3.106

Minimum discharge, 32 ft³/s (0.91 m³/s) Sept. 12, gage height, 1.72 ft (0.524 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	291	190	120	88	410	728	197	74	52	45	54
2	81	213	160	120	86	300	521	197	80	46	50	89
3	80	199	150	120	86	260	512	192	65	44	43	53
4	78	190	170	120	84	440	383	168	60	43	40	45
5	73	181	170	120	84	1070	413	185	57	45	39	42
6	73	179	150	120	82	751	435	174	57	53	59	44
7	73	163	490	120	82	530	320	144	65	55	57	40
8	291	159	460	110	80	498	301	134	60	86	66	38
9	3080	157	290	110	82	420	242	190	57	65	250	37
10	2390	170	280	110	86	1450	244	255	73	54	83	35
11	752	197	240	110	94	1070	231	244	66	48	107	33
12	417	181	200	110	110	980	213	163	59	50	77	33
13	288	194	160	110	120	2220	204	140	58	236	66	40
14	337	194	150	110	110	2300	197	126	55	89	60	250
15	304	199	140	110	110	1090	176	116	53	54	59	122
16	258	192	130	110	100	788	161	107	50	379	49	112
17	204	181	140	100	100	574	150	99	51	165	62	408
18	181	190	130	100	98	432	142	96	76	98	58	370
19	165	206	130	100	96	330	134	116	77	69	48	587
20	168	216	210	100	96	290	124	99	62	62	43	1280
21	1250	181	310	98	98	338	118	98	87	52	40	1540
22	530	163	150	98	100	340	122	92	62	48	46	604
23	323	148	150	96	120	290	631	78	54	43	45	320
24	298	140	150	96	200	270	2050	80	51	41	94	247
25	387	132	150	96	920	250	1100	89	62	68	83	512
26	314	134	130	94	940	250	674	74	68	78	53	563
27	236	244	130	94	820	270	404	69	56	54	45	626
28	211	242	120	92	980	572	304	69	51	47	41	330
29	194	290	120	90	---	2380	253	68	54	41	39	261
30	176	190	120	90	---	1610	218	64	54	68	46	204
31	413	---	120	88	---	1130	---	62	---	53	42	---
TOTAL	13714	5716	5790	3262	6052	24203	11705	3985	1854	2386	1935	8919
MEAN	442	191	187	105	216	781	390	129	61.8	77.0	62.4	297
MAX	3080	291	490	120	980	2380	2050	255	87	379	250	1540
MIN	73	132	120	88	80	250	118	62	50	41	39	33
CFSM	3.91	1.69	1.65	0.93	1.91	6.91	3.45	1.14	.55	.68	.55	2.63
IN.	4.51	1.88	1.91	1.07	1.99	7.97	3.85	1.31	.61	.79	.64	2.94
CAL YR 1976	TOTAL	119560	MEAN 327	MAX 3080	MIN 62	CFSM 2.89	IN 39.36					
WTR YR 1977	TOTAL	89521	MEAN 245	MAX 3080	MIN 33	CFSM 2.17	IN 29.47					

STREAMS TRIBUTARY TO LAKE ONTARIO

397

04245000 LIMESTONE CREEK AT FAYETTEVILLE, NY

LOCATION.--Lat 43°01'48", long 76°00'49", Onondaga County, Hydrologic Unit 04140202, on left bank 100 ft (30 m) downstream from bridge on Genesee Street at Fayetteville, and 8 mi (13 km) upstream from mouth.

DRAINAGE AREA.--85.5 mi² (221 km²), not including 14.0 mi² (36.3 km²) of Middle Branch Tioughnioga Creek basin, flow from which may be completely diverted into Limestone Creek basin through DeRuyter Reservoir, and 0.8 mi² (2.07 km²) in closed basin.

PERIOD OF RECORD.--November 1939 to current year.

REVISED RECORDS.--WSP 954: 1941. WSP 1912: 1958(M).

GAGE.--Water-stage recorder. Datum of gage is 427.73 ft (130.372 m) above mean sea level.

REMARKS.--Records fair. Canal diverts water from Limestone Creek about 3 mi (5 km) above station and returns water to creek about 400 ft (122 m) above station. Flow regulated by DeRuyter Reservoir.

AVERAGE DISCHARGE.--37 years (1940-77), 142 ft³/s (4.021 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,010 ft³/s (199 m³/s) Mar. 28, 1950, gage height, 7.78 ft (2.371 m), from rating curve extended above 3,500 ft³/s (99.1 m³/s); maximum gage height, 8.66 ft (2.640 m) July 3, 1974; minimum discharge, 1.4 ft³/s (0.040 m³/s) Aug. 19, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1630	1,920 54.4	5.53 1.686	Mar. 13	2230	*2,240 63.4	*5.90 1.798

Minimum discharge, 27 ft³/s (0.76 m³/s) Sept. 12, gage height, 1.48 ft (0.451 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	256	110	207	64	362	364	163	67	39	47	44
2	74	187	110	113	62	243	294	158	71	35	44	44
3	71	173	110	96	60	213	294	165	62	33	42	42
4	69	163	110	90	60	385	243	151	58	32	40	37
5	67	159	110	86	60	880	264	178	55	33	39	36
6	62	149	120	84	78	581	282	163	53	37	50	47
7	60	139	350	82	66	325	224	140	58	40	47	39
8	207	137	297	82	60	284	219	133	53	49	46	35
9	840	134	181	82	54	448	193	158	49	46	80	32
10	1260	139	173	90	54	801	193	240	56	39	56	32
11	400	159	201	120	60	752	180	261	53	35	60	29
12	240	139	163	110	78	656	163	161	49	114	60	28
13	201	142	144	90	105	1410	154	135	47	183	55	32
14	297	142	125	82	132	1230	151	122	43	58	49	176
15	277	144	134	78	113	585	140	111	43	47	58	88
16	219	137	120	100	96	416	135	102	40	498	46	129
17	176	132	132	160	90	333	128	96	47	117	65	279
18	159	139	120	180	86	276	124	94	92	100	58	327
19	147	151	113	120	82	249	119	128	102	76	44	575
20	156	154	220	78	80	227	113	100	58	71	40	736
21	566	137	180	72	78	232	109	90	88	58	39	896
22	329	127	160	68	78	312	113	84	55	52	44	404
23	219	120	140	66	82	305	460	76	46	49	44	261
24	207	116	130	64	103	255	1160	82	43	44	149	219
25	284	113	120	62	444	232	692	138	46	53	104	525
26	228	116	110	60	420	227	345	90	56	71	60	444
27	181	161	100	58	377	243	267	78	47	49	49	456
28	166	149	98	64	548	556	224	74	42	44	43	270
29	159	181	100	72	---	1140	196	69	43	42	43	258
30	149	122	111	74	---	796	175	67	42	56	46	198
31	304	---	173	68	---	570	---	63	---	67	42	---
TOTAL	7852	4417	4565	2858	3670	15525	7718	3870	1664	2267	1694	6718
MEAN	253	147	147	92.2	131	501	257	125	55.5	73.1	54.6	224
MAX	1260	256	350	207	548	1410	1160	261	102	498	149	896
MIN	60	113	98	58	54	213	109	63	40	32	39	28

CAL YR 1976	TOTAL	78325	MEAN 214	MAX 2030	MIN 52
WTR YR 1977	TOTAL	62818	MEAN 172	MAX 1410	MIN 28

STREAMS TRIBUTARY TO LAKE ONTARIO

04245200 BUTTERNUT CREEK NEAR JAMESVILLE, NY

LOCATION.--Lat 42°56'02", long 76°03'44", Onondaga County, Hydrologic Unit 04140202, on left bank 15 ft (5 m) downstream from bridge on Walberger Road, 125 ft (38 m) downstream from tributary from Stebbins Gulf, 2.2 mi (3.5 km) upstream from Jamesville Reservoir, and 4 mi (6 km) south of Jamesville.

DRAINAGE AREA.--32.2 mi² (83.4 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1955-58. July 1958 to current year.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 717.93 ft (218.825 m) above mean sea level.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--19 years, 50.5 ft³/s (1.430 m³/s), 21.30 in/yr (541 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,820 ft³/s (79.9 m³/s) July 3, 1974, gage height, 7.84 ft (2.390 m); maximum gage height, 7.92 ft (2.414 m) Jan. 27, 1976 (ice jam); minimum discharge, 2.0 ft³/s (0.057 m³/s) Sept. 27, 1959, gage height, 2.26 ft (0.689 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 550 ft³/s (15.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1530	1,210 34.3	7.34 2.24	Mar. 13	1630	*1,550 43.9	*7.61 2.32

Minimum discharge, 6.9 ft³/s (0.20 m³/s) July 29, gage height, 4.87 ft (1.484 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	80	46	46	21	102	113	52	21	11	8.6	10
2	21	63	38	35	20	83	95	52	23	10	9.1	10
3	20	58	38	31	19	77	90	49	22	10	7.6	11
4	19	57	38	30	20	172	72	46	19	10	8.6	10
5	18	53	38	28	26	337	79	58	19	11	10	11
6	18	50	35	27	24	187	70	52	20	13	12	11
7	18	48	118	26	20	123	59	42	27	14	11	10
8	81	46	75	25	19	109	58	40	22	22	19	9.1
9	496	45	91	26	18	190	50	50	22	15	24	8.6
10	387	49	95	30	18	357	50	93	31	12	14	8.0
11	118	48	60	33	24	306	50	72	23	10	13	7.6
12	85	43	48	32	29	285	47	52	19	12	15	7.6
13	73	43	46	30	36	887	46	47	18	11	12	12
14	73	43	69	26	35	670	46	42	16	9.1	16	52
15	66	42	49	25	29	219	42	39	16	8.6	16	22
16	61	39	42	31	32	157	40	36	14	26	11	44
17	54	38	42	44	35	113	38	34	16	12	28	63
18	50	39	38	50	30	92	36	34	48	22	17	90
19	48	39	37	42	25	79	36	42	36	13	12	92
20	57	39	60	29	12	67	34	33	23	11	10	232
21	169	36	52	23	11	69	34	30	29	9.1	9.7	101
22	87	35	45	22	11	99	35	28	18	9.1	16	60
23	67	34	40	21	23	79	149	25	16	8.0	11	50
24	69	33	37	20	46	63	319	31	14	7.6	52	44
25	85	33	35	20	170	63	162	32	20	14	25	154
26	70	35	33	20	121	58	99	27	22	11	17	103
27	60	42	31	20	137	66	77	25	16	8.0	14	103
28	56	42	30	21	151	187	64	24	14	7.6	12	69
29	54	46	32	23	---	441	58	22	15	7.2	11	66
30	52	45	45	23	---	239	55	20	12	13	12	54
31	97	---	56	22	---	174	---	19	---	9.7	11	---
TOTAL	2651	1343	1539	881	1162	6150	2203	1248	631	367.0	464.6	1524.9
MEAN	85.5	44.8	49.6	28.4	41.5	198	73.4	40.3	21.0	11.8	15.0	50.8
MAX	496	80	118	50	170	887	319	93	48	26	52	232
MIN	18	33	30	20	11	58	34	19	12	7.2	7.6	7.6
CFSM	2.66	1.39	1.54	.88	1.29	6.15	2.28	1.25	.65	.37	.47	1.58
IN.	3.06	1.55	1.78	1.02	1.34	7.10	2.55	1.44	.73	.42	.54	1.76

CAL YR 1976	TOTAL	30609.0	MEAN	83.6	MAX	946	MIN	16	CFSM	2.60	IN	35.36
WTR YR 1977	TOTAL	20164.5	MEAN	55.2	MAX	887	MIN	7.2	CFSM	1.71	IN	23.29

399

LOCATION.--Lat 43°14'25", long 76°08'30", Onondaga County, Hydrologic Unit 04140202, at west end of Oneida Lake, 100 ft (30 m) west of bridge on U.S. Highway 11, at Brewerton.

PERIOD OF RECORD.--November 1951 to current year. April 1904 to September 1925 in reports of State Engineer and Surveyor, published as "Oneida River at Brewerton."

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (1.01 ft or 0.308 m, Barge Canal datum). November 1951 to September 1975, at datum 360.99 ft (110.030 m) higher.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 372.83 ft (113.639 m) June 26, 1972; minimum daily, 366.41 ft (111.682 m) Feb. 18, 19, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 371.71 ft (113.297 m) Apr. 5; minimum, 366.85 ft (111.816 m) Feb. 13.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	369.54	369.87	369.67	368.08	367.06	367.30	371.22	370.60	370.05	369.74	369.66	369.72
2	369.50	369.93	369.45	368.02	367.05	367.33	371.46	370.40	369.96	369.59	369.70	369.70
3	369.42	369.89	369.49	367.93	367.04	367.44	371.13	370.27	369.91	369.67	369.75	369.66
4	369.41	369.81	369.42	367.88	367.03	367.35	371.50	370.20	369.88	369.60	369.74	369.67
5	369.41	369.71	369.32	367.84	367.00	367.67	371.36	370.07	369.83	369.56	369.72	369.62
6	369.35	369.57	369.26	367.80	367.00	367.83	371.09	369.89	369.81	369.64	369.75	369.59
7	369.24	369.51	369.22	367.75	366.99	367.97	371.18	369.75	369.70	369.67	369.81	369.58
8	369.33	369.47	369.21	367.71	366.97	368.09	370.83	369.60	369.68	369.61	369.82	369.55
9	369.47	369.45	369.20	367.57	366.96	368.22	370.92	369.51	369.80	369.61	369.80	369.53
10	370.05	369.35	369.16	367.67	366.94	368.40	370.85	369.46	369.70	369.62	369.83	369.35
11	370.50	369.28	369.10	367.61	366.92	368.68	370.76	369.49	369.67	369.68	369.76	369.31
12	370.60	369.30	369.06	367.50	366.91	368.97	370.60	369.50	369.70	369.67	369.72	369.31
13	370.53	369.30	368.99	367.60	366.91	369.44	370.53	369.46	369.72	369.76	369.66	369.31
14	370.31	369.32	368.94	367.59	366.91	370.21	370.60	369.48	369.75	369.93	369.52	369.27
15	370.40	369.39	368.85	367.50	366.92	370.85	370.67	369.51	369.70	369.94	369.48	369.48
16	370.24	369.39	368.78	367.46	366.94	371.17	370.64	369.55	369.73	369.97	369.56	369.52
17	370.21	369.45	368.70	367.42	366.95	371.35	370.58	369.57	369.72	369.95	369.41	369.47
18	370.08	369.37	368.64	367.40	366.95	371.49	370.50	369.62	369.78	369.88	369.37	369.55
19	370.05	369.38	368.58	367.40	366.95	371.44	370.42	369.64	369.76	369.80	369.47	369.66
20	369.98	369.39	368.51	367.40	366.94	371.38	370.35	369.70	369.84	369.73	369.39	369.99
21	369.81	369.46	368.47	367.37	366.95	371.27	370.26	369.73	369.83	369.66	369.49	370.12
22	369.97	369.32	368.47	367.31	366.97	371.22	370.18	369.79	369.87	369.61	369.40	370.22
23	370.11	369.32	368.44	367.29	366.96	371.10	370.29	369.83	369.90	369.59	369.51	370.25
24	370.30	369.47	368.41	367.27	366.99	370.95	370.77	369.85	369.91	369.55	369.58	370.44
25	370.20	369.52	368.39	367.24	367.00	370.85	370.90	369.84	369.90	369.44	369.64	370.41
26	370.18	369.56	368.33	367.22	367.07	370.75	371.07	369.86	369.88	369.43	369.75	370.14
27	370.14	369.53	368.28	367.18	367.15	370.66	371.08	369.87	369.91	369.47	369.75	369.99
28	370.02	369.61	368.24	367.18	367.21	370.57	370.89	369.86	369.93	369.5		

STREAMS TRIBUTARY TO LAKE ONTARIO

04246500 ONEIDA RIVER AT CAUGHDENY, NY

LOCATION.--Lat 43°14'49", long 76°10'12", Oswego County, Hydrologic Unit 04140202, on left bank at point of diversion to New York State Erie (Barge) Canal, 1.6 mi (2.6 km) downstream from Oneida Lake, and 2.6 mi (4.2 km) upstream from navigation dam at Caughdeny.

DRAINAGE AREA.--1,382 mi² (3,579 km²); 1902-9, 1,439 mi² (3,727 km²).

PERIOD OF RECORD.--September 1902 to December 1909 (published as "near Euclid"), January 1910 to December 1912, and October 1947 to current year in reports of Geological Survey. September 1902 to December 1909 and January 1910 to September 1925 in reports of State Engineer and Surveyor.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Base gage: Water-stage recorder. Datum of gage is 362.00 ft (110.338 m) above mean sea level, Barge Canal datum. Prior to June 5, 1907, headwater readings, and June 5, 1907 to Dec. 31, 1909, nonrecording gage readings at former Oak Orchard State Dam 5.5 mi (8.8 km) downstream at different datum. Jan. 1, 1910 to Dec. 31, 1912, nonrecording gage at site 2.5 mi (4.0 km) downstream from present site at different datum. From Oct. 9, 1947 to Nov. 7, 1951, water-stage recorder at site 2.5 mi (4.0 km) downstream at present datum.

Auxiliary gage: Water-stage recorder at site 2.5 mi (4.0 km) downstream, 350 ft (107 m) upstream from navigation dam at present datum (base gage site 1947-51).

Supplementary gage: Water-stage recorder at site 2.6 mi (4.2 km) downstream, 180 ft (55 m) downstream from navigation dam at present datum.

REMARKS.--Records fair. Jan. 1, 1910 to Dec. 31, 1912: Flow over dam computed on basis of coefficient determined for model of dam of same general type; flow through gate and diversion through lock culverts estimated by theoretical calculations.

1947 to current year: Record represents total discharge at Caughdeny, including flow in Oneida and Erie (Barge) Canals. Considerable seasonal regulation by operation of gates in Oneida and Erie (Barge) Canals with a large amount of natural storage in Oneida Lake. Occasional large diurnal fluctuations caused by seiche in Oneida Lake. Water may be diverted into or received from Mohawk River basin through summit level of Erie (Barge) Canal between New London and Utica. Nearly all of flow from 14 mi² (36 km²) of Tioughnioga River basin may be diverted into De Ruyter Reservoir, in Oswego River basin.

COOPERATION.--Records of gate openings, lockages, and elevations of water surface in Erie (Barge) Canal above and below lock 23, furnished by New York State Department of Transportation.

AVERAGE DISCHARGE.--40 years (1902-12, 1947-77), 2,553 ft³/s (72.30 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 13,800 ft³/s (391 m³/s) Mar. 25-27, 1903; minimum daily, 52 ft³/s (1.47 m³/s) Oct. 24, 1910.

1947 to current year: Maximum daily discharge, 10,100 ft³/s (286 m³/s) June 25, 1972; minimum daily, 62 ft³/s (1.76 m³/s) July 29, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 8,230 ft³/s (233 m³/s) Apr. 4; minimum daily, 212 ft³/s (6.00 m³/s) May 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2330	5400	4430	2740	1600	1860	7740	6580	721	2040	278	1660
2	2310	5500	4250	2680	1560	1930	8170	6250	1570	1880	275	1780
3	2310	5430	4310	2640	1550	1970	7570	6030	2140	2000	416	1750
4	2300	5310	4220	2570	1540	2200	8230	5940	2120	2080	656	1750
5	2270	5150	4150	2520	1510	2310	7980	5830	2080	1620	814	1730
6	1880	4920	4100	2480	1490	2500	7480	5410	2080	777	946	1760
7	1640	4800	4120	2400	1490	2680	7670	5180	1210	660	924	1720
8	1940	4750	4320	2370	1480	2860	7050	4790	635	680	1820	1520
9	2300	4720	4290	2310	1470	3020	7220	4600	658	696	2800	1600
10	2500	4480	4260	2310	1440	3270	7120	3070	670	693	2740	1630
11	4570	4290	4220	2220	1410	3660	6910	2110	654	670	2740	1680
12	6290	3060	4230	2220	1400	4080	6570	2160	653	654	2710	1700
13	6440	1850	4100	2190	1400	4920	6430	1640	663	1420	4440	1500
14	6090	1950	4070	2150	1400	6060	6560	980	657	2780	4340	1740
15	6280	2040	3920	2090	1410	7110	6690	985	648	3970	2180	1690
16	6020	2070	3830	2040	1440	7620	6630	625	505	4510	2140	2670
17	5950	2070	3700	2020	1440	7960	6540	267	250	4020	1250	4400
18	5730	1950	3620	1970	1460	8210	6410	255	267	4480	571	4440
19	5700	2050	3540	1950	1450	8110	6280	247	287	4460	584	4700
20	5590	2100	3420	1920	1440	8030	6150	224	280	2970	583	5590
21	5310	2040	3340	1900	1450	7810	6010	212	392	1780	605	5830
22	5550	2010	3370	1860	1470	7740	5870	235	616	1780	573	6000
23	5800	2080	3340	1850	1470	7520	6040	226	727	1730	585	6040
24	6120	2080	3300	1820	1520	7740	6860	249	877	1690	598	6380
25	5960	2080	3260	1790	1500	7110	7080	246	894	1160	597	6320
26	5900	2120	3180	1820	1580	6950	7350	283	881	512	1050	5860
27	5830	2090	3100	1730	1690	6800	7370	277	833	284	1750	5600
28	5630	2130	3070	1700	1750	6670	7040	238	1290	274	1750	5580
29	5540	2650	2960	1660	---	6730	6840	231	2080	272	1700	5550
30	5490	3780	2870	1650	---	7010	6750	274	2070	298	1810	5560
31	5410	---	2780	1640	---	7170	---	396	---	296	1750	---
TOTAL	142980	96950	115670	65210	41810	169010	208610	66040	29408	53136	47975	105730
MEAN	4612	3232	3731	2104	1493	5452	6954	2130	980	1714	1548	3524
MAX	6440	5500	4430	2740	1750	8210	8230	6580	2140	4510	4440	6380
MIN	1640	1850	2780	1640	1400	1860	5870	212	250	272	275	1500

CAL YR 1976 TOTAL 1367556 MEAN 3736 MAX 7870 MIN 232
WTR YR 1977 TOTAL 1142529 MEAN 3130 MAX 8230 MIN 212

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY
(National stream-quality accounting network station)

LOCATION.--Lat 43°27'06", long 76°30'20", Oswego County, Hydrologic Unit 04140203, on right bank at lock 7 in Oswego, 0.8 mi (1.3 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--5,098 mi² (13,204 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1900 to April 1906, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1307. Prior to January 1904, published as "above Minetto" or "near Minetto." January 1904 to April 1906, published as "at Battle Island." Records for April 1897 to September 1900, published in WSP 65 and for October 1927 to September 1928, published in WSP 664, have been found to be unreliable and should not be used.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 246.00 ft (74.981 m) above mean sea level, Barge Canal datum. Prior to 1933, nonrecording gage at site about 6 mi (10 km) upstream at different datum.

REMARKS.--Records good. Prior to 1933 and subsequent to 1972, flow in Oswego (Barge) Canal not included. A large amount of natural storage and some artificial regulation is afforded by the many large lakes and the Erie (Barge) and Oswego (Barge) Canal systems in the river basin. Large diurnal fluctuations at low and medium flow caused by powerplants upstream from station. Oswego River basin receives water from Erie (Barge) Canal through lock 32 near Pittsford. Water may be diverted into or received from Mohawk River basin through summit levels of Erie (Barge) Canal between New London and Utica. During part of year entire flow from 45.5 mi² (118 km²) of Mud Creek drainage area may be diverted from Chemung River basin into Keuka Lake in Oswego River basin. Nearly all of flow from 14 mi² (36.3 km²) of the Tioughnioga River basin may be diverted into De Ruyter Reservoir, in Oswego River basin.

COOPERATION.--Records of lockages at lock 7 furnished by New York State Department of Transportation, record of elevations of Lake Ontario by Corps of Engineers, daily discharge records for High Dam by Niagara Mohawk Power Corp.

AVERAGE DISCHARGE.--44 years (1933-1977), 6,632 ft³/s (187.8 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,500 ft³/s (1,060 m³/s) Mar. 28, 1936, includes daily mean discharge of canals; maximum gage height, 13.46 ft (4.103 m) Apr. 10, 1940; minimum discharge (river only), 30 ft³/s (0.85 m³/s) Nov. 6, 1944; minimum daily, 274 ft³/s (7.76 m³/s) Oct. 10, 1969; minimum gage height, 0.97 ft (0.296 m) Aug. 24, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 21,900 ft³/s (620 m³/s) Mar. 14; maximum gage height, 9.93 ft (3.027 m) Mar. 14; minimum daily discharge, 1,060 ft³/s (30.0 m³/s) June 17; minimum gage height, 1.90 ft (0.579 m) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3860	14000	8510	5400	3480	10200	20300	12200	2730	4160	1980	3350
2	4910	14200	8530	5400	3400	9170	20500	10500	2730	4160	1840	3750
3	4340	14200	8390	4700	3270	9230	19900	9320	4130	3990	1910	3140
4	3560	13900	8510	4400	3470	9910	19400	9890	4350	3590	1890	3120
5	3520	13400	8410	4400	3440	11100	19000	10300	3700	2890	2290	3880
6	3700	12500	8200	4500	3440	11900	18100	10100	3860	2670	3210	2890
7	3110	12000	9370	4500	3390	12400	17500	9680	3300	2580	3000	2940
8	3980	12200	10200	4600	3350	13000	16800	8770	2070	2690	2670	3690
9	7010	12100	9910	4600	3420	13200	16300	7960	2010	3010	4140	2590
10	11200	12000	9470	4600	3460	14400	15400	7440	3060	2780	4260	2510
11	12300	11700	9250	4600	3730	16600	15000	4930	3440	2680	4790	2920
12	13600	10900	9000	4600	4070	17400	13800	5410	2100	2650	5320	3680
13	14400	9140	8200	4400	4080	20100	12100	5500	2290	3540	5540	3510
14	14400	8190	7690	4400	4060	21900	10700	5030	2580	4640	6250	3650
15	14300	7970	8110	4200	4540	21600	9790	4550	3880	6200	6000	3770
16	13700	8190	7890	4100	4600	21400	8240	3570	3010	7910	3580	3880
17	13100	8020	7650	4000	4570	20900	9010	3500	1060	8330	2970	7530
18	12500	7490	7780	3900	4050	20400	8940	3660	1500	5730	1890	9160
19	12200	5930	7630	3900	3530	19300	8710	3590	1850	6440	2410	11100
20	11700	6170	7390	3900	3740	18300	8800	3440	1930	5780	2060	13500
21	13800	6280	7320	3930	3870	17400	8750	2760	1980	3440	2360	15300
22	15200	6280	8360	3840	4090	17200	8630	1660	2280	2990	3160	16000
23	15600	6180	7700	3790	5040	17100	8960	2190	2560	3290	2090	16400
24	15700	6170	7550	3690	4650	17000	11500	1690	2570	3140	2930	16500
25	16000	6080	7510	3750	5000	16600	15000	2120	2640	2370	3150	17100
26	15700	5950	7390	3730	5400	16300	16300	2040	2920	1690	2790	17200
27	15200	6020	7190	3730	6260	15900	16200	2540	3110	1830	3200	17000
28	14600	5670	7470	3660	8860	16000	15600	2930	2820	1900	3670	17000
29	14100	6220	7450	3680	---	18200	14600	1610	3400	1710	4130	17000
30	13600	7540	6200	3720	---	19900	13200	1640	4070	1960	3260	17000
31	13500	---	5600	3330	---	20100	---	3060	---	2080	2800	---
TOTAL	344390	276590	249830	129950	118260	505010	417030	163580	83930	112820	101540	261060
MEAN	11110	9220	8059	4192	4224	16290	13900	5277	2798	3639	3275	8702
MAX	16000	14200	10200	5400	8860	21900	20500	12200	4350	8330	6250	17200
MIN	3110	5670	5600	3330	3270	9170	8240	1610	1060	1690	1840	2510
CAL YR 1976 TOTAL	3937810			MEAN 10760	MAX 31000	MIN 1960						
WTR YR 1977 TOTAL	2763990			MEAN 7573	MAX 21900	MIN 1060						

STREAMS TRIBUTARY TO LAKE ONTARIO

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-60, 1964-66, 1971 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September 1975 to current year.

WATER TEMPERATURES: July 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1975.

REMARKS.--Interruptions in the record were due to malfunctions of the instruments.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 2,020 micromhos Sept. 16, 1975; minimum recorded, 430 micromhos Apr. 19, 1976.

WATER TEMPERATURES: Minimum, freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,580 micromhos June 26; minimum recorded, 480 micromhos Oct. 15.

WATER TEMPERATURES: Minimum, freezing point on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORMS (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI (COLONIES PER 100 ML)
OCT , 1976										
14...	1100	14500	510	7.2	4	10.0	93	450	280	--
NOV 04...	1000	14100	690	7.3	6	11.7	94	190	52	--
DEC 09...	1030	9590	919	6.6	3	14.8	101	380	--	B170
JAN , 1977 20...	1030	4730	1050	7.1	4	14.8	101	8140	--	370
FEB 22...	1000	3500	980	7.5	6	13.6	93	63	--	290
MAR 17...	1000	21000	725	6.6	8	11.0	82	8920	--	1000
APR 27...	1000	16300	820	7.2	4	9.8	89	6500	--	350
MAY 17...	1000	5870	1200	7.7	7	9.2	94	46	--	50
JUN 14...	1000	2600	1300	7.2	6	8.6	91	54	--	56
JUL 20...	1100	3960	800	7.3	1	7.2	90	470	--	B160
AUG 03...	1000	3170	1620	7.3	4	7.6	90	114	--	240
SEP 08...	1000	4750	1250	7.3	7	8.1	91	134	--	300

DATE	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT , 1976										
14...	190	78	57	11	33	2.5	134	0	14	56
NOV 04...	220	110	68	13	40	2.5	144	0	12	55
DEC 09...	280	160	92	13	70	2.8	145	0	58	64
JAN , 1977 20...	280	160	90	13	65	2.5	147	0	19	64
FEB 22...	250	120	79	13	66	2.6	159	0	8.0	65
MAR 17...	210	120	70	9.4	40	2.2	116	0	29	40
APR 27...	270	150	88	12	56	2.3	140	0	14	54
MAY 17...	370	230	120	16	90	3.0	160	0	5.1	66
JUN 14...	330	210	110	14	110	3.4	150	0	15	57
JUL 20...	240	150	77	11	60	2.3	110	0	8.8	57
AUG 03...	390	300	130	15	150	4.0	110	0	8.8	78
SEP 08...	300	210	100	12	100	3.4	110	0	8.8	75

B Results based on colony count outside the acceptable range (non-ideal colony count).

STREAMS TRIBUTARY TO LAKE ONTARIO

403

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO ₂) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SJM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT + 1976									
14...	67	.1	1.8	340	295	.39	.80	1.2	.11
NOV 04...	94	.1	2.1	382	346	.46	.68	1.1	.07
DEC 09...	160	.1	1.9	565	475	.50	.80	1.3	.06
JAN + 1977									
20...	190	.1	2.4	541	499	.47	.68	1.2	.09
FEB 22...	150	.1	3.2	519	457	.62	1.1	1.7	.09
MAR 17...	120	.1	2.4	381	341	.61	.79	1.4	.06
APR 27...	140	.1	.5	484	422	.50	1.4	1.9	.08
MAY 17...	240	.1	.1	824	614	.45	1.2	1.7	.10
JUN 14...	290	.1	.6	956	659	--	--	--	--
JUL 20...	160	.1	3.2	576	425	.22	.83	1.1	.09
AUG 03...	380	.1	.5	1150	812	.11	.70	.81	.10
SEP 08...	260	.1	.3	762	605	.18	.86	1.0	.11

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT 14...	1100	1	1	1	0	<10	<10	0	0	10	0	430
APR 27...	1000	1	1	1	0	<10	<10	0	0	0	0	310
JUN 14...	1000	0	0	0	0	20	1	0	0	4	0	0
AUG 03...	1000	--	0	--	0	--	2	--	0	--	2	--

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 14...	70	10	2	60	10	<.5	<.5	0	0	10	0
APR 27...	30	15	3	40	10	<.5	<.5	1	1	10	10
JUN 14...	10	9	3	50	10	.2	.1	0	0	30	0
AUG 03...	20	--	3	--	20	--	.2	--	0	--	10

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. & FINER THAN .062 MM	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. & FINER THAN .062 MM
OCT 14...	1100	14500	24	940	89	AUG 03...	1000	3170	7	60	100
NOV 04...	1000	14100	9	343	83	SEP 08...	1000	4750	14	180	100
JUL 20...	1100	3960	12	128	97						

STREAMS TRIBUTARY TO LAKE ONTARIO

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE TIME	NOV 4,76 1100	DEC 9,76 1030	JAN 20,77 1030	FEB 22,77 1000	MAY 17,77 1000
TOTAL CELLS/ML	670	1600	6100	4600	41000
DIVERSITY: DIVISION	1.6	2.0	0.2	0.6	1.3
..CLASS	1.6	2.1	0.2	0.6	1.6
...ORDER	1.8	2.3	0.2	0.6	2.0
...FAMILY	2.3	3.0	0.2	0.7	2.4
....GENUS	2.4	3.0	0.2	0.7	3.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
....COELASTRACEAE										
....CUELASTRUM	--	-	--	-	--	-	--	-	--	-
....HYDRODICTYACEAE										
....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
....MICRACTINIACEAE										
....GOLENKINIA	--	-	* 0		--	-	--	-	--	-
....MICRACTINIUM	--	-	--	-	--	-	--	-	8200#	20
....UOCYSTACEAE										
....ANKISTRUESMUS	7	1	230	14	79	1	43	1	*	0
....CHLORELLA	--	-	--	-	--	-	* 0		--	-
....CHODATELLA	--	-	--	-	--	-	--	-	*	0
....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-
....KIRCHNERIELLA	--	-	--	-	--	-	* 0		--	-
....OOCYSTIS	--	-	--	-	* 0		--	-	--	-
....SELENASTRUM	63	9	--	-	--	-	--	-	--	-
....TETRAEDRON	--	-	--	-	--	-	--	-	--	-
....TREUBARIA	--	-	--	-	--	-	--	-	--	-
....SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	--	-	--	-	--	-
....CRUCIGENIA	--	-	--	-	--	-	--	-	2700	7
....SCENEDESMUS	180#	27	320#	20	* 0		51	1	2000	5
....TETRASTRUM	* 0		--	-	--	-	--	-	--	-
..TETRASPORALES										
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	7	1	--	-	--	-	* 0		--	-
....PHACOTACEAE										
....PHACOTUS	--	-	--	-	--	-	--	-	--	-
....VOLVOCAEAE										
....PANDORINA	--	-	--	-	--	-	--	-	--	-
..ZYGNEATALES										
...DESMIDIACEAE										
....CLOSTERIUM	--	-	--	-	--	-	--	-	--	-
....COSMARIUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE TIME	NOV 4,76 1100		DEC 9,76 1030		JAN 20,77 1030		FEB 22,77 1000		MAY 17,77 1000	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHRYSTOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
...COSCINODISCACEAE										
....COSCINODISCUS	--	-	--	-	--	-	--	-	--	-
....CYCLOTELLA	7	1	230	14	*	0	320	7	6400#	16
....MELOSIIRA	--	-	--	-	--	-	--	-	11000#	27
....STEPHANODISCUS	--	-	--	-	--	-	--	-	*	0
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	*	0	--	-	--	-	--	-
....CUCCONEIS	7	1	--	-	--	-	--	-	--	-
....RHOICOSPHEA	--	-	--	-	--	-	--	-	--	-
...CYMBELLACEAE										
....AMPHORA	*	0	--	-	--	-	*	0	--	-
....EPITHEMIA	7	1	--	-	--	-	--	-	--	-
...DIATOMACEAE										
....DIATOMA	--	-	*	0	*	0	*	0	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	38	2	--	-	*	0	1000	2
....FRAGILARIA	--	-	--	-	--	-	--	-	--	-
....SYNEURA	--	-	23	1	*	0	--	-	3700	9
...GOMPHONEMACEAE										
....GOMPHONEMA	--	-	--	-	*	0	*	0	--	-
...NAVICULACEAE										
....NAVICULA	56	8	15	1	*	0	*	0	--	-
...NITZSCHACEAE										
....NITZSCHIA	28	4	38	2	*	0	34	1	330	1
...SURIPELLACEAE										
....SURIPELLA	--	-	--	-	*	0	--	-	--	-
..CHRYSTOPHYCEAE										
...CHRYSONOMADALES										
....OCHROMONADACEAE										
....DINOBRYON	--	-	--	-	--	-	--	-	840	2
....OCHROMONAS	--	-	15	1	--	-	--	-	840	2
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROCOCCALES										
....CHROCOCCACEAE										
....AGMENELLUM	--	-	--	-	--	-	--	-	--	-
....ANACYSTIS	--	-	--	-	*	0	--	-	--	-
...HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	110	7	--	-	--	-	--	-
....AFANIZOMENON	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIA										
....OSCILLATORIA	280#	42	280#	17	5900#	98	4100#	89	2700	7
...CHROCOCCALES										
....CHROCOCCACEAE	--	-	--	-	--	-	--	-	--	-
...GOMPHOSPHERIA										
EUGLENOPHYTA (EUGLENOIDS)										
..CRYPTOPHYCEAE										
...CRYPTOMONIALES										
....CRYPTOCHRYSIDACEAE										
....CHROMONAS	--	-	300#	18	--	-	--	-	--	-
....CRYPTOMONADACEAE										
....CRYPTOMONAS	21	3	15	1	--	-	--	-	840	2
..EUGLENOPHYCEAE										
...EUGLENALES										
....EUGLENACEAE										
....TRACHELUMONAS	--	-	*	0	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...PERIDINIALES										
....GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	--	-	--	-
...PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
 * - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

STREAMS TRIBUTARY TO LAKE ONTARIO

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
PHYTOPLANKTON

DATE TIME	JUN 14,77 1000	JUL 20,77 1100	AUG 3,77 1000	SEP 8,77 1000
TOTAL CELLS/ML	66000	7500	13000	53000
DIVERSITY: DIVISION	1.2	1.4	1.4	1.1
..CLASS	1.2	1.4	1.4	1.1
...ORDER	1.7	1.7	2.3	2.0
...FAMILY	1.9	2.9	3.2	2.2
....GENUS	2.1	3.5	3.5	2.6

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
..CHLOROPHYCEAE								
...CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	120	2	* 0	--	--	-
...COELASTRACEAE								
....COELASTRUM	* 0		170	2	720	6	3700	7
...HYDRODICTYACEAE								
....PEDIASTRUM	* 0		810	11	--	-	--	-
...MICRACTINIACEAE								
....GULENKINIA	--	-	--	-	--	-	* 0	
...MICRACTINIUM	* 0		510	7	720	6	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	1900	3	100	1	--	-	* 0	
....CHLORELLA	--	-	--	-	--	-	--	-
....CHODATELLA	--	-	--	-	--	-	--	-
....DICTYOSPHAERIUM	* 0		510	7	990	8	* 0	
...KIRCHNERIELLA	--	-	140	2	270	2	--	-
...OOCYSTIS	1900	3	510	7	140	1	770	1
...SELENASTRUM	* 0		--	-	--	-	--	-
...TETRAEDRON	* 0		--	-	--	-	--	-
...TREVABARIA	--	-	* 0		--	-	* 0	
...SCENEDESMACEAE								
....ACTINASTRUM	--	-	140	2	--	-	--	-
...CRUCIGENIA	--	-	200	3	--	-	420	1
...SCENEDESMUS	1300	2	980	13	1900	15	2800	5
...TETRASTRUM	510	1	--	-	--	-	--	-
..TETRASPORALES								
...PALMELLACEAE								
....SPHAEROCYSTIS	2000	3	--	-	--	-	420	1
...VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	* 0		170	2	1700	13	1100	2
...PHACOTACEAE								
....PHACOTUS	* 0		--	-	--	-	--	-
...VOLVOCACEAE								
....PANDORINA	--	-	--	-	1100	8	--	-
...ZYGNEMATALES								
...DESMIDIACEAE								
...CLOSTERIUM	* 0		--	-	--	-	--	-
...CUSMARIUM	--	-	* 0		--	-	--	-

NOTE: * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PHYTOPLANKTON

DATE TIME	JUN 14, 77 1000		JUL 20, 77 1100		AUG 3, 77 1000		SEP 8, 77 1000	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHRYSOPHYTA								
..BACILLARIOPHYCEAE								
...CENTRALES								
....COSCINODISCACEAE								
.....COSCINODISCUS	*	0	--	-	--	-	--	-
....CYCLOTELLA	5500	8	100	1	590	5	770	1
....MELOSIRA	--	-	560	9	*	0	3900	7
....STEPHANODISCUS	*	0	85	1	*	0	480	1
...PENNALES								
....ACHNANTHACEAE								
.....ACHNANTHES	--	-	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	--	-
....RHODOSIPHONIA	--	-	*	0	--	-	--	-
....CYMBELLACEAE								
.....AMPHURA	--	-	--	-	--	-	--	-
.....EPITHEMIA	--	-	--	-	--	-	--	-
....DIATOMACEAE								
.....DIATOMA	--	-	--	-	--	-	--	-
....FRAGILARIACEAE								
.....ASTERIONELLA	*	0	--	-	--	-	--	-
....FRAGILARIA	*	0	--	-	--	-	--	-
....SYNEDRA	--	-	--	-	--	-	--	-
....GOMPHONEMACEAE								
.....GOMPHONEMA	--	-	--	-	--	-	--	-
....NAVICULACEAE								
.....NAVICULA	*	0	68	1	--	-	--	-
....NITZSCHACEAE								
.....NITZSCHIA	--	-	--	-	--	-	--	-
....SURIKELLACEAE								
.....SURIKELLA	--	-	*	0	--	-	--	-
CHRYSOPHYCEAE								
..CHRYSOMONADALES								
....OCHROMONADACEAE								
.....DINOBRYON	--	-	--	-	--	-	--	-
....OCHROMONAS	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
...CHROCOCCALES								
....CHROCOCCACEAE								
.....AGMENELLUM	1300	2	--	-	540	4	2400	4
....ANACYSTIS	43000#	65	2000#	27	1700	13	13000#	25
...HORMOGONIALES								
....NOSTOCACEAE								
.....ANABAENA	--	-	--	-	--	-	--	-
....APHANIZOMENON	640	1	--	-	1900	15	--	-
....OSCILLATORIA								
.....OSCILLATORIA	4500	7	--	-	--	-	23000#	43
...CHROCOCCALES								
....CHROCOCCACEAE								
.....GOMPHOSPHERIA	--	-	*	0	--	-	--	-
EUGLENOPHYTA (EUGLENIDS)								
..CRYPTOPHYCEAE								
...CRYPTOMONADALES								
....CRYPTOCHRYSIDACEAE								
.....CHROOMONAS	640	1	120	2	--	-	--	-
....CRYPTOMONADACEAE								
.....CRYPTOMONAS	770	1	--	-	--	-	--	-
..EUGLENOPHYCEAE								
...EUGLENALES								
....EUGLENACEAE								
.....TRACHELOMONAS	--	-	--	-	410	3	--	-
PYRRHOPHYTA (FINE ALGAE)								
..DINOPHYCEAE								
...PERIDINIALES								
....GLENODINIACEAE								
.....GLENODINIUM	*	0	--	-	90	1	--	-
....PERIDINIACEAE								
.....PERIDINIUM	--	-	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

STREAMS TRIBUTARY TO LAKE ONTARIO

04249000 OSWEGO RIVER AT LOCK 7 AT OSWEGO, N.Y.--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIPHYTON

Dates of exposure	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll ^a	Chlorophyll ^b	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight	(mg/m ²)	(mg/m ²)		
May 5 to June 14	41	0.314	0.236	0.012	0.122	6500	Polyethylene strip
July 20 to Sept. 8	51	.787	.551	.509	.278	464	Polyethylene strip

STREAMS TRIBUTARY TO LAKE ONTARIO

409

04249000 OSWEGO RIVER AT LOCK 7 AT OSWEGO, NY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	635	625	628	---	---	---	1000	995	998
2	---	---	---	655	650	651	---	---	---	1010	1000	1010
3	---	---	---	670	665	669	---	---	---	1020	970	996
4	---	---	---	---	---	---	---	---	---	975	935	957
5	---	---	---	---	---	---	---	---	---	950	930	935
6	---	---	---	---	---	---	---	---	---	940	935	938
7	---	---	---	---	---	---	---	---	---	940	915	925
8	---	---	---	---	---	---	---	---	---	930	925	926
9	---	---	---	---	---	---	---	---	---	950	935	943
10	---	---	---	---	---	---	935	905	922	960	955	957
11	---	---	---	---	---	---	910	900	904	975	965	972
12	---	---	---	---	---	---	905	885	899	1040	980	1020
13	---	---	---	---	---	---	905	890	899	1060	1040	1050
14	---	---	---	---	---	---	910	900	906	1100	980	1060
15	515	480	503	---	---	---	900	895	898	1080	1060	1070
16	500	490	494	---	---	---	895	890	892	1060	1050	1060
17	510	490	504	---	---	---	900	895	897	1080	1060	1070
18	510	505	510	---	---	---	915	905	910	1130	910	1100
19	525	505	516	---	---	---	935	915	919	1120	1100	1110
20	525	505	517	---	---	---	925	915	924	1130	1000	1090
21	545	525	528	---	---	---	945	925	938	1030	935	979
22	565	530	541	---	---	---	950	945	948	1060	955	984
23	550	540	543	---	---	---	955	950	951	1180	1070	1110
24	560	535	552	---	---	---	975	965	971	1180	1160	1180
25	555	520	537	---	---	---	980	965	974	1190	1180	1190
26	540	530	533	---	---	---	970	965	966	1190	1150	1180
27	545	540	543	---	---	---	980	970	978	1200	1160	1180
28	565	560	561	---	---	---	985	985	985	1240	875	1120
29	580	575	578	---	---	---	995	990	994	1200	1180	1200
30	600	590	594	---	---	---	1000	995	998	1210	1190	1200
31	615	605	608	---	---	---	1000	990	991	1220	1200	1210
MONTH	615	480	539	670	625	649	1000	885	939	1240	875	1060

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1220	1200	1200	1180	1020	1050	760	690	716	910	700	822
2	1200	1190	1200	1320	1200	1280	750	705	726	865	680	782
3	1220	955	1170	1180	915	998	705	655	675	815	650	713
4	1190	960	990	935	910	920	765	670	717	720	580	650
5	1220	960	1020	1000	920	938	745	705	724	725	630	679
6	1220	970	1030	1020	940	984	740	700	715	705	530	619
7	1230	985	1050	935	900	919	760	740	748	780	585	683
8	1260	1000	1060	925	875	895	765	745	756	820	680	740
9	1280	1020	1080	920	835	890	780	730	747	840	635	761
10	1260	1020	1060	835	720	790	780	745	765	900	800	852
11	1260	1020	1040	720	685	709	770	750	761	840	635	738
12	1040	1020	1030	760	700	736	775	755	764	910	680	812
13	1070	1040	1050	720	590	673	870	775	814	970	915	951
14	1400	1020	1120	710	560	608	975	875	937	990	915	962
15	1260	1180	1240	755	705	739	880	775	809	1020	865	949
16	1260	1240	1250	710	645	677	790	765	776	1100	855	916
17	1260	1210	1230	840	620	743	760	680	694	1210	930	1040
18	1220	1200	1210	860	800	828	700	575	645	1230	980	1070
19	1480	1150	1210	815	705	725	675	540	607	---	---	---
20	1160	1100	1130	775	720	754	700	645	678	1380	770	929
21	1100	995	1050	760	695	722	740	620	688	1020	840	945
22	1020	980	991	775	685	736	725	625	675	1260	980	1130
23	1100	1020	1080	735	730	733	710	575	658	---	---	---
24	1160	1100	1110	775	730	759	785	585	709	---	---	---
25	1400	1160	1300	810	755	775	930	775	830	---	---	---
26	1380	1220	1280	810	745	774	955	860	912	---	---	---
27	1260	1200	1230	790	755	773	880	725	797	---	---	---
28	1260	1060	1160	770	700	739	765	675	723	1410	990	1080
29	---	---	---	710	650	687	790	665	702	---	---	---
30	---	---	---	665	635	649	860	785	813	---	---	---
31	---	---	---	690	660	673	---	---	---	---	---	---
MONTH	1480	955	1130	1320	560	802	975	540	743	1410	530	856

STREAMS TRIBUTARY TO LAKE ONTARIO

04249000 OSWEGO RIVER AT LOCK 7 AT OSWEGO, NY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	1070	875	930	1020	870	975	---	---	---	1160	965	1030
2	1120	980	1020	925	865	889	---	---	---	1080	920	976
3	1310	900	1100	945	915	925	---	---	---	---	---	---
4	1280	1110	1140	1240	810	940	---	---	---	---	---	---
5	1360	1150	1200	1130	810	950	---	---	---	1260	1030	1060
6	1330	1100	1160	---	---	---	---	---	---	---	---	---
7	1240	765	930	---	---	---	1540	1180	1320	---	---	---
8	---	---	---	---	---	---	---	---	---	1560	1140	1220
9	---	---	---	1060	765	857	1120	955	1020	1540	1000	1240
10	---	---	---	1260	880	995	1190	1100	1160	---	---	---
11	885	760	791	---	---	---	1180	920	1040	---	---	---
12	990	800	910	---	---	---	940	905	928	1010	855	943
13	---	---	---	1420	1020	1120	955	885	921	1140	910	986
14	---	---	---	1020	970	990	955	725	839	1120	895	1020
15	1510	1060	1130	1020	960	990	755	710	729	1180	895	1050
16	---	---	---	970	795	906	1020	745	795	1400	1060	1140
17	---	---	---	815	700	765	1110	800	861	1190	1080	1140
18	---	---	---	1050	820	930	---	---	---	1100	915	986
19	---	---	---	1080	815	930	---	---	---	1110	820	993
20	---	---	---	1040	775	766	---	---	---	970	870	942
21	---	---	---	930	650	740	---	---	---	955	785	872
22	---	---	---	---	---	---	---	---	---	780	675	731
23	---	---	---	---	---	---	---	---	---	720	690	708
24	---	---	---	---	---	---	---	---	---	690	660	678
25	---	---	---	---	---	---	---	---	---	705	670	684
26	1580	1130	1340	---	---	---	---	---	---	700	680	689
27	1510	980	1220	---	---	---	---	---	---	740	705	722
28	---	---	---	---	---	---	---	---	---	755	735	743
29	1220	875	985	---	---	---	1250	1060	1190	755	740	749
30	1220	915	975	---	---	---	1320	1160	1210	735	715	720
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	1580	760	1060	1420	650	917	1540	710	1000	1560	660	918

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	16.0	14.5	15.5	6.5	6.0	6.5	---	---	---	---	---	---
2	16.0	15.5	16.0	6.0	6.0	6.0	---	---	---	---	---	---
3	16.5	15.5	16.0	6.5	6.0	6.0	---	---	---	---	---	---
4	16.5	15.5	16.0	---	---	---	---	---	---	---	---	---
5	16.5	15.5	16.0	---	---	---	---	---	---	---	---	---
6	17.0	16.0	16.5	---	---	---	---	---	---	---	---	---
7	16.5	16.0	16.0	---	---	---	---	---	---	---	---	---
8	16.0	15.5	16.0	---	---	---	---	---	---	---	---	---
9	15.5	14.5	15.0	---	---	---	---	---	---	---	---	---
10	14.5	13.0	14.0	---	---	---	---	---	---	---	---	---
11	13.0	12.5	13.0	---	---	---	---	---	---	---	---	---
12	12.5	12.5	12.5	---	---	---	---	---	---	---	---	---
13	12.5	12.5	12.5	---	---	---	---	---	---	---	---	---
14	12.5	12.0	12.0	---	---	---	---	---	---	---	---	---
15	12.0	11.5	12.0	---	---	---	---	---	---	---	---	---
16	12.0	11.5	11.5	---	---	---	---	---	---	---	---	---
17	11.5	11.0	11.0	---	---	---	---	---	---	---	---	---
18	11.0	10.0	10.5	---	---	---	---	---	---	---	---	---
19	10.0	10.0	10.0	---	---	---	---	---	---	---	---	---
20	10.0	10.0	10.0	---	---	---	---	---	---	---	---	---
21	10.0	9.5	9.5	---	---	---	---	---	---	---	---	---
22	9.5	9.0	9.0	---	---	---	---	---	---	---	---	---
23	9.0	8.0	8.5	---	---	---	---	---	---	---	---	---
24	8.0	7.5	7.5	---	---	---	---	---	---	---	---	---
25	7.5	7.5	7.5	---	---	---	---	---	---	---	---	---
26	7.5	7.0	7.0	---	---	---	---	---	---	---	---	---
27	7.0	6.5	7.0	---	---	---	---	---	---	---	---	---
28	6.5	6.5	6.5	---	---	---	---	---	---	---	---	---
29	6.5	6.5	6.5	---	---	---	---	---	---	---	---	---
30	6.5	6.5	6.5	---	---	---	---	---	---	---	---	---
31	7.0	6.5	7.0	---	---	---	---	---	---	---	---	---
MONTH	17.0	6.5	11.5	6.5	6.0	6.0	---	---	---	---	---	---

STREAMS TRIBUTARY TO LAKE ONTARIO

411

04249000 OSWEGO RIVER AT LOCK 7 AT OSWEGO, NY--Continued

TEMPERATURE(DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	0.0	0.0	0.0	6.0	5.5	6.0	11.0	10.0	10.5
2	---	---	---	0.5	0.0	0.0	5.5	5.0	5.0	12.0	11.0	11.5
3	---	---	---	0.5	0.0	0.5	6.0	5.5	5.5	12.0	11.0	11.5
4	---	---	---	1.0	0.5	0.5	6.0	5.0	5.5	12.0	11.5	12.0
5	---	---	---	0.5	0.5	0.5	5.0	4.5	4.5	12.0	12.0	12.0
6	---	---	---	0.5	0.5	0.5	4.5	4.0	4.5	13.0	12.0	12.5
7	---	---	---	1.0	0.5	0.5	4.5	3.5	4.0	13.0	12.5	13.0
8	---	---	---	1.0	0.5	1.0	4.5	3.5	3.5	13.0	12.5	13.0
9	---	---	---	1.5	1.0	1.5	3.5	3.0	3.0	12.5	11.0	11.5
10	---	---	---	2.0	1.5	2.0	4.0	3.0	3.5	11.0	10.5	11.0
11	---	---	---	2.5	1.5	2.0	5.0	3.5	4.0	12.0	11.0	11.5
12	---	---	---	3.0	2.0	2.5	6.5	5.0	6.0	13.0	11.5	12.0
13	---	---	---	3.0	3.0	3.0	7.5	6.5	7.0	13.0	12.5	12.5
14	---	---	---	3.5	3.0	3.0	8.0	7.5	7.5	13.5	12.5	13.0
15	---	---	---	3.5	3.0	3.5	8.5	8.0	8.0	14.0	13.0	13.5
16	---	---	---	4.0	3.5	4.0	9.0	8.0	8.5	14.5	13.0	14.0
17	---	---	---	4.0	3.5	3.5	9.0	8.0	8.5	16.0	14.0	15.0
18	---	---	---	3.5	2.5	3.0	9.0	8.0	8.5	16.0	14.5	15.5
19	---	---	---	2.5	2.0	2.5	10.0	9.0	9.5	---	---	---
20	---	---	---	2.5	2.0	2.5	11.0	10.5	10.5	18.0	15.5	17.0
21	---	---	---	3.0	2.0	2.5	12.0	11.0	11.5	18.5	16.5	18.0
22	0.0	0.0	0.0	3.0	2.0	2.5	12.5	12.0	12.5	20.5	17.5	19.0
23	0.0	0.0	0.0	2.0	1.5	1.5	12.5	12.0	12.5	---	---	---
24	0.0	0.0	0.0	1.5	1.0	1.5	12.5	12.0	12.0	---	---	---
25	0.0	0.0	0.0	1.5	1.0	1.0	12.0	10.5	11.0	---	---	---
26	0.0	0.0	0.0	2.0	1.0	1.5	10.5	10.5	10.5	---	---	---
27	0.0	0.0	0.0	2.5	1.5	2.0	11.0	10.5	10.5	---	---	---
28	0.0	0.0	0.0	3.0	2.5	2.5	11.0	10.5	11.0	22.0	20.0	20.5
29	---	---	---	4.0	3.0	3.5	10.5	10.0	10.0	---	---	---
30	---	---	---	6.5	4.0	5.0	10.5	9.5	10.0	---	---	---
31	---	---	---	6.5	5.0	6.5	---	---	---	---	---	---
MONTH	0.0	0.0	0.0	6.5	0.0	2.0	12.5	3.0	8.0	22.0	10.0	13.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	22.0	20.5	21.0	24.0	22.5	23.0	---	---	---	---	---	---
2	21.0	19.0	20.5	23.5	22.5	23.0	---	---	---	---	---	---
3	20.5	19.0	19.5	23.5	22.0	23.0	---	---	---	---	---	---
4	21.0	18.5	19.5	24.0	22.5	23.5	---	---	---	---	---	---
5	21.0	19.0	20.0	25.0	23.0	24.0	---	---	---	---	---	---
6	20.0	19.0	19.5	---	---	---	---	---	---	---	---	---
7	19.5	17.5	18.5	---	---	---	25.0	24.0	24.5	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	24.5	22.5	23.5	25.0	24.0	24.5	---	---	---
10	---	---	---	24.5	22.5	23.5	24.5	24.0	24.0	---	---	---
11	18.5	16.0	17.0	---	---	---	25.0	23.5	24.0	---	---	---
12	17.0	16.5	17.0	---	---	---	24.5	23.5	24.0	---	---	---
13	---	---	---	25.0	22.5	24.0	24.5	23.5	24.0	---	---	---
14	---	---	---	25.0	24.0	24.5	24.0	23.0	23.5	---	---	---
15	20.0	18.5	19.0	25.5	24.5	25.0	23.5	22.5	23.0	---	---	---
16	---	---	---	26.5	25.5	26.0	23.0	21.5	22.5	---	---	---
17	---	---	---	26.5	26.0	26.5	23.0	21.5	22.0	---	---	---
18	---	---	---	27.5	26.5	27.0	---	---	---	---	---	---
19	---	---	---	28.0	27.0	27.5	---	---	---	---	---	---
20	---	---	---	27.5	27.0	27.5	---	---	---	---	---	---
21	---	---	---	28.0	25.5	27.0	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	22.5	21.0	22.0	---	---	---	---	---	---	---	---	---
27	23.0	21.0	22.0	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	24.0	22.0	23.0	---	---	---	21.5	20.5	21.0	---	---	---
30	23.5	21.5	22.5	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	24.0	16.0	20.0	28.0	22.0	25.0	25.0	20.5	23.5	---	---	---

LAKE ONTARIO

04249010 LAKE ONTARIO AT OSWEGO, NY

LOCATION.--Lat 43°27'51", long 76°30'42", Oswego County, Hydrologic Unit 04150200, in southwest corner of Port of Oswego Authority building at mouth of Oswego River at Oswego.

DRAINAGE AREA.--295,800 mi² (766,100 km²).

PERIOD OF RECORD.--January 1860 to current year. Data prior to October 1960 in files of Lake Survey Center.

GAGE.--Water-stage recorder. Elevations are in feet above mean sea level at Father Point, Quebec, International Great Lakes Datum (1955). Prior to Jan. 1, 1933, nonrecording gages.

COOPERATION.--Records furnished by U.S. Department of Commerce, NOAA-NOS, Lake Survey Center, Detroit, Mich.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 248.96 ft (75.883 m) June 6, 1952; minimum observed, 240.94 ft (73.438 m) Dec. 23, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 245.78 ft (74.914 m) Oct. 15; minimum, 243.43 ft (74.197 m) Feb. 27.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	245.25	244.91	244.06	244.19	244.04	243.86	244.87	245.24	245.02	245.03	245.05	245.02
2	245.23	244.77	244.23	244.09	243.79	243.84	244.74	245.32	245.07	245.06	245.05	245.05
3	245.22	244.76	244.11	244.01	243.85	243.75	245.01	245.29	245.08	245.00	245.02	245.06
4	245.14	244.75	244.01	244.05	243.82	243.69	244.81	245.26	245.04	245.01	245.01	245.03
5	245.07	244.77	244.10	244.02	243.92	243.87	245.01	245.26	245.07	245.02	245.04	245.05
6	245.03	244.81	243.93	243.92	243.96	243.90	245.19	245.29	245.08	245.02	245.12	245.01
7	245.13	244.79	244.17	244.10	243.88	243.93	245.03	245.30	245.08	245.05	245.10	244.95
8	245.07	244.79	244.15	243.98	243.76	243.92	245.27	245.33	245.01	245.10	245.12	244.88
9	245.20	244.64	244.12	243.98	243.72	243.89	245.10	245.39	245.01	245.11	245.10	244.78
10	245.22	244.73	244.04	243.98	243.71	243.95	245.02	245.32	245.01	245.08	245.05	244.96
11	245.12	244.69	244.18	244.33	243.70	244.00	245.02	245.27	244.99	245.02	245.11	244.90
12	245.02	244.66	244.13	244.12	243.69	243.98	245.05	245.26	244.99	245.03	245.14	244.84
13	245.09	244.72	244.22	243.99	243.76	244.11	245.08	245.28	244.95	245.12	245.12	244.79
14	245.26	244.64	244.01	243.93	243.81	244.25	245.10	245.24	244.93	245.14	245.24	245.02
15	245.11	244.51	244.05	244.04	243.83	244.27	245.09	245.22	244.93	245.13	245.19	244.86
16	245.17	244.51	244.02	244.09	243.81	244.46	245.09	245.20	244.90	245.14	245.13	244.80
17	245.07	244.43	244.14	244.11	243.76	244.51	245.06	245.20	244.88	245.14	245.31	244.88
18	245.05	244.51	244.12	244.12	243.67	244.42	245.05	245.18	244.91	245.16	245.32	244.87
19	244.90	244.51	243.98	244.07	243.72	244.51	245.05	245.21	244.94	245.14	245.19	244.84
20	244.89	244.48	244.11	244.06	243.77	244.46	245.01	245.18	244.94	245.13	245.24	244.85
21	245.14	244.43	244.37	244.01	243.79	244.58	245.03	245.17	245.02	245.23	245.08	244.88
22	245.18	244.57	244.09	244.03	243.69	244.05	245.07	245.13	244.98	245.18	245.19	244.88
23	245.07	244.55	244.04	243.90	243.61	244.77	245.17	245.15	244.96	245.16	245.15	244.85
24	244.88	244.27	244.10	243.85	243.56	244.86	245.24	245.15	244.93	245.04	245.20	244.72
25	244.98	244.19	243.98	243.93	243.75	244.80	245.26	245.15	244.94	245.18	245.18	244.75
26	244.97	244.13	244.05	243.92	243.75	244.70	245.24	245.13	244.99	245.19	245.07	244.90
27	244.93	244.22	244.11	244.04	243.69	244.06	245.18	245.13	244.96	245.09	245.05	245.02
28	244.97	244.23	243.97	243.94	243.83	244.62	245.35	245.14	244.93	245.01	245.03	245.08
29	244.90	244.32	244.11	244.07	---	244.70	245.32	245.10	245.02	244.98	245.03	245.09
30	244.78	244.17	244.15	244.04	---	244.76	245.26	245.05	244.97	245.03	245.07	245.07
31	244.88	---	244.21	243.97	---	244.91	---	245.00	---	244.97	245.03	---
MEAN	245.06	244.55	244.10	244.03	243.77	244.31	245.09	245.21	244.98	245.09	245.12	244.92
MAX	245.26	244.91	244.37	244.33	244.04	244.91	245.35	245.39	245.08	245.23	245.32	245.09
MIN	244.78	244.13	243.93	243.85	243.56	243.69	244.74	245.00	244.88	244.97	245.01	244.72
CAL YR 1976	MEAN 245.72		MAX 247.52	MIN 243.93								
WTR YR 1977	MEAN 244.69		MAX 245.39	MIN 243.56								

STREAMS TRIBUTARY TO LAKE ONTARIO

413

04250750 SANDY CREEK NEAR ADAMS, NY

LOCATION.--Lat 43°48'48", long 76°04'30", Jefferson County, Hydrologic Unit 04140102, on left bank 250 ft (76 m) upstream from highway bridge on Liberty Street, 0.2 mi (0.3 km) downstream from tributary, 2.5 mi (4.0 km) downstream from Adams, and 10.0 mi (16.1 km) upstream from mouth.

DRAINAGE AREA.--128 mi² (332 km²).

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 523.71 ft (159.627 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Moderate diurnal fluctuation at low flow caused by mills above station.

AVERAGE DISCHARGE.--20 years, 264 ft³/s (7.476 m³/s), 28.01 in/yr (711 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,800 ft³/s (334 m³/s) Apr. 4, 1963, gage height, 11.01 ft (3.356 m), from rating curve extended above 5,500 ft³/s (156 m³/s) on basis of slope-area measurement of peak flow; minimum, 1.5 ft³/s (0.042 m³/s) Sept. 17, 18, 1963, Aug. 19, 1964; minimum daily, 2.2 ft³/s (0.062 m³/s) Sept. 7, 11, 1960, Sept. 17, 1963, Aug. 16, Sept. 22, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 13	1800	*10,300 292	*10.69 3.258	Mar. 29	2030	4,300 122	7.81 2.380

Minimum discharge, 6.1 ft³/s (0.17 m³/s) July 29, gage height, 0.89 ft (0.271 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	235	728	339	160	110	320	1800	213	46	25	22	40
2	198	420	320	150	110	310	1190	246	74	23	23	39
3	173	378	210	150	110	310	1630	249	65	19	18	49
4	151	327	210	140	110	310	1190	195	52	16	15	49
5	132	283	210	140	110	657	1060	173	42	15	18	55
6	116	253	260	130	110	791	920	173	36	14	249	105
7	110	234	745	120	110	723	589	146	33	14	223	63
8	204	227	891	120	110	628	470	132	35	21	69	45
9	787	204	595	110	110	666	392	181	36	27	39	36
10	1640	201	508	110	110	1340	401	236	32	21	26	30
11	920	196	330	110	110	1890	607	167	29	16	29	25
12	623	167	300	100	110	2780	1390	134	27	15	31	24
13	458	171	270	100	120	7190	1360	116	27	17	28	30
14	484	169	250	100	130	5980	1520	105	25	16	53	1090
15	387	170	240	100	160	3960	823	96	24	13	99	415
16	316	162	220	100	180	2980	576	88	21	12	49	217
17	263	156	210	100	170	2130	456	81	21	11	1380	845
18	226	157	210	100	170	1320	415	88	23	10	495	442
19	198	178	208	100	160	948	388	112	39	9.5	236	296
20	198	190	367	100	150	772	383	92	37	9.0	134	537
21	1650	146	799	100	160	657	353	77	32	7.9	99	475
22	1310	130	487	100	180	582	537	68	29	7.6	293	328
23	1260	128	388	110	210	424	1620	59	25	7.6	223	260
24	1030	119	319	110	220	415	1410	53	21	7.3	187	207
25	1100	122	240	110	260	379	1110	50	23	7.9	198	189
26	815	325	220	110	340	357	717	46	26	7.9	116	201
27	549	1850	200	110	390	332	485	42	23	7.6	81	246
28	430	1280	190	110	350	703	366	41	20	7.1	65	876
29	398	700	180	110	---	2800	293	57	25	6.8	55	1050
30	472	394	170	110	---	3420	246	50	30	11	49	452
31	762	---	160	110	---	3390	---	41	---	16	45	---
TOTAL	17595	10165	10246	3530	4670	49464	24697	3607	978	418.2	4647	8716
MEAN	568	339	331	114	167	1596	823	116	32.6	13.5	150	291
MAX	1650	1850	891	160	390	7190	1800	249	74	27	1380	1090
MIN	110	119	160	100	110	310	246	41	20	6.8	15	24
CFSM	4.44	2.65	2.59	.89	1.30	12.5	6.43	.91	.25	.11	1.17	2.27
IN	5.11	2.95	2.98	1.03	1.36	14.38	7.18	1.05	.28	.12	1.35	2.53
CAL YR 1976 TOTAL	163998.0			MEAN 448	MAX 6450	MIN 42	CFSM 3.50	IN 47.66				
WTR YR 1977 TOTAL	138733.2			MEAN 380	MAX 7190	MIN 6.8	CFSM 2.97	IN 40.32				

STREAMS TRIBUTARY TO LAKE ONTARIO

04252000 BLACK RIVER CANAL (FLOWING SOUTH) NEAR BOONVILLE, NY

LOCATION.--Lat 43°27'21", long 75°19'27", Oneida County, Hydrologic Unit 04150101, on left bank at former lock 69, 200 ft (61 m) downstream from bridge on State Highway 46, and 2.0 mi (3.2 km) south of Boonville.

PERIOD OF RECORD.--September 1915 to current year (canal seasons only prior to October 1942 and since October 1957).

REVISED RECORDS.--WRD NY 1974: 1973.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,105.56 ft (336.975 m) above mean sea level. Prior to June 7, 1929, station was operated as a slope station on summit level of canal. Auxiliary water-stage recorder with concrete control on right bank of Lansing Kill spillway, 100 ft (30 m) downstream from spillway and headgate, 600 ft (183 m) upstream from lock 70, and 0.3 mi (0.5 km) upstream from lock 69.

REMARKS.--Records poor. This record shows combined flow in Black River Canal and Lansing Kill spillway, and represents total diversion from Black River at Forestport, through Forestport feeder, into Mohawk River basin. Discharge during periods when no water was diverted, made up of leakage through headgates and runoff from area draining into canal above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge recorded, 323 ft³/s (9.15 m³/s) Nov. 1915; practically no flow at times when no water is being diverted.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	2.4					---	1.1	5.2	34	7.7	17
2	8.9	2.0					---	1.1	14	33	7.0	16
3	8.3	1.9					---	1.2	7.1	32	5.8	15
4	7.4	1.9					---	1.1	5.1	31	4.7	13
5	7.1	1.9					---	1.3	3.3	30	20	12
6	6.7	1.8					---	1.3	2.6	40	30	12
7	5.9	1.8					---	1.2	2.2	45	31	12
8	22	1.8					---	1.2	1.9	60	32	11
9	71	1.8					---	1.3	25	66	33	10
10	73	1.8					---	1.2	31	63	33	10
11	39	1.8					---	1.4	30	62	43	9.6
12	28	1.8					---	1.3	30	65	40	9.3
13	23	1.8					---	1.2	30	87	38	11
14	27	1.8					---	1.8	30	55	43	29
15	30	1.8					---	2.2	30	25	44	26
16	28	1.8					---	2.2	30	12	33	20
17	24	1.7					---	2.2	29	8.1	32	32
18	19	1.8					---	17	30	6.6	31	32
19	16	1.8					---	3.6	32	5.5	30	41
20	16	1.9					---	1.3	2.5	31	4.7	65
21	83	1.7					---	1.1	3.0	32	4.2	60
22	40	1.7					---	1.1	3.0	32	3.8	38
23	4.6	1.8					---	1.4	3.0	32	3.5	30
24	3.0	1.7					---	2.2	3.3	32	3.5	25
25	3.5	1.7					---	1.3	3.6	31	3.5	24
26	2.2	1.7					---	1.2	3.5	33	3.5	37
27	2.1	2.1					---	1.2	3.3	34	3.1	46
28	2.1	2.4					---	1.2	3.1	32	2.7	34
29	2.0	1.8					---	1.1	3.1	32	2.7	32
30	2.1	1.7					---	1.1	2.9	34	9.5	26
31	2.9	---					---	2.8	---	10	21	---
TOTAL	617.8	55.4	---	---			---	82.0	723.4	814.9	869.2	754.9
MEAN	19.9	1.85	---	---			---	2.65	24.1	26.3	28.0	25.2
MAX	83	2.4	---	---			---	17	34	87	44	65
MIN	2.0	1.7	---	---			---	1.1	1.9	2.7	4.7	9.3

STREAMS TRIBUTARY TO LAKE ONTARIO

415

04252500 BLACK RIVER NEAR BOONVILLE, NY

LOCATION.--Lat 43°30'42", long 75°18'25", Oneida County, Hydrologic Unit 04150101, on left bank at downstream side of bridge on Moose River Road, 0.8 mi (1.3 km) upstream from Sugar River, and 2 mi (3 km) northeast of Boonville.

DRAINAGE AREA.--295 mi² (764 km²).

PERIOD OF RECORD.--January 1911 to current year.

REVISED RECORDS.--WSP 759: Drainage area. WSP 784: 1934. WSP 1084: 1912(M), 1913, 1917-1919(M), 1922(M), 1924(M), 1926(M), 1928(M), 1930(M), 1933(M). WSP 1307: 1914(M).

GAGE.--Water-stage recorder. Datum of gage is 935.50 ft (285.140 m) above mean sea level. Prior to Sept. 27, 1933, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Occasional regulation by several headwater reservoirs. Forestport feeder diverts water from State Pond at Forestport 9 mi (14 km) upstream. That portion of diverted water which does not pass Black River Canal (flowing south), see station 04252000, returns to Black River below station through Mill Creek sluiceway. Slight diurnal fluctuation at medium and low flow caused by mill above station.

AVERAGE DISCHARGE.--66 years, 696 ft³/s (19.71 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,400 ft³/s (351 m³/s) Mar. 28, 1913, gage height, about 12.5 ft (3.81 m), from floodmarks; minimum observed, about 5 ft³/s (0.14 m³/s) Aug. 26, 1918, gage height, 2.40 ft (0.732 m); minimum daily, 7 ft³/s (0.20 m³/s) Aug. 26, 1918.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,900 ft³/s (110 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 10	1625	4,950 140	8.82 2.688	Mar. 31	2100	5,640 160	9.09 2.771
Mar. 6	1330	ice jam	9.66 2.944	Apr. 14	2015	4,110 116	8.45 2.576
Mar. 15	0330	*9,740 276	*10.25 3.124	Apr. 24	2345	5,500 156	9.04 2.755

Minimum discharge, 173 ft³/s (4.90 m³/s) July 8, gage height, 4.01 ft (1.222 m); minimum daily, 178 ft³/s (5.04 m³/s) July 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	470	2640	650	450	370	540	4780	922	372	340	342	468
2	434	1890	560	450	380	540	3200	888	841	298	433	431
3	408	1320	470	470	390	580	2840	982	732	237	411	408
4	343	1150	500	470	380	500	3040	854	475	214	294	390
5	366	1090	600	470	380	1500	2490	732	384	207	273	365
6	354	1010	620	420	350	1500	2400	745	342	187	672	432
7	326	936	900	420	350	1500	1960	695	330	178	795	363
8	700	914	1700	400	370	1500	1550	634	316	238	592	283
9	2090	826	1600	400	380	1100	1210	720	316	302	480	257
10	4540	777	1300	340	400	1100	1150	821	327	258	411	230
11	2970	752	1100	370	400	1500	1160	795	338	218	908	217
12	1550	680	1000	400	390	1510	1510	714	309	237	874	215
13	955	681	840	430	400	2880	2660	629	287	1260	757	242
14	846	654	660	430	420	7490	3700	557	273	1170	948	726
15	1060	633	620	400	420	8750	3400	508	287	598	1670	1090
16	926	620	600	420	400	5960	2560	480	273	415	929	698
17	850	602	560	380	380	4020	2100	457	245	359	634	1230
18	747	577	560	370	380	2540	1830	461	266	305	542	1670
19	674	601	500	350	400	2100	1700	503	350	266	420	1900
20	642	617	540	370	390	1500	1620	471	330	240	291	2250
21	1930	540	720	410	400	1300	1520	433	342	227	253	2800
22	3410	540	660	370	370	1100	1400	402	323	240	389	2080
23	2450	540	600	350	390	940	2080	420	280	240	581	1450
24	1950	540	560	350	450	940	4500	433	245	217	727	931
25	1820	540	520	370	700	940	4900	363	266	214	1300	752
26	1830	560	490	370	740	790	3290	342	513	211	948	973
27	1540	842	490	400	740	740	2360	327	457	198	638	2390
28	1220	1290	450	350	640	541	1630	320	330	195	452	2250
29	994	1240	440	340	---	1580	1310	346	313	187	371	1990
30	911	800	440	340	---	2590	1060	334	452	424	531	1700
31	1410	---	440	350	---	4500	---	316	---	461	605	---
TOTAL	40796	26472	21700	12320	12180	65221	70910	17605	10914	10381	19471	31181
MEAN	1316	882	700	397	435	2104	2364	568	364	335	628	1039
MAX	4540	2690	1700	470	740	8760	4900	982	841	1260	1670	2800
MIN	326	540	440	340	350	540	1060	316	245	178	253	215
CAL YR 1976 TOTAL	403792		MEAN	1103	MAX	8760	MIN	242				
WTR YR 1977 TOTAL	339151		MEAN	929	MAX	8760	MIN	178				

STREAMS TRIBUTARY TO LAKE ONTARIO

04256000 INDEPENDENCE RIVER AT DONNATTSBURG, NY

LOCATION.--Lat 43°44'50", long 75°20'05", Lewis County, Hydrologic Unit 04150101, on right bank at downstream side of highway bridge on Donnattsburg Road at Donnattsburg, 1.2 mi (1.9 km) downstream from Chase Lake Outlet, 4.2 mi (6.8 km) northeast of Glenfield, and 5.0 mi (8.0 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--91.7 mi² (238 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 972.84 ft (296.522 m) above mean sea level. Prior to Sept. 16, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--35 years, 190 ft³/s (5.381 m³/s), 28.14 in/yr (715 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,450 ft³/s (97.7 m³/s) May 20, 1969, gage height, 8.72 ft (2.658 m) from rating curve extended above 2,000 ft³/s (56.6 m³/s); minimum observed, 18 ft³/s (0.51 m³/s) Sept. 17, 1948, Aug. 4, 5, 1949, gage height, 2.85 ft (0.869 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s (34 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 10	1300	1,930 54.7	7.02 2.140	Apr. 14	1630	1,350 38.2	6.24 1.902
Mar. 14	2330	*3,170 89.8	*8.45 2.576	Apr. 24	2130	1,650 46.7	6.64 2.024
Mar. 31	1330	1,870 53.0	6.94 2.115				

Minimum discharge, 43 ft³/s (1.22 m³/s) July 29, gage height, 3.17 ft (0.966 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	463	190	120	88	140	1310	212	90	101	107	139
2	140	387	160	130	90	130	818	201	267	77	85	121
3	123	277	110	120	88	130	648	215	305	66	74	158
4	113	233	120	110	84	120	720	190	206	61	65	156
5	104	210	140	110	80	140	609	172	148	56	65	127
6	99	191	150	110	80	170	614	169	121	53	93	123
7	95	181	190	100	84	160	504	158	110	53	236	110
8	196	171	300	100	90	150	398	144	108	57	198	95
9	798	152	540	94	90	150	302	172	108	59	127	83
10	1750	149	560	90	90	180	281	212	108	56	101	75
11	997	140	450	88	84	290	281	218	108	52	105	68
12	498	123	330	90	78	390	460	193	108	51	127	62
13	342	129	220	100	74	882	1000	161	107	60	130	63
14	277	127	160	110	74	2350	1200	139	107	177	156	221
15	242	123	150	100	72	2540	876	125	121	113	277	518
16	219	119	140	96	70	1630	560	115	115	85	195	298
17	193	113	130	90	70	1030	426	105	107	78	435	339
18	171	113	120	88	68	688	363	107	107	72	580	430
19	156	113	120	90	70	537	328	123	121	63	277	305
20	149	115	120	98	66	406	305	130	119	58	166	305
21	538	108	170	98	64	335	288	113	125	59	123	500
22	1020	106	160	90	62	288	274	101	83	90	148	414
23	635	106	140	84	62	248	527	90	75	71	284	295
24	414	106	130	80	62	251	1310	85	68	58	277	230
25	395	104	120	88	100	236	1220	121	63	52	418	193
26	422	111	120	98	120	224	704	121	78	49	284	195
27	357	191	120	96	140	209	469	95	83	48	180	305
28	274	364	110	90	140	230	351	85	69	46	134	335
29	230	330	110	80	---	614	284	92	70	44	119	383
30	213	210	110	80	---	1290	239	90	117	88	195	331
31	245	---	110	86	---	1780	---	80	---	136	195	---
TOTAL	11571	5365	5800	3004	2340	17918	17669	4334	3522	2189	5956	6977
MEAN	373	179	187	96.9	83.6	578	589	140	117	70.6	192	233
MAX	1750	463	560	130	140	2540	1310	218	305	177	580	518
MIN	95	104	110	80	62	120	239	80	63	44	65	62
CFSM	4.07	1.95	2.04	1.06	.91	6.30	6.42	1.53	1.28	.77	2.09	2.54
IN.	4.69	2.18	2.35	1.22	.95	7.27	7.17	1.76	1.43	.89	2.42	2.83

CAL YR 1976 TOTAL 100309 MEAN 274 MAX 1900 MIN 65 CFSM 2.99 IN 40.69
WTR YR 1977 TOTAL 86645 MEAN 237 MAX 2540 MIN 44 CFSM 2.58 IN 35.15

STREAMS TRIBUTARY TO LAKE ONTARIO

417

04256000 INDEPENDENCE RIVER AT DONNATTSBURG, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960-61, 1964 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1959 to September 1961, October 1963 to current year.

INSTRUMENTATION.--Temperature recorder since October 1959.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1960-61, 1964-69, 1971-77), 26.5°C July 24, 1961 and Aug. 1, 2, 1975; minimum, freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 26.0°C July 20; minimum, freezing point Feb. 27, 28.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11.0	9.5	4.0	2.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5
2	11.5	10.0	2.0	1.5	1.0	0.5	1.0	0.5	0.5	0.5	1.0	0.5
3	11.5	10.0	3.5	2.0	2.0	1.0	1.0	0.5	0.5	0.5	1.0	0.5
4	11.5	9.5	4.0	3.5	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5
5	11.5	10.0	3.5	3.0	1.0	0.5	1.5	0.5	0.5	0.5	0.5	0.5
6	12.0	11.0	3.0	3.0	1.5	0.5	1.0	0.5	0.5	0.5	0.5	0.5
7	12.0	11.5	3.0	3.0	1.0	0.5	1.0	0.5	0.5	0.5	0.5	0.5
8	11.5	10.0	3.0	1.5	1.0	0.5	0.5	0.5	0.5	0.5	1.0	0.5
9	10.0	9.0	1.5	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.0	0.5
10	9.0	6.5	1.5	1.0	1.0	0.5	0.5	0.5	0.5	0.5	2.0	0.5
11	6.5	6.0	1.5	1.0	1.5	0.5	0.5	0.5	0.5	0.5	1.5	0.5
12	6.5	5.5	1.5	1.0	1.5	0.5	0.5	0.5	0.5	0.5	2.0	0.5
13	8.0	6.5	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.0	0.5
14	8.0	7.0	1.5	1.0	1.0	0.5	1.0	0.5	0.5	0.5	0.5	0.5
15	7.0	6.0	2.0	1.5	1.5	0.5	1.0	0.5	0.5	0.5	0.5	0.5
16	6.5	6.5	2.0	1.5	1.5	0.5	1.0	1.0	1.0	0.5	0.5	0.5
17	6.5	5.5	2.0	1.5	1.0	0.5	1.0	1.0	1.0	0.5	0.5	0.5
18	5.5	4.5	2.0	1.5	0.5	0.5	1.0	1.0	1.0	0.5	0.5	0.5
19	4.5	3.5	3.0	1.5	1.0	0.5	1.0	0.5	0.5	0.5	1.0	0.5
20	5.5	4.5	2.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
21	5.5	5.0	1.0	1.0	0.5	0.5	1.0	0.5	0.5	0.5	2.0	0.5
22	5.0	4.5	1.0	1.0	0.5	0.5	1.0	0.5	1.0	0.5	1.5	0.5
23	4.5	4.0	1.0	0.5	1.5	0.5	1.0	1.0	1.0	0.5	0.5	0.5
24	4.5	4.0	1.0	0.5	1.0	0.5	1.0	0.5	0.5	0.5	0.5	0.5
25	4.0	4.0	1.0	0.5	1.5	0.5	1.0	0.5	0.5	0.5	1.5	0.5
26	4.0	3.5	1.5	0.5	0.5	0.5	1.0	0.5	0.5	0.5	3.0	1.0
27	3.5	3.0	3.0	1.5	0.5	0.5	0.5	0.5	0.5	0.0	3.5	1.0
28	3.0	2.0	2.0	1.0	1.0	0.5	0.5	0.5	0.5	0.0	4.5	2.0
29	3.0	2.0	1.0	0.5	1.0	0.5	1.0	0.5	---	---	4.5	3.0
30	4.0	3.0	1.5	0.5	1.0	1.0	1.0	0.5	---	---	4.0	1.5
31	4.0	4.0	---	---	1.0	1.0	0.5	0.5	---	---	3.5	1.5
MONTH	12.0	2.0	4.0	0.5	2.0	0.5	1.5	0.5	1.0	0.0	4.5	0.5

STREAMS TRIBUTARY TO LAKE ONTARIO

04256000 INDEPENDENCE RIVER AT DONNATTSBURG, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.0	1.0	13.0	9.0	19.0	16.5	21.5	19.5	21.0	20.5	21.0	20.0
2	3.0	2.0	13.0	11.5	16.5	15.0	21.0	18.5	21.5	19.0	21.0	20.5
3	4.0	2.0	13.0	10.5	15.0	14.0	20.0	16.0	21.5	19.0	20.5	20.0
4	4.0	2.0	13.0	10.0	16.5	12.0	20.5	18.5	23.0	20.0	20.5	19.0
5	3.0	2.0	15.0	12.0	17.0	15.5	21.5	19.5	22.0	21.0	19.5	18.5
6	3.0	1.5	18.0	14.5	16.0	14.0	21.5	19.5	21.0	20.0	18.5	17.0
7	3.0	1.5	15.5	13.5	14.5	13.0	21.0	17.0	21.0	20.0	18.0	15.5
8	3.0	1.5	13.5	11.0	13.0	11.5	20.5	19.5	21.0	20.0	17.0	14.5
9	3.0	1.5	11.5	9.5	13.0	10.0	21.5	19.0	21.5	20.0	18.0	15.5
10	5.0	1.5	10.0	9.0	13.5	13.0	21.5	18.5	20.5	19.0	18.0	16.0
11	7.0	3.5	13.0	9.5	15.5	11.5	21.5	18.5	21.0	19.0	17.0	15.0
12	9.5	7.0	13.0	11.0	16.0	15.0	20.5	19.5	21.0	20.0	15.0	12.0
13	9.0	6.5	15.0	12.0	18.5	15.5	24.0	20.0	20.0	18.0	13.5	13.5
14	8.0	6.5	14.5	11.5	18.0	16.5	23.5	21.5	20.0	19.5	14.5	13.5
15	7.0	5.5	15.0	11.0	20.0	16.0	23.5	20.5	20.0	18.0	14.5	13.0
16	8.0	5.5	17.0	12.0	20.5	16.0	24.5	22.0	19.5	18.0	14.0	14.0
17	9.0	5.5	19.5	14.5	19.5	18.0	24.5	23.0	19.0	18.5	15.0	14.0
18	10.0	6.5	20.5	18.0	19.0	17.0	24.5	23.0	18.5	17.0	15.0	15.0
19	11.0	8.0	21.5	18.5	21.0	17.0	25.0	22.0	17.0	15.0	15.5	14.5
20	12.0	10.0	21.0	18.5	20.0	15.0	26.0	22.0	16.5	15.5	15.5	14.5
21	13.0	11.0	22.0	18.0	19.0	17.0	25.5	24.0	16.5	13.5	14.5	13.5
22	13.0	13.0	23.5	19.5	18.0	16.0	24.0	20.5	18.5	16.5	13.5	13.0
23	13.0	10.0	23.5	19.5	18.5	15.0	22.0	18.5	16.5	15.5	13.0	12.0
24	10.0	8.5	22.0	20.0	19.5	16.5	22.0	19.5	16.5	15.5	13.0	12.0
25	8.5	7.0	23.0	19.5	19.5	13.0	21.5	20.0	15.5	13.5	12.0	11.5
26	7.0	7.0	20.5	18.5	20.0	17.0	21.0	18.0	16.0	13.5	12.0	11.5
27	8.5	6.0	20.0	16.5	21.0	14.5	19.5	16.0	18.5	15.5	12.0	11.5
28	8.5	8.0	19.0	17.0	21.0	19.0	20.0	16.0	20.5	18.0	12.0	12.0
29	8.5	5.5	19.0	14.0	20.5	20.0	20.5	18.0	23.0	20.0	12.0	11.0
30	10.5	6.0	19.5	15.0	21.0	18.0	20.5	19.5	21.5	20.5	12.0	11.5
31	---	---	20.5	15.5	---	---	21.0	19.0	20.5	19.0	---	---
MONTH	13.0	1.0	23.5	9.0	21.0	10.0	26.0	16.0	23.0	13.5	21.0	11.0

04256500 STILLWATER RESERVOIR NEAR BEAVER RIVER, NY

LOCATION.--Lat 43°53'50", long 75°03'05", Herkimer County, Hydrologic Unit 04150101, in gatehouse at Stillwater Dam on Beaver River, 2.5 mi (4.0 km) upstream from Moshier Creek, and 7.5 mi (12.1 km) west of Beaver River Post Office.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--May 1908 to current year. Prior to February 1925, monthend contents only, published in WSP 1307. February 1925 to September 1937, compiled in WSP 824.

GAGE.--Nonrecording gage read once daily and prior to reservoir gate changes. Datum of gage is at mean sea level, adjustment of 1912.

REMARKS.--Reservoir originally formed about 1885; enlarged at various times and in 1924 enlarged to a usable capacity of 4,623 mil ft³ (131 hm³) between elevations 1,650.3 ft (503.01 m) and 1,679.3 ft (511.85 m) (top of 24-inch flashboards in place throughout year). Elevation of gate sill of lowest outlet, 1,642.3 ft (500.57 m). Capacity below elevation 1,650.3 ft (503.01 m), 90 mil ft³ (2.55 hm³), is included in records presented herein, but is not ordinarily available for release. Reservoir is used to regulate flow of Beaver and Black Rivers for flood control, power development, and general public welfare.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed elevation, 1,680.08 ft (512.088 m) May 20, 1969, contents, 4,939 mil ft³ (140 hm³); minimum observed since first filling, 1,644.80 ft (501.335 m) Mar. 25-27, 1949, contents, 8 mil ft³ (0.227 hm³).

EXTREMES FOR CURRENT YEAR.--Maximum observed elevation, 1679.47 ft (511.902 m) Apr. 26, 27, contents, 4,762 mil ft³ (135 hm³); minimum observed, 1,659.02 ft (505.669 m) Mar. 4, contents, 710 mil ft³ (20.1 hm³).

Capacity table, current year (elevation, in feet, and contents, in millions of cubic feet)

1,658.0	604	1,670.0	2,431
1,660.0	821	1,675.0	3,556
1,665.0	1,518	1,680.0	4,916

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
INSTANTANEOUS OBSERVATIONS AT -0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1674.27	1677.31	1675.97	1672.27	1665.99	1659.16	1671.65	1679.19	1677.25	1674.09	1671.28	1672.32
2	1674.15	1677.41	1675.89	1672.08	1665.74	1659.12	1672.29	1679.09	1677.28	1673.93	1671.15	1672.28
3	1674.08	1677.44	1675.78	1671.92	1665.48	1659.07	1672.77	1679.06	1677.21	1673.83	1670.98	1672.33
4	1673.98	1677.47	1675.68	1671.74	1665.25	1659.02	1673.30	1678.94	1677.12	1673.79	1670.83	1672.30
5	1673.86	1677.47	1675.57	1671.56	1665.00	1659.06	1673.77	1678.82	1677.08	1673.80	1670.63	1672.26
6	1673.74	1677.45	1675.46	1671.38	1664.68	1659.10	1674.22	1678.73	1677.07	1673.82	1670.53	1672.24
7	1673.63	1677.45	1675.45	1671.19	1664.43	1659.15	1674.58	1678.62	1676.94	1673.83	1670.68	1672.19
8	1673.57	1677.42	1675.46	1671.03	1664.16	1659.16	1674.88	1678.50	1676.81	1673.87	1670.78	1672.14
9	1673.76	1677.38	1675.44	1670.82	1663.85	1659.15	1675.14	1678.56	1676.70	1673.74	1670.65	1672.07
10	1674.50	1677.34	1675.38	1670.67	1663.55	1659.18	1675.35	1678.54	1676.58	1673.62	1670.49	1672.00
11	1674.98	1677.29	1675.32	1670.49	1663.25	1659.32	1675.54	1678.60	1676.46	1673.44	1670.38	1671.92
12	1675.30	1677.23	1675.24	1670.30	1662.95	1659.67	1675.78	1678.61	1676.34	1673.27	1670.25	1671.85
13	1675.51	1677.16	1675.16	1670.09	1662.66	1660.24	1676.33	1678.62	1676.21	1673.25	1670.11	1671.80
14	1675.65	1677.06	1675.06	1669.90	1662.39	1661.94	1676.97	1678.63	1676.09	1673.14	1670.15	1671.95
15	1675.65	1677.00	1674.87	1669.70	1662.08	1664.10	1677.45	1678.61	1675.97	1673.02	1670.35	1672.19
16	1675.68	1676.92	1674.72	1669.51	1661.77	1665.44	1677.68	1678.58	1675.84	1672.92	1670.30	1672.30
17	1675.70	1676.83	1674.56	1669.29	1661.40	1666.35	1677.84	1678.55	1675.68	1672.94	1670.70	1672.50
18	1675.68	1676.73	1674.40	1669.09	1661.09	1667.00	1677.98	1678.54	1675.58	1672.98	1671.25	1672.68
19	1675.68	1676.67	1674.23	1668.87	1660.75	1667.56	1678.08	1678.55	1675.46	1672.84	1671.35	1672.95
20	1675.66	1676.60	1674.05	1668.69	1660.43	1667.95	1678.17	1678.53	1675.30	1672.68	1671.65	1673.20
21	1675.74	1676.50	1673.96	1668.48	1660.09	1668.37	1678.30	1678.50	1675.24	1672.49	1671.78	1673.51
22	1676.32	1676.40	1673.83	1668.27	1659.77	1668.67	1678.38	1678.47	1675.12	1672.36	1671.95	1673.75
23	1676.68	1676.32	1673.67	1668.06	1659.41	1669.03	1678.61	1678.27	1674.99	1672.17	1671.90	1673.90
24	1676.86	1676.27	1673.50	1667.82	1659.08	1669.13	1679.02	1678.18	1674.86	1672.15	1671.90	1674.05
25	1676.92	1676.15	1673.36	1667.62	1659.17	1669.22	1679.33	1678.11	1674.72	1672.13	1672.10	1674.17
26	1677.01	1676.03	1673.23	1667.39	1659.18	1669.18	1679.47	1678.03	1674.67	1671.93	1672.22	1674.29
27	1677.06	1675.97	1673.07	1667.16	1659.17	1669.11	1679.47	1677.87	1674.54	1671.73	1672.26	1674.26
28	1677.09	1675.99	1672.91	1666.88	1659.17	1669.03	1679.35	1677.73	1674.43	1671.54	1672.28	1674.33
29	1677.08	1676.04	1672.74	1666.69	---	1669.07	1679.30	1677.67	1674.33	1671.33	1672.29	1674.47
30	1677.08	1676.03	1672.59	1666.45	---	1669.74	1679.25	1677.52	1674.23	1671.21	1672.34	1674.49
31	1677.12	---	1672.42	1666.20	---	1670.73	---	1677.38	---	1671.27	1672.34	---
MEAN	1675.48	1676.84	1674.48	1669.41	1662.21	1664.26	1676.68	1678.44	1675.87	1672.87	1671.23	1672.89
MAX	1677.12	1677.47	1675.97	1672.27	1665.99	1670.73	1679.47	1679.19	1677.28	1674.09	1672.34	1674.49
MIN	1673.57	1675.97	1672.42	1666.20	1659.08	1659.02	1671.65	1677.38	1674.23	1671.21	1670.11	1671.80
†	4,138	3,806	2,924	1,694	726	2,711	4,687	4,148	3,347	2,699	2,928	3,468
‡	+280	-128	-329	-459	-400	+741	+762	-201	-309	-242	+85.5	+208
CAL YR 1976	MEAN	1675.27	MAX	1679.49	MIN	1665.99	‡	-13.3				
WTR YR 1977	MEAN	1672.61	MAX	1679.47	MIN	1659.02	‡	+2.57				

† Contents, in millions of cubic feet, at 2400 hours on last day of month by interpolation.

‡ Change in contents, equivalent in cubic feet per second.

STREAMS TRIBUTARY TO LAKE ONTARIO

04257000 BEAVER RIVER BELOW STILLWATER DAM, NEAR BEAVER RIVER, NY

LOCATION.--Lat 43°53'50", long 75°03'05", Herkimer County, Hydrologic Unit 04150101, in gatehouse at Stillwater Dam, 2.5 mi (4.0 km) upstream from Moshier Creek, and 7.5 mi (12.1 km) west of Beaver River Post Office.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--May 1908 to current year. Published as "at State dam, near Beaver River" prior to June 1924.

REVISED RECORDS.--WSP 714: Drainage area. WRD NY 1967: 1966. WRD NY 1973: 1971.

GAGE.--Nonrecording gage read once daily and after reservoir gate changes. Datum of gage is at mean sea level, adjustment of 1912. Prior to June 1, 1924, nonrecording gage at present site and datum. June 1, 1924 to Nov. 14, 1929, nonrecording gage at site 1,000 ft (305 m) downstream at same datum.

REMARKS.--Records poor. Flow regulated by Stillwater Reservoir (see station 04256500). Discharge determined from ratings for gates and spillway of Stillwater Dam applied to log of reservoir elevation and gate operation.

COOPERATION.--Records furnished by Board of Hudson River-Black River Regulating District.

AVERAGE DISCHARGE.--69 years, 374 ft³/s (10.59 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,700 ft³/s (105 m³/s) May 3, 1926; practically no flow at times when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,500 ft³/s (42.5 m³/s) Apr. 28; minimum daily, 52 ft³/s (1.47 m³/s) July 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	723	613	693	718	696	263	73	998	634	602	431	317
2	415	614	692	716	692	262	75	994	633	600	619	317
3	622	615	691	712	688	262	75	992	633	383	617	318
4	619	616	690	710	683	262	76	983	414	54	616	317
5	618	616	688	708	679	262	76	985	305	54	614	317
6	617	615	687	706	674	262	77	983	523	54	476	317
7	616	616	686	703	666	263	77	979	630	54	67	317
8	616	615	686	702	688	263	77	729	628	321	431	316
9	453	615	686	700	699	263	78	605	628	546	613	316
10	55	615	686	697	691	263	78	494	627	544	611	316
11	55	614	685	695	688	126	78	434	625	543	610	315
12	55	613	684	693	679	57	78	434	624	541	609	315
13	55	612	683	690	674	58	367	434	623	541	247	314
14	321	612	772	687	669	60	514	435	621	540	66	315
15	531	612	820	684	687	63	628	434	619	539	429	148
16	531	611	818	682	692	65	694	434	618	215	610	53
17	531	610	816	680	684	67	698	433	617	53	300	53
18	531	609	814	677	676	68	701	433	617	376	68	53
19	531	609	811	674	667	69	704	433	615	661	69	53
20	604	608	809	671	661	69	640	433	614	603	68	54
21	484	608	807	668	654	70	610	432	613	599	69	54
22	56	607	805	666	646	70	613	806	613	598	77	54
23	294	605	803	664	638	290	715	710	611	235	628	54
24	555	665	757	661	386	400	866	524	610	53	537	55
25	610	695	731	681	263	444	1070	602	609	438	316	55
26	611	694	729	715	263	665	1170	650	609	629	317	403
27	612	693	727	712	263	664	1410	647	608	627	317	594
28	612	693	725	708	263	664	1500	644	606	625	317	595
29	612	694	723	705	---	281	1000	642	605	623	317	596
30	612	694	721	702	---	71	1000	640	604	242	318	596
31	612	---	719	699	---	72	---	636	---	52	318	---
TOTAL	14769	18908	22844	21486	17009	7018	15818	20012	17936	12545	11702	7897
MEAN	476	630	737	693	607	226	527	646	598	405	377	263
MAX	723	695	820	718	699	665	1500	998	634	661	628	596
MIN	55	605	683	661	263	57	73	432	305	52	66	53
CAL YR 1976	TOTAL	237948	MEAN	650	MAX	1730	MIN	55				
WTR YR 1977	TOTAL	187944	MEAN	515	MAX	1500	MIN	52				

421

LOCATION.--Lat 43°53'50", long 75°24'16", Lewis County, Hydrologic Unit 04150101, on left bank 1,200 ft (366 m) upstream from Black Creek, and 0.5 mi (0.8 km) west of Croghan.

PERIOD OF RECORD.--September 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 806.20 ft (245.730 m) above mean sea level.

AVERAGE DISCHARGE.--47 years, 587 ft³/s (16.62 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,100 ft³/s (144 m³/s) May 21, 1969, gage height, 6.98 ft (2.128 m); minimum, 11 ft³/s (0.31 m³/s) Jan. 22, 29, Feb. 4, 1967, gage height, 0.63 ft (0.192 m); minimum daily, 22 ft³/s (0.62 m³/s) July 18, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,650 ft³/s (75.0 m³/s) Mar. 15, gage height, 5.21 ft (1.588 m); minimum, 26 ft³/s (0.736 m³/s) July 8, gage height, 0.87 ft (0.265 m); minimum daily, 29 ft³/s (0.82 m³/s) July 7.

DAY	UCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	952	1040	1130	818	1010	497	1100	1290	708	671	381	609
2	915	1410	1100	759	1010	486	1030	1080	558	648	524	537
3	846	1070	971	818	1010	641	1130	1060	665	585	457	596
4	832	962	948	885	999	395	1080	1030	642	515	459	353
5	624	918	682	731	999	520	1000	1050	311	159	544	300
6	604	907	676	772	992	457	915	1090	752	39	384	448
7	707	586	734	746	1030	680	919	1130	648	29	559	492
8	766	713	916	913	1120	746	885	1050	654	212	711	373
9	925	611	985	845	1130	873	1110	579	752	623	386	386
10	2030	619	1120	755	1130	314	891	1070	613	490	547	187
11	1600	959	957	941	654	1010	864	1030	596	636	600	48
12	1160	859	948	845	825	1030	889	992	602	500	571	310
13	1010	690	907	648	579	1630	595	941	619	485	547	489
14	659	734	879	831	831	1980	533	852	602	624	419	643
15	451	699	898	858	714	2460	829	648	510	630	583	805
16	492	767	786	553	886	2000	849	865	574	314	745	813
17	432	788	806	852	825	1600	1030	547	590	279	1270	911
18	623	649	910	791	984	1130	956	413	607	541	936	573
19	792	607	916	879	1060	1020	914	395	515	475	910	739
20	873	640	891	865	1010	913	835	455	590	552	559	994
21	944	730	932	845	702	702	890	209	619	495	365	946
22	1330	653	1410	941	754	906	933	90	648	500	675	833
23	1640	869	1360	838	831	614	1120	708	552	350	731	797
24	1330	847	1040	913	782	851	1890	831	552	299	756	604
25	1150	646	991	838	835	741	2170	791	515	390	739	470
26	1060	719	934	804	568	623	2000	642	495	519	680	444
27	692	711	884	613	604	737	1850	678	585	476	373	514
28	561	906	1360	590	734	873	1810	495	613	480	315	463
29	648	1090	936	352	---	1330	1440	455	654	497	387	622
30	809	1060	900	526	---	1160	1420	490	746	331	498	638
31	846	---	868	1010	---	1200	---	727	---	296	483	---
TOTAL	28343	24459	29775	24435	24608	30905	33640	24214	17914	13769	18331	16937
MEAN	914	815	960	788	879	997	1121	781	597	444	591	565
MAX	2030	1410	1410	1010	1130	2480	2170	1290	752	752	1270	994
MIN	432	586	676	352	568	395	533	90	311	29	315	48
CAL YR 1976	TOTAL	349721	MEAN	956	MAX	2780	MIN	306				
WTR YR 1977	TOTAL	287330	MEAN	787	MAX	2480	MIN	29				

STREAMS TRIBUTARY TO LAKE ONTARIO

04260500 BLACK RIVER AT WATERTOWN, NY
(National stream-quality accounting network station)
(National pesticide network station)

LOCATION.--Lat 43°59'08", long 75°55'30", Jefferson County, Hydrologic Unit 04150101, on downstream side of right abutment of Vanduzee Street Bridge at Watertown, and 3.5 mi (5.6 km) upstream from Philomel Creek. Water-quality sampling site at discharge station.

DRAINAGE AREA.--1,876 mi² (4,859 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1920 to current year.

REVISED RECORDS.--WSP 759: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 373.88 ft (113.959 m) above mean sea level. Prior to Sept. 3, 1921, nonrecording gage, and from Sept. 3, 1921 to Mar. 15, 1977, recording gage at same site, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good. Flow regulated by Stillwater Reservoir (see station 04256500), Fulton Chain of Lakes (see station 04253500), and other reservoirs. Extensive diurnal fluctuation at low and medium flow caused by mills and powerplants in and above Watertown. During canal season, water is diverted out of basin through Forestport feeder and Black River Canal (flowing south), see station 04252000.

AVERAGE DISCHARGE.--57 years, 3,972 ft³/s (112.5 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,600 ft³/s (1,120 m³/s) Mar. 16, 1977, gage height, 12.98 ft (3.956 m); minimum, 10 ft³/s (0.28 m³/s) Sept. 2, 1934, gage height, 0.81 ft (0.247 m) present datum; minimum daily, 137 ft³/s (3.88 m³/s) Sept. 4, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, about 39,700 ft³/s (1,120 m³/s) Apr. 23, 1869 (from New York State Museum Bulletin 85).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 17,000 ft³/s (480 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 16	1215	*39,600 1120	*12.98 3.956	Apr. 26	1615	19,800 561	9.51 2.899
Apr. 2	1230	22,000 623	9.98 3.042				

Minimum discharge, 192 ft³/s (5.44 m³/s) Sept. 8, gage height, 1.48 ft (0.451 m); minimum daily, 884 ft³/s (25.0 m³/s), Sept. 12.

REVISIONS.--The daily discharges for 1974 water year have been revised to 17,700 ft³/s (501 m³/s) April 6, 1974 and 18,600 ft³/s (527 m³/s) April 7, 1974, superseding figures published in the report for 1974.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4810	7220	6290	3570	2920	4110	20000	8760	2270	2470	2010	3460
2	4140	7900	4830	3330	2510	4110	21700	7500	2410	2440	1940	3440
3	3560	8590	4180	2740	2300	3690	19300	6440	3440	1970	1860	2650
4	3270	8290	4220	3140	2380	3500	16900	5860	3900	1690	1710	2700
5	2730	7500	4110	3090	2330	3780	15300	5360	3030	1650	1730	2210
6	2420	6670	4110	3200	2120	4670	13800	4990	2370	1180	1810	2290
7	2450	5890	4260	2720	2250	5150	12700	4730	2440	1090	2240	2930
8	2520	5140	5060	3290	2560	5490	11600	4580	2290	986	2880	2110
9	4920	4770	6460	3630	2550	5860	10400	4400	2230	986	2900	1870
10	10700	4280	6210	3650	2450	6860	9250	4750	2100	1830	2480	1780
11	13400	4230	6290	3900	2270	8370	8430	4950	2040	1630	2260	1350
12	15500	4150	6380	3960	2080	10100	8730	4790	1890	1690	2750	884
13	13700	3790	6290	3650	2220	15600	9790	4470	2030	1480	3030	1250
14	11100	3630	5710	3180	2300	24100	11200	4060	2100	2810	3030	2370
15	9020	3700	4900	2620	2650	35100	12900	3420	1930	3760	3230	4340
16	7470	3580	4390	3070	2790	38800	14800	3500	1900	2810	4360	5130
17	6380	3410	4200	3100	2880	34200	14000	3020	1890	1900	5640	5170
18	5360	3470	4180	3320	2600	26200	12400	2720	1560	1940	5110	5710
19	4820	3160	3960	3050	2500	18800	11000	2340	1850	2130	4470	5930
20	4250	3330	3860	2850	2350	15300	10000	2700	2170	1600	3610	6950
21	6020	3370	4180	2450	2300	12500	9340	2620	2210	1440	2680	8370
22	9420	3240	4590	2780	2430	10800	9030	2040	2130	1580	2290	8520
23	11100	3100	4920	3140	2600	9160	9950	2290	2110	1450	4620	8640
24	12100	3240	4610	2700	2550	7690	12000	2750	1930	1240	4530	8290
25	11900	3030	4220	2430	2590	6820	15300	2640	1730	1320	5290	7290
26	11100	3140	3900	2630	2910	6260	19100	2650	1520	1360	5710	6060
27	10100	4830	4150	2460	3350	5740	18100	2720	2150	1410	5590	5740
28	9040	6740	4030	2430	4010	5830	14800	2540	2210	1350	4550	6580
29	8040	7110	3960	2380	---	8580	12200	1970	2140	1270	3120	8010
30	7270	7170	4220	2530	---	13600	10300	2030	2140	1350	2900	8430
31	6680	---	4110	2760	---	16700	---	2100	---	1420	3670	---
TOTAL	235290	147670	146780	93740	71750	377470	394320	119690	66110	53232	104000	140454
MEAN	7590	4922	4735	3024	2563	12180	13140	3861	2204	1717	3355	4682
MAX	15500	8590	6460	3960	4010	38800	21700	8760	3900	3760	5710	8640
MIN	2420	3030	3860	2380	2080	3500	8430	1970	1520	986	1710	884
CAL YR 1976	TOTAL	2318000	MEAN	6333	MAX	24600	MIN	1920				
WTR YR 1977	TOTAL	1950506	MEAN	5344	MAX	38800	MIN	884				

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423

04260500 BLACK RIVER AT WATERTOWN, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956-60, 1962 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1955 to September 1959, July 1962 to March 1969.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)
OCT											
19...	1400	4550	85	6.5	7.0	3	11.2	93	88	25	--
NOV											
17...	1030	3440	88	7.1	3.0	3	11.6	87	86	8	--
DEC											
20...	1430	3600	98	6.9	1.5	3	11.0	79	220	--	420
JAN											
25...	0830	2570	89	6.9	.0	3	12.6	87	370	--	94
FEB											
23...	0930	2450	58	6.9	--	6	12.8	88	3900	--	310
MAR											
23...	1000	10150	73	7.1	1.0	2	12.6	90	220	--	120
APR											
18...	1230	12000	53	6.9	12.0	4	8.8	82	260	--	210
MAY											
24...	0830	2200	86	7.2	22.5	2	8.3	98	190	--	43
JUN											
22...	0830	2170	90	7.0	19.0	1	9.5	103	1100	--	260
JUL											
20...	1000	1600	91	7.1	27.0	1	7.9	98	8560	--	896
AUG											
23...	0900	3700	80	7.1	17.5	2	9.7	102	800	--	720
SEP											
08...	0930	858	92	7.1	20.0	2	8.7	96	600	--	160

DATE	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT										
19...	37	1	13	1.2	1.9	.8	44	0	36	6.3
NOV										
17...	38	5	13	1.3	2.2	.6	40	0	33	8.3
DEC										
20...	43	8	15	1.3	2.8	.6	42	0	34	5.6
JAN										
25...	29	0	10	.9	3.4	.6	38	0	31	8.9
FEB										
23...	37	3	13	1.1	3.7	.7	41	0	34	9.8
MAR										
23...	32	11	11	1.1	2.1	.7	26	0	21	6.3
APR										
18...	22	7	7.8	.6	.9	.5	18	0	15	6.3
MAY										
24...	35	7	12	1.1	3.4	.9	33	0	27	9.1
JUN										
22...	32	5	11	1.2	3.3	.8	33	0	27	6.1
JUL										
20...	35	8	12	1.1	3.3	.8	32	0	26	9.6
AUG										
23...	32	16	11	1.2	2.5	.7	20	0	16	12
SEP										
08...	35	6	12	1.3	3.4	.7	36	0	30	8.1

B Results based on colony count outside the acceptable range (non-ideal colony count).

STREAMS TRIBUTARY TO LAKE ONTARIO

04260500 BLACK RIVER AT WATERTOWN, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 19...	2.5	.1	6.2	63	54	.20	.30	.50	.03	7.1
NOV 17...	2.2	.1	6.5	58	54	.33	.23	.56	.02	--
DEC 20...	4.5	.1	7.0	66	58	.44	.23	.67	.03	--
JAN 25...	1.6	.1	7.5	69	52	.39	.24	.63	.02	--
FEB 23...	3.1	.1	8.0	71	60	.48	.57	1.1	.03	--
MAR 23...	2.2	.1	5.0	53	41	.84	.40	1.2	.03	12
APR 18...	1.8	.1	3.4	39	30	.60	.40	1.0	.03	--
MAY 24...	1.9	.1	5.2	64	50	.29	.23	.52	.03	--
JUN 22...	1.2	.1	5.5	58	45	.28	.38	.66	.03	--
JUL 20...	1.7	.1	6.6	63	51	.21	.45	.66	.04	--
AUG 23...	2.1	.1	5.6	60	45	.18	.40	.58	.01	7.4
SEP 08...	2.6	.1	5.7	68	52	.16	.36	.52	.02	--

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT 19...	1400	0	0	0	1	<10	<10	0	0	0	0	330
FEB 23...	0930	1	0	0	0	<10	<10	15	10	10	10	440
MAR 23...	1000	1	0	1	0	<10	<10	3	0	10	0	300
AUG 23...	0900	0	0	3	0	10	5	0	0	8	3	510

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 19...	180	6	9	40	40	<.5	<.5	0	0	10	10
FEB 23...	220	9	5	60	50	<.5	<.5	0	0	20	20
MAR 23...	100	16	3	40	30	.5	<.5	0	0	20	10
AUG 23...	260	25	0	40	30	.0	.0	0	0	20	10

STREAMS TRIBUTARY TO LAKE ONTARIO

425

04260500 BLACK RIVER AT WATERTOWN, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
NOV 23...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 23...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
MAY 17...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 23...	ND	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)
NOV 23...	ND	.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 23...	ND	--	ND	--	ND	ND	--	ND	--	ND	--
MAY 17...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 23...	ND	--	ND	--	ND	ND	--	ND	--	ND	--

DATE	TOTAL MALA- THION (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 23...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 23...	ND	ND	ND	ND	ND	--	ND	ND	ND	ND
MAY 17...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 23...	ND	ND	ND	ND	ND	--	ND	ND	ND	ND

ND Material specifically analyzed for, but not detected.

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. & FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. & FINER THAN .062 MM
OCT 19...	1255	2510	4	51	82	JUN 22...	0830	2170	5	29	92
NOV 17...	0930	1570	2	18	93	JUL 20...	1000	1600	2	8.6	100
MAY 24...	0830	2200	6	36	63	AUG 23...	0900	3700	4	40	95

04260500 BLACK RIVER AT WATERTOWN, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	OCT 19,76 1900	NOV 17,76 1030	DEC 20,76 1430	JAN 25,77 0830	FEB 23,77 0930					
TOTAL CELLS/ML	2600	23000	4300	29	69					
DIVERSITY: DIVISION	0.2	0.1	0.0	0.0	0.7					
..CLASS	0.2	0.1	0.0	0.0	1.0					
..ORDER	0.2	0.1	0.0	0.7	1.2					
...FAMILY	0.2	0.1	0.0	2.7	2.6					
....GENUS	0.2	0.1	0.2	2.7	2.6					
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....COELASTRACEAE										
.....COELASTRUM	--	-	--	-	--	-	--	-	--	-
.....HYDRODICTYACEAE										
.....PEDIASTRUM	--	-	--	-	--	-	--	-	--	-
.....MICRACTINIIACEAE										
.....MICRACTINIUM	--	-	--	-	--	-	--	-	--	-
.....OUCYSTACEAE										
.....ANKISTRODESMUS	--	-	--	-	* 0		--	-	--	-
.....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-
.....KIRCHNERIELLA	--	-	--	-	* 0		--	-	--	-
.....NEPHROCUTIUM	--	-	--	-	--	-	--	-	--	-
.....OOCYSTIS	--	-	--	-	--	-	--	-	--	-
.....SELENASTRUM	--	-	* 0		--	-	--	-	--	-
.....TETRAEDRON	--	-	--	-	--	-	--	-	--	-
.....SCENEDESMACEAE										
.....ACTINASTRUM	--	-	--	-	--	-	--	-	11#	16
.....SCENEDESMUS	--	-	--	-	--	-	--	-	--	-
..TETRASPORALES										
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	4	5
..ZYGNEATALES										
...DESMIDIACEAE										
....CUSMARIUM	--	-	--	-	--	-	--	-	--	-
CHRYSTOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
....COSCINODISCACEAE										
.....CYCLOTELLA	--	-	* 0		--	-	--	-	--	-
.....MELOSIRA	17	1	--	-	--	-	5#	18	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	--	-	--	-	--	-	--	-	22#	32
....CUCCONEIS	--	-	--	-	--	-	--	-	--	-
....CYMBELLACEAE										
.....CYMBELLA	--	-	--	-	* 0		5#	18	--	-
....EUNOTIACEAE										
.....EUNOTIA	--	-	--	-	--	-	--	-	--	-
...FRAGILARIACEAE										
....FRAGILARIA	17	1	* 0		--	-	--	-	--	-
....HANNAEA	--	-	--	-	* 0		--	-	--	-
....SYNEURA	--	-	--	-	* 0		3	9	4	5
...GOMPHONEMACEAE										
....GOMPHONEMA	25	1	* 0		--	-	3	9	4	5
...NAVICULACEAE										
....NAVICULA	17	1	* 0		--	-	5#	18	18#	26
...NITZSCHIA										
....NITZSCHIA	--	-	--	-	--	-	5#	18	4	5
...TABELLARIACEAE										
....TABELLARIA	--	-	--	-	--	-	3	9	--	-
..CHRYSTOPHYCEAE										
...CHRYSOMONADALES										
....CHROMULINACEAE										
.....CHRYSUCCUS	--	-	--	-	--	-	--	-	--	-
...OCHROMONADACEAE										
....DINOBRYON	--	-	--	-	--	-	--	-	4	5
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROCOCCALES										
....CHROCOCCACEAE										
.....AGMENELLUM	--	-	--	-	--	-	--	-	--	-
.....ANACYSTIS	--	-	--	-	--	-	--	-	--	-
...HORMOGONALES										
....NOSTOCACEAE										
.....ANABAENA	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA										
.....LYNGBYA	--	-	--	-	130	3	--	-	--	-
....OSCILLATORIA	2500#	97	23000#	99	4200#	97	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

04260500 BLACK RIVER AT WATERTOWN, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	MAY 24,77 0830		JUN 22,77 0830		JUL 20,77 1000		AUG 23,77 0900		SEP 8,77 0930	
TOTAL CELLS/ML	1300		45		4000		1600		74	
DIVERSITY: DIVISION	1.8		1.5		1.2		1.2		0.7	
..CLASS	1.9		1.5		1.2		1.2		0.7	
...ORDER	2.2		1.7		1.4		1.5		0.7	
....FAMILY	3.2		2.4		2.1		1.9		1.5	
.....GENUS	3.5		2.7		2.3		2.8		1.5	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....CUELASTRACEAE										
.....CUELASTRUM	--	-	--	-	230	6	--	-	--	-
...HYDRODICTYACEAE										
....PEDIASTRUM	--	-	1	2	120	3	--	-	--	-
...MICRACTINIACEAE										
....MICRACTINIUM	21	2	2	4	--	-	--	-	--	-
...OOCYSTACEAE										
....ANKISTRUDESMS	21	2	1	3	80	2	24	2	--	-
....DICTYOSPHAERIUM	27	2	10#	23	1700#	43	160	10	--	-
....KIRCHNERIELLA	--	-	0	1	22	1	670#	43	25#	33
....NEPHROCYTIUM	--	-	--	-	--	-	58	4	--	-
....OOCYSTIS	--	-	0	1	--	-	--	-	--	-
....SELENASTRUM	--	-	--	-	--	-	--	-	--	-
....TETRAEDRUM	--	-	*	0	--	-	19	1	--	-
...SCENEDESMACEAE										
....ACTINASTRUM	--	-	--	-	--	-	--	-	--	-
....SCENEDESMUS	82	6	3	7	160	4	110	7	37#	50
..TETRASPORALES										
...PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	58	1	--	-	--	-
...VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	14	1	--	-	22	1	--	-	--	-
...ZYGNEATALES										
....UESMIDIACEAE										
....CUSMARIUM	--	-	--	-	29	1	--	-	--	-
CHRYSTOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
....COSCINODISCACEAE										
.....CYCLOTELLA	27	2	1	1	44	1	15	1	--	-
.....MELOSIRA	*	0	*	0	--	-	10	1	--	-
...PENNALES										
....ACHNANTHACEAE										
.....ACHNANTHES	34	3	1	2	*	0	15	1	--	-
.....COCCONEIS	--	-	--	-	--	-	10	1	--	-
....CYMBELLACEAE										
.....CYMBELLA	55	4	0	1	--	-	10	1	--	-
...EUNOTIACEAE										
.....EUNOTIA	7	1	*	0	--	-	--	-	--	-
...FRAGILARIACEAE										
.....FRAGILARIA	55	4	--	-	--	-	--	-	--	-
.....HANNAEA	14	1	--	-	--	-	--	-	--	-
.....SYNEDRA	170	14	--	-	36	1	--	-	--	-
...GOMPHONEMACEAE										
.....GOMPHONEMA	7	1	--	-	22	1	--	-	--	-
...NAVICULACEAE										
.....NAVICULA	7	1	*	0	87	2	29	2	--	-
...NITZSCHACEAE										
.....NITZSCHIA	120	9	3	6	--	-	10	1	12#	17
...TABELLARIACEAE										
.....TABELLARIA	--	-	--	-	--	-	--	-	--	-
..CHRYSTOPHYCEAE										
...CHRYSOMONADALES										
....CHROMULINACEAE										
.....CHRYSOCOCCUS	21	2	--	-	--	-	--	-	--	-
...UCHROMONADACEAE										
.....DINOBYRON	7	1	*	0	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROCOCCOCCALES										
....CHROCOCCOCCACEAE										
.....AGMENELLUM	--	-	--	-	--	-	230	15	--	-
....ANACYSTIS	27	2	20#	44	1400#	35	49	3	--	-
...HORMOGONALES										
....NOSTOCACEAE										
.....ANABAENA	--	-	1	1	--	-	--	-	--	-
...USCILLATORIACEAE										
....LYNGBYA	410#	32	--	-	--	-	--	-	--	-
....USCILLATORIA	21	2	--	-	--	-	150	9	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

04260500 BLACK RIVER AT WATERTOWN, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	OCT 19,76 1900		NOV 17,76 1030		DEC 20,76 1430		JAN 25,77 0830		FEB 23,77 0930	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)										
..CRYPTOPHYCEAE										
...CRYPTOMONIDALES										
....CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	--	-	--	-
....CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	*	0	--	-	--	-	--	-
..EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....TRACHELUMONAS	--	-	*	0	--	-	--	-	--	-
PYRRHOPHYTA (FINE ALGAE)										
..DINOPHYCEAE										
...GYMNODINIALES										
....GYMNODINIACEAE										
....GYMNODINIUM	--	-	--	-	--	-	--	-	--	-
...PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	--	-	--	-

DATE TIME	MAY 24,77 0830		JUN 22,77 0830		JUL 20,77 1000		AUG 23,77 0900		SEP 8,77 0930	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)										
..CRYPTOPHYCEAE										
...CRYPTOMONIDAE										
....CRYPTOCHRYSIDACEAE										
....CHROOMONAS	48	4	--	-	--	-	--	-	--	-
....CRYPTOMONADACEAE										
....CRYPTOMONAS	62	5	--	-	--	-	--	-	--	-
..EUGLENOPHYCEAE										
..EUGLENALES										
...EUGLENACEAE										
....TRACHELOMONAS	--	-	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...GYMNODINIALES										
....GYMNODINIACEAE										
....GYMNODINIUM	--	-	1	1	--	-	--	-	--	-
...PERIDINIALES										
....GLENODINIACEAE										
....GLENODINIUM	14	1	--	-	--	-	--	-	--	-

NOTE: * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

PERIPHYTON

Dates of exposure	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll ^a	Chlorophyll ^b	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight	(mg/m ²)	(mg/m ²)		
May 24 to June 22	29	0.717	0.370	0.072	0.081	4819	Polyethylene strip
June 22 to July 20	28	2.60	1.02	.588	.410	2687	Polyethylene strip
July 20 to Aug. 23	34	1.810	.866	.427	.001	2211	Polyethylene strip

LAKES AND RESERVOIRS IN STREAMS TRIBUTARY TO LAKE ONTARIO

- 04221990 RUSHFORD LAKE AT CANEADA DAM, NY.--Lat 42°22'49", long 78°11'00", Allegany County, Hydrologic Unit 04130002, at Caneadea Dam, 2.3 mi (3.7 km) upstream from Caneadea Creek mouth. Lake is formed by Caneadea Dam completed in 1928 with capacity of 1,104,000 ft³ (31,265 m³) and is used for power generation (see station 04221991 for monthly mean discharges).
- 04224000 MOUNT MORRIS LAKE NEAR MOUNT MORRIS, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).
- 04227980 CONESUS LAKE NEAR LAKEVILLE, NY (see station for daily mean elevation).
- 04228845 HONEOYE LAKE NEAR HONEOYE, NY (see station for daily mean elevation).
- 04228950 CANADICE LAKE NEAR HEMLOCK, NY (see station 04229000 for observed and adjusted monthly mean discharges).
- 04232400 SENECA LAKE AT WATKINS GLEN, NY (see station for daily mean elevation).
- 04232450 KEUKA LAKE AT HAMMONDSPORT, NY (see station for daily mean elevation).
- 04233500 CAYUGA LAKE AT ITHACA, NY (see station for daily mean elevation).
- 04234500 CANANDAIGUA LAKE AT CANANDAIGUA, NY (see station for daily mean elevation).
- 04235396 OWASCO LAKE NEAR AUBURN, NY (see station for daily elevation).
- 04236000 SKANEATELES LAKE AT SKANEATELES, NY (see station for daily elevation).
- 04238500 ONONDAGA RESERVOIR NEAR NEDROW, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).
- 04253300 SIXTH LAKE.--Lat 43°44'43", long 74°46'58", Hamilton County, Hydrologic Unit 04150101, on dam at outlet of Sixth Lake at Inlet, and 11.2 mi (18.0 km) upstream from dam at Old Forge. DRAINAGE AREA, 18.6 mi² (48.2 km²). PERIOD OF RECORD, November 1911 to current year. GAGE, nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Hudson River-Black River Regulating District).
- The Sixth and Seventh Lakes of Fulton Chain Lakes are partially formed and controlled by the concrete dam at Inlet, while the Eighth Lake is upstream and at approximately 5 feet (1.5 m) higher elevation. Storage began around 1881. The present structure is a concrete dam with control gates which were installed in 1938. Usable capacity 296.6 mil ft³ (8,400 hm³) between minimum operating level, elevation 1,755.1 ft (541.05 m) and crest of spillway, elevation 1,786.0 ft (544.37 m); no dead storage below minimum operating level. Figures given herein represent total contents. The dam is operated, records collected, furnished, and stored by Board of Hudson River-Black River Regulating District.
- EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 332 mil ft³ (9.4 hm³) Oct. 3, 1945, elevation, 1,787.1 ft (544.71 m); minimum observed, less than 900,000 ft³ (25,500 m³) Nov. 18, 1943, water level below elevation 1,775.6 ft (541.20 m).
- EXTREMES FOR CURRENT YEAR: Maximum contents observed, 295.0 mil ft³ (8.4 hm³) Sept. 27, elevation, 1785.95 ft (544.36 m); minimum observed, 84.7 mil ft³ (2.40 hm³) Mar. 8-10, elevation, 1779.10 ft (542.27 m).
- 04253400 FIRST LAKE (formerly published as "Old Forge Reservoir").--Lat 43°42'44", long 74°58'12", Herkimer County, Hydrologic Unit 04150101, at dam on Middle Branch Moose River, and 100 ft (30 m) downstream from bridge on State Highway 28 at Old Forge, 11.2 mi (18.0 km) downstream from dam on Sixth Lake outlet at Inlet. DRAINAGE AREA, 52.1 mi² (135 km²). PERIOD OF RECORD, November 1911 to current year. GAGE, nonrecording gage read daily about 0800. Datum of gage is 1,700.15 ft (518.206 m) above mean sea level (levels by Board of Hudson River-Black River Regulating District).
- The First through Fifth Lakes of Fulton Chain Lakes are partially formed and controlled by a concrete dam with 12-inch flashboards. Storage began around 1881 or 1882 with a wooden crib dam. This dam was replaced with a concrete dam in 1905 and gates were installed in 1927. Usable capacity with flashboards, 895.6 mil ft³ (25.36 hm³), gage height, 6.89 ft (2.100 m). Usable capacity without flashboards, 764.3 mil ft³ (21.64 hm³), gage height, 5.91 ft (1.801 m); no dead storage below minimum operating level. Figures given herein represent total contents. The dam is operated, records collected, furnished, and stored by Board of Hudson River-Black River Regulating District.
- EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 1,019 mil ft³ (28.85 hm³) June 17, 1972, gage height, 7.78 ft (2.371 m); minimum observed, 6,500,000 ft³ (184,000 m³) Nov. 3, 1939, gage height, -0.35 ft (-0.107 m).
- EXTREMES FOR CURRENT YEAR: Maximum contents observed, 949.2 mil ft³ (26.88 hm³) Aug. 24, gage height, 7.28 ft (2.219 m); minimum observed, 246.0 mil ft³ (6.97 hm³) Mar. 9, 10, gage height, 1.80 ft (0.549 m).
- 04256500 STILLWATER RESERVOIR NEAR BEAVER RIVER, NY (see station for daily elevation, skeleton capacity table, monthly contents, and change in contents).

MONTHEND ELEVATION, GAGE HEIGHT, AND CONTENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	*Elevation (feet)	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)	*Gage height (feet)	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)
	04253300 Sixth Lake				04253400 First Lake	
Sept. 30.....	1,780.85	136.7		7.02	912.8	
Oct. 31.....	1,783.37	213.7	+28.7	6.87	892.8	- 7.47
Nov. 30.....	1,783.67	223.0	+ 3.59	6.69	868.6	- 9.34
Dec. 31.....	1,783.25	210.0	- 4.85	5.56	718.8	- 55.9
CAL YR 1976			- .39			+ 3.29
Jan. 31.....	1,781.33	151.1	-22.0	3.73	482.9	- 88.1
Feb. 28.....	1,779.33	91.4	-24.7	1.97	266.4	- 89.5
Mar. 31.....	1,783.37	213.7	+45.7	5.19	670.7	+151
Apr. 30.....	1,785.50	280.6	+25.8	6.61	857.4	+ 72.0
May 31.....	1,785.58	283.2	+ .97	6.99	908.7	+ 19.2
June 30.....	1,785.45	279.0	- 1.62	7.07	919.8	+ 4.28
July 31.....	1,785.30	274.2	- 1.79	7.05	917.0	- 1.05
Aug. 31.....	1,785.42	278.0	+ 1.42	6.83	887.2	- 11.1
Sept. 30.....	1,785.50	280.6	+ .62	7.05	917.0	+ 11.5
WTR YR 1977			+ 4.56			+ .13

* Elevations or gage heights at 2400 hours, by interpolation.

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04261000 OSWEGATCHIE RIVER AT CRANBERRY LAKE, NY

LOCATION.--Lat 44°13'15", long 74°51'00", St. Lawrence County, Hydrologic Unit 04150302, on right bank 900 ft (274 m) downstream from dam at outlet of Cranberry Lake, at village of Cranberry Lake.

DRAINAGE AREA.--144 mi² (373 km²).

PERIOD OF RECORD.--May 1923 to current year. Prior to October 1958, published as "East Branch Oswegatchie River at Cranberry Lake."

GAGE.--Water-stage recorder. Datum of gage is 1,458.23 ft (444.468 m) above mean sea level. Prior to Oct. 1, 1938, nonrecording gage at site 80 ft (24 m) upstream at same datum.

REMARKS.--Records good. Since 1867, flow regulated by Cranberry Lake.

AVERAGE DISCHARGE.--54 years, 290 ft³/s (8.213 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,940 ft³/s (54.9 m³/s) May 13, 1943, gage height, 7.70 ft (2.347 m); minimum daily, 3 ft³/s (0.085 m³/s) Apr. 9-16, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,030 ft³/s (29.2 m³/s) Apr. 26, 27; minimum daily, 155 ft³/s (4.39 m³/s) June 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	690	368	358	293	309	701	741	196	165	164	168
2	145	701	370	358	295	307	732	621	197	164	164	168
3	182	701	374	358	295	306	758	352	197	164	164	168
4	217	698	372	352	295	304	778	236	197	164	163	168
5	292	651	372	352	295	306	790	236	196	164	163	168
6	292	554	371	352	295	304	805	239	195	164	164	181
7	292	551	370	352	295	304	806	239	195	163	164	209
8	320	550	373	349	295	302	806	239	196	163	164	207
9	378	550	375	349	295	301	798	239	194	162	164	207
10	427	547	372	349	295	301	786	242	194	162	164	207
11	464	546	371	345	307	301	775	245	194	164	164	206
12	500	468	372	345	326	304	774	245	194	164	164	206
13	555	304	372	345	325	311	748	268	194	164	164	207
14	555	304	371	342	320	404	696	320	194	164	164	208
15	555	304	369	342	320	584	789	320	193	164	164	224
16	555	304	368	342	320	607	912	295	193	166	164	254
17	550	303	368	345	320	624	914	245	193	166	166	254
18	550	329	368	345	320	632	876	228	194	166	166	255
19	488	371	366	342	310	639	628	209	194	166	166	256
20	399	370	365	342	310	640	355	206	194	165	166	299
21	517	369	366	333	310	640	214	206	194	164	166	392
22	705	368	366	314	310	638	212	204	193	164	168	392
23	710	368	365	312	310	642	194	202	192	164	168	392
24	710	368	365	310	310	639	573	202	193	164	168	392
25	710	367	364	297	311	634	958	202	192	164	168	392
26	705	365	362	292	311	629	1030	199	192	164	169	392
27	705	365	362	292	309	624	1030	199	181	164	169	392
28	705	366	362	292	310	619	1010	199	155	164	169	392
29	701	368	361	292	---	620	911	197	160	164	169	392
30	701	368	360	292	---	633	746	197	165	164	169	393
31	696	---	358	292	---	667	---	195	---	164	168	---
TOTAL	15506	13468	11398	10282	8607	15075	22105	8167	5711	5088	5137	8141
MEAN	500	449	368	332	307	486	737	263	190	164	166	271
MAX	710	701	375	358	326	667	1030	741	197	166	169	393
MIN	182	303	358	292	293	301	194	195	155	162	163	168
CAL YR 1976	TOTAL	159554	MEAN 436	MAX 1140	MIN 173							
WTR YR 1977	TOTAL	128685	MEAN 353	MAX 1030	MIN 155							

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

431

04262500 WEST BRANCH OSWEGATCHIE RIVER NEAR HARRISVILLE, NY

LOCATION.--Lat 44°11'08", long 75°19'52", Lewis County, Hydrologic Unit 04150302, on right bank just downstream from highway bridge, 0.5 mi (0.8 km) northeast of Geers Corners, 1.5 mi (2.4 km) downstream from Big Creek, and 4.0 mi (6.4 km) downstream from Harrisville.

DRAINAGE AREA.--258 mi² (668 km²).

PERIOD OF RECORD.--July 1916 to current year.

REVISED RECORDS.--WSP 759: Drainage area. WSP 784: 1934.

GAGE.--Water-stage recorder. Datum of gage is 738.51 ft (225.098 m) above mean sea level. Prior to Nov. 30, 1933, nonrecording gage at same site and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--61 years, 509 ft³/s (14.41 m³/s), 26.79 in/yr (680 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,080 ft³/s (200 m³/s) Mar. 15, 1977, gage height, 9.31 ft (2.838 m); maximum gage height, 9.6 ft (2.93 m) Jan. 9, 1930; minimum discharge, 25 ft³/s (0.71 m³/s) Sept. 1, 1934, gage height, 0.86 ft (0.262 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,300 ft³/s (93 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 15	0900	*7,080 200	*9.31 2.838	Apr. 1	0200	4,830 137	7.54 2.298

Minimum discharge, 63 ft³/s (1.78 m³/s) July 29, gage height, 1.35 ft (0.411 m); minimum daily, 72 ft³/s (2.04 m³/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	646	892	673	260	170	530	4560	733	157	139	129	146
2	513	1060	639	250	170	512	3610	633	163	129	124	136
3	420	1010	580	240	170	489	2630	615	202	112	102	142
4	344	890	540	230	170	457	2290	565	215	108	95	144
5	285	783	505	230	170	544	2050	501	200	100	97	144
6	251	698	436	220	170	647	1860	554	175	106	116	131
7	227	625	481	220	170	641	1700	707	157	99	148	119
8	239	572	736	210	170	599	1430	694	157	106	175	110
9	484	518	866	210	170	574	1190	700	157	117	152	96
10	1560	472	796	210	174	685	991	806	153	124	129	95
11	2810	444	702	200	176	907	923	840	150	116	124	81
12	2280	391	621	200	185	1180	929	779	144	108	125	80
13	1680	382	538	200	201	2050	1190	663	142	106	127	92
14	1220	374	452	200	218	4790	1680	570	141	120	129	261
15	964	360	424	190	219	6820	2100	487	132	120	120	767
16	816	351	399	190	210	5880	1940	425	125	130	139	903
17	710	338	376	190	203	4790	1520	377	119	150	393	799
18	631	336	357	190	197	3440	1220	343	122	135	840	764
19	561	345	332	190	193	2190	1010	357	137	117	881	730
20	499	358	341	188	190	1740	929	365	130	102	627	665
21	786	342	454	191	186	1400	863	335	141	95	430	894
22	1730	318	538	190	183	1150	834	300	144	89	369	1040
23	2250	310	514	191	181	811	953	268	132	97	406	963
24	1950	307	460	190	182	817	1550	238	119	85	399	775
25	1600	307	419	188	269	451	2310	221	111	80	411	607
26	1420	320	392	184	361	759	2310	207	109	88	403	522
27	1300	539	359	180	421	682	1820	194	124	85	339	559
28	1110	830	322	170	514	726	1410	182	127	84	271	641
29	922	940	306	170	---	1150	1110	182	122	75	224	796
30	788	815	290	170	---	2650	886	180	134	72	186	917
31	750	---	274	170	---	4200	---	170	---	116	163	---
TOTAL	31746	16227	15122	6212	5993	54661	49798	14191	4341	3310	8373	14119
MEAN	1024	541	488	200	214	1763	1660	458	145	107	270	471
MAX	2810	1060	866	260	514	6820	4560	840	215	150	881	1040
MIN	227	307	274	170	170	457	834	170	109	72	95	80
CFSM	3.97	2.10	1.89	.78	.83	6.83	6.43	1.78	.56	.41	1.05	1.83
IN.	4.58	2.34	2.18	.90	.86	7.88	7.18	2.05	.63	.48	1.21	2.04

CAL YR 1976 TOTAL 287972 MEAN 787 MAX 3900 MIN 147 CFSM 3.05 IN 41.52
WTR YR 1977 TOTAL 224093 MEAN 614 MAX 6820 MIN 72 CFSM 2.38 IN 32.31

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04263000 OSWEGATCHIE RIVER NEAR HEUVELTON, NY

LOCATION.--Lat 44°35'58", long 75°22'45", St. Lawrence County, Hydrologic Unit 04150302, on right bank 1.5 mi (2.4 km) downstream from Beaver Creek, and 2.5 mi (4.0 km) upstream from Heuvelton.

DRAINAGE AREA.--973 mi² (2,520 km²).

PERIOD OF RECORD.--June 1916 to current year.

REVISED RECORDS.--WSP 759: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 288.85 ft (88.041 m) above mean sea level. Prior to Sept. 16, 1916, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Since 1867, seasonal flow regulated by Cranberry Lake; slight diurnal fluctuation at low flow and medium flow caused by powerplants. During high stages on Grass River, part of flow of that stream may pass through Upper Lake, Indian Creek and Lower Lake and enter Oswegatchie River at Rensselaer Falls, 4.5 mi (7.2 km) above station. In October 1973, a dike was installed on Indian Creek to prevent overflow of Grass River during high flows.

AVERAGE DISCHARGE.--61 years, 1,702 ft³/s (48.20 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft³/s (555 m³/s) Apr. 6, 1960, gage height, 10.36 ft (3.158 m); minimum recorded, 130 ft³/s (3.68 m³/s) Aug. 17, 1949, gage height, 0.47 ft (0.143 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,800 ft³/s (447 m³/s) Mar. 17, gage height, 9.19 ft (2.801 m); minimum, 333 ft³/s (9.43 m³/s) July 26, gage height, 0.95 ft (0.290 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2190	3070	2600	1100	800	2370	8530	3250	705	540	375	640
2	1710	3320	2150	1100	800	2520	8980	2810	684	480	392	611
3	1560	3360	1770	1050	800	2430	9160	2660	642	473	383	568
4	1530	3140	1700	1000	820	2250	8360	2440	810	469	394	450
5	1320	2950	1600	996	820	2520	7410	2160	633	438	399	479
6	1050	2630	1600	1000	820	3640	6640	1780	595	414	411	537
7	857	2400	1580	991	820	3440	5960	1760	556	535	462	563
8	771	2230	1900	950	820	3570	5380	1750	629	584	657	546
9	939	2020	2300	940	820	3610	4810	1660	557	488	582	528
10	2540	1840	2400	941	820	4370	4330	1950	603	484	523	477
11	4780	1680	2200	918	820	5310	3800	2030	650	471	517	455
12	5500	1530	2100	920	820	6080	3380	1840	607	473	536	424
13	5190	1430	2000	920	880	7360	3300	1860	576	472	477	507
14	4210	1380	1800	894	940	9990	3460	1680	562	484	476	769
15	3590	1410	1690	900	1000	13300	4130	1450	621	522	589	1780
16	3150	1260	1460	900	1000	15100	4560	1410	598	585	496	2370
17	2660	1260	1400	900	1000	15700	4550	1280	574	546	1330	2320
18	2140	1320	1300	900	980	14800	4180	1250	574	545	2410	2190
19	1890	1160	1300	900	980	12600	3680	1370	719	495	2470	1980
20	1850	1210	1270	900	940	9450	3220	1130	661	489	2190	1810
21	2570	1160	1540	900	920	7550	2690	1110	529	501	1720	1950
22	4290	1190	1900	900	923	5900	2480	959	874	482	1450	2300
23	5020	1210	1780	880	877	4700	2380	928	928	488	1430	2770
24	5040	1160	1670	880	990	3940	3160	857	727	430	1450	2600
25	5040	1160	1490	880	1170	3810	4300	944	559	379	1400	2300
26	4740	1220	1380	860	1280	3440	5150	866	506	359	1420	2140
27	4390	1460	1300	850	1510	3190	5470	671	450	472	1250	2370
28	3920	2250	1300	840	1890	3020	5270	631	429	423	1070	2240
29	3470	2710	1200	800	---	4110	4620	632	497	405	956	2250
30	3040	2780	1200	800	---	7090	3900	656	536	414	855	2340
31	2730	---	1100	780	---	7970	---	646	---	403	778	---
TOTAL	93727	56900	51980	28530	27060	196130	147240	46420	18591	14743	29848	43264
MEAN	3023	1897	1677	920	966	6327	4908	1497	620	476	963	1442
MAX	5500	3360	2600	1100	1890	15700	9160	3250	928	585	2470	2770
MIN	771	1160	1100	780	800	2250	2380	631	429	359	375	424
CAL YR 1976 TOTAL	955177			2610	10700	598						
WTR YR 1977 TOTAL	754433			2067	15700	359						

ST. LAWRENCE RIVER MAIN STEM

433

04264050 ST. LAWRENCE RIVER NEAR WADDINGTON, NY

LOCATION.--Lat 44°51'27", long 75°14'46", St. Lawrence County, Hydrologic Unit 04150301, on right bank at Leishman Point, 2.1 mi (3.4 km) west of Waddington, 2.5 mi (4.0 km) upstream from Sucker Brook, and 3.5 mi (5.3 km) downstream from Iroquois Dam.

DRAINAGE AREA.--298,500 mi² (773,100 km²).

PERIOD OF RECORD.--January 1976 to November 1976.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (International Great Lakes Datum).

REMARKS.--Flow regulated by international agreement administered by International St. Lawrence River Board of control under the International Joint Commission. Records do not include water diverted from Lake Michigan by Chicago Sanitary and Ship Canal, operation of which began in 1900. Records include water diverted into Lake Superior from Hudson Bay drainage by the Long Lake Project, operation of which began in July 1939, and by the Ogoki Project, operation of which began in July 1943.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 244.80 ft (74.615 m) Apr. 6, 1976; minimum daily, 237.09 ft (72.265 m) Feb. 15, 1976.

EXTREMES FOR CURRENT PERIOD.--Maximum daily elevation during period October to November 1976, 240.82 ft (73.402 m) Oct. 22; minimum daily, 239.10 ft (72.878 m) Nov. 26.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	240.21	239.70										
2	240.16	239.72										
3	240.06	239.89										
4	239.95	239.77										
5	239.99	239.76										
6	240.02	239.97										
7	240.05	240.02										
8	239.78	239.64										
9	239.43	239.52										
10	239.96	239.50										
11	240.07	239.48										
12	240.09	239.47										
13	240.36	239.60										
14	240.51	240.18										
15	240.51	239.88										
16	240.56	239.59										
17	240.21	239.58										
18	240.08	239.53										
19	239.84	239.53										
20	239.56	239.34										
21	240.37	239.37										
22	240.82	239.63										
23	240.52	239.77										
24	239.58	239.63										
25	239.60	239.28										
26	239.60	239.10										
27	239.60	239.42										
28	240.00	239.71										
29	240.76	239.60										
30	240.36	239.50										
31	239.84	---										
MEAN	240.08	239.62	---	---								
MAX	240.82	240.18	---	---								
MIN	239.43	239.10	---	---								

Note.--No gage-height record Nov. 29 to Sept. 30.

ST. LAWRENCE RIVER MAIN STEM

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY
(National stream-quality accounting network station)

LOCATION.--Lat 45°00'22", long 74°47'43", Stormont County, Ontario--St. Lawrence County, N.Y., Hydrologic Unit 04150301, at Robert Moses-Robert H. Saunders power dam on Lake St. Lawrence at the International Boundary at Cornwall, Ontario, 2.9 mi (4.7 km) upstream from Grass River, 6.2 mi (10.0 km) upstream from Raquette River, and 5.9 mi (9.5 km) northeast of Massena, N.Y.. Water-quality samples collected at power dam from taps at generators 17 and 30.

DRAINAGE AREA.--298,800 mi² 773,890 km².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1860 to current year. Monthly discharges only for some periods published in WSP 1307. Prior to October 1971 published as 04264000 "St. Lawrence River at Ogdensburg."

REVISED RECORDS.--WSP 1437: 1870, 1874, 1881, 1883, 1890.

GAGE.--There is no gage. Discharge is determined from summation of discharge through the Robert Moses-Robert H. Saunders power dam, the Long Sault Dam, the Massena Diversion, the Rasin River Diversion, the Cornwall and Massena municipal water supply, and the Cornwall and the Wiley-Dondero navigation canals. U.S.-Canada coordinated discharge figures supplied by Corps of Engineers. Prior to 1956, base gage at lock 25 at Iroquois Ont., with supplementary gages. August 1956 to June 1958, base gage at lock 24 between Iroquois and Morrisburg, Ont., and supplementary gages. Prior to Aug. 1956, these were gages of the Canadian Hydrographic Service and from August 1956 to June 1958, were gages of the Hydro-Electric Power Commission of Ontario. Discharge in the reach of river at Cornwall, Ont.--near Massena, N.Y. is considered to be the same as discharge at Ogdensburg, N.Y. when adjusted for storage in Lake St. Lawrence.

REMARKS.--Since July 1958, flow regulated by international agreement administered by International St. Lawrence River Board of Control under the International Joint Commission. Records do not include water diverted from Lake Michigan by Illinois and Michigan Canal during period of its operation prior to 1910 and by Chicago Sanitary and Ship Canal, which began operation in 1900. Records include water diverted into Lake Superior from Hudson Bay drainage by the Long Lake Project, which began operation in July 1939, and by the Ogoki project, which began operation in July 1943.

COOPERATION.--Records of daily discharge furnished by Detroit District, Corps of Engineers through International St. Lawrence River Board of Control.

AVERAGE DISCHARGE.--117 years (1860-1977), 241,800 ft³/s (6,848 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 352,000 ft³/s (9,969 m³/s) June 22, 1976; minimum daily, 139,000 ft³/s (3,940 m³/s) Feb. 7, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum monthly discharge, 350,000 ft³/s (9,910 m³/s) July 1973; minimum monthly, 154,000 ft³/s (4,360 m³/s) Feb. 1936.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 307,000 ft³/s (8,694 m³/s) Oct. 4; minimum daily, 200,000 ft³/s (5,664 m³/s) Jan. 15, 16, 22, 23, Feb. 5, 6, 12, 13, 19, 20, 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	306000	298000	285000	220000	232000	228000	266000	283000	278000	243000	252000	266000
2	306000	298000	285000	220000	215000	228000	265000	283000	277000	243000	252000	266000
3	306000	298000	285000	225000	215000	233000	265000	283000	269000	243000	252000	271000
4	307000	298000	255000	230000	215000	233000	265000	283000	272000	243000	252000	271000
5	306000	298000	230000	230000	200000	210000	268000	283000	273000	243000	252000	271000
6	306000	300000	237000	230000	200000	210000	272000	283000	264000	243000	254000	271000
7	306000	300000	254000	230000	219000	238000	272000	282000	276000	243000	254000	271000
8	306000	300000	267000	220000	215000	238000	272000	282000	275000	243000	254000	271000
9	301000	300000	230000	220000	215000	238000	277000	282000	272000	249000	254000	271000
10	301000	300000	236000	235000	215000	238000	277000	282000	272000	249000	254000	274000
11	302000	300000	241000	219000	215000	238000	277000	282000	266000	249000	254000	274000
12	301000	300000	240000	220000	200000	248000	277000	282000	265000	249000	254000	274000
13	301000	300000	240000	220000	200000	248000	277000	282000	265000	249000	262000	274000
14	301000	299000	240000	220000	221000	248000	277000	280000	265000	249000	262000	274000
15	301000	299000	240000	200000	222000	248000	277000	280000	265000	249000	262000	274000
16	300000	299000	240000	200000	221000	248000	280000	280000	265000	252000	262000	275000
17	300000	299000	240000	235000	221000	248000	280000	280000	265000	252000	262000	277000
18	300000	299000	240000	228000	221000	248000	280000	280000	260000	252000	262000	277000
19	300000	299000	240000	228000	200000	258000	280000	280000	260000	252000	262000	277000
20	300000	296000	240000	228000	200000	258000	280000	280000	260000	252000	264000	277000
21	300000	296000	240000	228000	226000	258000	280000	279000	260000	252000	264000	277000
22	300000	296000	240000	200000	226000	259000	280000	279000	260000	252000	264000	277000
23	299000	296000	238000	200000	226000	259000	277000	279000	260000	254000	264000	277000
24	299000	296000	219000	228000	226000	258000	277000	279000	260000	254000	264000	287000
25	299000	296000	220000	228000	226000	258000	277000	279000	250000	254000	264000	287000
26	299000	296000	220000	228000	200000	265000	277000	279000	250000	254000	264000	287000
27	300000	285000	220000	228000	200000	265000	277000	279000	247000	254000	266000	287000
28	299000	286000	217000	228000	228000	265000	277000	275000	243000	254000	266000	287000
29	299000	285000	210000	205000	---	265000	277000	275000	243000	254000	266000	287000
30	298000	285000	207000	205000	---	265000	283000	275000	243000	252000	266000	287000
31	298000	---	220000	233000	---	265000	---	275000	---	252000	266000	---
TOTAL	9347000	8897000	7416000	6869000	6019000	7666000	8266000	8685000	7880000	7733000	8050000	8296000
MEAN	301500	296600	239200	221600	215000	247300	275500	280200	262700	249500	259700	276500
MAX	307000	300000	285000	235000	232000	265000	283000	283000	278000	254000	266000	287000
MIN	298000	285000	207000	200000	200000	210000	265000	275000	243000	243000	252000	266000
CAL YR 1976 TOTAL	109870000			MEAN 300200		MAX 352000		MIN 207000				
WTR YR 1977 TOTAL	95124000			MEAN 260600		MAX 307000		MIN 200000				

ST. LAWRENCE RIVER MAIN STEM

435

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year. Prior to October 1970, published as "near Massena, NY."

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to current year.

WATER TEMPERATURES: January 1966 to current year.

REMARKS.--Temperature measurements made approximately 68 ft (21 m) below normal forebay level. Unpublished temperature records for October 1955 to October 1958 collected at Aluminum Company of America Massena Canal power station are available in files of the Geological Survey. No specific-conductance record Oct. 23, 25, Jan. 3, 4, and Mar. 22. No temperature record Oct. 23, 25, Dec. 16, and Jan. 3, 4.

COOPERATION.--Water-temperature record furnished by the Power Authority of the State of New York.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 380 micromhos June 15, 1976 and Sept. 18, 1977; minimum daily, 270 micromhos Apr. 18-20, 1977.

WATER TEMPERATURES: Maximum daily, 24.5°C on several days in August and September 1973 and August 1975; minimum, freezing point on many days during winter periods except 1972-74, 77.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 380 micromhos Sept. 18; minimum daily, 270 micromhos Apr. 18-20.

WATER TEMPERATURES: Maximum daily, 22.5°C Aug. 10-16; minimum daily, 0.5°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	STREPTO- COCCI (COL- ONIES PER 100 ML)	FECAL STREPTO- COCCI KF AGAR (COL. PER 100 ML)
OCT 26...	0945	299000	310	7.9	4.5	3	10.0	93	B12	B4	--
NOV 24...	1000	296000	320	7.7	4.0	4	10.8	90	B20	--	24
DEC 27...	1045	220000	330	7.7	.5	2	12.8	93	2	--	11
JAN 26...	1030	228000	340	7.3	.5	3	9.6	90	26	--	110
FEB 24...	1030	226000	340	7.4	.5	0	12.0	92	B7	--	48
MAR 28...	1000	265000	320	7.7	1.0	1	11.0	80	--	--	--
APR 25...	0945	277000	300	7.9	4.0	2	10.7	82	B1	--	B5
MAY 25...	1030	279000	330	8.0	11.5	2	8.2	82	B3	--	<1
JUN 27...	0930	250000	370	7.8	16.0	1	7.9	81	B2	--	B2
JUL 26...	1000	250000	320	7.9	21.5	2	8.8	99	B3	--	B2
AUG 29...	1030	266000	320	7.8	21.0	2	7.6	87	B1	--	B2
SEP 26...	1100	287000	330	7.7	12.0	1	9.3	9	B11	--	B10

B Results based on colony count outside the acceptable range (non-ideal colony count).

ST. LAWRENCE RIVER MAIN STEM

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT										
26...	120	32	37	7.7	12	1.5	112	0	92	29
NOV										
24...	130	35	39	7.3	13	1.4	113	0	93	28
DEC										
27...	130	39	39	8.2	13	1.4	112	0	92	26
JAN										
26...	130	28	41	6.5	13	1.5	123	0	101	27
FEB										
24...	140	51	41	8.0	13	1.5	103	0	84	28
MAR										
28...	130	34	38	7.5	12	1.4	112	0	92	33
APR										
25...	120	39	36	7.5	12	1.4	100	0	82	26
MAY										
25...	140	45	41	7.9	12	1.6	110	0	90	26
JUN										
27...	130	38	38	8.0	13	1.6	110	0	90	27
JUL										
26...	130	40	39	8.0	13	1.5	110	0	90	26
AUG										
29...	130	46	37	8.0	13	1.6	97	0	80	26
SEP										
26...	120	42	37	7.8	13	1.6	100	0	82	28

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT										
26...	29	.2	.5	186	172	.15	.18	.33	.05	3.8
NOV										
24...	28	.1	.1	178	173	.20	.20	.40	.03	--
DEC										
27...	28	.1	.3	185	171	.25	.08	.33	.03	--
JAN										
26...	29	.1	.8	193	180	.65	.28	.93	.03	13
FEB										
24...	30	.1	.6	206	173	.32	.37	.69	.03	--
MAR										
28...	27	.1	1.9	162	176	.35	.40	.75	.04	--
APR										
25...	26	.1	.2	182	159	.29	.30	.59	.03	--
MAY										
25...	26	.1	.1	204	169	.18	.31	.49	.03	--
JUN										
27...	27	.1	.2	184	169	.12	.27	.39	.04	--
JUL										
26...	27	.1	.5	190	169	.11	.35	.46	.02	5.6
AUG										
29...	28	.1	.5	188	162	.08	.27	.35	.02	5.8
SEP										
26...	27	.1	.5	174	164	.10	.43	.53	.02	--

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

WATER QUALITY DATA, WATER OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT 26...	0945	2	1	0	0	<10	<10	0	0	10	10	80
JAN 26...	1030	1	0	2	0	<10	<10	0	0	0	0	640
JUL 26...	1000	--	1	0	--	--	1	--	--	--	--	--
AUG 29...	1030	0	0	0	0	10	0	0	0	11	3	1500

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 26...	20	4	0	10	0	<.5	<.5	0	0	20	30
JAN 26...	0	6	4	10	10	<.5	<.5	0	0	280	210
JUL 26...	0	--	--	--	0	--	.0	--	--	--	20
AUG 29...	50	14	3	20	0	.0	.0	0	0	40	10

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED NATURAL URANIUM (U) (UG/L)	DIS-SOLVED URANIUM (U) (UG/L)
FEB 24...	1030	<2.6	<.4	4.5	<.4	3.6	<.4	.04	.0	.20

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDIMENT (MG/L)	SUS-PENDED SEDIMENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. & FINER THAN .062 MM	DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDIMENT (MG/L)	SUS-PENDED SEDIMENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. & FINER THAN .062 MM
OCT 26...	0945	299000	2	1620	100	JUL 26...	1000	250000	3	2030	100
NOV 24...	1000	296000	2	1600	100	AUG 29...	1030	266000	2	1440	100
JUN 27...	0930	250000	17	11500	45	SEP 26...	1100	287000	1	775	100

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, MAY TO AUGUST 1976

PERIPHYTON

Dates of exposure	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
June 9 to Aug. 10	63	0.393	0.314	0.009	0.000	8778	Polyethylene strip
Aug. 10 to Sept. 12	34	4.96	3.78	.640	.171	1844	Polyethylene strip
Sept. 12 to Oct. 13	32	9.84	1.50	.665	.038	12540	Polyethylene strip

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	OCT 26,76 0945	NOV 24,76 1000	DEC 27,76 1045	JAN 26,77 1030	FEB 24,77 1030
TOTAL CELLS/ML	1000	1700	1900	49	230
DIVERSITY: DIVISION	1.7	1.6	1.4	0.7	1.6
..CLASS	1.7	1.9	1.4	0.7	1.6
..ORDER	1.9	2.3	1.7	1.4	1.8
...FAMILY	2.8	2.5	2.4	1.4	2.0
....GENUS	3.1	2.8	3.0	2.2	2.1

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	--	-
....CUELASTHACEAE										
....CUELASTHUM	--	-	--	-	44	2	--	-	--	-
....HYDRODICTYACEAE										
....PEDIASTHUM	87	9	77	5	--	-	--	-	--	-
....MICRACINIACEAE										
....MICRACINIUM	--	-	--	-	--	-	--	-	--	-
....OOCYSTACEAE										
....ANKISTHODESMUS	25	2	* 0		22	1	10# 21		6	3
....OOCYSTIS	50	5	19	1	* 0		--	-	--	-
....SELENASTHUM	--	-	--	-	--	-	--	-	--	-
....TETRAEDRUM	--	-	--	-	--	-	--	-	--	-
....WESTELLA	99	10	--	-	--	-	--	-	--	-
....SCENEDESMACEAE										
....SCENEDESMUS	99	10	24	1	44	2	--	-	40# 17	
..TETRASPOALES										
...CUCCOMYXACEAE										
....ELAKATOTHRIX	--	-	--	-	--	-	--	-	--	-
....PALMELLACEAE										
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-	--	-
..ULOTRICHIALES										
...ULOTRICHACEAE										
....ULOTHRIX	--	-	48	3	--	-	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	* 0		11	1	--	-	--	-
..ZYGEMATALES										
...DESMIDIACEAE										
....CUSMARIUM	--	-	--	-	--	-	--	-	--	-
....STAUSTRUM	6	1	10	1	--	-	--	-	--	-
CHRYSTOPHYTA										
..BACILLARIOPHYCEAE										
...PENNIALES										
....NAVICULACEAE										
....ENTOMONEIS	6	1	--	-	--	-	--	-	--	-
...CENTRALES										
....COSCINODISCACEAE										
....CYCLOTELLA	31	3	63	4	270	14	14# 29		6	3
....MELOSIRA	--	-	220	13	150	8	14# 29		24	11
....STEPHANODISCUS	--	-	63	4	17	1	--	-	--	-
...PENNIALES										
....ACHNANTHACEAE										
....CUCCONEIS	6	1	--	-	* 0		--	-	--	-
...DIATOMACEAE										
....DIATOMA	--	-	--	-	11	1	--	-	--	-
....FRAGILARIACEAE										
....ASTERIONELLA	12	1	34	2	100	5	7	14	3	1
....FRAGILARIA	370# 37		* 0		28	1	--	-	--	-
....SYNEDRA	--	-	--	-	72	4	3	7	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	6	1	--	-	--	-	--	-	--	-
...NAVICULACEAE										
....NAVICULA	6	1	19	1	--	-	--	-	--	-
...NITZSCHIAEAE										
....NANTZSCHIA	6	1	--	-	--	-	--	-	--	-
....NITZSCHIA	19	2	* 0		11	1	--	-	12	5
...SURIPELLACEAE										
....SURIPELLA	--	-	--	-	--	-	--	-	3	1
...TABELLARIACEAE										
....TABELLARIA	--	-	92	5	11	1	--	-	--	-
..CHRYSTOPHYCEAE										
...CHRYSOMONADALES										
....UCHROMONADACEAE										
....DINOBYRON	--	-	--	-	--	-	--	-	--	-
....UCHROMONAS	--	-	92	5	--	-	--	-	--	-
..XANTHOPHYCEAE										
...ETEROCOCCALES										
...CENTRITRACTACEAE										
....CENTRITRACTUS	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	MAY 25,77 1030	JUN 27,77 0930	JUL 26,77 1000	AUG 29,77 1030	SEP 26,77 1100
TOTAL CELLS/ML	8400	1200	250	2100	1100
DIVERSITY: DIVISION	1.7	1.8	1.2	1.6	1.2
..CLASS	1.8	2.0	1.2	1.7	1.2
..ORDER	2.2	2.3	1.6	2.1	1.7
...FAMILY	2.5	2.7	2.3	2.7	2.0
....GENUS	2.5	2.8	2.8	2.9	2.0

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCOCCALES										
....CHARACIACEAE										
....SCHROEDERIA	68	1	--	--	30	12	--	--	--	--
....COELASTRACEAE										
....COELASTRUM	--	--	--	--	--	--	--	--	140	13
....HYDRODICTYACEAE										
....PEDIASTRUM	270	3	--	--	--	--	560#	26	--	--
....MICRACINIACEAE										
....MICRACINIUM	--	--	--	--	--	--	71	3	--	--
....OUCYSTACEAE										
....ANKISTRUESMUS	440	5	33	3	10	4	--	--	--	--
....OUCYSTIS	--	--	--	--	90#	36	--	--	--	--
....SELENASTRUM	--	--	--	--	5	2	--	--	--	--
....TETRAEDRON	--	--	--	--	10	4	--	--	--	--
....WESTELLA	--	--	--	--	--	--	--	--	--	--
....SCENEDESMACEAE										
....SCENEDESMUS	200	2	51	5	10	4	410#	19	70	6
....TETRASPOALES										
....CUCCOMYXACEAE										
....ELAKATOTHIKIX	--	--	12	1	--	--	--	--	--	--
....PALMELLACEAE										
....SPHAEROCYSTIS	--	--	30	3	--	--	71	3	--	--
....ULOTRICHALES										
....ULOTRICHACEAE										
....ULOTRIKIX	--	--	--	--	--	--	--	--	--	--
....VOLVOCALES										
....CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	820	10	--	--	15	6	97	5	--	--
....ZYGNEMALES										
....DESMIDIACEAE										
....COSMARIIUM	--	--	*	0	--	--	--	--	--	--
....STAUROSTRUM	--	--	--	--	--	--	--	--	--	--
CHRYSOPHYTA										
..BACILLARIOPHYCEAE										
...PENNALES										
....NAVICULACEAE										
....ENTOMONEIS	--	--	--	--	--	--	--	--	--	--
...CENTRALES										
....COSCINODISCACEAE										
....CYCLOTELLA	750	9	9	1	10	4	380#	18	--	--
....MELOSIRA	--	--	51	4	--	--	140	7	590#	53
....STEPHANODISCUS	--	--	--	--	--	--	--	--	--	--
...PENNALES										
....ACHNANTHACEAE										
....COCCONEIS	--	--	--	--	5	2	--	--	35	3
....DIATOMACEAE										
....DIATOMA	--	--	--	--	--	--	--	--	--	--
....FRAGILARIACEAE										
....ASTERIONELLA	480	6	*	0	--	--	--	--	--	--
....FRAGILARIA	--	--	200#	17	--	--	--	--	--	--
....SYNEUKA	--	--	--	--	--	--	--	--	--	--
....GOMPHONEMACEAE										
....GOMPHONEMA	--	--	--	--	--	--	--	--	--	--
....NAVICULACEAE										
....NAVICULA	--	--	--	--	--	--	--	--	--	--
....NITZSCHIAEAE										
....NANTZSCHIA	--	--	--	--	--	--	--	--	--	--
....NITZSCHIA	68	1	--	--	15	6	--	--	--	--
....SURIPELLACEAE										
....SURIPELLA	--	--	--	--	--	--	--	--	--	--
....TABELLARIACEAE										
....TABELLARIA	--	--	21	2	--	--	--	--	140	13
..CHRYSOPHYCEAE										
...CHRYSOMONADALES										
....UCHROMONADACEAE										
....DINOBYRON	200	2	54	5	--	--	--	--	--	--
....UCHROMONAS	--	--	--	--	--	--	--	--	--	--
..XANTHOPHYCEAE										
...HETEROCOCCALES										
....CENTRITRACTACEAE										
....CENTRITRACTUS	--	--	--	--	--	--	18	1	--	--

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	OCT 26,76 0945		NOV 24,76 1000		DEC 27,76 1045		JAN 26,77 1030		FEB 24,77 1030	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROCOCCALES										
...CHROCOCCACEAE										
....ANACYSTIS	120	12	10	1	--	-	--	-	--	-
...HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	--	-	330#	18	--	-	--	-
...OSCILLATORIA										
....LYNGBYA	--	-	--	-	39	2	--	-	--	-
...OSCILLATORIA	--	-	810#	47	660#	36	--	-	130#	55
...CHROCOCCALES										
...CHROCOCCACEAE										
...GUMPHOSPHAERIA	--	-	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENIDS)										
..CRYPTOPHYCEAE										
...CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	31	3	--	-	--	-	--	-	--	-
...CRYPTOMONODACEAE										
....CRYPTOMONAS	12	1	110	7	33	2	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...GYMNODINIALES										
...GYMNODINIACEAE										
....GYMNODINIUM	6	1	--	-	--	-	--	-	--	-
...PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	--	-	9	4
...PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	*	0	--	-	--	-
DATE TIME	MAY 25,77 1030		JUN 27,77 0930		JUL 26,77 1000		AUG 29,77 1030		SEP 26,77 1100	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROCOCCALES										
...CHROCOCCACEAE										
....ANACYSTIS	100	1	--	-	--	-	88	4	140	13
...HORMOGONALES										
...NOSTOCACEAE										
....ANABAENA	--	-	12	1	50#	20	--	-	--	-
...OSCILLATORIA										
....LYNGBYA	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIA	4400#	53	520#	43	--	-	--	-	--	-
...CHROCOCCALES										
...CHROCOCCACEAE										
...GUMPHOSPHAERIA	--	-	--	-	--	-	18	1	--	-
EUGLENOPHYTA (EUGLENIDS)										
..CRYPTOPHYCEAE										
...CRYPTOMONIDALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	580	7	97	8	--	-	280	13	--	-
...CRYPTOMONODACEAE										
....CRYPTOMONAS	--	-	97	8	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...GYMNODINIALES										
...GYMNODINIACEAE										
....GYMNODINIUM	--	-	--	-	--	-	--	-	--	-
...PERIDINIALES										
...GLENODINIACEAE										
....GLENODINIUM	--	-	--	-	--	-	--	-	--	-
...PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	--	-	*	0	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ONCE DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	320	310	310	370	330	320	300	310	310	320	330	340
2	320	310	310	340	330	320	300	300	320	320	330	360
3	310	310	310	---	330	310	290	300	320	330	330	350
4	310	310	310	---	330	310	280	300	320	330	330	350
5	320	320	310	310	330	310	290	300	330	330	330	340
6	320	320	310	320	330	310	290	300	330	330	330	350
7	320	320	310	310	330	310	280	300	320	330	330	350
8	320	310	310	340	330	310	280	300	330	330	330	350
9	320	310	310	370	330	310	280	310	310	330	340	350
10	320	320	320	370	330	310	280	310	320	330	330	350
11	320	320	310	340	330	310	290	300	320	330	330	350
12	320	320	310	360	330	300	280	310	320	330	330	350
13	320	310	310	360	330	300	280	310	320	330	330	350
14	310	310	310	320	330	290	280	310	330	340	330	350
15	320	320	310	360	340	290	280	300	330	340	330	360
16	310	320	310	370	340	290	290	310	330	330	330	360
17	320	330	300	320	330	290	280	310	340	330	320	370
18	310	330	300	320	330	280	270	310	340	330	330	380
19	320	330	300	320	330	280	270	320	340	330	330	370
20	310	340	310	320	340	280	270	310	340	330	320	350
21	310	350	310	320	340	280	280	320	330	330	320	360
22	310	320	310	320	340	---	280	310	330	330	320	350
23	---	320	310	320	340	280	280	330	330	330	320	350
24	310	350	310	320	340	290	280	330	330	330	320	350
25	---	320	310	320	330	290	300	330	330	330	320	350
26	310	330	310	320	320	300	310	320	340	320	320	350
27	290	310	330	330	320	290	310	320	370	330	320	320
28	300	330	320	330	320	320	310	310	310	340	320	330
29	300	310	310	330	---	290	310	310	320	340	320	330
30	310	320	310	330	---	300	310	310	320	330	350	330
31	310	---	320	330	---	310	---	310	---	330	350	---
MEAN	313	321	311	334	331	299	288	310	328	330	328	350
WTR YR 1977	MEAN	320	MAX	380	MIN	270						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ONCE DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	8.0	4.0	0.5	0.5	0.5	3.0	4.0	14.0	18.0	21.0	21.0
2	16.0	8.0	3.5	0.5	0.5	0.5	3.0	4.5	14.0	18.0	21.5	21.5
3	16.0	8.0	3.5	---	0.5	0.5	3.0	5.0	13.5	18.0	21.5	21.5
4	16.0	8.0	2.0	---	0.5	0.5	3.0	5.0	13.5	18.0	21.5	21.5
5	16.0	8.0	2.0	0.5	0.5	0.5	3.0	6.0	14.0	18.0	22.0	21.5
6	16.0	8.0	2.0	0.5	0.5	0.5	3.0	6.5	14.0	18.0	22.0	21.5
7	16.0	8.0	2.0	0.5	0.5	0.5	2.5	7.0	13.5	18.0	22.0	21.5
8	16.0	7.5	2.0	0.5	0.5	0.5	2.0	7.0	13.5	18.0	22.0	21.0
9	15.5	7.5	2.0	0.5	0.5	0.5	2.0	6.5	13.0	18.5	22.0	21.0
10	14.5	7.0	1.0	0.5	0.5	0.5	2.5	6.5	13.0	19.0	22.5	21.0
11	14.0	7.0	1.0	0.5	0.5	0.5	2.5	7.0	13.0	19.0	22.5	21.0
12	14.0	6.5	1.0	0.5	0.5	0.5	3.0	7.0	13.5	19.0	22.5	20.0
13	14.0	6.5	1.0	0.5	0.5	0.5	3.5	7.5	13.0	19.0	22.5	20.0
14	14.0	6.0	1.0	0.5	0.5	0.5	3.0	7.5	13.0	19.0	22.5	20.0
15	13.5	6.0	0.5	0.5	0.5	0.5	3.0	8.0	13.5	19.0	22.5	19.5
16	13.0	6.0	---	0.5	0.5	0.5	3.0	8.0	13.0	19.5	22.5	19.0
17	13.0	6.0	0.5	0.5	0.5	0.5	3.5	8.0	13.0	20.0	22.0	19.0
18	12.0	6.0	0.5	0.5	0.5	0.5	4.0	9.0	13.0	20.0	22.0	19.0
19	12.0	6.0	0.5	0.5	0.5	0.5	4.0	9.0	13.5	21.0	21.0	19.0
20	11.5	6.0	0.5	0.5	0.5	0.5	4.0	10.0	13.5	21.0	21.0	19.0
21	11.5	6.0	0.5	0.5	0.5	0.5	4.5	10.0	13.5	21.0	21.0	18.0
22	11.0	5.0	0.5	0.5	0.5	0.5	4.5	11.0	14.0	21.5	21.0	18.0
23	---	5.0	0.5	0.5	0.5	0.5	4.5	11.0	14.0	21.5	21.0	18.0
24	10.5	5.0	0.5	0.5	0.5	0.0	4.5	11.0	15.0	21.5	20.5	18.0
25	---	5.0	0.5	0.5	0.5	0.0	4.0	11.5	15.0	21.5	20.5	17.5
26	9.5	5.0	0.5	0.5	0.5	0.0	4.0	12.0	15.5	21.5	20.0	17.5
27	9.0	5.0	0.5	0.5	0.5	0.0	4.0	12.0	16.0	21.0	20.0	17.0
28	9.0	5.0	0.5	0.5	0.5	0.0	4.0	12.0	16.0	21.0	20.5	17.0
29	8.5	5.0	0.5	0.5	---	1.0	4.0	12.5	16.5	21.0	21.0	17.0
30	8.5	4.5	0.5	0.5	---	2.0	4.0	12.5	17.0	21.0	21.5	16.5
31	8.5	---	0.5	0.5	---	2.0	---	13.0	---	21.0	21.0	---
MEAN	13.0	6.5	1.0	0.5	0.5	0.5	3.5	8.5	14.0	19.5	21.5	19.5
WTR YR 1977	MEAN	9.0	MAX	22.5	MIN	0.0						

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04265000 GRASS RIVER AT PYRITES, NY

LOCATION.--Lat 44°31'28", long 75°11'48", St. Lawrence County, Hydrologic Unit 04150304, on left bank 1,000 ft (305 m) downstream from lower bridge in Pyrites, and 0.5 mi (0.8 km) upstream from Harrison Creek.

DRAINAGE AREA.--335 mi² (868 km²).

PERIOD OF RECORD.--August 1924 to current year.

REVISED RECORDS.--WSP 759: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 350.61 ft (106.866 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Diurnal fluctuation at low flow caused by powerplant upstream from station.

AVERAGE DISCHARGE.--53 years, 607 ft³/s (17.19 m³/s), 24.61 in/yr (625 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 8,300 ft³/s (235 m³/s) Nov. 18, 1927, gage height, 13.0 ft (3.96 m), from floodmark; minimum daily, 59 ft³/s (1.67 m³/s) Aug. 29 to Sept. 1, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft³/s (100 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 15	0215	*6,930 196	*13.24 4.035	Apr. 1	0330	4,760 135	10.09 3.075

Minimum discharge, 93 ft³/s (2.63 m³/s) Aug. 5, gage height, 1.21 ft (0.369 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	360	1060	680	450	300	560	4540	852	237	261	237	230
2	303	1080	580	450	290	500	3660	842	244	217	197	271
3	268	940	560	460	290	600	2900	978	268	188	165	268
4	252	830	520	460	290	700	2650	888	268	178	148	251
5	225	725	500	460	290	720	2390	765	254	165	200	220
6	208	642	450	440	280	660	2180	715	230	160	392	241
7	199	588	540	440	270	700	1950	695	220	150	463	281
8	247	552	800	430	270	800	1650	625	230	155	364	241
9	722	495	880	430	260	1000	1310	715	251	207	264	207
10	2510	490	780	420	260	1600	1220	765	247	264	237	175
11	2830	464	680	410	270	2580	1220	700	234	278	360	158
12	1960	390	640	400	290	2950	1280	615	217	217	404	148
13	1370	439	600	400	320	4210	1730	556	214	210	329	163
14	1070	431	560	390	320	6050	2290	512	207	210	264	852
15	908	410	520	380	310	6630	2600	458	190	203	224	1320
16	766	402	490	370	300	5160	2190	423	183	695	241	1260
17	637	394	460	360	290	4110	1670	396	175	929	1870	894
18	555	394	450	350	280	3020	1290	384	170	640	2660	693
19	490	414	450	350	280	2240	1090	388	200	427	1910	522
20	466	443	500	340	270	1830	967	392	220	301	1120	508
21	1560	375	600	340	270	1590	893	372	207	247	630	936
22	2530	390	640	340	270	1340	888	345	203	288	512	981
23	2300	394	580	330	280	847	1540	318	203	274	605	742
24	1730	371	540	320	400	1010	2410	295	190	210	580	563
25	1370	371	500	310	500	1010	2890	274	175	175	630	455
26	1140	406	480	300	580	914	2640	257	193	165	566	549
27	965	715	470	300	600	805	2110	241	261	165	431	715
28	799	1080	470	290	580	950	1600	241	268	143	349	726
29	693	1110	460	290	---	2270	1240	268	247	140	295	885
30	634	692	450	280	---	3640	1010	281	264	150	264	906
31	710	---	450	290	---	4240	---	257	---	200	261	---
TOTAL	30777	17487	17280	11580	9210	65236	57998	15813	6670	8212	17172	16361
MEAN	993	583	557	374	329	2104	1933	510	222	265	554	545
MAX	2830	1110	880	460	600	6630	4540	978	268	929	2660	1320
MIN	199	371	450	280	260	500	888	241	170	140	148	148
CFSM	2.96	1.74	1.66	1.12	.98	6.28	5.77	1.52	.66	.79	1.65	1.63
IN.	3.42	1.94	1.92	1.29	1.02	7.24	6.44	1.76	.74	.91	1.91	1.82
CAL YR 1976	TOTAL	317982	MEAN 869	MAX 5380	MIN 165	CFSM 2.59	IN 35.31					
WTR YR 1977	TOTAL	273796	MEAN 750	MAX 6630	MIN 140	CFSM 2.24	IN 30.40					

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

443

04266500 RAQUETTE RIVER AT PIERCEFIELD, NY

LOCATION.--Lat 44°14'05", long 74°34'20", St. Lawrence County, Hydrologic Unit 04150305, on left bank 0.5 mi (0.8 km) downstream from powerplant at Piercefield, and 1.5 mi (2.4 km) upstream from Dead Creek.

DRAINAGE AREA.--722 mi² (1,870 km²).

PERIOD OF RECORD.--August 1908 to current year.

REVISED RECORDS.--WSP 604: 1924. WSP 759: Drainage area. WSP 1387: 1910, 1913, 1914(M), 1916, 1921.

GAGE.--Water-stage recorder. Datum of gage is 1,502.12 ft (457.846 m) above mean sea level. Prior to Oct. 22, 1912, non-recording gage at same site (datum of gage lowered 2 ft or 0.6 m Jan. 1, 1911, to present datum).

REMARKS.--Records good except those for winter periods, which are fair. Seasonal distribution of flow modified by natural storage in lakes and ponds upstream from station and by regulation of Forked Lake, Round Lake, Lows Lake, and Raquette Pond (Tupper Lake) at Setting Pole Dam. Extensive diurnal fluctuation caused by powerplant at Piercefield.

AVERAGE DISCHARGE.--69 years, 1,284 ft³/s (36.36 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,360 ft³/s (237 m³/s) May 8, 1972, gage height, 12.25 ft (3.734 m); minimum daily, 4.1 ft³/s (0.12 m³/s) Oct. 12, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,660 ft³/s (160 m³/s) Apr. 28, gage height, 10.39 ft (3.167 m); minimum, 68 ft³/s (1.92 m³/s) July 6, gage height, 1.87 ft (0.570 m); minimum daily, 345 ft³/s (9.77 m³/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1170	2760	1360	771	553	875	4160	5290	982	741	418	1330
2	1140	2760	1340	761	566	840	4340	5000	872	768	411	1260
3	1130	2740	1350	849	495	808	4490	4680	762	697	433	1060
4	1100	2680	1280	813	437	803	4660	4380	745	546	418	1070
5	1020	2610	1300	804	460	785	4770	4110	859	636	441	1080
6	964	2560	1300	787	458	804	4690	3810	853	399	462	1160
7	795	2510	1380	784	521	813	4610	3500	798	492	545	948
8	870	2440	1400	777	482	818	4330	3280	796	453	576	881
9	1110	2380	1410	752	501	842	3940	3050	847	501	512	965
10	1750	2310	1390	617	501	843	4190	2860	860	506	520	856
11	2240	2290	1330	616	507	953	3850	2760	676	552	522	754
12	2510	2120	1310	579	466	958	3750	2570	591	508	488	584
13	2570	1950	1370	577	503	1210	3770	2420	751	488	513	468
14	2510	1800	1390	599	567	1530	3930	2310	625	475	513	737
15	2510	1760	1370	588	569	1960	4090	2250	664	503	611	1040
16	2470	1610	1270	650	620	2300	4220	2040	655	647	694	1190
17	2420	1500	1270	618	566	2320	4330	1930	640	880	1090	1430
18	2350	1420	1050	593	614	2310	4330	1700	631	881	1450	1480
19	2330	1290	1230	588	634	2360	4300	1660	633	867	1760	1480
20	2270	1290	1130	650	569	2430	4210	1510	720	788	1960	1470
21	2540	1340	1120	625	587	3040	4100	1400	638	757	1870	1490
22	2890	1330	1120	618	619	3530	4000	1380	628	738	1850	1500
23	3040	1320	1080	608	729	3510	4080	1320	635	439	1790	1460
24	3100	1290	1040	618	803	3430	4440	1250	590	606	1760	1420
25	3180	1290	977	604	799	3300	4840	1290	524	698	1700	1420
26	3080	1290	975	606	887	3200	5260	1310	585	467	1640	1440
27	3030	1330	1010	564	831	3100	5520	1290	687	425	1520	1470
28	3000	1340	964	565	874	3010	5600	1160	695	382	1440	1620
29	2910	1390	919	619	---	3000	5580	992	811	386	1440	1840
30	2820	1420	861	552	---	3180	5490	1010	834	345	1430	2150
31	2800	---	749	608	---	3690	---	941	---	380	1420	---
TOTAL	67619	56120	37045	20360	16718	62552	133870	74453	21587	17951	32197	37053
MEAN	2181	1871	1195	657	597	2018	4462	2402	720	579	1039	1235
MAX	3180	2760	1410	849	887	3690	5600	5290	982	881	1960	2150
MIN	795	1290	749	552	437	785	3750	941	524	345	411	468
CAL YR 1976	TOTAL	751581	MEAN	2054	MAX	6850	MIN	599				
WTR YR 1977	TOTAL	577525	MEAN	1582	MAX	5600	MIN	345				

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04267500 RAQUETTE RIVER AT SOUTH COLTON, NY

LOCATION.--Lat 44°30'42", long 74°53'00", St. Lawrence County, Hydrologic Unit 04150305, on left bank 300 ft (91 m) upstream from bridge on State Highway 56 at South Colton, 500 ft (152 m) downstream from Niagara Mohawk Power Corp. powerplant, and 0.8 mi (1.3 km) upstream from Cold Brook.

DRAINAGE AREA.--939 mi² (2,432 km²).

PERIOD OF RECORD.--January 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 882.05 ft (268.849 m) above mean sea level.

REMARKS.--Records good except those for November, which are poor. Flow regulated 16 mi (26 km) upstream by Carry Falls Reservoir since 1953; considerable natural storage in large lakes above Piercefield. Large diurnal fluctuation caused by five powerplants.

AVERAGE DISCHARGE.--24 years, 1,724 ft³/s (48.82 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,720 ft³/s (275 m³/s) May 11, 1971, gage height, 9.80 ft (2.987 m); minimum, 1.3 ft³/s (0.037 m³/s) Feb. 1, 1962, Aug. 8, 1964, gage height, 1.53 ft (0.466 m); minimum daily, 4.6 ft³/s (0.13 m³/s) June 2, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,800 ft³/s (193 m³/s) Apr. 5, gage height, 8.23 ft (2.508 m); minimum, 12 ft³/s (0.34 m³/s) part of each day Oct. 5, Aug. 20-22, 27, 31, Sept. 4-7, 10, 11, 20, gage height, 1.79 ft (0.546 m); minimum daily, 55 ft³/s (1.56 m³/s) Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	3910	1600	1020	1580	1500	4590	4740	1400	1410	1040	1880
2	1470	3650	1800	1190	1240	1630	5080	4850	1290	487	1460	1740
3	1590	3230	1460	1380	1180	1300	5380	5300	1530	562	1730	1160
4	1430	3110	1500	1540	1220	1800	5310	5310	417	620	1610	716
5	1680	3340	1300	1190	1460	1140	5930	4860	690	1380	1360	801
6	1560	3190	1660	975	1400	1540	5870	4670	1720	1560	1200	1780
7	1530	3190	2070	1100	1160	1640	6190	4130	918	1550	337	1500
8	1640	3100	1800	1060	1390	1710	6230	3830	1520	1470	1420	1880
9	1540	3300	1840	1200	1770	1710	5910	3770	1480	957	1390	1440
10	1280	3400	2090	1810	1470	1660	5670	3740	963	696	1200	1080
11	1190	2300	1350	1520	1790	1450	5380	3620	500	1320	1650	887
12	1410	2300	1500	1750	1290	1540	4740	3450	1110	1600	1020	1070
13	1620	3300	2170	1850	377	1690	5360	3540	1930	1580	482	1560
14	1290	2900	2060	872	1440	2490	5330	3020	1520	1530	334	1310
15	1220	3100	1460	1770	1320	2460	5290	3040	1240	1870	1810	1330
16	329	3000	2560	1690	1760	2460	5420	1880	1240	842	1570	1340
17	309	2000	2000	1670	1240	3010	5480	2590	1510	267	1370	1790
18	1940	2300	1770	1750	1250	3000	5010	2020	1020	1710	1630	1200
19	1430	1700	1720	1170	677	2920	3890	2170	806	1550	1030	1730
20	1960	1300	1830	1100	1120	2980	3840	1960	1430	1530	469	1690
21	2460	3000	2610	1260	1290	2410	3830	1640	1450	1340	55	1620
22	3240	1800	1320	1750	1230	3030	3890	1940	1320	679	1680	1790
23	3220	1100	1530	1020	1660	2930	4150	1700	1300	771	966	1740
24	3020	1700	1360	1560	1280	3380	4240	1440	1570	636	1420	1360
25	3490	1800	1290	1600	1280	3690	4230	1430	1210	1080	1450	1720
26	3400	1200	1430	1110	1080	3800	4390	1660	1100	1000	1520	1570
27	3470	1400	1630	1400	1220	3790	5230	1770	1760	1250	974	1600
28	3660	1600	1160	1350	1630	3820	5460	1470	1330	1530	1170	1670
29	3660	2000	1450	896	---	4050	5440	1350	1830	1420	1430	1960
30	3750	1800	1340	897	---	4360	5100	1220	1120	627	1340	1600
31	3840	---	1240	1100	---	4890	---	1500	---	508	1290	---
TOTAL	65178	75020	51900	41550	36804	79780	151860	89610	38224	35332	37407	44514
MEAN	2103	2501	1674	1340	1314	2574	5062	2891	1274	1140	1207	1484
MAX	3840	3910	2610	1850	1790	4890	6230	5310	1930	1870	1810	1960
MIN	309	1100	1160	872	377	1140	3830	1220	417	267	55	716

CAL YR 1976 TOTAL 977805 MEAN 2672 MAX 7480 MIN 309
WTR YR 1977 TOTAL 747179 MEAN 2047 MAX 6230 MIN 55

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

445

04268000 RAQUETTE RIVER AT RAYMONDVILLE, NY

LOCATION.--Lat 44°50'20", long 74°58'45", St. Lawrence County, Hydrologic Unit 04150305, on right bank 250 ft (76 m) upstream from bridge on Grant Road at Raymondville, 0.3 mi (0.5 km) downstream from Trout Brook, 0.4 mi (0.6 km) downstream from Niagara Mohawk Power Corp. powerplant, and 18.0 mi (29.0 km) upstream from mouth.

DRAINAGE AREA.--1,131 mi² (2,929 km²).

PERIOD OF RECORD.--November 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 183.33 ft (55.879 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Extensive diurnal fluctuation caused by power and industrial operations. Flow regulated since 1953 by Carry Falls Reservoir, about 46 mi (74 km) upstream and by Niagara Mohawk Power Corp. powerplant, 0.4 mi (0.6 km) upstream; considerable natural storage in large lakes above Piercefield.

AVERAGE DISCHARGE.--33 years (1944-77), 2,010 ft³/s (56.92 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s (368 m³/s) Apr. 5, 1974, gage height, 8.40 ft (2.560 m); maximum gage height, 9.24 ft (2.816 m) Feb. 22, 1954 (backwater from ice); minimum discharge, 2.2 ft³/s (0.062 m³/s) Sept. 18, 19, 1966; minimum daily, 7.0 ft³/s (0.20 m³/s) Oct. 15, 1951; minimum gage height, 0.42 ft (0.128 m) July 13, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,180 ft³/s (203 m³/s) Mar. 30, gage height, 5.92 ft (1.804 m); maximum gage height, 7.21 ft (2.198 m) Jan. 19 (backwater from ice); minimum discharge, 19 ft³/s (0.54 m³/s) July 2, 3, 4, 5, 9, 20, gage height, 0.62 ft (0.189 m); minimum daily, 413 ft³/s (11.7 m³/s) June 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1730	4500	1860	1900	1500	1400	6490	5270	1420	1550	1030	1500
2	1700	4480	1780	1800	1500	1700	6050	4810	1580	647	1400	1600
3	1670	4190	1800	1700	1400	1800	6430	5230	1790	529	1630	1900
4	1550	3490	1700	1600	1400	2000	6530	5710	1480	522	1510	2300
5	1770	3380	1700	1700	1600	1800	6110	5710	726	1240	1660	1100
6	1730	3420	1700	1700	1700	1800	6590	5380	726	1630	1400	1000
7	1510	3610	1800	1700	1700	1800	6640	5020	1550	1650	1140	1300
8	1620	3650	2100	1600	1500	1800	6680	4440	1440	1660	1060	1700
9	1810	3310	2200	1700	1500	1900	6720	3980	1520	1050	1400	2100
10	2880	3270	2200	1700	1500	1400	6550	4030	1500	1280	1500	2400
11	2560	3350	2200	1800	1600	2000	6250	3960	2140	1070	1580	1900
12	2190	3310	2200	1800	1500	2200	6010	3880	1100	1390	1510	1700
13	1990	3350	2100	1800	1500	2500	5060	3780	413	1610	673	1650
14	1840	3240	2000	1700	1500	3500	5810	3570	1240	1840	567	1740
15	1620	3250	1900	1700	1600	4500	6130	3350	1460	1750	1470	1820
16	1890	3220	2000	1700	1700	4200	6110	3420	1420	2040	1540	1860
17	1990	2610	2100	1700	1700	4000	5970	2250	1500	1030	2070	1860
18	2070	2270	2200	1700	1600	3400	5770	1690	1210	1220	2300	1710
19	1980	2290	2300	1700	1500	3300	5150	2320	1210	1590	1910	1670
20	2380	2370	2300	1600	1600	3200	4190	2300	1150	1590	986	1750
21	2980	2320	2400	1600	1700	3100	3610	2270	1420	1810	582	1910
22	4190	1910	2400	1600	1800	3400	3980	1990	1510	1430	1380	1880
23	3000	1790	2400	1600	1900	3600	4710	1810	1440	744	1390	1980
24	2740	1780	2400	1600	1800	3800	5300	1780	1540	522	1610	1890
25	2840	1780	2300	1600	1700	4050	5530	1770	1500	1050	1550	1890
26	2950	1790	2000	1400	1500	4090	5400	1780	1470	1400	1430	1940
27	3580	1820	2100	1400	1700	4050	5440	1770	1500	986	1250	2110
28	3980	1880	2200	1400	1800	4560	5970	1470	1630	1030	1020	2050
29	3960	1880	2200	1600	---	6230	5930	1650	1780	1670	1100	2190
30	3920	1820	2100	1600	---	6610	5870	1400	1670	1140	1200	3110
31	4090	---	2000	1500	---	6350	---	1740	---	699	1300	---
TOTAL	76710	85330	64640	51200	45000	100940	172980	99530	42035	39369	42148	55510
MEAN	2475	2844	2085	1652	1607	3256	5766	3211	1401	1270	1360	1850
MAX	4190	4500	2400	1900	1900	6610	6720	5710	2140	2040	2300	3110
MIN	1510	1780	1700	1400	1400	1700	3610	1400	413	522	567	1000

CAL YR 1976 TOTAL 1114061 MEAN 3044 MAX 8060 MIN 911
WTR YR 1977 TOTAL 875392 MEAN 2398 MAX 6720 MIN 413

Note.--No gage-height record Feb. 20 to Mar. 24.

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY
(National stream-quality accounting network station)

LOCATION.--Lat 44°51'49", long 74°46'45", St. Lawrence County, Hydrologic Unit 04150306, on left bank 600 ft (183 m) upstream from highway bridge at Brasher Center, and 6.5 mi (10.5 km) downstream from West Branch. Water-quality sampling site at discharge station.

DRAINAGE AREA.--616 mi² (1,595 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1910 to current year. Monthly discharge only for some periods, published in WSP 1307.

REVISED RECORDS.--WSP 584: Drainage area. WSP 1387: 1910-16, 1917(M).

GAGE.--Water-stage recorder. Datum of gage is 217.23 ft (66.212 m) above mean sea level. Prior to June 24, 1916, nonrecording gage at site 600 ft (183 m) downstream at different datum. June 24, 1916 to Nov. 10, 1917, and Jan. 1, 1919 to Aug. 13, 1920, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Slight diurnal fluctuation caused by powerplant operations above station.

AVERAGE DISCHARGE.--67 years, 1,041 ft³/s (29.48 m³/s), 22.95 in/yr (583 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft³/s (476 m³/s) Apr. 6, 1937, gage height, 12.82 ft (3.908 m); maximum gage height recorded, about 15.3 ft (4.66 m) Apr. 6, 1937 (ice jam); minimum discharge observed, about 34 ft³/s (0.96 m³/s) Aug. 8, 1917, gage height, 5.25 ft (1.600 m); minimum daily, 37 ft³/s (1.05 m³/s) Aug. 8, 1917.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,600 ft³/s (159 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	--	ice jam	*10.61 3.234	Mar. 31	1915	7,440 211	9.93 3.027
Mar. 15	0015	*7,550 214	9.97 3.039				

Minimum discharge, 163 ft³/s (4.62 m³/s) July 29, gage height, 5.75 ft (1.753 m); minimum daily, 208 ft³/s (5.89 m³/s) July 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	806	1680	780	450	440	940	6640	1520	410	544	262	431
2	531	1560	700	450	440	720	5310	1420	420	521	255	571
3	564	1350	640	450	440	660	4520	1520	432	449	228	782
4	509	1240	600	450	440	620	4090	1440	419	415	231	723
5	456	1180	540	450	440	800	3520	1240	375	397	250	566
6	449	1030	540	450	450	1000	3280	1150	372	359	352	481
7	437	967	560	450	450	1200	2790	1020	382	368	440	426
8	469	906	620	450	440	1300	2420	951	435	328	412	392
9	978	864	680	450	430	1400	1990	975	548	318	385	358
10	4070	784	780	450	430	1800	1930	952	627	338	383	330
11	3240	778	820	450	450	2100	1930	917	446	309	506	305
12	2300	740	880	450	470	2800	2040	847	352	329	583	281
13	1900	720	620	450	500	3400	2580	803	342	300	517	435
14	1670	680	560	450	520	6000	3810	738	248	534	470	1290
15	1480	620	520	450	500	6760	3940	687	337	514	518	2330
16	1240	620	490	450	500	5720	3180	643	333	848	444	1940
17	1080	600	460	450	490	5300	2550	529	328	992	1790	1540
18	934	620	430	470	470	4180	2130	510	303	839	3410	1320
19	892	680	410	470	460	3440	1870	503	336	559	2570	1160
20	793	690	480	480	450	2860	1710	545	329	467	1980	994
21	2230	690	540	480	450	2480	1550	557	430	353	1510	1100
22	3470	600	600	480	440	2220	1530	497	415	295	1280	1310
23	2590	560	660	470	440	1910	2270	453	397	301	1210	1010
24	2100	540	600	470	450	1920	3010	476	336	281	1060	874
25	1840	500	560	470	520	1460	3580	405	338	267	1050	779
26	1660	480	540	450	580	1420	3400	411	367	258	979	877
27	1480	640	520	450	660	1360	2820	371	520	231	826	1020
28	1280	1000	500	450	760	1540	2350	405	605	217	704	1150
29	1170	940	480	450	---	3270	1970	491	590	208	569	1670
30	1090	860	470	450	---	4970	1740	475	523	230	498	1800
31	1100	---	460	450	---	6720	---	451	---	231	453	---
TOTAL	44808	25119	17840	14290	13510	82170	86450	23902	12295	12600	26125	28245
MEAN	1445	837	575	461	483	2651	2882	771	410	406	843	942
MAX	4070	1680	820	480	760	6760	6640	1520	627	3410	2330	281
MIN	437	480	410	450	430	520	1530	371	248	208	228	281
CFSM	2.35	1.36	.93	.75	.78	4.30	4.68	1.25	.67	.66	1.37	1.53
IN.	2.71	1.52	1.08	.86	.82	4.96	5.22	1.44	.74	.76	1.58	1.71
CAL YR 1976	TOTAL	475825	MEAN	1300	MAX	7880	MIN	310	CFSM	2.11	IN	28.73
WTR YR 1977	TOTAL	387354	MEAN	1061	MAX	6760	MIN	208	CFSM	1.72	IN	23.39

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

447

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-72, 1974 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: September 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 29.0°C Aug. 4, 1975; minimum, freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 25.5°C July 16, 17, Aug. 6; minimum, freezing point on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (7UM-MF (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	FECAL STREPTOCOCCI (COLONIES PER 100 ML)
OCT , 1976										
06...	1000	531	70	6.8	2	9.5	0	59	58	--
NOV										
03...	1000	1330	65	6.8	2	11.2	86	46	34	--
DEC										
01...	1015	790	65	6.7	2	12.8	91	30	--	49
MAR , 1977										
07...	1000	1200	94	6.8	3	12.4	88	93	--	1400
30...	1000	4980	57	6.6	2	7.4	62	160	--	180
APR										
20...	0945	1800	49	6.7	1	9.4	88	830	--	73
MAY										
18...	1100	581	80	7.2	2	8.2	89	28	--	837
JUN										
14...	1130	225	85	7.2	2	8.8	98	44	--	34
JUL										
14...	1000	571	90	7.2	1	8.1	94	220	--	180
AUG										
10...	1030	347	80	7.0	1	8.4	94	390	--	327
SEP										
01...	1015	490	66	6.9	1	7.4	85	103	--	47

DATE	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT , 1976										
06...	31	13	8.0	2.6	1.4	.5	22	0	5.6	11
NOV										
03...	27	9	7.0	2.4	.9	.5	23	0	5.8	7.9
DEC										
01...	27	6	7.5	2.1	1.2	.5	26	0	8.3	7.1
MAR , 1977										
07...	35	1	9.8	2.5	1.7	.8	41	0	10	7.5
30...	27	10	7.8	1.8	1.1	.5	21	0	8.4	13
APR										
20...	21	8	5.3	2.0	.7	.4	17	0	5.4	6.1
MAY										
18...	33	9	9.3	2.4	1.8	.6	30	0	3.0	8.8
JUN										
14...	35	7	9.0	3.1	1.8	.5	35	0	3.5	7.0
JUL										
14...	38	8	10	3.1	1.9	.6	36	0	3.6	6.6
AUG										
10...	16	5	9.4	3.0	2.0	.8	38	0	6.1	6.8
SEP										
01...	28	10	7.3	2.3	1.7	.5	22	0	4.4	9.0

B Results based on colony count outside the acceptable range (non-ideal colony count).

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT . 1976									
06...	2.3	.1	7.0	65	44	.15	.30	.45	.06
NOV 03...	2.4	.1	7.2	54	40	.16	.35	.51	.05
DEC 01...	1.9	.1	8.3	57	42	.38	.23	.61	.03
MAR , 1977									
07...	4.0	.1	8.0	76	55	.50	.40	.90	.04
30...	1.9	.1	6.1	29	43	.27	.50	.77	.03
APR 20...	1.3	.1	4.4	41	29	.23	.20	.43	.03
MAY 18...	1.5	.1	4.6	61	44	.17	.35	.52	.01
JUN 14...	2.0	.1	5.7	58	46	.15	.29	.44	.01
JUL 14...	1.8	.1	5.4	57	48	.16	.32	.48	.01
AUG 10...	1.5	.0	5.5	62	48	.13	.29	.42	.01
SEP 01...	1.7	.1	5.7	54	39	.08	.30	.38	.01

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT 06...	1000	0	0	0	1	<10	<10	1	1	0	0	450
MAR 30...	1000	0	0	2	1	<10	<10	0	0	10	0	280
JUL 14...	1000	2	2	0	0	10	0	0	0	2	0	410

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 06...	240	4	3	20	10	<.5	<.5	0	0	10	10
MAR 30...	100	14	7	20	10	<.5	<.5	0	0	10	10
JUL 14...	250	10	7	40	20	.0	.1	0	0	40	10

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 06...	1030	542	3	3.5	85	JUL 14...	1000	571	4	6.2	92
08...	1030	590	1	1.6	84	AUG 10...	1030	347	2	1.9	100
NOV 03...	0930	1330	2	7.3	88	SEP 01...	1015	490	2	2.6	96
MAY 18...	1100	581	3	4.7	69						
JUN 14...	1130	225	3	1.8	100						

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	OCT 6,76 1000	NOV 3,76 1000	DEC 1,76 1015	FEB 9,77 1200	MAY 18,77 1100					
TOTAL CELLS/ML	270	180	490	120	890					
DIVERSITY: DIVISION	1.1	0.0	0.8	1.3	0.6					
..CLASS	1.1	0.7	0.8	1.3	0.6					
..ORDER	1.2	1.0	0.9	1.5	0.7					
...FAMILY	2.0	2.4	2.5	2.8	2.1					
....GENUS	2.1	2.4	2.5	2.9	2.1					
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT				
CHLOROPHYTA (GREEN ALGAE)										
..CHLOROPHYCEAE										
...CHLOROCUCCALES										
....COELASTRACEAE										
.....COELASTRUM	--	-	--	-	76# 16	--	-			
....HYDRODICTYACEAE										
.....PEDIASTRUM	--	-	--	-	--	-	* 0			
....UOCYSTACEAE										
.....ANKISTROESMUS	5	2	--	-	--	-	8 1			
....CHLORELLA	--	-	--	-	7 6	--	* 0			
.....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-		
....KIRCHNERIELLA	--	-	--	-	--	-	* 0			
....UOCYSTIS	--	-	--	-	--	-	--	-		
....SELENASTRUM	--	-	--	-	--	-	--	-		
....TETRAEDRUM	--	-	--	-	--	-	--	-		
....SCENEDESMACEAE							17 2			
....SCENEDESMUS	--	-	--	-	--	-	* 0			
....VULVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	5 1	--	-	--	-	
....PHACOTACEAE										
....PTEROMONAS	--	-	--	-	--	-	25# 21	--	-	
....ZYGNEMATALES										
....DESMIDIACEAE										
....CLOSTERIUM	--	-	--	-	--	-	* 0			
CHRYSTOPHYTA										
..BACILLARIOPHYCEAE										
...CENTRALES										
...CUSCINODISCACEAE										
....CYCLOTELLA	5	2	--	-	--	-	* 0	--	-	
....MELOSIRA	--	-	10 5	--	-	--	-	17 2	--	-
....STEPHANODISCUS	--	-	--	-	--	-	--	-	--	-
...PENNALES										
....ACHNANTHACEAE										
.....ACHNANTHES	32	12	62# 34	--	-	22# 18	550# 62			
....CUCONEIS	11	4	--	-	--	-	--	-	--	-
....RHODICOSPHEA	--	-	--	-	110# 23	--	-	--	-	
....CYMBELLACEAE										
.....AMPHORA	11	4	--	-	--	-	--	-	--	-
....CYMBELLA	--	-	--	-	--	-	--	-	25 3	
....EPITHEMIA	--	-	--	-	33 7	--	-	--	-	
....DIATOMACEAE										
.....DIATOMA	--	-	--	-	--	-	7 6	8 1		
....EUNOTIACEAE										
.....EUNOTIA	--	-	5 3	--	-	--	-	--	-	
....FRAGILARIACEAE										
.....FRAGILARIA	--	-	--	-	--	-	--	-	--	-
....HANNAEA	--	-	--	-	--	-	4 3	* 0		
....SYNEDRA	--	-	5 3	90# 17	29# 24	68 8				
....GOMPHONEMATACEAE										
.....GOMPHONEMA	11	4	14 8	14 3	--	-	8 1			
....MERIDIONACEAE										
.....MERIDION	--	-	--	-	--	-	4 3	--	-	
....NAVICULACEAE										
.....NAVICULA	5	2	5 3	150# 31	--	-	34 4			
....PINNULARIA	5	2	--	-	--	-	--	-	--	-
....NITZSCHACEAE										
.....NITZSCHIA	27	10	43# 24	--	-	4 3	93 10			
....TABELLARIACEAE										
.....TABELLARIA	--	-	--	-	--	-	4 3	--	-	
..CHRYSTOPHYCEAE										
...CHRYSONOMADALES										
....UCHROMUNADACEAE										
.....DINOBYRON	--	-	38# 21	--	-	--	-	--	-	
CYANOPHYTA (BLUE-GREEN ALGAE)										
..CYANOPHYCEAE										
...CHROCCOCCALES										
....CHROCCOCCAEAE										
.....ANACYSTIS	--	-	--	-	14 3	--	-	--	-	
....HOMMOGONALES										
...OSCILLATORIACEAE										
....LYNGBYA	--	-	--	-	--	-	--	-	--	-
....OSCILLATORIA	160# 59	--	-	--	-	14 12	42 5			
....CHROCCOCCALES										
....CHROCCOCCAEAE										
....GOMPHOSPHAERIA	--	-	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	JUN 14,77 1130	JUL 14,77 1000	AUG 10,77 1030	SEP 1,77 1015
TOTAL CELLS/ML	150	360	91	540
DIVERSITY: DIVISION	0.9	1.6	0.9	1.2
..CLASS	0.9	1.6	0.9	1.2
...ORDER	1.5	1.8	1.5	1.4
....FAMILY	2.9	2.1	1.8	1.8
.....GENUS	3.0	2.3	1.8	1.9
ORGANISM	CELLS /ML PER- CENT	CELLS /ML PER- CENT	CELLS /ML PER- CENT	CELLS /ML PER- CENT
CHLOROPHYTA (GREEN ALGAE)				
..CHLOROPHYCEAE				
...CHLOROCOCCALES				
....COELASTRACEAE				
.....COELASTRUM	-- -	32 9	30# 33	-- -
...HYDRODICTYACEAE				
.....PEDIASTRUM	27# 16	-- -	-- -	-- -
...UOCYSTACEAE				
....ANKISTRODESMUS	17 11	21 6	-- -	-- -
...CHLORELLA	-- -	-- -	-- -	-- -
...DICTYOSPHAERIUM	-- -	-- -	-- -	18 3
...KIRCHNEKIELLA	-- -	-- -	-- -	-- -
...UOCYSTIS	-- -	63# 17	-- -	-- -
...SELENASTRUM	-- -	-- -	-- -	4 1
...TETRAEDRON	-- -	-- -	-- -	4 1
...SCENEDESMACEAE				
....SCENEDESMUS	47# 31	-- -	-- -	36 7
..VOLVOCALES				
...CHLAMYDOMONADACEAE				
....CHLAMYDOMONAS	7 4	-- -	-- -	-- -
...PHACOTACEAE	-- -	-- -	-- -	-- -
...PTEROMUNAS	-- -	-- -	-- -	-- -
...ZYGNEMATALES				
...DESMIDIACEAE				
...CLOSTERIUM	-- -	-- -	-- -	4 1
CHRYSTOPHYTA				
..BACILLARIOPHYCEAE				
...CENTRALES				
....CUSCINODISCACEAE				
.....CYCLOTELLA	7 4	21 6	-- -	9 2
...MELOSIRA	7 4	-- -	-- -	-- -
...STEPHANODISCUS	-- -	-- -	20# 22	-- -
..PENNALES				
...ACHNANTHACEAE				
....ACHNANTHES	-- -	11 3	-- -	40 7
...COCCONEIS	-- -	-- -	-- -	9 2
...RHODOSIPHENIA	-- -	-- -	-- -	-- -
...CYMBELLACEAE				
....AMPHORA	-- -	-- -	-- -	-- -
...CYMBELLA	17 11	-- -	-- -	13 2
...EPITHEMIA	-- -	-- -	-- -	-- -
...DIATOMACEAE				
.....DIATOMA	-- -	-- -	-- -	-- -
...EUNOTIACEAE				
.....EUNOTIA	-- -	-- -	-- -	* 0
...FRAGILARIACEAE				
....FRAGILARIA	-- -	-- -	-- -	* 0
...HANNAEA	-- -	-- -	-- -	-- -
...SYNEDRA	7 4	-- -	-- -	-- -
...GUMPHONEMATACEAE				
....GUMPHONEMA	3 2	-- -	-- -	* 0
...MERIDIONACEAE				
....MERIDIUM	-- -	-- -	-- -	-- -
...NAVICULACEAE				
....NAVICULA	3 2	16 4	35# 39	40 7
...PINNULAKIA	-- -	-- -	-- -	-- -
...NITZSCHACEAE				
....NITZSCHIA	10 7	-- -	5 6	4 1
...TABELLARIACEAE				
....TABELLAKIA	-- -	-- -	-- -	-- -
..CHRYSTOPHYCEAE				
...CHRYSOMONADALES				
...UCHROMONADACEAE				
...DINOBYRON	-- -	-- -	-- -	-- -
CYANOPHYTA (BLUE-GREEN ALGAE)				
..CYANOPHYCEAE				
...CHROCOCCALES				
...CHROCOCCACEAE				
....ANACYSTIS	-- -	-- -	-- -	* 0
...HORMOGONALES				
...OSCILLATORIACEAE				
....LYNGBYA	-- -	180# 51	-- -	-- -
...OSCILLATORIA	-- -	-- -	-- -	* 0
...CHROCOCCALES				
...CHROCOCCACEAE				
...GOMPHOSPHAERIA	-- -	-- -	-- -	360# 66

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

451

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	OCT 6,76 1000		NOV 3,76 1000		DEC 1,76 1015		FEB 9,77 1200		MAY 18,77 1100	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)										
..CRYPTOPHYCEAE										
...CRYPTOMONIDALES										
....CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	--	-	8	1
..EUGLENOPHYCEAE										
...EUGLENALES										
....EUGLENACEAE										
....TRACHELOMONAS	--	-	--	-	--	-	--	-	8	1
PYRRHOPHYTA (FIRE ALGAE)										
..DINOPHYCEAE										
...PERIDINIALES										
....PERIDINIACEAE										
....PERIDINIUM	--	-	--	-	--	-	--	-	*	0

DATE TIME	JUN 14,77 1130	JUL 14,77 1000	AUG 10,77 1030	SEP 1,77 1015
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
EUGLENOPHYTA (EUGLENOIDS)				
..CRYPTOPHYCEAE				
...CRYPTOMONIDALES				
....CRYPTOCHRYSIDACEAE				
....CHROOMONAS	--	-	--	-
..EUGLENOPHYCEAE				
...EUGLENALES				
....EUGLENACEAE				
....TRACHELOMONAS	--	-	11	3
PYRRHOPHYTA (FIRE ALGAE)				
..DINOPHYCEAE				
...PERIDINIALES				
....PERIDINIACEAE				
....PERIDINIUM	--	-	5	1

NOTE: * - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2*

PERIPHYTON

Dates of exposure	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
June 14 to July 14	31	8.35	6.69	0.770	0.007	2156	Polyethylene strip
July 14 to Aug. 10	28	6.66	4.31	.325	.158	7231	Polyethylene strip
Aug. 10 to Sept. 12	34	5.28	3.39	.519	.013	3642	Polyethylene strip
Sept. 12 to Oct. 04	23	7.87	3.93	.924	.012	426	Polyethylene strip

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.5	2.5	0.0	0.0	0.0	0.0	4.0	9.0	20.0	21.0	23.0	22.0
2	12.5	2.5	0.0	0.0	0.0	0.0	3.0	11.5	19.5	21.5	23.0	22.0
3	13.0	3.0	0.0	0.0	0.0	0.0	3.0	13.0	16.0	21.0	23.5	22.0
4	13.5	4.0	0.0	0.0	0.0	0.0	2.5	13.5	15.0	21.5	24.5	22.0
5	14.0	4.0	0.0	0.0	0.0	0.0	1.0	14.0	14.0	21.5	25.0	20.0
6	14.5	4.0	0.0	0.0	0.0	0.0	0.5	14.0	13.5	23.0	25.5	19.0
7	15.0	4.0	0.0	0.0	0.0	0.0	0.0	15.0	13.0	23.5	25.0	19.0
8	14.0	3.5	0.0	0.0	0.0	0.0	0.0	15.0	14.0	23.0	25.0	19.0
9	12.0	3.5	0.0	0.0	0.0	0.0	0.0	15.0	14.5	23.0	25.0	19.0
10	8.0	3.5	0.0	0.0	0.0	0.0	0.0	14.0	16.0	23.5	25.0	19.0
11	7.0	3.0	0.0	0.0	0.0	0.0	5.0	13.0	17.0	23.5	25.0	19.0
12	7.0	3.0	0.0	0.0	0.0	0.0	6.5	13.5	17.5	23.5	24.0	19.0
13	7.0	3.0	0.0	0.0	0.0	0.0	9.0	13.5	18.0	24.0	23.0	16.0
14	6.5	2.5	0.0	0.0	0.0	0.0	9.0	15.5	18.0	24.5	21.0	15.0
15	7.0	2.0	0.0	0.0	0.0	0.0	6.0	15.5	18.5	24.5	18.5	15.0
16	7.0	2.0	0.0	0.0	0.0	0.0	5.0	16.5	19.0	25.5	17.5	15.0
17	7.0	2.5	0.0	0.0	0.0	0.0	6.0	18.5	18.5	25.5	17.0	14.5
18	7.0	2.5	0.0	0.0	0.0	0.0	7.0	20.0	19.0	25.0	17.0	14.0
19	6.5	2.5	0.0	0.0	0.0	0.0	10.0	19.0	19.0	24.5	16.5	14.0
20	6.0	1.5	0.0	0.0	0.0	0.0	12.5	19.0	19.5	25.0	17.0	13.5
21	5.5	0.0	0.0	0.0	0.0	0.0	13.5	19.0	19.0	25.0	17.0	13.5
22	5.0	0.0	0.0	0.0	0.0	0.0	15.0	19.0	19.0	23.0	17.0	13.0
23	5.0	0.0	0.0	0.0	0.0	0.0	15.0	18.5	18.5	22.5	17.5	12.5
24	5.0	0.0	0.0	0.0	0.0	0.0	12.5	18.0	19.0	22.0	17.5	12.5
25	4.5	1.0	0.0	0.0	0.0	---	9.0	18.5	20.0	21.5	17.0	12.0
26	4.0	2.5	0.0	0.0	0.0	0.0	7.0	19.0	20.0	19.0	18.0	12.0
27	4.0	3.5	0.0	0.0	0.0	1.0	7.0	19.0	20.0	20.0	19.5	11.5
28	3.5	4.0	0.0	0.0	0.0	2.0	7.0	19.5	19.5	20.0	21.0	11.0
29	2.5	2.5	0.0	0.0	---	4.0	7.0	19.5	19.0	20.5	21.5	10.5
30	2.5	0.0	0.0	0.0	---	5.0	7.0	20.0	19.0	21.5	22.0	10.0
31	2.0	---	0.0	0.0	---	6.5	---	20.0	---	23.5	22.5	---
MEAN	8.0	2.5	0.0	0.0	0.0	0.5	6.5	16.5	18.0	23.0	21.0	16.0

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

453

04269043 DEER RIVER AT NORTH LAWRENCE, NY

LOCATION.--Lat 44°47'57", long 74°40'24", St. Lawrence County, Hydrologic Unit 04150306, on right bank 0.4 mi (0.6 km) upstream from abandoned railroad bridge, 0.5 mi (0.8 km) upstream from dam at Kraft Co. plant at North Lawrence, and 1.7 mi (2.7 km) downstream from Kingston Brook.

DRAINAGE AREA.--88.2 mi² (228 km²).

PERIOD OF RECORD.--December 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 330 ft (101 m), from topographic map.

REMARKS.--Records good except those for winter periods, which are poor.

COOPERATION.--Observer services furnished by personnel of the Kraft Co. plant, North Lawrence N.Y.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,740 ft³/s (106 m³/s) Mar. 23, 1977, gage height, 6.18 ft (1.884 m), from rating curve extended above 1,500 ft³/s (42.5 m³/s); maximum gage height, 12.03 ft (3.667 m) Jan. 8, 1973 (backwater from ice); minimum discharge, 18 ft³/s (0.51 m³/s) Aug. 20, 21, 1975, gage height, 1.35 ft (0.411 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (23 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 7	0930	ice jam	*8.29 2.527	Mar. 23	1830	*3,740 106	6.18 1.884
Mar. 13	0930	ice jam	6.94 2.115	Mar. 31	1530	1,260 35.7	3.98 1.213

Minimum discharge, 21 ft³/s (0.59 m³/s) July 29, gage height, 1.42 ft (0.433 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	275	100	70	62	130	1010	177	52	60	30	38
2	100	214	110	70	62	110	717	194	49	50	27	99
3	88	194	58	68	62	100	634	201	46	44	23	146
4	79	179	64	68	60	94	524	170	44	40	23	140
5	72	161	74	58	60	90	465	146	41	38	25	107
6	66	145	84	56	60	130	405	112	39	34	37	88
7	59	131	190	54	60	180	347	102	45	34	43	72
8	77	121	140	54	58	160	302	95	60	38	41	61
9	357	100	120	54	58	190	250	102	77	41	41	50
10	787	94	100	54	58	430	254	102	68	39	48	44
11	519	90	92	52	58	520	250	97	56	35	63	38
12	386	223	88	52	58	1100	258	90	52	34	63	35
13	280	169	84	54	62	2000	294	88	49	39	50	92
14	248	109	80	54	64	1360	518	86	45	44	53	405
15	209	95	130	54	68	1190	465	80	43	40	66	393
16	171	93	120	54	74	1110	380	76	41	41	70	335
17	154	90	110	54	74	859	316	70	40	41	298	254
18	137	90	100	54	66	635	266	63	41	107	324	219
19	119	90	90	54	64	469	229	60	45	74	298	181
20	111	95	80	52	62	380	205	56	46	49	229	165
21	575	90	78	62	68	338	183	55	53	39	183	186
22	476	88	100	52	66	289	187	55	60	37	152	169
23	410	84	110	52	64	3340	320	52	52	33	125	141
24	310	82	90	52	62	2660	366	50	45	31	107	113
25	264	76	80	50	72	1800	448	49	44	28	99	99
26	238	72	74	62	80	595	410	46	88	26	86	109
27	194	70	72	62	100	177	351	41	109	24	68	123
28	164	100	72	62	120	229	290	46	77	23	56	157
29	147	170	74	50	---	831	243	60	68	22	49	270
30	137	100	72	60	---	761	208	65	63	28	44	251
31	174	---	70	62	---	1190	---	56	---	31	40	---
TOTAL	7224	3690	2906	1976	1882	23497	11099	2742	1638	1244	2861	4580
MEAN	233	123	93.7	63.7	57.2	758	370	88.5	54.6	40.1	92.3	153
MAX	787	275	190	70	120	3340	1010	201	109	107	324	405
MIN	59	70	58	50	58	90	183	41	39	22	23	35
CFSM	2.64	1.39	1.06	.72	.76	8.59	4.20	1.00	.62	.45	1.05	1.73
IN.	3.05	1.56	1.23	.83	.79	9.91	4.68	1.16	.69	.52	1.21	1.93

CAL YR 1976	TOTAL	72396	MEAN 198	MAX 1390	MIN 43	CFSM 2.24	IN 30.53
WTR YR 1977	TOTAL	65339	MEAN 179	MAX 3340	MIN 22	CFSM 2.03	IN 27.56

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04270000 SALMON RIVER AT CHASM FALLS, NY

LOCATION.--Lat 44°45'22", long 74°13'09", Franklin County, Hydrologic Unit 04150307, on right bank 0.1 mi (0.2 km) downstream from Niagara Mohawk Power Corp. powerplant at Chasm Falls, and 3.0 mi (4.8 km) downstream from Duane Stream.

DRAINAGE AREA.--132 mi² (342 km²).

PERIOD OF RECORD.--July 1925 to current year.

REVISED RECORDS.--WSP 729: 1931 (m). WSP 759: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,011.52 ft (308.311 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are fair. Seasonal regulation of flow by upstream reservoirs. Diurnal fluctuation at low and medium flow caused by powerplant. A small diversion from tributary stream above station is used as water supply for village of Malone.

AVERAGE DISCHARGE.--52 years, 226 ft³/s (6.400 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,890 ft³/s (81.8 m³/s) Apr. 25, 1926, gage height, 5.0 ft (1.52 m); minimum, 9.8 ft³/s (0.28 m³/s) Sept. 26, 27, 1963, minimum daily, 28 ft³/s (0.79 m³/s) Sept. 4, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,850 ft³/s (52.4 m³/s) Mar. 31, gage height, 3.95 ft (1.204 m); minimum, 16 ft³/s (0.45 m³/s) Aug. 5, gage height, 0.50 ft (0.152 m); minimum daily, 92 ft³/s (2.61 m³/s) July 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	356	207	169	146	172	1580	318	132	155	107	246
2	180	302	210	154	146	164	1090	261	145	147	117	373
3	172	274	174	154	143	161	878	276	147	138	100	263
4	166	276	177	156	143	158	821	220	144	124	103	204
5	156	261	189	172	146	195	678	195	135	136	112	184
6	151	254	192	151	151	207	657	189	133	121	162	161
7	148	247	217	156	141	189	554	172	141	118	144	145
8	192	213	257	154	141	192	471	183	195	118	125	140
9	330	174	243	156	148	183	399	183	185	131	116	136
10	651	201	220	151	146	250	369	189	149	122	170	116
11	527	186	220	151	146	314	360	198	145	123	152	119
12	432	169	204	151	151	377	481	189	147	112	144	243
13	382	195	198	151	156	575	630	195	141	119	124	460
14	481	169	177	151	143	982	1000	207	139	122	170	800
15	422	186	198	156	148	1190	887	183	134	113	154	726
16	377	174	192	158	138	1120	644	192	126	111	552	448
17	351	198	195	158	146	982	511	174	120	130	728	408
18	318	153	186	153	138	707	395	177	170	162	396	358
19	291	183	174	156	148	610	373	174	220	150	300	278
20	279	180	198	153	141	481	330	171	188	127	249	258
21	576	169	210	156	141	404	360	163	179	111	218	276
22	700	183	207	153	138	314	369	167	168	118	228	266
23	476	177	196	153	141	265	543	155	145	110	186	248
24	390	189	192	153	143	294	623	151	150	98	220	218
25	356	172	183	156	156	276	657	143	172	98	186	195
26	343	180	186	156	164	283	565	144	335	103	151	211
27	302	265	166	151	164	261	471	132	234	103	156	262
28	279	310	166	151	174	283	418	141	179	92	138	303
29	265	265	177	148	---	522	373	191	162	93	136	434
30	265	207	169	153	---	921	347	157	177	102	136	385
31	287	---	169	146	---	1580	---	148	---	147	134	---
TOTAL	10431	6473	6051	4877	4134	14513	17834	5738	4937	3754	6116	8864
MEAN	336	216	195	158	148	471	594	185	165	121	197	295
MAX	700	356	257	172	174	1580	1580	318	335	162	728	800
MIN	148	153	166	146	138	158	330	132	120	92	100	116
CAL YR 1976	TOTAL	109414	MEAN	299	MAX	1750	MIN	128				
WTR YR 1977	TOTAL	93842	MEAN	257	MAX	1580	MIN	92				

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

455

04270200 LITTLE SALMON RIVER AT BOMBAY, NY

LOCATION.--Lat 44°56'24", long 74°33'24", Franklin County, Hydrologic Unit 04150307, on right bank 50 ft (15 m) downstream from bridge on road to Fort Covington Center, 0.5 mi (0.8 km) east of village of Bombay, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--93.6 mi² (242 km²).

PERIOD OF RECORD.--August to November 1957, July 1958 to current year. Occasional low-flow measurements, water years 1954-55, 1957.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft (53.008 m) above mean sea level. August to November 1957, at site 100 ft (30 m) upstream at datum 0.72 ft (0.219 m) higher.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--19 years (1958-77), 116 ft³/s (3.285 m³/s), 16.83 in/yr (427 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,250 ft³/s (92.0 m³/s) Apr. 4, 1974, gage height, 12.90 ft (3.932 m); minimum, 8.0 ft³/s (0.23 m³/s) Aug. 6, 7, 1965, gage height, 1.52 ft (0.463 m); minimum gage height, 0.85 ft (0.259 m) Sept. 2, 1957, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s (25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 10	0700	*1,580 44.7	8.80 2.682	Mar. 13	2300	ice jam	*11.37 3.465
Oct. 21	1830	1,350 38.2	8.08 2.463	Mar. 29	2130	1,240 35.1	7.71 2.350
Mar. 6	1600	ice jam	6.82 2.079				

Minimum discharge, 16 ft³/s (0.45 m³/s) July 29, gage height, 1.49 ft (0.454 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	330	74	50	34	60	505	97	38	39	33	25
2	42	183	68	49	34	56	307	106	37	34	25	44
3	39	135	64	48	34	54	422	146	37	32	27	105
4	36	127	66	47	33	54	313	110	37	30	19	68
5	34	111	74	46	33	52	263	96	35	29	22	49
6	32	101	80	45	32	90	266	91	33	28	32	39
7	31	94	98	44	32	170	194	82	33	26	38	34
8	39	88	160	43	32	230	184	76	47	25	33	30
9	210	75	100	42	32	340	152	76	58	25	31	27
10	1140	84	86	41	33	430	178	75	48	25	37	24
11	353	79	70	40	34	560	231	72	41	23	82	22
12	186	84	60	39	35	660	207	69	37	23	53	20
13	135	96	54	38	36	960	189	69	37	31	38	42
14	125	74	58	38	37	760	499	67	35	31	33	208
15	119	73	60	39	39	640	278	62	32	28	62	226
16	102	73	62	38	40	600	188	58	29	27	50	111
17	86	71	62	37	40	490	150	54	28	28	186	84
18	78	71	60	37	39	311	129	53	33	105	194	80
19	74	72	62	36	38	250	115	51	45	77	103	77
20	73	76	64	36	39	194	106	49	49	42	77	69
21	781	70	66	36	39	170	99	47	54	30	59	111
22	557	86	64	35	39	150	102	44	86	26	56	109
23	229	70	62	35	38	140	301	41	53	24	58	86
24	156	65	60	35	40	140	276	39	40	22	50	74
25	142	65	58	35	43	149	343	38	37	21	58	63
26	146	66	56	35	47	146	257	37	66	21	50	86
27	130	138	56	35	52	143	183	35	75	20	40	107
28	107	139	54	35	56	248	143	40	53	18	34	102
29	101	116	54	35	---	1050	121	63	43	17	30	241
30	97	86	52	35	---	809	107	54	47	25	27	186
31	122	---	50	35	---	832	---	44	---	40	25	---
TOTAL	5550	2998	2114	1219	1060	10938	6808	2041	1323	972	1662	2549
MEAN	179	99.9	68.2	39.3	37.9	353	227	65.8	44.1	31.4	53.6	85.0
MAX	1140	330	160	50	56	1050	505	146	86	105	194	241
MIN	31	65	50	35	32	52	99	35	28	17	19	20
CFSM	1.91	1.07	.73	.42	.40	3.77	2.43	.70	.47	.34	.57	.91
IN.	2.21	1.19	.84	.48	.42	4.35	2.71	.81	.53	.39	.66	1.01
CAL YR 1976	TOTAL	53674	MEAN 147	MAX 1460	MIN 25	CFSM 1.57	IN 21.33					
WTR YR 1977	TOTAL	39234	MEAN 107	MAX 1140	MIN 17	CFSM 1.14	IN 15.59					

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04270510 CHATEAUGAY RIVER BELOW CHATEAUGAY, NY

LOCATION.--Lat 44°57'49", long 74°07'53", Franklin County, Hydrologic Unit 04150307, on left bank 10 ft (3 m) downstream from bridge on Sam Cook Road, 0.2 mi (0.3 km) downstream from Marble River, 2.4 mi (3.9 km) upstream from international boundary, and 4.1 mi (6.6 km) northeast of Chateaugay.

DRAINAGE AREA.--151 mi² (391 km²).

PERIOD OF RECORD.--December 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 411.33 ft (125.373 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Flow regulated at Forge Dam on Upper and Lower Chateaugay Lakes.

AVERAGE DISCHARGE.--11 years (1967-77), 248 ft³/s (7.023 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,200 ft³/s (147 m³/s) Apr. 4, 1974, gage height, 7.33 ft (2.234 m), from rating curve extended above 1,600 ft³/s (45.3 m³/s); maximum gage height, 10.99 ft (3.350 m) Feb. 11, 1966 (ice jam); minimum discharge, 45 ft³/s (1.27 m³/s) Aug. 31, 1969, gage height, 2.66 ft (0.811 m); minimum daily, 54 ft³/s (1.53 m³/s) Aug. 20, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,070 ft³/s (58.6 m³/s) Mar. 29, gage height, 5.78 ft (1.762 m), from rating curve extended above 1,600 ft³/s (45.3 m³/s); minimum, 66 ft³/s (1.87 m³/s) July 22, gage height, 2.75 ft (0.838 m); minimum daily, 70 ft³/s (1.98 m³/s) July 22-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	332	150	170	120	130	1060	472	119	191	105	111
2	124	303	150	170	120	120	1160	410	119	170	95	125
3	123	309	140	170	120	140	1350	395	117	145	79	125
4	122	309	140	170	120	130	1200	328	129	137	79	125
5	122	299	150	160	110	170	1180	264	127	119	89	131
6	121	294	160	160	110	150	1120	288	125	117	100	143
7	120	287	170	160	110	140	1040	276	131	117	86	141
8	143	280	170	160	110	130	938	276	135	99	86	139
9	326	274	160	150	110	160	903	260	131	97	91	139
10	397	255	150	150	110	380	770	250	129	94	125	155
11	324	208	150	150	110	370	604	240	125	95	105	147
12	300	204	150	150	110	440	658	212	127	100	92	150
13	298	200	160	150	120	800	682	212	125	99	89	182
14	302	188	180	150	120	1000	840	197	123	95	100	256
15	307	157	200	140	130	640	604	188	121	97	97	232
16	338	157	180	140	120	820	568	182	121	99	99	212
17	306	160	170	140	120	740	550	162	141	81	188	236
18	267	162	170	140	110	640	538	145	170	86	232	272
19	264	160	160	140	110	600	526	117	160	76	232	264
20	271	157	170	140	120	560	450	117	173	76	224	304
21	647	152	180	140	110	540	370	115	165	75	220	344
22	383	160	190	130	110	540	370	102	157	70	220	370
23	359	147	190	130	110	520	425	99	165	70	212	370
24	346	129	190	130	110	500	365	99	204	70	216	370
25	344	129	180	130	110	480	466	99	208	72	208	365
26	339	139	180	130	110	470	460	97	248	72	200	375
27	331	170	180	130	120	470	460	97	248	83	191	410
28	319	152	180	120	120	500	490	109	204	83	179	420
29	311	152	180	120	---	980	508	113	208	84	150	466
30	291	143	170	120	---	1300	526	119	194	97	113	445
31	330	---	170	120	---	1400	---	117	---	107	111	---
TOTAL	8701	6168	5220	4460	3210	15960	21181	6157	4649	3073	4413	7524
MEAN	281	206	168	144	115	515	706	199	155	99.1	142	251
MAX	647	332	200	170	130	1400	1350	472	248	191	232	466
MIN	120	129	140	120	110	120	365	97	117	70	79	111

CAL YR 1976 TOTAL 102119 MEAN 279 MAX 1960 MIN 81
WTR YR 1977 TOTAL 90716 MEAN 249 MAX 1400 MIN 70

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

457

04273500 SARANAC RIVER AT PLATTSBURGH, NY

LOCATION.--Lat 44°40'54", long 73°28'18", Clinton County, Hydrologic Unit 02010006, on right bank at Plattsburgh, 600 ft (183 m) downstream from Imperial Paper and Color Corp. dam, 3.0 mi (4.8 km) upstream from mouth, and 5.5 mi (8.8 km) downstream from Mead Brook.

DRAINAGE AREA.--608 mi² (1,575 km²). Prior to Nov. 12, 1919, 607 mi² (1,572 km²).

PERIOD OF RECORD.--March 1903 to September 1930, October 1943 to current year. Published as "near Plattsburgh," 1903-30.

REVISED RECORDS.--WSP 345: Drainage area. WSP 384: 1909-10 (monthly discharge only). WSP 1387: 1907-8. WSP 1437: 1908 (minimum daily only).

GAGE.--Water-stage recorder. Datum of gage is 155.74 ft (47.470 m) above mean sea level. Prior to Nov. 12, 1919, nonrecording gage and Nov. 12, 1919 to Sept. 30, 1930, water-stage recorder, at site 1.5 mi (2.4 km) upstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair. Considerable diurnal fluctuation caused by power and industrial operations. Slight regulation by storage in Upper and Lower Saranac Lakes and elsewhere. During year, city of Plattsburgh diverted an average of 3.82 ft³/s (0.11 m³/s) from Saranac River and Mead and West Brooks, tributaries above station, for municipal supply. About 1 ft³/s (0.028 m³/s) diverted from Great Chazy River basin into Saranac River for water supply of State Institutions at Dannemora.

AVERAGE DISCHARGE.--61 years, 828 ft³/s (23.45 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft³/s (326 m³/s) Apr. 8, 1928, from computation of flow over dam and through waste gates and powerplant; minimum daily, 10 ft³/s (0.28 m³/s) July 5, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,160 ft³/s (174 m³/s) Mar. 31, gage height, 8.04 ft (2.450 m); minimum, 65 ft³/s (1.84 m³/s) July 15, gage height, 2.02 ft (0.616 m); minimum daily, 254 ft³/s (7.19 m³/s) July 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	743	1330	795	577	501	638	4560	1710	526	572	275	549
2	768	1220	781	616	484	632	3530	1640	552	526	267	709
3	815	1150	681	577	541	577	3250	1630	570	725	440	898
4	675	1130	610	555	564	579	3030	1490	543	532	371	783
5	669	1160	582	545	524	592	2610	1480	486	493	359	774
6	633	1150	610	608	504	636	2570	1430	521	499	495	571
7	645	1060	632	556	530	670	2240	1360	512	375	486	587
8	663	1050	711	586	641	654	2050	1250	504	406	444	561
9	1030	885	699	551	597	659	1740	1140	509	353	433	536
10	1980	871	669	559	518	804	1640	1120	506	344	462	508
11	1600	900	699	569	507	1360	1520	993	501	348	468	518
12	1390	871	651	591	432	1420	1650	1040	475	360	523	790
13	1410	900	669	587	425	1530	2070	1060	439	349	493	483
14	1280	885	675	611	433	3540	2870	1030	449	254	476	930
15	1200	828	663	528	453	3400	2430	996	445	270	393	1130
16	1120	821	681	476	472	3430	2080	954	487	364	511	1230
17	1050	801	645	583	464	3100	1890	767	459	546	1240	1180
18	1030	808	639	712	445	2520	1720	811	429	500	1640	1160
19	1010	762	645	634	437	2240	1630	598	499	518	1350	1080
20	945	788	605	545	439	1960	1520	454	506	496	1160	1010
21	1510	736	616	629	458	1450	1510	475	478	516	1020	1120
22	1760	762	571	612	454	1660	1540	532	499	465	968	1110
23	1450	808	571	555	448	1340	1880	512	487	349	938	1010
24	1380	781	616	555	462	1640	2820	363	486	351	901	910
25	1360	749	622	630	532	1290	3260	482	537	399	934	839
26	1340	724	651	590	533	1280	3010	514	520	314	889	904
27	1270	808	645	559	605	1220	2650	431	555	394	854	1270
28	1190	976	577	538	625	1300	2340	417	638	311	728	1310
29	1150	1060	599	561	---	2090	2090	429	574	314	684	1860
30	1100	930	571	528	---	3500	1900	528	587	314	705	1600
31	1140	---	513	521	---	5300	---	529	---	269	669	---
TOTAL	35306	27704	19894	17884	14027	54211	69600	28165	15279	12826	21576	27920
MEAN	1139	923	642	577	501	1749	2320	909	509	414	696	931
MAX	1980	1330	795	712	641	5400	4560	1710	638	725	1640	1860
MIN	633	724	513	476	425	577	1510	363	429	254	267	483

CAL YR 1976 TOTAL 418311 MEAN 1143 MAX 5490 MIN 390
WTR YR 1977 TOTAL 344392 MEAN 944 MAX 5300 MIN 254

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04273900 LAKE PLACID AT LAKE PLACID, NY

LOCATION.--Lat 44°17'42", long 73°59'26", Essex County, Hydrologic Unit 02010004, on south shore of East Lake on Victor Herbert Drive, and 400 ft (122 m) north of State Highway 86 in village of Lake Placid.

DRAINAGE AREA.--20.1 mi² (52.1 km²) at outlet 0.7 mi (1.1 km) northwest of gage.

PERIOD OF RECORD.--November 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,859.42 ft (566.751 m) May 3, 1972; minimum, 1,857.60 ft (566.196 m) Oct. 2, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,859.11 ft (566.657 m) Apr. 24, minimum, 1,857.94 ft (566.300 m) Sept. 7.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1858.27	1858.33	1858.22	1858.13	1858.11	1858.12	1858.93	1858.50	1858.14	1858.18	1858.01	1858.21
2	1858.26	1858.32	1858.22	1858.14	1858.09	1858.11	1858.82	1858.47	1858.18	1858.16	1858.01	1858.20
3	1858.25	1858.31	1858.21	1858.13	1858.09	1858.11	1858.74	1858.46	1858.17	1858.14	1858.00	1858.19
4	1858.23	1858.32	1858.20	1858.13	1858.10	1858.12	1858.67	1858.43	1858.16	1858.13	1858.00	1858.17
5	1858.22	1858.32	1858.19	1858.12	1858.10	1858.13	1858.61	1858.40	1858.16	1858.12	1858.01	1858.15
6	1858.20	1858.32	1858.19	1858.12	1858.11	1858.12	1858.57	1858.39	1858.14	1858.10	1858.04	1858.15
7	1858.20	1858.31	1858.23	1858.12	1858.10	1858.12	1858.52	1858.38	1858.13	1858.09	1858.05	1858.12
8	1858.28	1858.30	1858.25	1858.12	1858.10	1858.11	1858.44	1858.36	1858.13	1858.10	1858.05	1858.11
9	1858.40	1858.28	1858.24	1858.11	1858.09	1858.11	1858.44	1858.37	1858.13	1858.11	1858.06	1858.09
10	1858.56	1858.27	1858.23	1858.15	1858.09	1858.10	1858.41	1858.34	1858.13	1858.11	1858.06	1858.07
11	1858.55	1858.26	1858.23	1858.17	1858.08	1858.11	1858.38	1858.32	1858.12	1858.09	1858.07	1858.05
12	1858.51	1858.24	1858.21	1858.16	1858.08	1858.12	1858.40	1858.29	1858.11	1858.09	1858.07	1858.02
13	1858.47	1858.23	1858.21	1858.15	1858.09	1858.22	1858.54	1858.30	1858.11	1858.13	1858.06	1858.05
14	1858.44	1858.21	1858.20	1858.15	1858.08	1858.52	1858.83	1858.28	1858.11	1858.15	1858.06	1858.25
15	1858.40	1858.20	1858.19	1858.14	1858.08	1858.66	1858.80	1858.26	1858.11	1858.14	1858.07	1858.36
16	1858.37	1858.19	1858.18	1858.14	1858.07	1858.67	1858.71	1858.25	1858.10	1858.16	1858.07	1858.35
17	1858.34	1858.19	1858.18	1858.13	1858.06	1858.66	1858.64	1858.23	1858.09	1858.15	1858.42	1858.37
18	1858.32	1858.18	1858.18	1858.12	1858.06	1858.61	1858.60	1858.24	1858.09	1858.14	1858.52	1858.36
19	1858.29	1858.18	1858.17	1858.12	1858.06	1858.55	1858.57	1858.25	1858.10	1858.12	1858.48	1858.34
20	1858.29	1858.19	1858.17	1858.13	1858.06	1858.50	1858.57	1858.24	1858.10	1858.11	1858.43	1858.33
21	1858.39	1858.18	1858.18	1858.13	1858.06	1858.46	1858.59	1858.23	1858.13	1858.12	1858.38	1858.34
22	1858.45	1858.16	1858.18	1858.12	1858.06	1858.43	1858.62	1858.22	1858.14	1858.12	1858.36	1858.34
23	1858.44	1858.16	1858.17	1858.12	1858.05	1858.46	1858.83	1858.21	1858.13	1858.09	1858.33	1858.33
24	1858.41	1858.16	1858.17	1858.11	1858.05	1858.43	1859.05	1858.21	1858.12	1858.06	1858.34	1858.32
25	1858.40	1858.16	1858.16	1858.11	1858.11	1858.39	1859.04	1858.20	1858.15	1858.06	1858.34	1858.31
26	1858.39	1858.16	1858.16	1858.11	1858.13	1858.35	1858.92	1858.18	1858.23	1858.06	1858.31	1858.34
27	1858.36	1858.17	1858.16	1858.10	1858.13	1858.33	1858.80	1858.16	1858.24	1858.03	1858.29	1858.41
28	1858.33	1858.19	1858.16	1858.10	1858.12	1858.31	1858.70	1858.16	1858.23	1858.01	1858.27	1858.44
29	1858.31	1858.23	1858.15	1858.12	---	1858.37	1858.62	1858.16	1858.21	1857.99	1858.25	1858.53
30	1858.30	1858.23	1858.15	1858.11	---	1858.55	1858.55	1858.14	1858.19	1858.02	1858.25	1858.53
31	1858.32	---	1858.14	1858.10	---	1858.92	---	1858.13	---	1858.02	1858.22	---
MEAN	1858.35	1858.23	1858.19	1858.13	1858.09	1858.35	1858.67	1858.28	1858.14	1858.10	1858.19	1858.26
MAX	1858.56	1858.33	1858.25	1858.17	1858.13	1858.92	1859.05	1858.50	1858.24	1858.18	1858.52	1858.53
MIN	1858.20	1858.16	1858.14	1858.10	1858.05	1858.10	1858.38	1858.13	1858.09	1857.99	1858.00	1858.02
CAL YR 1976	MEAN	1858.32	MAX	1858.81	MIN	1858.11						
WTR YR 1977	MEAN	1858.25	MAX	1859.05	MIN	1857.99						

04275000 EAST BRANCH AUSABLE RIVER AT AU SABLE FORKS, NY

LOCATION.--Lat 44°26'20", long 73°40'55", Essex County, Hydrologic Unit 02010004, on left bank 700 ft (213 m) upstream from bridge on Burt Street in Au Sable Forks, and 0.5 mi (0.8 km) upstream from confluence with West Branch.

DRAINAGE AREA.--198 mi² (513 km²).

PERIOD OF RECORD.--September 1924 to current year.

REVISED RECORDS.--WSP 759: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 545.37 ft (166.229 m) above mean sea level. Prior to Sept. 21, 1938, nonrecording gage at lower highway bridge in Au Sable Forks, 400 ft (122 m) upstream from confluence with West Branch at datum 3.54 ft (1.079 m) lower.

REMARKS.--Records good except those for winter periods, which are poor. Occasional regulation of storage in Upper and Lower Ausable Lakes and occasional small diurnal fluctuation, cause unknown.

AVERAGE DISCHARGE.--53 years, 306 ft³/s (8.666 m³/s), 20.99 in/yr (533 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,100 ft³/s (569 m³/s) Sept. 22, 1938, gage height, 12.91 ft (3.935 m), from rating curve extended above 5,800 ft³/s (164 m³/s) on basis of velocity-area studies; minimum observed, 20 ft³/s (0.57 m³/s) Aug. 11, 14, 28, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,700 ft³/s (105 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	2400	4,170 118	6.22 1.896	Mar. 31	0600	5,140 145	6.84 2.085
Oct. 21	1200	4,230 120	6.26 1.908	Apr. 14	0400	3,990 113	6.10 1.859
Mar. 13	1800	*7,030 199	*7.85 2.393	Apr. 24	0900	6,150 174	7.41 2.258

Minimum discharge, 40 ft³/s (1.13 m³/s) July 15; minimum gage height, 1.00 ft (0.305 m) July 15, Aug. 3, Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	518	181	94	62	140	1810	485	139	141	84	91
2	159	310	130	98	62	130	1010	559	209	119	74	86
3	142	265	110	94	60	120	975	648	206	99	67	81
4	128	291	120	92	60	180	833	496	173	86	66	74
5	119	308	120	88	62	250	691	444	149	82	72	71
6	112	308	170	88	62	220	738	586	137	73	84	74
7	106	298	330	88	62	160	519	612	125	68	94	69
8	232	268	290	80	64	140	438	450	127	72	84	62
9	1110	226	210	80	66	330	342	416	126	85	79	59
10	2080	227	180	82	68	500	337	424	115	76	72	58
11	875	214	150	80	76	780	323	398	117	66	101	53
12	548	197	140	80	84	1140	800	459	111	64	105	52
13	398	197	120	80	88	3350	1560	584	110	70	92	61
14	413	184	110	80	86	4570	2730	470	105	85	92	404
15	369	178	130	80	82	1760	1210	369	132	69	221	596
16	334	175	130	80	78	1360	788	324	119	155	160	348
17	286	170	120	78	78	1010	638	328	100	168	1170	264
18	251	169	110	78	76	638	646	404	95	125	626	242
19	225	166	110	76	76	495	767	554	129	101	330	195
20	211	174	120	74	76	391	1020	422	139	82	206	171
21	1940	145	120	72	76	349	1240	348	138	75	151	373
22	1320	161	120	72	78	300	1430	304	172	84	193	405
23	807	156	120	72	88	221	2250	266	148	77	412	390
24	595	144	110	72	130	284	4880	255	126	69	367	327
25	491	149	100	72	180	229	2970	373	134	67	589	258
26	432	151	92	70	200	235	1610	248	248	69	344	1000
27	356	226	78	70	190	223	1070	199	273	64	227	2270
28	313	402	90	70	150	294	850	182	171	57	166	1060
29	289	316	110	68	---	1850	680	202	134	53	135	964
30	277	215	100	66	---	3250	557	168	169	57	115	622
31	336	---	96	64	---	4160	---	149	---	77	101	---
TOTAL	15436	6908	4217	2438	2520	29060	35712	12126	4376	2635	6679	10782
MEAN	498	230	136	78.6	90.0	937	1190	391	146	85.0	215	359
MAX	2080	518	330	98	200	4570	4880	648	273	168	1170	2270
MIN	106	144	78	64	60	120	323	149	95	53	66	52
CFSM	2.52	1.16	.69	.40	.45	4.73	6.01	1.97	.74	.43	1.09	1.81
IN.	2.90	1.30	.79	.46	.47	5.46	6.71	2.28	.82	.50	1.25	2.03
CAL YR 1976	TOTAL	150333	MEAN 411	MAX 3130	MIN 70	CFSM 2.08	IN 28.24					
WTR YR 1977	TOTAL	132889	MEAN 364	MAX 4880	MIN 52	CFSM 1.84	IN 24.97					

LOCATION.--Lat 43°48'28", long 73°27'30", Essex County, Hydrologic Unit 02010001, on west shore about 500 ft (152 m) north of Hooper's dock at Rogers Rock, and 0.4 mi (0.6 km) west of Baldwin.

DRAINAGE AREA.--233 mi² (603 km²) at outlet at Ticonderoga.

PERIOD OF RECORD.--July 1913 to current year.

GAGE.--Water-stage recorder. Datum of gage is 315.93 ft (96.295 m) above mean sea level, adjustment of 1912. Prior to Nov. 4, 1929, nonrecording gages at several sites within a half mile of present site at same datum. Nov. 4, 1929 to Sept. 26, 1936, nonrecording gage at present site and datum.

REMARKS.--Elevation of lake regulated by floodgates at Ticonderoga. Prior to October 1974, lake was regulated by powerplant wheel gate and floodgates. Lake George has been controlled by a dam at its outlet for more than 100 years. Area of water surface is 44 mi² (114 km²).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 5.09 ft (1.551 m) Apr. 9, 1936; minimum, 0.64 ft (0.195 m) Dec. 20, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.02 ft (1.530 m) Mar. 17; minimum, 2.70 ft (0.823 m) Dec. 28.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.70	3.53	3.22	2.77	2.95	3.14	4.65	4.27	3.70	3.66	3.35	3.30
2	3.71	3.49	3.20	2.77	2.94	3.13	4.62	4.24	3.71	3.62	3.34	3.28
3	3.68	3.46	3.13	2.75	2.94	3.15	4.65	4.14	3.68	3.58	3.34	3.24
4	3.70	3.44	3.05	2.76	2.93	3.16	4.58	4.11	3.66	3.55	3.33	3.26
5	3.70	3.44	3.01	2.76	2.93	3.30	4.60	4.04	3.66	3.50	3.33	3.28
6	3.70	3.47	2.99	2.76	2.96	3.34	4.71	4.05	3.62	3.47	3.34	3.23
7	3.71	3.43	3.02	2.79	2.94	3.35	4.66	3.95	3.63	3.46	3.33	3.21
8	3.71	3.39	3.07	2.74	2.94	3.38	4.66	3.91	3.67	3.48	3.34	3.19
9	3.87	3.39	3.07	2.79	2.94	3.40	4.57	3.91	3.63	3.49	3.33	3.24
10	4.15	3.36	3.09	2.82	2.93	3.44	4.50	3.95	3.59	3.44	3.32	3.22
11	4.14	3.32	3.05	2.89	2.93	3.52	4.48	3.98	3.57	3.48	3.34	3.15
12	4.16	3.28	2.99	2.84	2.94	3.63	4.40	3.97	3.61	3.49	3.35	3.15
13	4.14	3.27	2.96	2.89	2.95	3.87	4.38	3.89	3.62	3.51	3.37	3.15
14	4.10	3.26	2.97	2.89	2.96	4.59	4.31	3.84	3.63	3.48	3.39	3.24
15	4.02	3.22	2.89	2.90	2.95	4.87	4.26	3.80	3.61	3.49	3.37	3.18
16	3.97	3.19	2.83	2.82	2.93	4.95	4.20	3.79	3.60	3.49	3.35	3.21
17	3.88	3.18	2.80	2.91	2.93	4.98	4.15	3.76	3.61	3.53	3.39	3.24
18	3.83	3.18	2.79	2.93	2.94	4.93	4.10	3.72	3.58	3.49	3.36	3.26
19	3.76	3.20	2.78	2.93	2.93	4.94	4.05	3.73	3.62	3.50	3.32	3.22
20	3.70	3.19	2.78	2.93	2.92	4.90	4.02	3.74	3.62	3.52	3.32	3.25
21	3.86	3.20	2.79	2.92	2.97	4.85	3.96	3.74	3.62	3.49	3.29	3.35
22	3.88	3.20	2.78	2.91	2.95	4.79	3.91	3.75	3.60	3.43	3.34	3.36
23	3.81	3.21	2.75	2.91	2.92	4.80	3.91	3.74	3.60	3.45	3.31	3.35
24	3.75	3.19	2.74	2.92	2.93	4.77	4.14	3.73	3.61	3.47	3.27	3.33
25	3.70	3.18	2.76	2.92	3.07	4.70	4.37	3.72	3.63	3.45	3.28	3.33
26	3.67	3.19	2.75	2.93	3.10	4.64	4.42	3.64	3.62	3.40	3.28	3.41
27	3.68	3.22	2.78	2.95	3.11	4.58	4.44	3.68	3.63	3.37	3.29	3.51
28	3.66	3.20	2.72	2.93	3.14	4.55	4.41	3.67	3.65	3.39	3.28	3.49
29	3.61	3.24	2.74	2.96	---	4.57	4.36	3.63	3.68	3.39	3.29	3.47
30	3.55	3.27	2.76	2.97	---	4.61	4.32	3.68	3.68	3.35	3.24	3.44
31	3.55	---	2.76	2.96	---	4.67	---	3.69	---	3.32	3.27	---
MEAN	3.81	3.24	2.90	2.87	2.96	4.18	4.36	3.85	3.63	3.48	3.32	3.28
MAX	4.16	3.53	3.22	2.97	3.14	4.98	4.71	4.27	3.91	3.66	3.39	3.51
MIN	3.55	3.18	2.72	2.75	2.92	3.13	3.91	3.62	3.57	3.32	3.24	3.15
CAL YR 1976	MEAN	3.50	MAX	4.35	MIN	2.66						
WTR YR 1977	MEAN	3.50	MAX	4.98	MIN	2.72						

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

461

04278300 NORTHWEST BAY BROOK NEAR BOLTON LANDING, NY

LOCATION.--Lat 43°39'48", long 73°36'14", Warren County, Hydrologic Unit 02010001, on left bank 10 ft (3 m) downstream from county bridge on Padanarum Road, 7.7 mi (12.4 km) north of Bolton Landing.

DRAINAGE AREA.--23.4 mi² (61.6 km²).

PERIOD OF RECORD.--October 1965 to September 1968, October 1971 to current year. Annual maximum, water years 1969-71.

GAGE.--Water-stage recorder. Datum of gage is 423.60 ft (129.113 m) above mean sea level. Prior to Oct. 1, 1973, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--9 years (1966-68, 1972-77), 37.9 ft³/s (1.073 m³/s), 21.99 in/yr (559 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft³/s (46.7 m³/s) Dec. 21, 1973, gage height, 6.15 ft (1.875 m) from rating curve extended above 190 ft³/s (5.38 m³/s) on basis of slope-area measurement at gage height 5.53 ft (1.686 m); maximum gage height, 6.82 ft (2.079 m) Jan. 27, 1976 (ice jam); minimum discharge recorded, 0.28 ft³/s (0.008 m³/s) Sept. 27, 28, 29, 1968, gage height, 1.18 ft (0.360 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 9	1645	541 15.3	3.82 1.164	Mar. 14	0800	*1,330 37.7	*5.61 1.710
Dec. 10	1015	565 16.0	3.89 1.186	Apr. 25	0100	547 15.5	3.84 1.170

Minimum discharge, 0.50 ft³/s (0.014 m³/s) Sept. 13; minimum gage height, 0.75 ft (0.229 m) July 28, 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	57	19	10	6.8	7.0	138	46	8.8	4.4	1.3	1.4
2	8.9	46	17	9.8	6.6	7.6	96	45	10	3.2	1.4	1.4
3	8.3	43	16	9.8	6.5	8.0	133	41	7.7	2.4	1.2	1.8
4	7.7	66	22	9.6	6.4	8.4	98	36	6.4	1.9	1.1	1.4
5	8.3	59	23	9.5	6.2	9.2	151	33	5.6	1.7	1.3	1.2
6	7.4	57	21	9.4	6.0	25	198	52	5.3	1.5	1.7	1.1
7	6.9	57	86	9.2	5.8	21	109	39	5.3	1.4	1.6	.99
8	13	53	155	9.0	5.6	19	80	35	5.6	2.0	1.6	.84
9	217	44	335	8.8	5.4	24	65	123	5.1	2.3	1.3	.71
10	167	41	517	8.8	5.2	65	56	105	5.9	1.8	1.3	.65
11	77	37	332	8.6	5.2	159	51	83	5.3	1.6	1.5	.65
12	54	32	212	8.6	5.0	250	47	63	4.8	1.6	1.5	.60
13	45	30	94	8.6	5.0	708	43	51	4.6	2.0	1.4	.60
14	48	29	72	8.4	5.0	893	40	42	4.1	1.8	4.6	3.7
15	41	28	52	8.4	5.2	351	37	37	5.2	1.5	2.0	1.6
16	39	26	42	8.2	7.0	269	34	33	4.9	1.5	1.8	1.2
17	35	25	28	8.2	6.2	176	32	29	4.8	1.4	2.0	4.1
18	30	24	22	8.0	5.8	115	29	30	5.2	1.4	1.7	2.4
19	27	23	20	8.0	5.4	95	28	44	7.0	1.3	1.5	1.6
20	28	23	18	7.8	5.2	79	26	32	6.2	1.1	1.4	8.1
21	171	20	16	7.8	5.0	63	24	27	6.2	1.8	1.3	23
22	98	19	15	7.8	4.9	58	23	23	6.0	2.2	1.8	9.9
23	66	19	13	7.8	4.9	54	76	19	5.6	1.5	1.7	6.8
24	57	18	13	7.8	4.8	46	414	17	5.2	1.3	1.7	5.3
25	70	17	12	7.8	5.2	45	338	17	5.2	1.4	1.8	4.4
26	74	17	12	7.6	8.0	38	163	14	6.2	1.4	1.5	47
27	59	20	11	7.4	7.4	43	107	12	6.0	1.2	1.3	85
28	48	23	11	7.2	7.0	63	77	11	5.0	1.1	1.3	34
29	43	26	11	7.2	---	239	62	11	4.6	.99	1.2	23
30	40	21	10	7.0	---	242	53	9.5	4.7	1.1	1.7	17
31	57	---	10	7.0	---	229	---	8.4	---	1.2	1.6	---
TOTAL	1661.4	1000	2237	259.1	162.7	4409.2	2828	1167.9	172.5	52.99	50.9	291.44
MEAN	53.6	33.3	72.2	8.36	5.81	142	94.3	37.7	5.75	1.71	1.64	9.71
MAX	217	66	517	10	8.0	893	414	123	10	4.4	4.6	85
MIN	6.9	17	10	7.0	4.8	7.0	23	8.4	4.1	.99	1.1	.60
CFSM	2.29	1.42	3.09	.36	.25	6.07	4.03	1.61	.25	.07	.07	.41
IN.	2.64	1.59	3.56	.41	.26	7.01	4.50	1.86	.27	.08	.08	.46
CAL YR 1976	TOTAL	18516.90	MEAN	50.6	MAX	579	MIN	5.7	CFSM	2.16	IN	29.44
WTR YR 1977	TOTAL	14293.13	MEAN	39.2	MAX	893	MIN	.60	CFSM	1.68	IN	22.72

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04279000 LA CHUTE AT TICONDEROGA, NY

LOCATION.--Lat 43°50'38", long 73°25'57", Essex County, Hydrologic Unit 02010001, on right bank 250 ft (76 m) downstream from International Paper Co. "C" Mill dam, at Ticonderoga, 250 ft (76 m) upstream from Trout Brook, and 0.5 mi (0.8 km) downstream from upper ("A" Mill) dam.

DRAINAGE AREA.--234 mi² (606 km²).

PERIOD OF RECORD.--August 1904 to December 1905, October 1942 to current year. Prior to October 1973, published as "Lake George Outlet at Ticonderoga."

REVISED RECORDS.--WRD NY 1971: 1970.

GAGE.--Water-stage recorder and concrete control on river channel. Datum of gage is 190.41 ft (58.037 m) above mean sea level. Prior to June 25, 1971, turbine gate-opening recorder in powerplant at "C" Mill dam. Prior to Dec. 31, 1905, nonrecording gage at site 2,000 ft (610 m) upstream at different datum.

REMARKS.--Records fair. Prior to June 25, 1971, discharge in tailrace determined from rating for turbine gage developed from discharge measurements. Since June 25, 1971, leakage through inoperative turbine gate determined from periodic discharge measurements. Records represent total discharge from Lake George and include flow in river channel and in tailrace. Flow regulated by Lake George (see station 04278000).

AVERAGE DISCHARGE.--35 years (1942-77), 308 ft³/s (8.723 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,370 ft³/s (38.8 m³/s) Mar. 17, 1977; minimum daily, 0.50 ft³/s (0.014 m³/s) Sept. 9, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,370 ft³/s (38.8 m³/s) Mar. 17; minimum daily, 11 ft³/s (0.31 m³/s) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	880	766	40	40	89	1250	1140	120	219	53	19
2	20	861	766	40	47	75	1250	1130	124	360	53	18
3	27	861	728	40	74	53	1260	1100	114	334	36	17
4	28	851	700	40	86	53	1230	1100	117	309	24	17
5	29	851	691	40	88	59	1250	1090	114	303	28	24
6	31	870	682	40	88	57	1310	1090	108	224	39	28
7	32	851	709	40	88	55	1270	1040	111	55	39	28
8	29	823	709	40	88	55	1270	1030	114	53	40	27
9	67	823	709	40	88	59	1240	1020	111	55	39	27
10	114	804	718	40	88	64	1210	1010	106	55	39	28
11	101	795	709	40	88	61	1220	1020	106	57	39	28
12	528	606	691	40	88	69	1170	1060	108	57	40	31
13	1050	394	682	40	88	597	1160	1020	87	57	40	31
14	1040	394	682	40	88	1270	1140	995	63	55	40	31
15	1020	387	657	40	88	1220	1110	984	59	55	39	28
16	1020	387	640	40	87	1340	1080	984	61	53	36	28
17	984	196	469	40	87	1370	1060	851	67	53	36	29
18	963	42	292	40	87	1330	1060	728	61	55	34	28
19	942	42	292	40	87	1330	1070	555	64	55	29	26
20	921	42	292	40	87	1320	1060	380	67	61	21	26
21	984	42	292	40	87	1310	1040	373	64	71	21	27
22	995	42	287	40	87	1300	1020	366	63	67	25	28
23	963	42	200	40	87	1300	1020	360	61	63	27	28
24	931	42	40	40	87	1300	1110	373	67	53	27	28
25	921	42	40	40	87	1270	1170	373	67	53	28	26
26	900	42	40	40	87	1250	1190	249	64	50	28	143
27	921	42	40	40	87	1240	1210	120	69	50	28	265
28	921	42	40	40	87	1220	1180	117	77	48	26	265
29	910	44	40	40	---	1220	1160	114	80	46	24	260
30	890	327	40	40	---	1240	1150	117	77	46	22	260
31	880	---	42	40	---	1250	---	120	---	48	19	---
TOTAL	19173	12467	13685	1240	2346	24426	34920	22009	2571	3120	1019	1849
MEAN	618	416	441	40.0	83.8	789	1164	710	85.7	101	32.9	61.6
MAX	1050	880	766	40	88	1370	1310	1140	124	360	53	265
MIN	11	42	40	40	40	53	1020	114	59	46	19	17
CAL YR 1976	TOTAL	197568.10	MEAN	540	MAX	1170	MIN	50				
WTR YR 1977	TOTAL	138825.00	MEAN	380	MAX	1370	MIN	11				

04280000 POULTNEY RIVER BELOW FAIR HAVEN, VT

LOCATION.--Lat 43°37'40", long 73°18'50", Rutland County, Hydrologic Unit 02010001, on right bank 0.3 mi (0.5 km) downstream from Carver Falls, 1.9 mi (3.1 km) upstream from Hubbardton River, and 3.2 mi (5.1 km) northwest of Fair Haven.

DRAINAGE AREA.--187 mi² (484 km²).

PERIOD OF RECORD.--Discharge: October 1928 to current year.
Water-quality records: Water year 1954.

REVISED RECORDS.--WSP 1114: 1929(M), 1932-35.

GAGE.--Water-stage recorder. Altitude of gage is 105 ft (32 m), from topographic map.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are poor. Flow regulated by powerplant upstream and by Lake Bomoseen. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--49 years, 247 ft³/s (6.995 m³/s), 17.94 in/yr (456 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,800 ft³/s (419 m³/s) July 20, 1945, gage height, 24.36 ft (7.425 m), from high-water mark in well, from rating curve extended above 2,600 ft³/s (73.6 m³/s) on basis of computations of flow over dam at gage heights 16.10 ft (4.907 m), 21.40 ft (6.523 m), and 24.36 ft (7.425 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Aug. 8, 1965, Sept. 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,600 ft³/s (73.6 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 14	-	*7000 198	a*21.19 6.459	Apr. 24	-	3000 85	- -
Mar. 31	-	4000 113	- -				

a Ice jam.

Minimum daily discharge, 2.1 ft³/s (0.059 m³/s) Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	797	103	135	98	250	3000	527	38	36	4.2	4.2
2	91	670	105	135	98	200	2400	472	104	28	6.5	4.7
3	101	603	115	130	98	170	1750	406	81	31	39	32
4	93	653	120	130	98	160	1650	376	37	32	5.1	13
5	103	643	115	125	98	300	1550	351	65	35	5.0	4.2
6	74	642	127	120	98	320	1900	286	72	32	7.9	24
7	67	695	248	120	98	230	1600	266	26	36	40	36
8	91	661	1400	120	98	200	1200	232	63	20	23	11
9	672	571	1020	120	98	230	950	471	69	11	4.8	10
10	1920	540	734	120	98	400	800	805	69	47	45	9.4
11	972	515	709	130	100	1000	820	513	72	29	18	8.8
12	860	465	591	140	105	1400	1200	378	71	9.0	31	4.3
13	778	386	487	135	110	2000	1800	270	67	9.9	13	2.1
14	745	338	376	130	110	5500	2400	244	51	22	36	5.1
15	698	284	435	130	105	4800	2150	222	37	23	59	77
16	472	208	396	130	98	2600	1700	167	65	19	30	20
17	384	210	195	125	96	2200	1200	182	22	18	50	34
18	281	206	263	125	100	1800	910	165	25	17	20	57
19	278	199	191	120	98	1400	800	205	35	43	29	34
20	275	214	199	120	96	1050	700	190	67	50	13	48
21	787	202	210	125	94	880	610	171	31	4.5	4.9	166
22	936	193	230	130	94	760	820	127	65	5.2	31	146
23	734	190	245	125	92	660	1200	122	43	6.5	15	57
24	559	189	220	120	100	580	2600	97	27	9.8	5.4	78
25	595	122	200	110	110	510	2400	108	39	36	49	76
26	850	125	180	110	120	480	2000	109	118	27	13	79
27	866	116	170	105	115	420	1300	88	62	4.4	5.2	165
28	749	124	155	105	270	700	750	87	46	36	6.9	101
29	686	150	145	100	---	1400	565	93	68	21	38	171
30	612	155	140	100	---	2100	519	76	57	4.2	29	226
31	628	---	135	100	---	3500	---	76	---	3.9	4.2	---
TOTAL	17074	11066	9959	3770	2993	38200	43244	7882	1692	706.4	681.1	1703.8
MEAN	551	369	321	122	107	1232	1441	254	56.4	22.8	22.0	56.8
MAX	1920	797	1400	140	270	5500	3000	805	118	50	59	226
MIN	67	116	103	100	92	160	519	76	22	3.9	4.2	2.1
CFSM	2.95	1.97	1.72	.65	.57	6.59	7.71	1.36	.30	.12	.12	.30
IN.	3.40	2.20	1.98	.75	.60	7.60	8.60	1.57	.34	.14	.14	.34

CAL YR 1976 TOTAL 187238.0 MEAN 512 MAX 2790 MIN 67 CFSM 2.74 IN 37.25
WTR YR 1977 TOTAL 138971.3 MEAN 381 MAX 5500 MIN 2.1 CFSM 2.04 IN 27.65

Note.--No gage-height record Dec. 31 to Feb. 10, Feb. 16 to Mar. 7, Mar. 14 to Apr. 28, July 5, 6.

04294500 LAKE CHAMPLAIN AT BURLINGTON, VT

LOCATION.--Lat 44°28'52", long 73°13'27", Chittenden County, Hydrologic Unit 02010003, 50 ft (15 m) south of Gulf Oil Co. dock at Burlington, 0.1 mi (0.2 km) north of Burlington Water Department pumping station, and 0.5 mi (0.8 km) north of railroad station.

PERIOD OF RECORD.--Gage heights: May 1907 to current year.

Water-quality records: Water year 1971.

REVISED RECORDS.--WSP 684: 1912-29 (datum correction). WSP 1207: 1938 (datum correction).

GAGE.--Water-stage recorder. Datum of gage is 92.86 ft (28.304 m) above mean sea level. Prior to July 20, 1937, nonrecording gage at site 0.7 mi (1.1 km) south, and July 20, 1937, to Sept. 7, 1939, nonrecording gage at site 0.1 mi (0.2 km) south, both at present datum.

REMARKS.--Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.80 ft (2.682 m) Apr. 4, 1976; minimum observed, -0.25 ft (-0.076 m) Dec. 4, 1908.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.20 ft (2.195 m) Apr. 4, affected by seiche; minimum, 1.75 ft (0.533 m) Aug. 14.

MEAN GAGE HEIGHT, IN FEET,, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.75	4.54	3.59	2.90	2.43	2.21	6.95	6.75	3.95	2.68	1.90	2.08
2	3.74	4.53	3.53	2.88	2.42	2.21	7.06	6.68	3.88	2.66	1.89	2.14
3	3.69	4.46	3.56	2.83	2.41	2.23	7.07	6.64	3.85	2.63	1.86	2.18
4	3.66	4.51	3.51	2.81	2.41	2.24	7.16	6.56	3.76	2.57	1.84	2.18
5	3.58	4.53	3.48	2.79	2.41	2.30	7.09	6.47	3.67	2.55	1.84	2.14
6	3.51	4.56	3.42	2.74	2.39	2.33	7.14	6.35	3.63	2.52	1.86	2.12
7	3.48	4.58	3.44	2.73	2.37	2.36	7.15	6.26	3.56	2.50	1.86	2.11
8	3.52	4.59	3.54	2.71	2.36	2.39	7.11	6.17	3.49	2.46	1.85	2.09
9	3.65	4.57	3.57	2.67	2.34	2.42	7.06	6.13	3.46	2.43	1.83	2.02
10	3.97	4.56	3.55	2.69	2.34	2.52	7.01	6.02	3.41	2.39	1.82	1.90
11	4.19	4.51	3.56	2.69	2.31	2.76	6.85	5.87	3.37	2.36	1.84	1.93
12	4.26	4.47	3.55	2.69	2.30	3.05	6.78	5.76	3.30	2.30	1.83	1.92
13	4.20	4.41	3.56	2.68	2.29	3.39	6.73	5.69	3.26	2.29	1.81	1.93
14	4.27	4.36	3.43	2.69	2.28	4.11	6.80	5.60	3.21	2.28	1.81	2.04
15	4.24	4.34	3.46	2.68	2.27	5.08	6.86	5.50	3.15	2.28	1.81	2.12
16	4.24	4.29	3.45	2.67	2.27	5.56	6.84	5.38	3.08	2.26	1.82	2.17
17	4.24	4.20	3.43	2.64	2.25	5.95	6.80	5.28	3.05	2.23	2.02	2.21
18	4.20	4.14	3.41	2.62	2.22	6.16	6.73	5.20	3.02	2.23	2.08	2.25
19	4.16	4.12	3.36	2.61	2.21	6.24	6.63	5.12	2.97	2.20	2.13	2.29
20	4.14	4.07	3.31	2.61	2.21	6.26	6.58	5.02	2.95	2.18	2.15	2.33
21	4.25	3.98	3.30	2.60	2.19	6.27	6.49	4.92	2.95	2.18	2.14	2.40
22	4.41	3.94	3.27	2.58	2.16	6.29	6.43	4.81	2.92	2.14	2.10	2.51
23	4.50	3.87	3.22	2.57	2.16	6.34	6.39	4.73	2.88	2.13	2.10	2.53
24	4.53	3.83	3.20	2.56	2.14	6.27	6.54	4.63	2.83	2.08	2.16	2.62
25	4.57	3.78	3.13	2.55	2.20	6.23	6.82	4.57	2.77	2.03	2.19	2.68
26	4.61	3.66	3.12	2.53	2.20	6.19	7.01	4.46	2.80	2.01	2.19	2.70
27	4.59	3.64	3.08	2.52	2.19	6.12	7.03	4.37	2.76	1.99	2.16	2.77
28	4.55	3.65	3.06	2.50	2.20	6.07	6.97	4.30	2.76	1.95	2.14	2.93
29	4.51	3.71	3.02	2.47	---	6.14	6.93	4.20	2.74	1.87	2.17	3.01
30	4.50	3.68	2.99	2.46	---	6.33	6.86	4.13	2.72	1.87	2.18	3.15
31	4.51	---	2.97	2.41	---	6.63	---	4.04	---	1.92	2.15	---
MEAN	4.14	4.20	3.36	2.65	2.28	4.54	6.86	5.41	3.21	2.26	1.98	2.32
MAX	4.61	4.59	3.59	2.90	2.43	6.63	7.16	6.75	3.95	2.68	2.19	3.15
MIN	3.48	3.64	2.97	2.41	2.14	2.21	6.39	4.04	2.72	1.87	1.81	1.90
CAL YR 1976	MEAN 4.81		MAX 8.76		MIN 2.97							
WTR YR 1977	MEAN 3.60		MAX 7.16		MIN 1.81							

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

465

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY
(National stream-quality accounting network station)
(National pesticide network station)

LOCATION.--Lat 44°59'46", long 73°21'37", Clinton County, Hydrologic Unit 02010006, on left bank at outlet of Lake Champlain in Rouses Point, and 1.0 mi (1.6 km) south of Fort Montgomery ruins. Water-quality sampling site at stage station.

DRAINAGE AREA.--8,277 mi² (21,437 km²).

WATER-STAGE RECORDS

PERIOD OF RECORD.--October 1863 to December 1870 (maximum and minimum monthly gage heights at St. Johns, Quebec, published in WSP 97) and March 1871 to current year (daily gage heights prior to October 1970, elevations thereafter: those for 1871-1907 published in WSP 894). Gage heights prior to Oct. 1, 1925, published as "Richelieu River at Fort Montgomery, Rouses Point." Discharge records for January 1875 to September 1916 at "Chambly, Quebec," published in WSP 65, 82, 97, 129, 170, 206, 424, and 1307 have been found to be unreliable and should not be used. Daily discharge record for "Richelieu River at Fryers Rapids, Quebec," published in Water Survey of Canada annual reports.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. March 1871 to May 1923, nonrecording gage located in Fort Montgomery and May 1923 to October 1938, nonrecording gage at present site. Prior to October 1970, at datum 93.00 ft (28.346 m) higher.

REMARKS.--Area of lake surface about 490 mi² (1,269 km²). Total volume below 92.5 ft (28.19 m) elevation, reported by Lake Champlain Studies Center, 902.2 bil ft³ (25,600 hm³).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 101.80 ft (31.029 m) Mar. 30, 1903; minimum observed, 92.17 ft (28.093 m) Oct. 23, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known since at least 1827, 102.1 ft (31.12 m) May 4, 1869, from marks at railroad bridge near present gage, according to data published on p. 428 of the Report of the Board of Engineers on Deep Waterways, 1900: U.S. 56th Cong., 2d sess./H. Doc. 149.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 100.47 ft (30.62 m) Apr. 2; minimum, 94.55 ft (28.82 m) Aug. 9.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96.63	97.27	96.69	95.78	95.30	95.06	99.71	99.71	96.92	95.67	94.80	95.15
2	96.61	97.38	96.59	95.73	95.28	95.08	100.11	99.57	96.72	95.55	94.77	95.00
3	96.54	97.51	96.39	95.70	95.28	95.07	100.00	99.43	96.63	95.50	94.80	95.01
4	96.49	97.36	96.37	95.65	95.25	95.09	99.98	99.41	96.59	95.48	94.80	95.00
5	96.51	97.36	96.31	95.62	95.22	95.15	100.13	99.36	96.49	95.40	94.76	95.07
6	96.50	97.46	96.34	95.50	95.21	95.18	100.02	99.25	96.40	95.38	94.74	94.98
7	96.35	97.40	96.24	95.56	95.20	95.21	100.00	99.02	96.36	95.32	94.72	94.92
8	96.30	97.39	96.31	95.54	95.19	95.25	99.95	98.96	96.35	95.37	94.72	94.92
9	96.38	97.46	96.37	95.50	95.18	95.29	99.87	98.73	96.29	95.29	94.65	95.15
10	96.83	97.39	96.50	95.50	95.15	95.39	99.82	98.71	96.16	95.25	94.70	95.06
11	97.00	97.34	96.39	95.56	95.16	95.61	99.95	98.71	96.11	95.27	94.70	94.75
12	97.25	97.31	96.44	95.53	95.13	95.89	99.62	98.65	96.13	95.35	94.70	94.80
13	97.34	97.28	96.31	95.52	95.13	96.25	99.60	98.44	96.08	95.21	94.74	94.86
14	97.10	97.23	96.56	95.51	95.14	96.95	99.55	98.37	96.05	95.14	94.71	94.84
15	97.25	97.15	96.33	95.50	95.10	97.85	99.65	98.33	95.97	95.15	94.67	94.97
16	97.09	97.13	96.27	95.49	95.08	98.42	99.63	98.27	95.94	95.13	94.70	95.14
17	97.06	97.16	96.24	95.47	95.09	98.73	99.61	98.11	96.03	95.15	94.84	95.12
18	97.01	97.02	96.19	95.48	95.08	98.93	99.54	98.02	95.87	95.09	94.96	95.12
19	97.02	96.95	96.22	95.48	95.05	99.03	99.47	97.95	95.87	95.11	95.01	95.07
20	96.99	96.83	95.17	95.46	95.02	99.09	99.48	97.87	95.82	95.10	95.01	95.13
21	97.13	96.85	96.09	95.43	95.03	99.10	99.36	97.77	95.77	95.02	95.05	95.26
22	97.36	96.78	96.14	95.41	95.03	99.06	99.23	97.69	95.73	94.85	95.19	95.33
23	97.34	96.70	96.13	95.40	94.98	99.07	99.20	97.60	95.73	94.92	95.10	95.38
24	97.41	96.67	96.04	95.39	94.99	99.08	99.39	97.51	95.73	94.98	95.02	95.45
25	97.33	96.66	96.06	95.38	95.04	99.03	99.66	97.36	95.74	95.01	95.01	95.57
26	97.29	96.77	95.97	95.37	95.05	98.98	99.85	97.28	95.66	94.85	95.09	95.62
27	97.40	96.61	95.94	95.37	95.06	98.94	99.92	97.19	95.66	94.81	95.18	95.66
28	97.49	96.47	95.89	95.35	95.05	98.92	99.83	97.03	95.70	94.87	95.13	95.77
29	97.43	96.51	95.86	95.37	---	99.01	99.74	97.03	95.74	94.96	95.09	95.84
30	97.40	96.65	95.84	95.35	---	99.17	99.73	96.98	95.64	94.86	94.97	96.01
31	97.31	---	95.78	95.35	---	99.42	---	96.90	---	94.77	95.06	---
MEAN	97.00	97.07	96.22	95.50	95.12	97.35	99.72	98.23	96.06	95.16	94.88	95.20
MAX	97.49	97.51	96.69	95.78	95.30	99.42	100.13	99.71	96.92	95.67	95.19	96.01
MIN	96.30	96.47	95.78	95.35	94.98	95.05	99.20	96.90	95.64	94.77	94.65	94.75
CAL YR 1976	MEAN 97.70		MAX 101.51	MIN 95.78								
WTR YR 1977	MEAN 96.47		MAX 100.13	MIN 94.65								

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-72, 1974 to current year.

COOPERATION.--Pesticide samples were collected by the U.S. Geological Survey and were analyzed by the Environmental Protection Agency.

WATER QUALITY DATA, WATER YEAR, OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)
OCT										
12...	1030	150	7.4	11.0	1	10.0	92	106	41	--
NOV										
09...	1100	144	7.4	5.0	5	12.2	97	<1	<1	--
APR										
26...	1030	134	7.5	7.0	1	10.2	85	B1	--	B1
MAY										
17...	1030	160	7.5	11.5	2	8.8	82	B1	--	B1
JUN										
08...	1000	140	6.9	12.0	1	10.9	102	B2	--	B1
JUL										
13...	0900	147	7.5	21.0	1	7.0	78	B2	--	B2
AUG										
09...	1030	138	7.5	23.0	0	8.8	104	0	--	B1
SEP										
06...	1300	160	7.5	21.0	1	8.4	94	B1	--	B1

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT										
12...	53	8	16	3.2	4.3	1.2	55	0	45	10
NOV										
09...	63	11	18	4.3	4.6	1.1	63	0	52	11
APR										
26...	56	13	16	3.9	4.7	1.2	52	0	43	10
MAY										
17...	80	39	22	6.1	5.0	1.3	50	0	41	13
JUN										
08...	53	14	15	3.7	4.9	1.2	47	0	39	12
JUL										
13...	58	14	17	3.8	4.9	1.2	54	0	44	11
AUG										
09...	56	8	16	3.9	5.1	1.6	58	0	48	12
SEP										
06...	59	19	17	4.0	4.8	1.4	49	0	40	13

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (REST- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT										
12...	6.7	.1	4.4	90	73	.12	.30	.42	.04	3.4
NOV										
09...	7.5	.1	.3	82	78	.17	.30	.47	.02	--
APR										
26...	9.4	.1	.5	76	71	.24	.40	.64	.07	3.3
MAY										
17...	6.9	.1	.4	72	79	.19	.35	.54	.00	--
JUN										
08...	6.7	.0	.3	89	67	.17	.32	.49	.01	--
JUL										
13...	6.9	.0	.7	92	72	.07	.53	.60	.01	3.1
AUG										
09...	7.0	.0	1.1	94	75	.00	.46	.46	.01	--
SEP										
06...	7.2	.1	1.3	99	73	.03	.21	.24	.01	--

B Results based on colony count outside the acceptable range (non-ideal colony count).

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

467

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY--Continued

WATER QUALITY DATA, WATER YEAR, OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT 12...	1030	0	0	1	2	10	<10	0	0	10	0	50
APR 26...	1030	0	0	1	1	<10	<10	0	0	0	0	60
JUL 13...	0900	2	2	0	0	20	1	0	0	3	0	110

DATE	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT 12...	30	3	6	0	10	<.5	<.5	0	0	10	10
APR 26...	20	2	1	0	0	.5	.5	1	1	0	0
JUL 13...	10	9	5	10	0	.0	.0	0	0	20	10

DATE	TIME	TOTAL ATRA- ZINE (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- AZINON (UG/L)
NOV 09...	1100	ND	ND	ND	ND	ND	ND	ND
APR 26...	1030	ND	ND	ND	ND	ND	ND	ND
AUG 09...	1030	--	ND	ND	ND	ND	ND	--

DATE	TOTAL DI- ENDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA- THION (UG/L)	TOTAL METH- OXY- CHLOR (UG/L)	TOTAL METHYL PARA- THION (UG/L)
NOV 09...	ND	ND	ND	ND	ND	ND	ND	ND	ND
APR 26...	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 09...	ND	ND	--	ND	ND	.01	--	ND	--

DATE	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	SIMA- ZINE TOTAL COUL- SON COND. (UG/L)	TOTAL SILVEX (UG/L)
NOV 09...	ND	ND	ND	ND	ND	ND	ND	ND
APR 26...	ND	ND	ND	ND	ND	ND	ND	ND
AUG 09...	--	--	ND	--	ND	ND	--	ND

ND Material specifically analyzed for, but not detected.

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE TIME	OCT 12,76 1030		NOV 9,76 1100		PHYTOPLANKTON MAY 17,77 1030		JUN 8,77 1000		JUL 13,77 0900		AUG 9,77 1030		SEP 6,77 1300	
	TOTAL CELLS/ML		TOTAL CELLS/ML		TOTAL CELLS/ML		TOTAL CELLS/ML		TOTAL CELLS/ML		TOTAL CELLS/ML		TOTAL CELLS/ML	
DIVERSITY: DIVISION	1.0		0.4		0.1		1.5		1.4		0.4		0.6	
..CLASS	1.0		0.4		0.1		1.5		1.4		0.4		0.6	
...ORDER	1.6		1.1		1.0		2.0		1.6		0.5		0.7	
....FAMILY	1.9		1.1		1.2		2.3		2.5		0.5		0.7	
....GENUS	1.9		1.3		1.7		2.5		2.6		0.5		0.7	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)														
..CHLOROPHYCEAE														
...CHLOROCOCCALES														
....OOCYSTACEAE														
.....ANKISTRODESMUS	--	-	--	-	18	1	3	1	--	-	--	-	--	-
.....DICTYOSPHAERIUM	--	-	--	-	--	-	--	-	--	-	16	3	--	-
.....KIRCHNERIELLA	--	-	--	-	--	-	18	6	--	-	--	-	--	-
.....TETRAEDRUM	--	-	--	-	--	-	--	-	--	-	--	-	4	2
...SCENEDESMACEAE														
.....CRUCIGENIA	--	-	--	-	--	-	--	-	20	8	--	-	--	-
.....SCENEDESMUS	--	-	43	8	--	-	18	6	--	-	--	-	--	-
...VULVOCALES														
...CHLAMYDOMONADACEAE														
.....CHLAMYDOMONAS	--	-	--	-	--	-	--	-	--	-	12	2	7	3
...ZYGNEMATALES														
...DESMIDIACEAE														
...COSMARUM	--	-	--	-	--	-	--	-	5	2	--	-	--	-
CHRYSOPHYTA														
..HACILLARIOPHYCEAE														
...CENTRALES														
....CUSCINODISCACEAE														
.....CYCLOTELLA	29	1	390#	72	68	4	--	-	5	2	--	-	--	-
.....MELOSIRA	--	-	--	-	1000#	64	64#	23	--	-	--	-	--	-
.....STEPHANODISCUS	58	3	11	2	18	1	*	0	--	-	8	1	--	-
...PENNALES														
....ACHNANTHACEAE														
.....ACHNANTHES	--	-	87#	16	--	-	--	-	--	-	--	-	4	2
.....COCCONEIS	--	-	--	-	--	-	--	-	--	-	8	1	11	5
....CYMBELLACEAE														
.....CYMBELLA	--	-	--	-	*	0	--	-	10	4	--	-	--	-
...DIATOMACEAE														
.....DIATOMA	--	-	--	-	--	-	12	4	--	-	--	-	--	-
...FRAGILARIACEAE														
.....ASTERIONELLA	--	-	--	-	320#	20	64#	23	20	8	--	-	--	-
.....FRAGILARIA	140	6	--	-	54	3	6	2	--	-	--	-	--	-
...GOMPHONEMATACEAE														
.....GOMPHONEMA	580#	26	--	-	--	-	--	-	--	-	--	-	--	-
...NAVICULACEAE														
.....GYROSTOMA	--	-	--	-	--	-	--	-	5	2	--	-	--	-
.....NAVICULA	29	1	--	-	--	-	--	-	5	2	--	-	--	-
...NITZSCHIA														
.....NITZSCHIA	--	-	11	2	*	0	--	-	5	2	--	-	--	-
...TABELLARIACEAE														
.....TABELLARIA	--	-	--	-	91	6	--	-	--	-	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)														
..CYANOPHYCEAE														
...CHROCOCCALES														
....CHROCOCCACEAE														
.....ANACYSTIS	1100#	50	--	-	--	-	--	-	--	-	540#	93	200#	89
...HORMOGONALES														
....NOSTOCACEAE														
.....ANABAENA	--	-	--	-	--	-	--	-	61#	24	--	-	--	-
...CYLINDROSPERMUM	290	13	--	-	--	-	--	-	--	-	--	-	--	-
...OSCILLATORIA														
.....OSCILLATORIA	--	-	--	-	--	-	95#	33	--	-	--	-	--	-
...PHORMIDIUM	--	-	--	-	--	-	--	-	110#	41	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)														
..EUGLENOPHYCEAE														
...EUGLENALES														
....EUGLENACEAE														
.....TRACHELOMONAS	--	-	--	-	--	-	--	-	15	6	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)														
..DINOPHYCEAE														
...PERIDINIALES														
....GLENODINIACEAE														
.....GLENODINIUM	--	-	--	-	--	-	3	1	--	-	--	-	--	-
...PERIDINIACEAE														
.....PERIDINIUM	--	-	--	-	*	0	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%

* - OBSERVED ORGANISM; MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

469

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIPHYTON

Dates of exposure	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a	Chlorophyll b	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight	(mg/m ²)	(mg/m ²)		
Sept. 14 to Oct. 12	28	13.5	11.4	0.434	0.404	4961	Polyethylene strip
June 9 to July 13	27	1.87	1.05	.568	.123	1444	Polyethylene strip
July 13 to Aug. 9	27	2.52	1.18	.035	.111	38290	Polyethylene strip

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	SUS- PENDE SEDI- MENT (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 12...	1030	2	70
NOV 19...	1045	1	100
APR 26...	1030	2	--
MAY 17...	1030	7	--
JUN 08...	1000	3	73
JUL 13...	0900	6	54
AUG 09...	1030	2	33

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

LAKES AND RESERVOIRS IN STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

- 04260990 CRANBERRY LAKE AT CRANBERRY LAKE, NY--Lat 44°13'14", long 74°50'55", St. Lawrence County, Hydrologic Unit 04150302, on right wall at outlet structure, at village of Cranberry Lake. DRAINAGE AREA, 144 mi² (373 km²). PERIOD OF RECORD, April 1923 to current year. GAGE, nonrecording gage read daily at 1200 hours. Datum of gage is 1,469.75 ft (447.980 m) above mean sea level.
 Dam completed in 1867 and controlled storage for which records are available began in 1923. Usable capacity above elevation 1,475.25 ft (449.656 m) is 2,530 mil ft³ (71.6 hm³). Crest at spillway is at elevation, 1,486.43 ft (453.064 m). Length of spillway is 110 ft (34 m). Area of water surface at crest elevation is 10.9 mi² (28.2 km²). Records furnished by Oswegatchie River-Cranberry Reservoir Commission.
 EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 2,985 mil ft³ (84.5 hm³) May 13-15, 1971, gage height, 18.5 ft (5.64 m); minimum observed, 70 mil ft³ (1.98 hm³) Apr. 1-4, 1956, gage height, 6.0 ft (1.83 m).
 EXTREMES FOR CURRENT YEAR: Maximum contents observed, 2,470 mil ft³ (70.0 hm³) Apr. 26, 27, gage height, 16.8 ft (5.12 m); minimum observed, 821 mil ft³ (23.3 hm³) Mar. 4-11, gage height, 10.1 ft (3.08 m).
- 04266700 CARRY FALLS RESERVOIR NEAR SOUTH COLTON, NY--Lat 44°26'07", long 74°44'50", St. Lawrence County, Hydrologic Unit 04150305, near center of upstream wall of dam between Carry Falls and Stark Falls Reservoirs, 2.0 mi (3.2 km) southeast of Stark, and 8.8 mi (14.2 km) southeast of South Colton. DRAINAGE AREA, 873 mi² (2,261 km²). PERIOD OF RECORD, October 1954 to current year. GAGE, nonrecording gage. Datum of gage is at mean sea level.
 Dam completed January 1953 and controlled storage for which records are available began in October 1954. Usable capacity above elevation 1,332.0 ft (405.99 m) is 5,114.9 mil ft³ (145 hm³). Crest at spillway is at elevation 1,386.0 ft (422.45 m). Length of spillway is 830 ft (253 m). Area of water surface at crest elevation is 5.16 mi² or 13.4 km² (3,300 acres or 1,300 hm²). The pond has a length of 6 mi (10 km) and a perimeter of 25 mi (40 km). Below crest elevation, capacity controlled by a taintor gate, 27 ft x 15 ft (8m x 5m), and 2 sluice gates, 10 ft x 10 ft (3m x 3m). Records furnished by Niagara Mohawk Power Corp.
 EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 5,146 mil ft³ (146 hm³) June 1, 5, 6, 1955, elevation, 1,386.1 ft (422.48 m); minimum observed, 8.64 mil ft³ (0.245 hm³) Mar. 27-30, 1963, Apr. 4-11, 1964, elevation, 1,331.0 ft (405.69 m).
 EXTREMES FOR CURRENT YEAR: Maximum contents observed, 5,008 mil ft³ (142 hm³) May 5, elevation, 1,385.1 ft (422.18 m); minimum observed, 1,201 mil ft³ (34.0 hm³) Mar. 12, elevation, 1,351.4 ft (411.91 m).
- 04273900 LAKE PLACID AT LAKE PLACID, NY (see station for daily mean elevations).
- 04278000 LAKE GEORGE AT ROGERS ROCK, NY (see station for daily mean gage heights).
- 04294500 LAKE CHAMPLAIN AT BURLINGTON, VT (see station for daily mean gage heights).
- 04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY (see station for daily mean elevations).

MONTHEND GAGE HEIGHT, ELEVATION, AND CONTENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Gage height (feet)	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)
04260990 Cranberry Lake				04266700 Carry Falls Reservoir		
Sept. 30.....	14.8	1,918		1,367.6	2,780.4	
Oct. 31.....	15.2	2,022	+ 38.8	1,382.6	4,662.1	+702
Nov. 30.....	14.2	1,762	-100	1,379.4	4,225.0	-169
Dec. 31.....	13.3	1,532	- 85.9	1,377.0	3,913.9	-116
CAL YR 1976			+ 6.77			0
Jan. 31.....	11.8	1,186	-129	1,367.2	2,735.4	-440
Feb. 28.....	10.3	863	-134	1,354.8	1,494.7	-513
Mar. 31.....	13.9	1,684	+307	1,368.5	2,881.4	+518
Apr. 30.....	16.5	2,380	+269	1,383.5	4,786.6	+735
May 31.....	16.3	2,324	- 20.9	1,383.5	4,786.6	0
June 30.....	15.7	2,156	- 64.8	1,376.6	3,862.1	-357
July 31.....	15.0	1,970	- 69.4	1,369.2	2,960.1	-337
Aug. 31.....	15.5	2,100	+ 48.5	1,375.1	3,667.7	+264
Sept. 30....	15.6	2,128	+ 10.8	1,379.0	4,173.1	+195
WTR YR 1977			+ 6.66			+ 44.2

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream when continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1977

					Measurements	
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Discharge (ft ³ /s)
Hudson River basin						
01359507 ^{c/}	Hunger Kill near Guilderland	Lat 42°43'25", long 73°55'06", Albany County, at culvert on Old State Road, 0.8 mi (1.3 km) upstream from Glass Pond, and 1.3 mi (2.1 km) northwest of Guilderland.	3.91	1960-61, 1970, 1973-75, 1977	9- 7-77	4.8
01373800	Moodna Creek at Mountainville	Lat 41°24'33", long 74°04'26", Orange County, at bridge on Buzzard Hill Road, 0.1 mi (0.2 km) downstream from Woodbury Creek, and 0.5 mi (0.8 km) northeast of Mountainville.	154	1956-60, 1964-65, 1971-72, 1977	8-16-77 8-17-77 8-18-77	9.3 14 24
†01374494	Haviland Hollow Brook near Putnam Lake	Lat 41°29'03", long 73°34'16", Putnam County, at bridge on Haviland Hollow-Putnam Lake Road, 0.6 mi (1.0 km) upstream from mouth, and 2 mi (3.2 km) northwest of Putnam Lake.	12.2	1962, 1964-66, 1970, 1973, 1977	3-23-77	156
Passaic River basin						
01387100	Ramapo River at Harriman	Lat 41°18'24", long 74°08'14", Orange County, at bridge on Arden Hill Road, 0.5 mi (0.8 km) east of Harriman.	11.7	1956-61, 1964-65, 1977	8-16-77 8-18-77	*.92 *1.3
Delaware River basin						
01421200	Cadosia Creek at Cadosia	Lat 41°58'03", long 75°15'51", Delaware County, at bridge on State Highway 236, 0.3 mi (0.5 km) upstream from mouth, at Cadosia.	17.7	1949, 1955, 1957-71, 1973-75, 1977	9-13-77	2.4
01425665	Oquaga Creek at Arctic	Lat 42°11'06", long 75°25'27", Broome County, at bridge on North Sanford Road, 0.3 mi (0.5 km) upstream from small tributary, 0.5 mi (0.8 km) west of Arctic, 1.3 mi (2.1 km) upstream from gaging station near North Sanford, and 2.6 mi (4.2 km) northeast of North Sanford.	1.15	1971-77	10-20-76 3- 8-77 4-20-77 6-17-77 8-15-77	9.8 3.4 .54 .08 .22
01425670	Oquaga Creek Tributary at Arctic	Lat 42°10'56", long 75°25'16", Broome County, 0.2 mi (0.3 km) upstream from mouth, 0.4 mi (0.6 km) southwest of Arctic, 0.4 mi (0.6 km) downstream from bridge on East Afton Road, and 2.5 mi (4.0 km) northwest of North Sanford.	2.37	1969-77	10-20-76 3- 8-77 4-21-77 6-17-77 8-15-77	21 7.6 1.4 .33 .03
01436800	Bush Kill at Oakland Valley	Lat 41°30'34", long 74°39'20", Sullivan County, at timber bridge on dirt road, 0.4 mi (0.6 km) northwest of Oakland Valley.	19.5	1957-77	7-20-77 8-22-77 9-14-77	6.0 6.5 6.1

* Base flow.

† Also a crest-stage partial-record station.

c Water-quality data included in this report.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
Susquehanna River basin						
†01496363	Ocuquionis Creek at Richfield Springs	Lat 42°51'13", long 74°59'30", Otsego County, at bridge on River Street in Richfield Springs, and 1.4 mi (2.3 km) upstream from Canaderago Lake.	20.0	1968-77	10-26-76 3- 8-77 4-12-77 5-24-77 7- 1-77	108 49 63 10 *3.5
†01496370	Mink Creek at Richfield Springs	Lat 42°50'55", long 75°00'10", Otsego County, at bridge on State Highway 28, 0.4 mi (0.6 km) southwest of Richfield Springs, and 1 mi (1.6 km) upstream from mouth.	10.4	1963, 1968-77	10-26-76 4-12-77 5-24-77 7- 1-77	54 34 6.3 *1.5
†01496390	Hyder Creek near Richfield Springs	Lat 42°49'00", long 75°01'12", Otsego County, at bridge on State Highway 28, 0.4 mi (0.6 km) upstream from mouth, and 3.0 mi (4.8 km) southwest of Richfield Springs.	9.52	1963, 1968-77	10-26-76 4-12-77 5-24-77 7- 1-77	41 22 4.4 *6.4
†01496448	Herkimer Creek at Schuyler Lake	Lat 42°47'19", long 75°01'30", Otsego County, at bridge on State Highway 28, 0.5 mi (0.8 km) upstream from mouth, and 0.6 mi (1.0 km) north of Schuyler Lake.	12.6	1963, 1968-77	10-26-76 3- 8-77 4-12-77 5-24-77 7- 1-77	49 38 32 6.6 *1.3
01501004 ^{c/}	Mill Brook at Sherburne Turnpike at New Berlin	Lat 42°38'13", long 75°21'07", Chenango County, at culvert on Sherburne Turnpike, 0.5 mi (0.8 km) northwest of New Berlin, and 1.6 mi (2.6 km) upstream from mouth.		1975-77	10- 6-76	*1.0
01501008 ^{c/}	Mill Brook Tributary above New Berlin	Lat 42°37'34", long 75°21'06", Chenango County, at culvert on town highway, 0.4 mi (0.6 km) west of New Berlin, and 0.7 mi (1.1 km) upstream from mouth.		1975-77	10- 6-76	*1.0
†01503980	Chenango River at Eaton	Lat 42°51'02", long 75°36'21", Madison County, at bridge on London Road at Eaton, 0.1 mi (0.2 km) upstream from Eaton Brook, and 0.1 mi (0.2 km) down- stream from State Highway 26.	24.3	1964-65, 1970-72, 1977	3- 8-77	94
01508800 ^{c/}	Factory Brook at Homer	Lat 42°38'39", long 76°11'19", Cortland County, at bridge on State Highway 41, about 1 mi (1.6 km) upstream from mouth, in Homer.	15.8	1962-66, 1970, 1972-73, 1976-77	11-23-76 2-14-77 5-24-77 8-24-77	14 11 11 16
Streams tributary to Lake Erie						
†04214410	Hunter Creek at Colegrave	Lat 42°44'11", long 78°32'55", Erie County, at bridge on Center Line Road, 0.3 mi (0.5 km) east of Colegrave, and 3.5 mi (5.6 km) upstream from mouth.	14.0	1963-65, 1970-72, 1974, 1977	3-16-77	68
Streams tributary to Lake Ontario						
†04222600	Wiscoy Creek at Bliss	Lat 42°34'59", long 78°14'16", Wyoming County, at bridge on county road, 0.1 mi (0.2 km) north of State Highway 39, and 0.6 mi (1.0 km) east of Bliss.	21.8	1961-62, 1964-65, 1977	3-26-77 4-28-77 5-16-77 6-20-77	47 58 34 17
†04224700	Sugar Creek near Ossian	Lat 42°30'52", long 77°48'12", Livingston County, on right bank 300 ft (91 m) downstream from bridge on Linzy Road, 1.3 mi (2.1 km) southwest of Ossian, and 5.1 mi (8.2 km) upstream from mouth.	9.83	1964-65, 1970-72, 1976-77	3-26-77 4-27-77	14 20
†04224740 ^{c/}	Sugar Creek near Canaseraga	Lat 42°30'07", long 77°44'43", Livingston County, at bridge on county road, 1.6 mi (2.6 km) upstream from mouth, and 3.4 mi (5.5 km) north of Canaseraga.	19.2	1975-77	11- 9-76 1-13-77 2-14-77 3-25-77 4-27-77 5- 6-77 6-10-77 7-14-77 9- 1-77	14 4.7 10 13 33 37 *3.4 9.4 7.1

* Base flow.

† Also a crest-stage partial-record station.

c Water-quality data included in this report.

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
Streams tributary to Lake Ontario--Continued						
†04224848 ^{c/}	Stony Brook at Stony Brook State Park	Lat 42°31'20", long 77°41'42", Livingston County, at footbridge in Stony Brook State Park, 0.3 mi (0.5 km) south of the north park entrance, and 2.7 mi (4.3 km) south of Dansville.	20.8	1975-77	10-21-76 11-10-76 1-13-77 2-14-77 3-22-77 4-28-77 5- 5-77 6-13-77 7-14-77 9- 1-77 9-21-77	101 18 14 23 36 29 92 8.6 16 8.8 94
†04224900 ^{c/}	Mill Creek at Patchinville	Lat 42°31'13", long 77°35'06", Steuben County, at bridge on Ellinger Road, 0.1 mi (0.2 km) east of State Highway 21, 0.8 mi (1.3 km) south of Patchinville, 3.3 mi (5.3 km) south of Wayland, and 9.1 mi (14.6 km) upstream from mouth.	5.00	1964-66, 1968, 1977	2-25-77 3-24-77 3-28-77 4-26-77 5-26-77 6-22-77 7- 8-77 9-22-77 9-29-77	20 5.7 27 9.4 4.6 3.3 11 11 8.3
†04224978 ^{c/}	Mill Creek at Dansville	Lat 42°33'12", long 77°41'44", Livingston County, at bridge on Knox Road in Dansville, and 0.9 mi (1.4 km) upstream from mouth.	35.9	1975-77	10-21-76 10-22-76 11-16-76 1-13-77 2-15-77 3-24-77 4-27-77 5-27-77 6-22-77 7- 8-77 7-20-77 8-24-77 9-20-77	188 99 38 18 29 38 82 30 24 109 63 56 273
04225600 ^{c/}	Bradner Creek near Dansville	Lat 42°34'49", long 77°44'20", Livingston County, at bridge on old state highway, about 150 ft (46 m) upstream from State Highway 36, 0.4 mi (0.6 km) northwest of Woodsville, 1.5 mi (2.4 km) northwest of Dansville, and 8.5 mi (14 km) upstream from mouth.	7.45	1964-65, 1970-72, 1974-77	11-10-76 1-14-77 2-15-77 3-25-77 4-28-77 5-24-77 6-15-77 7-19-77 8-26-77 9-21-77	9.9 2.8 5.9 16 13 5.9 3.8 3.2 3.9 28
†04225915 ^{c/}	Keshequa Creek at Nunda	Lat 42°35'19", long 77°55'14", Livingston County, at bridge on Bailey Road, 0.4 mi (0.6 km) northeast of Nunda.	32.6	1975-77	11- 9-76 2-24-77 4- 5-77 4-25-77 5-25-77 6-14-77 7- 8-77 7-21-77 8-25-77	19 23 57 122 *15 7.8 61 9.2 29
†04225950 ^{c/}	Keshequa Creek at Tuscarora	Lat 42°38'17", long 77°52'01", Livingston County, at bridge on State Highway 258, 100 ft (30 m) downstream from tribu- tary in Wildcat Gully, and 0.5 mi (0.8 km) north of Tuscarora.	58.6	1975-77	11- 9-76 11-27-76 2-24-77 4- 5-77 4-25-77 5-25-77 6-14-77 7-21-77 8-25-77	25 46 32 92 205 21 9.9 11 46
†04230320 ^{c/}	Oatka Creek at Rock Glen	Lat 42°41'39", long 78°07'15", Wyoming County, at bridge on State Highway 19, 0.6 mi (0.9 km) north of Rock Glen, and 1.2 mi (1.9 km) southeast of South Warsaw.	16.0	1975-77	10-13-76 11-17-76 1-20-77 2-22-77 3-29-77 5- 2-77 6- 1-77 6-15-77 7-27-77 8-17-77 9-16-77 9-17-77	*8.2 12 6.3 11 108 22 5.9 4.6 3.7 65 155 76

* Base flow.

† Also a crest-stage partial-record station.

c Water-quality data included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1977--Continued

			Drainage area (mi ²)	Period of record	Measurements	
Station No.	Station name	Location			Date	Discharge (ft ³ /s)
Streams tributary to Lake Ontario--Continued						
†04230410 ^{c/}	Pearl Creek at Pearl Creek	Lat 42°50'55", long 78°02'36", Wyoming County, at bridge on State Highway 19, 0.2 mi (0.3 km) east of Pearl Creek, and 1.0 mi (1.6 km) upstream from mouth.	10.9	1970-72, 1975-77	10-13-76	*4.7
					1-21-77	1.8
					2-22-77	6.7
					4- 4-77	25
					4-29-77	18
					5-23-77	*3.2
					6-16-77	.80
					7-28-77	*1.2
					8-16-77	*3.2
					9-16-77	78
					†04230423 ^{c/}	Oatka Creek near Pavilion Center	Lat 42°55'43", long 78°02'20", Genesee County, at bridge on Junction Road, 1.6 mi (2.6 km) northwest of Pavilion Center, and 3.7 mi (6.0 km) northwest of Pavilion.	111	1975-77	10-14-76	52
11-18-76	66					
1-21-77	36					
2-22-77	72					
4- 4-77	383					
5- 3-77	108					
6- 2-77	21					
6-16-77	12					
7-28-77	15					
8-17-77	753					
9-16-77	329					
04230470 ^{c/}	Mad Creek near Le Roy	Lat 42°58'47", long 77°57'00", Genesee County, at bridge on State Highway 5, 1.2 mi (1.9 km) east of Le Roy, and 2.3 mi (3.7 km) upstream from mouth.	10.1	1975-77	10-13-76	*.50
					11-18-76	1.3
					1-21-77	.29
					2-23-77	8.2
					4- 6-77	6.3
					4-29-77	6.2
†04234400	West River near Middlesex	Lat 42°41'06", long 77°17'19", Yates County, at bridge on town road, 0.15 mi (0.2 km) west of State Highway 245, 1.6 mi (2.6 km) southwest of Middlesex, and 5.5 mi (8.8 km) upstream from Naples Creek.	29.3	1955, 1964-66, 1970-73, 1977	7- 5-77	*.27
					9- 9-77	*.48
04249060	Little Salmon River at Texas	Lat 43°30'41", long 76°15'11", Oswego County, at bridge on County Highway 16 at Texas, and 1.9 mi (3.1 km) upstream from mouth.	82.9	1961, 1962-64, 1968, 1971, 1973, 1977	7-19-77	*150
					7-21-77	*68

* Base flow.

† Also a crest-stage partial-record station.

c Water-quality data included in this report.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1977

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Housatonic River basin							
01199477	Stony Brook near Dover Plains, NY	Lat 41°42'38", long 73°37'18", Dutchess County, at culvert on town road, 100 ft (30 m) upstream from Mill River, and 2.9 mi (4.7 km) southwest of Dover Plains.	1.93	1976-77	3-14-77	2.75	192
Hudson River basin							
01319800	West Branch Sacandaga River at Arietta, NY	Lat 43°15'03", long 74°31'06", Hamilton County, at bridge on State Highway 10, 0.4 mi (0.6 km) north of Arietta.	28.9	1963-77	3-14-77	13.55	-
01319950	Sand Lake Outlet near Piseco, NY	Lat 43°22'15", long 74°32'47", Hamilton County, at bridge on State Highway 10, 0.9 mi (1.4 km) upstream from mouth, and 5.5 mi (8.8 km) south of Piseco.	7.16	1962-66, 1968-77	4-24-77	2.42	234
01323000	Kennyetto Creek near Broadalbin, NY	Lat 43°03'57", long 74°09'48", Fulton County, at bridge on county highway, 1.8 mi (2.9 km) east of Broadalbin.	28.3	1940-46†, 1960-65, 1969-77	3-14-77	5.07	-
01328758	Pecks Creek at Fort Miller, NY	Lat 43°09'10", long 73°35'24", Saratoga County, at culvert on River Road, 0.5 mi (0.8 km) upstream from mouth, and 0.9 mi (1.4 km) southwest of Fort Miller.	2.43	1976-77	10-21-76	16.56	210
01329900	Glowegee Creek tributary at Mosherville, NY	Lat 43°03'24", long 74°00'58", Saratoga County, at culvert on Parkis Mill Road, and 0.4 mi (0.6 km) south of Mosherville.	1.37	1968-77	3-14-77	13.15	145
01330880	Saratoga Lake tributary near Bemis Heights, NY	Lat 42°59'43", long 73°43'06", Saratoga County, at culvert on State Highway 423, 1.4 mi (2.3 km) upstream from mouth, and 4.6 mi (7.4 km) northwest of Bemis Heights.	2.98	1976-77	3-14-77	13.65	150
01333367	Little Hoosic River at Cherryplain, NY	Lat 42°37'57", long 73°21'23", Rensselaer County, at bridge on town road, just above Kronk Brook, in Cherryplain, 4.2 mi (6.8 km) south of Berlin.	2.22	1976-77	3-14-77	6.42	135
01342730	Steele Creek at Ilion, NY	Lat 43°00'04", long 75°26'10", Herkimer County, at bridge on Whitney Street in Ilion, and 1.6 mi (2.6 km) upstream from mouth.	26.1	1964-65, 1966-68‡, 1969, 1971-74, 1976-77	3-14-77, 4-24-77	4.18, 4.18	1,090, 1,090
01346820	Mohawk River tributary at Indian Castle, NY	Lat 43°00'34", long 74°47'47", Herkimer County, at culvert on State Highway 5S, 0.35 mi (0.6 km) west of Indian Castle, and 0.4 mi (0.7 km) upstream from mouth.	1.37	1974-77	3-14-77	2.08	110
01347460	Spruce Lake tributary near Salisbury Center, NY	Lat 43°10'51", long 74°48'44", Herkimer County, at culvert on town road (Jerseyfield Road), 1.3 mi (2.1 km) upstream from mouth, and 2.9 mi (4.7 km) north of Salisbury Center.	.53	1975-77	3-14-77	3.49	63

† Operated as a continuous-record gaging station.
 ‡ Ice jam.

Annual maximum discharge at crest-stage partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
		Hudson River basin--Continued					
01348420	North Creek near Ephratah, NY	Lat 43°00'28", long 74°33'54", Fulton County, at culvert on town road, 0.4 mi (0.7 km) upstream from mouth, and 1.2 mi (1.9 km) northwest of Ephratah.	6.68	1975-77	3-14-77	7.82	405
01349360	Van Wie Creek tributary near Randall, NY	Lat 42°54'11", long 74°25'55", Montgomery County, at culvert on Brumley Road, 0.3 mi (0.5 km) south of intersection with Argisinger Road, and 0.9 mi (1.4 km) southwest of Randall.	1.03	1974-77	3-14-77	>7.83	-
01350900	Beaverdam Creek near Knox, NY	Lat 42°38'57", long 74°07'56", Albany County, 250 ft (76 m) downstream from bridge, 1.2 mi (1.9 km) south of Knox, and 1.7 mi (2.7 km) upstream from mouth.	6.91	1963-64, 1966, 1967-74, 1976-77	3-30-77	6.78	-
01351610	Schoharie Creek tributary No. 2 at Eaton Corners, NY	Lat 42°49'11", long 74°14'49", Schenectady County, at culvert on Peck Road, 1.0 mi (1.6 km) north of Eaton Corners, and 1.2 mi (1.9 km) upstream from mouth.	1.22	1976-77	3-30-77	12.43	-
01354200	Sandsea Kill at Pattersonville, NY	Lat 42°53'20", long 74°04'42", Schenectady County, at bridge on State Highway 5S, in village of Pattersonville.	9.56	1961, 1963-67, 1971-74, 1976-77	3-14-77	3.24	400
01354300	Plotter Kill at Rynex Corners, NY	Lat 42°49'16", long 74°04'20", Schenectady County, at bridge on State Highway 159, in hamlet of Rynex Corners.	3.70	1958, 1960-68, 1970-74, 1976-77	3-14-77	5.44	373
01355405	Indian Kill near Glenville Center, NY	Lat 42°53'40", long 73°57'27", Schenectady County, 1.1 mi (1.7 km) east of Glenville Center, and 1.3 mi (2.1 km) west of East Glenville.	2.39	1974-77	3-14-77	17.70	128
01361200	Claverack Creek near Claverack, NY	Lat 42°12'54", long 73°43'46", Columbia County, on right bank, 70 ft (21 m) upstream from bridge on State Highway 9H, 0.5 mi (0.9 km) south of Claverack.	60.6	1960-68†, 1969-73, 1975-77	3-14-77	8.58	1,040
01361453	Catskill Creek tributary at Franklinton, NY	Lat 42°31'35", long 74°18'33", Schoharie County, at culvert on town road, 0.15 mi (0.3 km) upstream from mouth, and 0.5 mi (0.8 km) northwest of Franklinton.	3.64	1976-77	3-14-77	4.27	123
01361900	Shingle Kill at Cairo, NY	Lat 42°18'22", long 74°00'15", Greene County, at bridge on town road at Cairo, southeast of State Highway 32, about 400 ft (122 m) south of State Highway 23, and 0.8 mi (1.3 km) upstream from mouth.	13.9	1953, 1966, 1967-74, 1976-77	9-20-77	4.57	550
01362100	Roeliff Jansen Kill near Hillsdale, NY	Lat 42°09'13", long 73°31'14", Columbia County, at bridge on county highway off State Highway 22, 1.8 mi (2.9 km) south of Hillsdale.	27.5	1958-60†, 1963-64, 1968-77	3-14-77	5.98	1,310
01362197	Bushnellsville Creek at Shandaken, NY	Lat 42°07'25", long 74°24'04", Ulster County, along State Highway 42, 0.4 mi (0.6 km) upstream from Esopus Creek, and 0.6 mi (0.97 km) northwest of Shandaken.	11.4	1951, 1956, 1972, 1976-77	3-30-77	9.69	797
01368713	Wawayanda Creek at Durland, NY	Lat 41°16'44", long 74°18'20", Orange County, on bridge on State School Road, at Durland, 0.1 mi (0.2 km) downstream from Wickham Lake, and 2.5 mi (4.0 km) northeast of Warwick.	5.15	1971-77	2-25-77	15.63	47

† Operated as a continuous-record gaging station.

> Greater than; crest-stage gage topped.

Annual maximum discharge at crest-stage partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
		Hudson River basin--Continued					
01368724	Long House Creek at Bellvale, NY	Lat 41°15'10", long 74°18'30", Orange County, at bridge on Iron Forge Road, at Bellvale, and 1.9 mi (3.1 km) upstream from mouth.	11.8	1971-77	2-25-77	16.35	-
01368810	Wawayanda Creek at New Milford, NY	Lat 41°14'18", long 74°25'03", Orange County, at bridge on Ryerson Road, at New Milford, 0.2 mi (0.3 km) upstream from Double Kill.	45.0	1971-77	2-25-77	14.31	835
01372200	Wappinger Creek near Clinton Corners, NY	Lat 41°48'55", long 73°45'50", Dutchess County, on right downstream wingwall of highway bridge 850 ft (259 m) downstream from abandoned bridge abutment of Philadelphia, Reading, and New England Railroad, 1,900 ft (579 m) downstream from East Branch Wappinger Creek, and 1 mi (1.6 km) south of Clinton Corners.	92.4	1956-76†, 1977	3-14-77	10.50	1,750
01372948	Clove Creek near North Highland, NY	Lat 41°28'50", long 73°54'35", Putnam County, at bridge on Mill Road, 1.6 mi (2.6 km) northeast of North Highland.	12.1	1975-77	3-14-77	3.64	490
01373690	Woodbury Creek near Highland Mills, NY	Lat 41°22'00", long 74°06'17", Orange County, on left bank, 40 ft (12 m) downstream from culvert type bridge on road to Atlantic Coast Aggregate Corp. plant, 1,200 ft (365 m) downstream from bridge on N.Y. Highway 32, and 1.9 mi (3.1 km) north of Highland Mills.	11.2	1966-68†, 1963-72, 1977	3-14-77	4.12	602
01374130	Canopus Creek at Oscawana Corners, NY	Lat 41°22'43", long 73°52'23", Putnam County, at bridge on Hortun Hollow Road, 0.4 mi (0.6 km) downstream from West Branch, and 0.8 mi (1.3 km) west of Oscawana Corners.	7.21	1975-77	3-14-77	4.87	475
01374250	Peekskill Hollow Creek at Tompkins Corners, NY	Lat 41°23'18", long 73°48'47", Putnam County, at bridge on Bryant Pond Road, 0.9 mi (1.4 km) southwest of Tompkins Corners, and 1.1 mi (1.8 km) downstream from Wiccopee Brook.	14.96	1975-77	3-14-77	3.16	285
†01374494	Haviland Hollow Brook near Putnam Lake, NY	Lat 41°29'03", long 73°34'16", Putnam County, at bridge on Haviland Hollow-Putnam Lake Road, 0.6 mi (1.0 km) upstream from mouth, and 2 mi (3.2 km) northwest of Putnam Lake.	12.19	1977	3-14-77	5.57	380
013744949	East Branch Croton River near Deforest, NY	Lat 41°25'16", long 73°33'00", Putnam County, at culvert on County Road 84, 1.7 mi (2.7 km) south of Deforest Corners, and 0.6 mi (1.0 km) west of New York and Connecticut line.	.61	1977	3-14-77	8.20	-
01374645	Lake Carmel Inlet at Kent Corners, NY	Lat 41°28'19", long 73°39'15", Putnam County, at culvert on State Highway 311, 0.3 mi (0.5 km) upstream from mouth, and 0.4 mi (0.6 km) northeast of Kent Corners.	10.3	1975-77	3-14-77	2.05	260

† Also a low-flow partial-record station.

‡ Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Hudson River basin--Continued							
01376410	Saw Mill River at at Eastview, NY	Lat 41°04'48", long 73°49'40", Westchester County, at bridge on Old Saw Mill River Road in Eastview, and 200 ft (61 m) up-stream from Tarrytown Reservoir Outlet.	12.49	1975, 1977	9-26-75 2-25-77	- 8.84	pl,560 720
Hackensack River basin							
01376570	New City Brook near New City, NY	Lat 41°10'09", long 73°58'46", Rockland County, at bridge on road north of Christie Airport, 0.5 mi (0.8 km) east of Zukor Road, 0.8 mi (1.3 km) upstream from mouth, and 1.1 mi (1.8 km) north of New City.	5.51	1972-77	2-25-77	7.07	1,100
01376600	Hackensack River at Brookside Park, NY	Lat 41°10'18", long 73°58'24", Rockland County, at Brookside Park, 900 ft (270 m) upstream from State Highway 304, 1,300 ft (400 m) upstream from DeForest Lake, 0.8 mi (1.3 km) downstream from unnamed tributary, and 1.2 mi (1.9 km) from Lake Lucille.	13.2	1959-63†, 1967-77	5-28-68 9-26-75 2-25-77	7.40 6.53 5.95	1,350 950 730
01376690	East Branch Hackensack River near Congers, NY	Lat 41°07'32", long 73°57'24", Rockland County, about 0.1 mi (0.2 km) downstream from small pond, half a mile (0.8 km) up-stream from DeForest Lake, and 2 mi (3 km) south of Congers.	6.86	1960, 1968-69, 1971-77	2-25-77	9.51	250
01377180	Pascack Brook at Spring Valley, NY	Lat 41°06'45", long 74°02'00", Rockland County, on road to Orange and Rockland Utilities substation, and 0.7 mi (1.1 km) east of Spring Valley.	2.13	1972-77	2-25-77	2.93	215
01377200	Pascack Brook tributary at Spring Valley, NY	Lat 41°06'15", long 74°01'57", Rockland County, 100 ft (30 m) upstream from mouth, and 150 ft (46 m) downstream from bridge on Pascack Road at Spring Valley.	4.58	1960-62†, 1963-74, 1976-77	2-25-77	4.79	464
01387350	Nakoma Brook at Sloatsburg, NY	Lat 41°09'14", long 74°11'38", Rockland County, 50 ft (15 m) downstream from tributary, 100 ft (30 m) upstream from State Highway 17, 0.5 mi (0.8 km) upstream from mouth, 1.1 mi (1.8 km) downstream from Cranberry Pond Outlet, at Sloatsburg.	5.35	1960-77	2-25-77	7.04	240
01387410	Torne Brook at Ramapo, NY	Lat 41°08'34", long 74°09'44", Rockland County, 0.2 mi (0.3 km) upstream from mouth, and 0.5 mi (0.8 km) east of Ramapo.	2.62	1960, 1962-77	2-25-77	8.44	720
Delaware River basin							
01417185	Campbell Brook tributary near Downsville, NY	Lat 42°02'41", long 74°58'37", Delaware County, at culvert on Campbell Brook Road, 200 ft (61 m) upstream from mouth, 2.0 mi (3.2 km) southwest of Downsville Dam, and 2.7 mi (4.3 km) southeast of Downsville.	.41	1975-77	10- 9-76 8- 5-77	2.04 2.05	15 15
01422530	Peaks Brook near Delhi, NY	Lat 42°15'58", long 74°57'24", Delaware County, at culvert on town road, 0.9 mi (1.4 km) upstream from mouth, and 2.0 mi (3.2 km) west of Delhi.	5.04	1975-77	10-20-75 9-20-77	4.04 1.78	725 500
01436050	Neversink River tributary to tributary No. 3 near Loch Sheldrake, NY	Lat 41°48'05", long 74°37'53", Sullivan County, at culvert on town road, 0.2 mi (0.3 km) up-stream from mouth, and 2.5 mi (4.0 km) northeast of Loch Sheldrake.	1.36	1975-77	3-14-77	3.96	120

† Operated as a continuous-record gaging station.

p Peak flow.

Annual maximum discharge at crest-stage partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
		Delaware River basin--Continued					
01437345	Basher Kill tributary near Westbrookville, NY	Lat 41°30'34", long 74°32'36", Sullivan County, at culvert on town road, 0.2 mi (0.3 km) upstream from mouth, and 1.0 mi (1.6 km) northeast of Westbrookville.	1.51	1975-77	3-14-77	3.73	80
		Susquehanna River basin					
†01496363	Ocuquionis Creek at Richfield Springs, NY	Lat 42°51'13", long 74°59'30", Otsego County, at bridge on River Street in Richfield Springs, and 1.4 mi (2.3 km) upstream from Canaderago Lake.	20.0	1975-77	3-13-77	4.88	1,000
†01496370	Mink Creek at Richfield Springs, NY	Lat 42°50'55", long 75°00'10", Otsego County, at bridge on State Highway 28, 0.4 mi (0.6 m) southwest of Richfield Springs, and 1 mi (1.6 km) upstream from mouth.	10.4	1969-77	3-13-77	4.67	469
†01496390	Hyder Creek near Richfield Springs, NY	Lat 42°49'00", long 75°01'12", Otsego County, at bridge on State Highway 28, 0.4 mi (0.6 km) upstream from mouth, and 3.0 mi (4.8 km) southwest of Richfield Springs.	9.52	1975-77	3-13-77	5.15	720
†01496448	Herkimer Creek at Schuyler Lake, NY	Lat 42°47'19", long 75°01'30", Otsego County, at bridge on State Highway 28, 0.5 mi (0.8 km) upstream from mouth, and 0.6 mi (1.0 km) north of Schuyler Lake.	12.0	1977	3-13-77	5.63	460
01501140	Wharton Creek tributary near Edmeston, NY	Lat 42°42'35", long 75°13'19", Otsego County, at culvert on town road, 1.1 mi (1.8 km) upstream from mouth, and 1.4 mi (2.3 km) northeast of Edmeston.	2.02	1976-77	2-22-76 3-13-77	2.47 4.50	82 148
01502714	Ouaquaga Creek near Belden, NY	Lat 42°10'12", long 75°40'45", Broome County, at culvert on Kane Road, 2.3 mi (3.7 km) south of Belden, 2.8 mi (4.5 km) west of Harpursville, and 4.5 mi (7.2 km) upstream from mouth.	3.37	1975-77	9-20-77	4.32	283
01503960	Electric Light Stream near Morrisville, NY	Lat 42°52'51", long 75°38'37", Madison County, at bridge on Eaton-Morrisville Road, in Eagleville, 0.4 mi (0.6 km) upstream from mouth, and 1.3 mi (2.1 km) south of Morrisville.	7.21	1976-77	4-16-76 10- 9-76	10.67 10.96	380 400
01503980	Chenango River at Eaton, NY	Lat 42°51'02", long 75°36'21", Madison County, at bridge on London Road at Eaton, 0.1 mi (0.2 km) upstream from Eaton Brook, and 0.1 mi (0.2 km) downstream from State Highway 26.	24.3	1964-65, 1967-77	10- 9-76	7.77	1,520
01505018	Cold Brook at North Norwich, NY	Lat 42°36'26", long 75°31'58", Chenango County, at culvert on town road, 0.8 mi (1.3 km) southwest of North Norwich, and 1.5 mi (2.4 km) upstream from mouth.	4.77	1975, 1977	10-18-75 3-13-77	2.17 5.27	88 240
01505500 ^{c/}	Canasawacta Creek near South Plymouth, NY	Lat 42°33'49", long 75°33'09", Chenango County, on right bank, 1.4 mi (2.3 km) southeast of South Plymouth, 2 mi (3 km) northwest of Norwich, 2.8 mi (4.5 km) downstream from East Branch, and 4.2 mi (6.8 km) upstream from mouth.	57.9	1945-75†, 1977	3-13-77	5.52	5,360

† Also a low-flow partial-record station.

‡ Operated as a continuous-record gaging station.

c Water-quality data included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
Susquehanna River basin--Continued							
01507000	Chenango River at Greene, NY	Lat 42°19'28", long 75°46'18", Chenango County, on left bank 1,700 ft (520 m) down- stream from bridge on State Highway 206 at Greene, and 0.6 mi (1.0 km) downstream from Birdsall Creek.	593	1937-70†, 1971-77	3-14-77	15.49	13,900
01508946	Otter Creek tributary at State Highway 222 near Cortland, NY	Lat 42°35'22", long 76°14'01", Cortland County, at culvert on State Highway 222, 1.0 mi (1.6 km) upstream from mouth, and 1.8 mi (2.9 km) west of Cortland.	2.85	1976-77	2-22-76 9-20-77	11.81 11.85	84 85
01510610	Merrill Creek tributary near Texas Valley, NY	Lat 42°28'03", long 75°59'19", Cortland County, at bridge on town road, 0.3 mi (0.5 km) up- stream from mouth, and 1.4 mi (2.3 km) southwest of Texas Valley.	5.32	1976-77	9-21-77	4.09	790
01511500	Tioughnioga River at Itaska, NY	Lat 42°17'55", long 75°54'30", Broome County, on right bank at Itaska, 3.8 mi (6.1 km) downstream from Otselec River and village of Whitney Point, and 6 mi (10 km) upstream from mouth.	730	1929-67†, 1968-77	3-13-77	9.29	14,100
01512515	Page Brook Page Brook, NY	Lat 42°17'16", long 75°43'24", Wiley Road, 0.1 mi (0.2 mi) upstream from mouth, and 2.9 mi (4.7 km) northeast of Page Brook.	2.07	1977	10-10-76 9-20-77	3.04 3.03	180 179
01513500	Susquehanna River at Vestal, NY	Lat 42°05'27", long 76°03'23", Broome County, on left bank 400 ft (120 m) downstream from highway bridge at Vestal, and 800 ft (240 m) upstream from Choconut Creek.	3,941	1938-67†, 1968-72, 1974-77	3-14-77	22.68	59,600
01525500	Canisteo River at West Cameron, NY	Lat 42°13'20", long 77°25'05", Steuben County, on right bank 250 ft (76 m) downstream from bridge on County Highway 119, 0.3 mi (0.5 km) southeast of West Cameron, and 1.7 mi (2.7 km) north of Cameron.	340	1930-31†, 1937-70†, 1971-72, 1974-77	1-27-77 2-17-77	b15.60 13.63	- 9,100
Allegheny River basin							
03010743	Johnson Creek near Franklinville, NY	Lat 42°22'37", long 78°26'38", Cattaraugus County, at culvert on Pigeon Hill Road, 0.2 mi (0.3 km) north of State Highway 98, 1.3 mi (2.1 km) from mouth and 2.1 mi (3.4 km) north of Franklinville boundary.		1977	9-24-77	13.54	131
03010800	Olean Creek near Olean, NY	Lat 42°07'12", long 78°25'12", Cattaraugus County, on right bank at upstream side of high- way bridge, 1,000 ft (300 m) west of State Highway 16, 1.4 mi (2.3 km) northeast of Olean, and 4.6 mi (7.4 km) upstream from mouth.	198	1959-68†, 1970-77	3-13-77	10.66	3,940
03010997	Great Valley Creek tributary near Great Valley, NY	Lat 42°12'02", long 78°41'22", Cattaraugus County, at culvert on Hungry Hollow Road, 1.1 mi (1.8 km) upstream from mouth, 1.1 mi (1.8 km) northwest of intersection of U.S. Highway 219 and Hungry Hollow Road, and 2.9 mi (4.7 km) southwest of Great Valley.	3.91	1977	7- 8-77	15.30	

† Operated as a continuous-record gaging station.

b Ice jam.

Annual maximum discharge at crest-stage partial-record stations during water year 1977--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Allegheny River basin--Continued							
03011000	Great Valley Creek near Salamanca, NY	Lat 42°10'42", long 78°41'40", Cattaraugus County, on left bank 0.3 mi (0.5 km) upstream from highway bridge, 1 mi (1.6 km) downstream from Hungry Hollow, 1.5 mi (2.4 km) northeast of Salamanca, and 2 mi (3.2 km) up-stream from mouth.	137	1950-68†, 1977	7- 9-77	16.49	6,670
03012837	West Branch Conewango Creek tributary near Hamlet, NY	Lat 42°21'55", long 79°10'17", Chautauqua County, at culvert on Hamlet Road, 0.1 mi (0.2 km) west of the intersection of State Highway 83 and Hamlet Road, 1.0 mi (1.6 km) upstream from mouth, and 1.9 mi (3.1 km) west of Hamlet.	6.84	1977	7- 9-77	16.87	-
03013800	Ball Creek at Stow, NY	Lat 42°09'13", long 79°24'27", Chautauqua County, at bridge on State Highway 17J at Stow.	9.06	1935-66, 1975, 1977	9-24-77	17.71	1,340
Streams tributary to Lake Erie							
04213490	South Branch Cattaraugus Creek near Otto, NY	Lat 42°21'54", long 78°48'06", Cattaraugus County, at highway bridge, 0.2 mi (0.3 km) upstream from Mansfield Creek, and 1.7 mi (2.7 km) northeast of Otto.	25.6	1963-77	9-20-77	7.77	2,870
04214040	Delaware Creek near Angola, NY	Lat 42°37'46", long 79°03'15", Erie County, at bridge on State Highway 5, 1.5 mi (2.4 km) southwest of Angola, and 1.6 mi (2.6 km) upstream from mouth.	8.15	1963-77	4-23-77	4.94	615
†04214410	Hunter Creek at Colegrave, NY	Lat 42°44'11", long 78°32'55", Erie County, at bridge on Center Line Road, 0.3 mi (0.5 km) east of Colegrave, and 3.5 mi (5.6 km) upstream from mouth.	14.0	1964-77	8-17-77	6.45	1,540
04214980	Little Buffalo Creek near East Lancaster, NY	Lat 42°52'46", long 78°36'27", Erie County, at bridge on Schwartz Road, 1.9 mi (3.1 km) southeast of East Lancaster, and 2.9 mi (4.7 km) upstream from mouth.	23.9	1963-73, 1976-77	2-25-77 3-13-77 9-25-77	b6.01 5.40 5.40	- 375 375
Streams tributary to Niagara River							
04216400	Tonawanda Creek near Johnsonburg, NY	Lat 42°43'05", long 78°19'18", Wyoming County, on State Highway 98 near Johnsonburg, and 0.6 mi (1.0 km) downstream from East Fork.	23.6	1962-77	11-26-64 2-11-66 9-28-67 1- 1-68 1- 1-69 12-11-69 8-17-77	7.49 6.68 9.37 6.57 7.01 6.30 9.36	R828 R625 1,350 598 R708 R533 1,340
04216875	Little Tonawanda Creek tributary near Batavia, NY	Lat 42°56'33", long 78°09'46", Genesee County, at culvert on Francis Road, 1.6 mi (2.6 km) upstream from mouth, and 2.7 mi (4.3 km) south of city of Batavia.	1.01	1976-77	7-29-76 9-25-77	12.23 15.65	84 156
04217700	Murder Creek at Pembroke, NY	Lat 42°59'37", long 78°26'08", Genesee County, at Lake Road bridge, 0.3 mi (0.5 km) south of Pembroke, and 12.5 mi (20.1 km) west of Batavia.	43.9	1962-72, 1974-77	9-25-77	8.17	1,000
04219645	Fourmile Creek near Youngstown, NY	Lat 43°13'49", long 79°01'01", Niagara County, at culvert on Balmer Road, 200 ft (61 m) east of State Highway 18, 1.5 mi (3.2 km) southeast of Youngstown, and 3.4 mi (5.5 km) above the mouth.	4.88	1971-73, 1976-77	3- 5-76 4-23-77	9.19 7.85	300 170

† Also a low-flow partial-record station.

‡ Operated as a continuous-record gaging station.

b Ice jam.

R Revised.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Streams tributary to Lake Ontario							
04219900	Johnson Creek near Lyndonville, NY	Lat 43°20'21", long 78°20'55", Orleans County, at bridge on Woodworth Road, 3.3 mi (5.3 km) downstream from dam at Lyndonville, and 4.4 mi (7.1 km) upstream from mouth.	87.7	1962-65, 1976-77	3-13-77	8.66	2,560
04219905	Johnson Creek tributary near Lyndonville, NY	Lat 43°20'09", long 78°19'30", Orleans County, at culvert on Alps Road at intersection of Goodwin Road, 0.5 mi (0.8 km) upstream from mouth, and 2.8 mi (4.5 km) east of Lyndonville.	1.95	1977	3-13-77	21.43	46
04219925	Oak Orchard Creek near Elba, NY	Lat 43°06'46", long 78°07'39", Genesee County, at bridge on Strouts Road, at intersection with Watson Road, and 3.3 mi (5.3 km) north-west of Elba village line.	7.49	1976-77	9-26-77	9.00	218
04220045	Oak Orchard Creek near Shelby, NY	Lat 43°10'25", long 78°23'13", Orleans County, at bridge on Harrison Road, 0.2 mi (0.3 km) east of State Highway 63, and 1.1 mi (1.8 km) south of Shelby.		1977	9-26-77	6.77	585
†04222600	Wiscony Creek at Bliss, NY	Lat 42°34'59", long 78°14'16", Wyoming County, at bridge on county road, 0.1 mi (0.2 km) north of State Highway 39, and 0.6 mi (1.0 km) east of Bliss.	21.8	1962-65, 1967-77	9-20-77	3.98	1,770
†04224700 ^{c/}	Sugar Creek near Ossian, NY	Lat 42°30'52", long 77°48'12", Livingston County, on right bank 300 ft (91 m) downstream from bridge on Linzy Road, 1.3 mi (2.1 km) southwest of Ossian, and 5.1 mi (8.2 km) upstream from mouth.	9.83	1975, 1977	1-29-75 3-13-77	3.89 4.42	- 455
†04224740 ^{c/}	Sugar Creek near Canaseraga, NY	Lat 42°30'07", long 77°44'43", Livingston County, at bridge on county road, 1.6 mi (2.6 km) upstream from mouth, and 3.4 mi (5.5 km) north of Canaseraga.	19.2	1977	8-17-77	3.09	854
†04224848 ^{c/}	Stony Brook at Stony Brook State Park, NY	Lat 42°31'20", long 77°41'22", Livingston County, at foot-bridge in Stony Brook State Park, 0.3 mi (0.5 km) south of north park entrance, and 2.7 mi (4.3 km) south of Dansville.	20.8	1977	9-25-77	6.39	1,320
†04224900 ^{c/}	Mill Creek at Patchinville, NY	Lat 42°31'13", long 77°35'06", Steuben County, at bridge on Ellinger Road, 0.1 mi (0.2 km) east of State Highway 21, 0.8 mi (1.3 km) south of Patchinville, 3.3 mi (5.3 km) south of Wayland, and 9.1 mi (14.6 km) upstream from mouth.	5.00	1964-77	9-28-67 1-30-68 4-24-69 4- 2-70 3-16-71 6-23-72 12- 6-72 5-17-74 9-26-75 2-17-76 9-19-77	R3.10 R1.65 R1.50 R1.84 R2.08 R3.53 R3.20 R2.30 R2.08 R2.43 2.86	R840 R90 R65 R130 R198 1,350 R940 R283 R194 R346 633
†04224978 ^{c/}	Mill Creek at Dansville, NY	Lat 42°33'12", long 77°41'44", Livingston County, at bridge on Knox Road in Dansville, and 0.9 mi (1.4 km) upstream from mouth.	35.9	1977	9-20-77	11.86	720
04225500 ^{c/}	Canaseraga Creek at Groveland, NY	Lat 42°39'40", long 77°46'07", Livingston County, at bridge on State Highway 258, 0.1 mi (0.2 km) west of Groveland.	181	1956-64†, 1975-77	3-13-77	2.77	330

† Also a low-flow partial-record station.

‡ Operated as a continuous-record gaging station.

c Water-quality data included in this report.

R Revised.

Annual maximum discharge at crest-stage partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
Streams tributary to Lake Ontario--Continued							
†04225915 ^{c/}	Keshequa Creek at Nunda, NY	Lat 42°35'19", long 77°55'14", Livingston County, at bridge on Bailey Road, 0.4 mi (0.6 km) northeast of Nunda.	32.6	1975-77	9-20-77	5.78	2,160
†04225950 ^{c/}	Keshequa Creek at Tuscarora, NY	Lat 42°38'17", long 77°52'01", Livingston County, at bridge on State Highway 258, 100 ft (30 m) downstream from tribu- tary in Wildcat Gully, and 0.5 mi (0.8 km) north of Tuscarora.	58.6	1976-77	9-20-77	8.05	3,300
†04230320 ^{c/}	Oatka Creek at Rock Glen, NY	Lat 42°41'39", long 78°07'15", Wyoming County, at bridge on State Highway 19, 0.6 mi (1.0 km) north of Rock Glen, and 1.2 mi (1.9 km) southeast of South Warsaw.	16.0	1977	9-20-77	5.24	1,030
†04230410 ^{c/}	Pearl Creek at Pearl Creek, NY	Lat 42°50'55", long 78°02'36", Wyoming County, at bridge on State Highway 19, 0.2 mi (0.3 km) east of Pearl Creek, and 1.0 mi (1.6 km) upstream from mouth.	10.9	1975-77	7- 8-77	7.03	377
†04230423 ^{c/}	Oatka Creek near Pavilion Center, NY	Lat 42°55'43", long 78°02'20", Genesee County, at bridge on Junction Road, 1.6 mi (2.6 km) northwest of Pavilion Center, and 3.7 mi (6.0 km) northwest of Pavilion.	111	1975-77	3-13-77	9.81	2,950
042320527	Mill Creek tributary near Webster, NY	Lat 43°14'45", long 77°26'43", Monroe County, at culvert on Woodboro Farms Road, 400 ft (120 m) east of Holt Road, and 1.0 mi (1.6 km) north of Webster.	1.80	1976-77	2-25-77 3-13-77	b11.26 10.54	47
042320578	Bear Creek at Ontario, NY	Lat 43°13'30", long 77°17'00", Wayne County, at culvert on New Street in Ontario, 100 ft (30 m) west of Furnace Road.	6.74	1975-77	2-17-77	11.60	75
04232071	Second Creek tributary at Alton, NY	Lat 43°12'36", long 76°59'32", Wayne County, at culvert on Bond Road, 200 ft (60 m) south of U.S. Highway 104, 0.3 mi (0.5 km) from mouth, and 0.6 mi (1.0 km) west of Alton.	1.07	1976-77	10-21-76	13.30	52
04232087	Red Creek tributary No. 16 near Red Creek, NY	Lat 43°13'36", long 76°42'23", Cayuga County, at culvert on town road (Red Creek Road), 1.3 mi (2.1 km) southeast of Red Creek.	2.90	1976-77	3-13-77	7.31	72
04232460	Sugar Creek at Guyanoga, NY	Lat 42°37'23", long 77°09'30", Yates County, at bridge on Sid White Road, 0.4 mi (0.6 km) east of Guyanoga, and 2.3 mi (3.7 km) upstream from mouth.	28.9	1966-77	10-10-76	3.28	27
04232630	Kendig Creek near MacDougall, NY	Lat 42°50'57", long 76°53'33", Seneca County, at downstream side of bridge on County High- way 120, 3.0 mi (4.8 km) north of MacDougall, 3.5 mi (5.6 km) southwest of Waterloo, and 4.6 mi (7.4 km) upstream from mouth.	13.8	1965-68†, 1969-73, 1975-77	10- 9-76	4.67	354
04233255	Cayuga Inlet at Ithaca, NY	Lat 42°25'38", long 76°31'19", Tompkins County, on upstream abutment face of flood-control weir, at east end of Burtt Place, south of Ithaca city line, 0.3 mi (0.5 km) east of State Highway 13a, 0.9 mi (1.4 km) downstream from Buttermilk Creek, and 2.4 mi (3.9 km) upstream from mouth.	86.7	1972, 1975-77	10- 9-76	8.48	2,420

† Also a low-flow partial-record station.

‡ Operated as a continuous-record gaging station.

b Ice jam.

c Water-quality data included in this report.

Annual maximum discharge at crest-stage partial-record stations during water year 1977--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Streams tributary to Lake Ontario--Continued							
04233310	Sixmile Creek above Ithaca, NY	Lat 42°24'33", long 76°27'14", Tompkins County, at bridge on Burns Road, 1.8 mi (2.9 km) southeast of Ithaca, and 4.4 mi (7.1 km) upstream from mouth.	42.0	1976-77	10- 9-76	6.04	2,190
04233676	Virgil Creek at Dryden, NY	Lat 42°29'18", long 76°18'08", Tompkins County, at bridge on Mill Street at Dryden, and 0.1 mi (0.2 km) upstream from Dryden Lake Outlet.	20.6	1966-70, 1972, 1975-77	10- 9-76	4.17	1,050
04233700	Virgil Creek at Freeville, NY	Lat 42°30'18", long 76°21'01", Tompkins County, on left bank, 10 ft (3 m) upstream from bridge on Johnson Street in Freeville, and 0.8 mi (1.3 km) upstream from Fall Creek.	40.3	1974-75†, 1976-77	3-13-77	15.74	965
042340588	Yawger Creek tributary near Auburn, NY	Lat 42°54'41", long 76°39'46", Cayuga County, at culvert on Chamberlain Road, 3.5 mi (5.6 km) west of Auburn, and 4.3 mi (6.9 km) upstream from mouth.	1.76	1976-77	3- 4-77	10.60	-
04234200	Mud Creek at East Victor, NY	Lat 42°58'28", long 77°22'57", Ontario County, 25 ft (8 m) downstream from bridge on State Highway 96, 0.3 mi (0.5 km) upstream from Fish Creek, at East Victor.	64.2	1958-68‡, 1972, 1976-77	9-25-77	6.70	1,390
04234363	Erie (Barge) Canal tributary near Newark, NY	Lat 43°02'47", long 77°02'57", Wayne County, at culvert at intersection of Brumm and Sutton Roads, and 1.2 mi (1.9 km) east of Newark.	.58	1976-77	10-10-76	4.76	22
04234400	West River near Middlesex, NY	Lat 42°41'06", long 77°17'19", Yates County, at bridge on town road, 1.5 mi (0.2 km) west of State Highway 245, 1.6 mi (2.6 km) southwest of Middlesex, and 5.5 mi (8.8 km) upstream from Naples Creek.	29.3	1965-72, 1975-77	10- 9-76	4.86	900
04235276	Black Brook at Tyre, NY	Lat 42°59'30", long 76°48'13", Seneca County, at bridge on County Highway 101, in village of Tyre, and 0.8 mi (1.3 km) upstream from mouth.	19.0	1966-73, 1975-77	4-23-77	2.63	243
04242795	Canada Creek tributary near Lee Center, NY	Lat 43°19'40", long 75°31'52", Oneida County, at culvert on Stream Road at Negro Road, 1.6 mi (2.6 km) upstream from mouth, 1.7 mi (2.7 km) northwest of Lee Center, and 7.6 mi (12.2 km) northwest of Rome.	1.34	1977	5-25-77	12.97	140
†04244000	Chittenango Creek near Chittenango, NY	Lat 43°01'25", long 75°51'30", Madison County, on right bank upstream side of county highway bridge, 50 ft (15 m) west of State Highway 13, 1.6 mi (2.6 km) south of Chittenango, 12 mi (19 km) upstream from Butternut Creek, and 23 mi (37 km) upstream from mouth.	66.3	1950-68‡, 1977	9-20-77	7.41	3,300
04245236	Meadow Brook at Hurlburt Road, Syracuse, NY	Lat 43°02'30", long 76°06'02", Onondaga County, on right bank, 170 ft (52 m) downstream from culvert at intersection of Hurlburt Road and Meadowbrook Drive, and 2.3 mi (3.7 km) upstream from mouth.	2.90	1971-73‡, 1974-77	10-21-76	5.31	337
04245405	Negro Brook near Bridgeport, NY	Lat 43°07'46", long 75°56'50", Madison County, at culvert on Marsh Mill Road, 0.2 mi (0.3 km) upstream from mouth, and 2.1 mi (3.4 km) southwest of Bridgeport.	1.53	1976-77	2-25-77 3-13-77	b7.42 5.26	- 155

† Also a low-flow partial-record station.

‡ Operated as a continuous-record gaging station.

b Ice jam.

Annual maximum discharge at crest-stage partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
Streams tributary to Lake Ontario--Continued							
04245840	Scriba Creek near Constantia, NY	Lat 43°15'35", long 76°00'11", Oswego County, on right bank, 8 ft (2 m) upstream from road to Ingersol Road, and about 0.8 mi (1.3 km) north of vil- lage of Constantia.	38.4	1966-68†, 1969, 1971-77	3-13-77	7.15	1,040
04249011	Wine Creek at Oswego, NY	Lat 43°27'43", long 76°28'43", Oswego County, at culvert on U.S. Highway 104, 0.3 mi (0.5 km) west of east city limits of City of Oswego, and 1.4 mi (2.3 km) upstream from mouth.	3.11	1976-77	3-29-77	12.77	
04249050	Catfish Creek at New Haven, NY	Lat 43°29'00", long 76°19'34", Oswego County, at bridge on State Highway 104B, at New Haven, 1.4 mi (2.3 km) up- stream from mouth.	31.7	1962-66, 1968-77	3-13-77 3-29-77	6.38 6.39	640 640
042490673	North Branch Grindstone Creek near Altmar, NY	Lat 43°29'31", long 76°05'41", Oswego County, at culvert on Hong Kong Road, 4.1 mi (6.6 km) upstream from con- fluence with South Branch Grindstone Creek, and 4.1 mi (6.6 km) southwest of Altmar.	11.2	1976-77	3-29-77	10.29	323
04250695	Staplin Creek at Rutland Center, NY	Lat 43°57'31", long 75°48'24", Jefferson County, at culvert on Miser Hill Road, 0.3 mi (0.5 km) north of Rutland Center, 3.4 mi (5.5 km) east of Watertown, and 3.8 mi (6.1 km) upstream from confluence with Boynton Creek.	1.84	1976-77	5-20-76 3-13-77	3.57 5.75	59 64
04250752	Sandy Creek tributary No. 2 near Woodville, NY	Lat 43°45'59", long 76°12'02", Jefferson County, at culvert 250 ft (76 m) north of Southwick Road, 0.2 mi (0.3 km) west of junction of State Highways 3 and 193, 1.9 mi (3.0 km) northwest of Woodville.	4.26	1969-71, 1976-77	3-13-77	b15.54	-
04256040	Mill Creek tributary near Lowville, NY	Lat 43°45'43", long 75°31'13", Lewis County, at culvert on West Road, 2.0 mi (3.2 km) southwest of Lowville, and 2.2 mi (3.5 km) upstream from mouth.	1.68	1976-77	5-20-76 3-15-77	10.55 19.91	160 320
04258015	Widmeyer Creek near Beaver Falls, NY	Lat 43°54'02", long 75°26'29", Lewis County, at culvert on Swiss Road, 1.2 mi (1.9 km) northwest of Beaver Falls, and 1.5 mi (2.4 km) upstream from mouth.	2.43	1976-77	3-14-77	9.05	-
04258700	Deer River at Deer River, NY	Lat 43°55'49", long 75°35'31", Lewis County, on left bank 350 ft (107 m) upstream from bridge on State Highway 26 at Deer River, and 2 mi (3.2 km) upstream from mouth.	98.1	1957-69†, 1977	3-14-77	b8.15	-
04260575	Horse Creek tributary near Dexter, NY	Lat 44°04'47", long 76°03'28", Jefferson County, at bridge on Weaver Road, 0.3 mi (0.5 km) upstream from mouth, 1.0 mi (1.6 km) southwest of Reynolds Corners, and 5.1 mi (8.2 km) north of Dexter.	4.59	1976-77	3-13-77	11.26	-
Streams tributary to St. Lawrence River							
04263445	Birch Creek at Pierces Corners, NY	Lat 44°25'42", long 75°32'16", St. Lawrence County, at culvert on Old State Road at Pierces Corners, 4.4 mi (7.1 km) south- east of Pope Mills, and 11.1 mi (17.9 km) upstream from mouth.	1.56	1976-77	3- 8-77	.95	-

† Operated as a continuous-record gaging station.

b Ice jam.

Annual maximum discharge at crest-stage partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Streams tributary to St. Lawrence River--Continued							
04264200	Little Sucker Brook at Waddington, NY	Lat 44°50'28", long 75°11'28", St. Lawrence County, on left bank, on downstream side of bridge on State Highway 345, 0.6 mi (1.0 km) south of Waddington, and 3.9 mi (6.3 km) upstream from mouth.	19.9	1959-60†, 1961-69, 1971-77	3-13-77	4.53	-
04265100	Elm Creek near Hermon, NY	Lat 44°26'14", long 75°12'52", St. Lawrence County, on left bank, 100 ft (30 m) downstream from highway bridge, 2.3 mi (3.7 km) south of Hermon, and 6.8 mi (10.9 km) upstream from confluence with Tanner Creek.	33.0	1958-68†, 1969-77	3-13-77	8.77	1,150
04267700	Parkhurst Brook near Potsdam, NY	Lat 44°39'11", long 74°58'15", St. Lawrence County, at bridge on State Highways 56 and 72, 0.3 mi (0.5 km) upstream from mouth, and 1.2 mi (1.9 km) south-east of Campus of State University of New York, College of Education at Potsdam.	17.8	1958-63†, 1964-77	3-13-77	6.58	-
04267800	Trout Brook at Allen Corners, NY	Lat 44°47'33", long 75°01'59", St. Lawrence County, at abandoned bridge off State Highway 56A, at Allen Corners, and 2 mi (3 km) southwest of Norfolk.	56.2	1958-63†, 1964-76, 1967-74, 1976-77	3-13-77	11.46	2,510
04268200	Plum Brook at Grantville, NY	Lat 44°52'45", long 74°54'52", St. Lawrence County, at bridge on Grant Road, 0.7 mi (1.1 km) downstream from unnamed tributary, 1.1 mi (1.8 km) upstream from mouth, 1.4 mi (2.3 km) north of Grantville, and 2.3 mi (3.7 km) southwest of Massena city limits.	37.6	1958-63†, 1964, 1966-68, 1971-77	3-14-77	6.72	1,800
04268720	Hopkinton Brook at Hopkinton, NY	Lat 44°40'59", long 74°41'58", St. Lawrence County, at bridge on town road, 0.4 mi (0.6 km) upstream from unnamed tributary, 0.6 mi (1.0 km) south of Hopkinton, and 2.0 mi (3.2 km) upstream from mouth.	18.5	1976-77	5-20-76 3-14-77	2.57 3.55	- -
04268800	West Branch St. Regis River near Parishville, NY	Lat 44°35'52", long 74°44'19", St. Lawrence County, at highway bridge, 4.1 mi (6.6 km) downstream from Mud Pond Outlet, 4.2 mi (6.8 km) southeast of Parishville, and 4.8 mi (7.7 km) upstream from Niagara Mohawk Power Corp. dam.	172	1959-68†, 1969, 1971, 1974, 1976-77	3-31-77	4.80	2,680
04268900	Trout Brook at Stockholm Center, NY	Lat 44°46'16", long 74°48'47", St. Lawrence County, at bridge on town road, 0.7 mi (1.1 km) upstream from mouth, and 1.0 mi (1.6 km) northeast of Stockholm Center.	44.9	1959-60†, 1961-67, 1970-74, 1976-77	3-14-77	5.19	-
04269050	Allen Brook near Brasher Falls, NY	Lat 44°48'07", long 74°43'40", St. Lawrence County, at bridge on U.S. Highway 11, 0.8 mi (1.3 km) upstream from mouth, and 2.2 mi (3.5 km) east of Brasher Falls.	16.0	1961-66†, 1967-74, 1976-77	3-14-77	4.88	-
04269100	Lawrence Brook near Moira, NY	Lat 44°50'22", long 74°35'46", Franklin County, at highway bridge, 2.4 mi (3.9 km) northwest of Moira, and 5.4 mi (8.7 km) upstream from mouth.	28.0	1959-60†, 1961-77	3-14-77	6.22	1,060

† Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

487

Annual maximum discharge at crest-stage partial-record stations during water year 1977--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
Streams tributary to St. Lawrence River--Continued							
04269500	Deer River at Brasher Iron Works, NY	Lat 44°53'32", long 74°41'28", St. Lawrence County, 400 ft (122 m) upstream from high- way bridge, at Brasher Iron Works, 2.6 mi (4.2 km) south- east of Helena, 3.6 mi (5.8 km) upstream from mouth, and 3.8 mi (6.1 km) downstream from Lawrence Brook.	189	1913-16‡, 1959-68‡, 1969, 1971-74, 1976-77	3-13-77	7.13	4,160
04270100	West Branch Deer Creek at Fort Covington Center, NY	Lat 44°56'49", long 74°28'49", Franklin County, at highway bridge, 0.8 mi (1.3 km) west of Fort Covington Center, 2.1 mi (3.4 km) upstream from East Branch, and 3.1 mi (5.0 km) south Fort Covington.	31.4	1962-74, 1976-77	3-14-77	7.21	1,240
04270150	East Branch Deer Creek at Fort Covington Center, NY	Lat 44°56'52", long 74°27'51", Franklin County, at highway bridge, at Fort Covington Center, 1.9 mi (3.1 km) up- stream from West Branch, and 3.2 mi (5.1 km) south of Fort Covington.	23.1	1961-62‡, 1963-74, 1976-77	3-14-77	7.45	-
04270700	Trout River at Trout River, NY	Lat 44°59'23", long 74°17'56", Franklin County, at bridge on county highway, 0.2 mi (0.3 km) east of State Highway 30, at Trout River, 0.5 mi (0.8 km) upstream from international boundary, 1.5 mi (2.4 km) down- stream from unnamed tributary, and 3.3 mi (5.3 km) downstream from Little Trout River.	107	1960-66‡, 1967-74, 1976-77	3-14-77	7.35	5,400
04270800	English River near Mooers Forks, NY	Lat 44°58'32", long 73°39'49", Clinton County, at highway bridge, 1.6 mi (2.6 km) up- stream from unnamed tributary, 1.7 mi (2.7 km) northwest of Mooers Forks, and 2.5 mi (4.0 km) upstream from international boundary.	40.8	1960-68‡, 1969, 1971-74, 1976-77	3-14-77	4.31	1,120
04273700	Salmon River at South Plattsburgh, NY	Lat 44°38'24", long 73°29'43", Clinton County, on left bank, at bridge on Salmon River Road, at South Plattsburgh, 0.4 mi (0.6 km) west of State Highway 22, and 3.9 mi (6.3 km) upstream from mouth.	61.9	1960-68‡, 1969, 1971-77	3-13-77	5.88	1,770
04276200	Bouquet River at New Russia, NY	Lat 44°09'51", long 73°36'30", Essex County, at county highway bridge, 0.2 mi (0.3 km) east of State Highway 9, at New Russia.	37.6	1949, 1951, 1953, 1956-68, 1971-73, 1976-77	3-13-77	10.33	1,850

‡ Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1977

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Hudson River basin						
01331095 c/ Hudson River	Atlantic Ocean	Lat 42°56'16", long 73°39'04", Saratoga County, at bridge on State Highway 67, and 0.9 mi (1.5 km) upstream from Hoosic River, at Stillwater.		1932-33 1966-67	3-15-77	42,600
					3-31-77	17,000
					4-14-77	14,300
					4-22-77	10,100
					4-25-77	31,100
					4-26-77	34,900
					4-29-77	23,300
					5-16-77	6,030
					6- 6-77	3,380
					6-20-77	1,640
01334770 Cambridge Creek	Owl Kill	Lat 43°01'41", long 73°23'17", Washington County, at concrete box culvert on East Main Street at Cambridge, 0.6 mi (1.0 km) west of State Highway 22, and 0.3 mi (0.5 km) upstream from mouth.	7.44		3-14-77	p262
01335770 c/ Hudson River	Atlantic Ocean	Lat 42°47'19", long 73°40'28", Saratoga County, at bridge on U.S. Highway 4, at Waterford, and 2.6 mi (4.2 km) upstream from the Federal Locks at Troy.		1966-67 1973 1976	3-11-77	15,900
					3-13-77	22,400
					3-14-77	65,000
					3-15-77	p70,600
					3-17-77	39,000
					3-23-77	16,400
					3-30-77	28,600
					6- 6-77	2,250
01337700 Deans Creek	Oriskany Creek	Lat 43°06'55", long 75°24'14", Oneida County, at bridge on State Highway 233, at Westmoreland.		1968	9- 1-77	1.10
01349075 Brimstone Creek	Canajoharie Creek	Lat 42°48'00", long 74°37'01", Schoharie County, at bridge on State Highway 10, 0.1 mi (0.2 km) north of Sharon Springs, and 0.8 mi (1.3 km) north of U.S. Highway 20.	2.44	1976	9- 1-77	*.91
01350470 c/ Little Schoharie Creek	Schoharie Creek	Lat 42°33'40", long 74°13'56", Albany County, at bridge on County Highway 10 just north of Cook Hill Road, 5.7 mi (9.2 km) northwest of Rensselaerville.	3.52	1970 1973-75	9- 8-77	*.02
01359320 c/ Bozen Kill	Normans Kill	Lat 42°42'50", long 74°02'47", Albany County, at bridge on Westfall Road, 1.1 mi (1.8 km) northwest of Altamont.		1970 1973-75	9- 7-77	*.16
013595205 c/ Vly Creek	Normans Kill	Lat 42°38'56", long 73°56'09". Albany County, at bridge on State Highway 85A at Voorheesville.	12.3	1970 1973-75	9- 7-77	*1.8
01359588 Phillipin Kill	Vloman Kill	Lat 42°36'49", long 73°52'35", Albany County, at bridge on Orchard Street, 1.0 mi (1.6 km) northeast of Unionville.		1970 1973-75	9- 7-77	0
01359590 Phillipin Kill	Vloman Kill	Lat 42°35'24", long 73°50'49", Albany County, at bridge on State Highway 32, 0.7 mi (1.1 km) southwest of Houcks Corners, and 1.8 mi (2.9 km) northeast of Feura Bush.		1970 1973-75	9- 8-77	T
01359643 Moordener Kill	Hudson River	Lat 42°33'27", long 73°39'30", Rensselaer County, at bridge on State Highway 150, 1.3 mi (2.1 km) west of East Schodack.		1975	6-16-77	2.4
01359665 Moordener Kill	Hudson River	Lat 42°33'06", long 73°41'01", Rensselaer County, at bridge on State Highway 150, 0.3 mi (0.5 km) southwest of Schodack Center, and 0.5 mi (0.8 km) downstream from North Branch.		1975	6-16-77	11
					7-20-77	4.1

* Base flow.

p Peak flow.

T Trace.

c Water-quality data included in this report.

Discharge measurements made at miscellaneous sites during water year 1977--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Hudson River basin--Continued						
01359753 Moordener Kill	Hudson River	Lat 42°32'22", long 73°44'50", Rensselaer County, at private bridge, 0.1 mi (0.2 km) north- east of Castleton-on-Hudson, and 0.5 mi (0.8 km) upstream from mouth.		1975	6-16-77	13
01360100 Wyomanock Creek	Kinderhook Creek	Lat 42°28'52", long 73°22'44", Columbia County, at bridge on Old Post Road, in Lebanon Springs.	9.53		6-30-76	p1,850
01370650 Wallkill River	Rondout Creek	Lat 41°30'09", long 74°15'50", Orange County, at bridge on State Highway 211, 2 mi (3.2 km) southwest of Montgomery, and 2.2 mi (3.5 km) upstream from Muddy Kill.		1972	7-26-77	62
01370815 Wallkill River	Rondout Creek	Lat 41°36'22", long 74°11'12", Ulster County, at bridge on Hoagerburgh Road, in Wallkill.		1972	7-26-77 7-27-77	61 62
01372000 Wallkill River	Rondout Creek	Lat 41°44'48", long 74°05'29", Ulster County, at bridge on State Highway 299, just west of New Paltz.	793	1900 1905 1939 1968 1972	7-28-77	71
†01374130 Canopus Creek	Annsville Creek through Sprout Brook	Lat 41°22'43", long 73°52'23", Putnam County, at bridge on Hortun Hollow Road, 0.4 mi (0.6 km) downstream from West Branch, and 0.8 mi (1.3 km) west of Oscawana Corners.	8.30	1975-76	3-23-77	168
01374290 Peekskill Hollow Creek	Hudson River	Lat 41°19'45", long 73°53'02", Westchester County, 300 ft (91 m) downstream from end of town highway (Sherwood Avenue), 0.3 mi (0.5 km) downstream from Putnam- Westchester County line, and 1.9 mi (3.0 km) north- east of Peekskill.	42.0	1976	11-16-76	*45
01374780 Titicus River	Croton River	Lat 41°19'32", long 73°35'27", Westchester County, at bridge on State Highway 124, 0.4 mi (0.6 km) southeast of Salem Center.	12.4	1974 1976	11-16-76	11
01374875 Waccabuc River	Cross River	Lat 41°16'40", long 73°34'37", Westchester County, 100 ft (30 m) west of Bouton Road, 0.2 mi (0.3 km) upstream from State Highway 35, and 1.3 mi (2.1 km) northwest of South Salem.			11-16-76	9.7
01374880 Waccabuc River	Cross River	Lat 41°15'29", long 73°33'59", Westchester County, on Ward Pound Ridge Reservation, at mouth, 100 ft (30 m) downstream from highway bridge on Boutonville Road, 300 ft (91 m) west of State Highway 124, and 0.1 mi (0.2 km) north of Boutonville.	10.6	1976	11-16-76	14
01374890 Cross River	Croton River	Lat 41°15'37", long 73°36'09", Westchester County, at bridge in Ward Pound Ridge Reservation, 0.7 mi (1.1 km) upstream from Cross River Reservoir, and 0.7 mi (1.1 km) east of Cross River.	17.1	1974 1976	11-16-76	21
01374908 Stone Hill River	Muscoot Reservoir	Lat 41°12'57", long 73°37'57", Westchester County, at bridge on State Highway 121 (Old Post Road), 1.0 mi (1.6 km) northeast of State Highway 22 (Cantitoe Street), and 1.0 mi (1.6 km) northeast of Bedford.	7.55	1976	11-16-76	7.6

* Base flow.

† Also a crest-stage partial-record station.

p Peak flow.

Discharge measurements made at miscellaneous sites during water year 1977--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Hudson River basin--Continued						
01374919 Stone Hill River	Muscoot Reservoir	Lat 41°15'06", long 73°40'35", Westchester County, at bridge on Saw Mill River Parkway, 500 ft (152 m) downstream from bridge on Interstate 684, 0.3 mi (0.5 km) upstream from Muscoot Reservoir, and 0.7 mi (1.1 km) southeast of Katonah.	19.6	1976	11-16-76	18
01374930 Muscoot River	Croton River	Lat 41°20'17", long 73°46'09", Westchester County, at bridge on U.S. Highway 6, 0.4 mi (0.6 km) downstream from Putnam-Westchester County line, and 0.7 mi (1.1 km) southwest of Baldwin Place.	13.5	1954 1976	11-16-76	*22
01374983 Kisco River	New Croton Reservoir	Lat 41°11'40", long 73°44'00", Westchester County, at bridge 0.2 mi (0.3 km) upstream from sewage treatment plant in Mount Kisco.	6.06	1974 1976	11-16-76	*7.2
01374987 Kisco River	New Croton Reservoir	Lat 41°13'43", long 73°44'39", Westchester County, at bridge on road off Pines Bench Road, 0.3 mi (0.5 km) from mouth at New Croton Reservoir, and 0.8 mi (1.3 km) northwest of Mount Kisco.	17.6	1974 1976	11-16-76	17
01374993 Hunter Brook	New Croton Reservoir	Lat 41°16'48", long 73°50'03", Westchester County, at bridge on White Hill Road, 0.1 mi (0.2 km) downstream from Mill Pond, and 1.7 mi (2.7 km) south- west of Yorktown.	5.82	1976	11-16-76	*6.7
Passaic River basin						
01387135 Ramapo River	Pequannock River	Lat 41°16'32", long 74°09'12", Orange County, at bridge on Arden Road at Arden, and 1.2 mi (1.9 km) upstream from Stahahe Brook.		1971	8-15-77	*1.5
01387400 Ramapo River	Pequannock River	Lat 41°08'27", long 74°10'08", Rockland County, at bridge at International Fremont Machine Co., at Ramapo.	87.3	1936 1951 1956-57	8-30-77	*6.6
Delaware River basin						
01417300 Baxter Brook	East Branch Delaware River	Lat 42°01'29", long 75°06'52", Delaware County, at bridge on State Highway 30, 0.25 mi (0.4 km) upstream from mouth, at Harvard.	14.2	1958-64 1966-68	9-27-77	206
Susquehanna River basin						
01496302 Susquehanna River	Atlantic Ocean	Lat 42°41'45", long 74°55'37", Otsego County, at bridge on county highway (Susquehanna Avenue) in South Cooperstown.	81.2	1949 1972	7-22-77	26
01496451 Oaks Creek	Susquehanna River	Lat 42°46'52", long 75°01'04", Otsego County, at bridge on County Highway 22, 0.5 mi (0.8 km) east of Schuyler Lake, and 1 mi (1.6 km) downstream from Canadarago Lake.	65	1963 1968-76	4-12-77 8- 4-77	335 *2.1
01496510 Susquehanna River	Atlantic Ocean	Lat 42°39'41", long 74°57'01", Otsego County, at county road bridge just below mouth of Oaks Creek at Hyde Park.		1972	6-22-77	64
01497310 Susquehanna River	Atlantic Ocean	Lat 42°31'43", long 74°58'05", Otsego County, at bridge on Town Highway (between State Highway 28 and County Highway 35) 250 ft (76 m) east of State Highway 28, and 750 ft (229 m) upstream from Goodyear Lake at Portlandville.		1972-73	6-23-77	77

* Base flow.

Discharge measurements made at miscellaneous sites during water year 1977--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Susquehanna River basin--Continued						
01497500 Susquehanna River	Atlantic Ocean	Lat 42°29'59", long 74°58'51", Otsego County, on right bank 0.2 mi (0.3 km) downstream from powerplant of New York State Electric and Gas Corp., and one half mi (0.8 km) north of Colliersville.	349	1969 1972	6-20-77	150
01498615 Susquehanna River	Atlantic Ocean	Lat 42°26'44", long 75°03'50", Otsego County, at bridge on State Highways 23 and 28 (Main Street) in Oneonta.	674	1973	6-20-77	232
01502701 Susquehanna River	Atlantic Ocean	Lat 42°13'38", long 75°31'27", Chenango County, at bridge on State Highway 41 at Afton.		1972	6- 6-77	843
01502717 Susquehanna River	Atlantic Ocean	Lat 42°07'24", long 75°38'51", Broome County, at bridge on Mountain Road, 0.4 mi (0.6 km) south of Ouaquaga.		1972	6- 9-77	791
01503495 Susquehanna River	Atlantic Ocean	Lat 42°06'07", long 75°53'50", Broome County, at bridge on Tompkins Street, State Highway 7, at Binghamton.		1967-68 1972	6- 7-77	977
01503953 Chenango River	Susquehanna River	Lat 42°53'17", long 75°38'39", Madison County, at sewer outlet head wall, 0.1 mi (0.2 km) downstream from bridge on County Highway 105, Morrisville-Eaton Road between Morrisville and East Easton, 0.8 mi (1.3 km) up- stream from Electric Light Stream, and 0.2 mi (0.3 km) south of Morrisville Boundary.	11.8		3- 8-77 4-13-77 5-23-77 6-27-77	44 34 9.7 2.9
†01503960 Electric Light Stream	Chenango River	Lat 42°52'51", long 75°38'37", Madison County, at bridge on road between Eaton Road and Morrisville, in Eagleville, 0.4 mi (0.6 km) upstream from mouth, and 1.3 mi (2.1 km) south of Morrisville.	7.21	1975	4-13-77	18
†01507000 Chenango River	Susquehanna River	Lat 42°19'28", long 75°46'18", Chenango County, on left bank 1,700 ft (520 m) downstream from bridge on State Highway 206 at Greene, and 0.6 mi (1.0 km) downstream from Birdsall Creek.	593	1937-70† 1971-76	3-21-77	2,090
01508913 Blue Creek	Dry Creek	Lat 42°36'15", long 76°12'56", Cortland County, at bridge on Kinney Gulf Road, 0.2 mi (0.3 km) upstream from mouth, 0.7 mi (1.1 km) northwest of State Highway 281, and 0.8 mi (1.3 km) west of Cortland.	4.30	1973-74	12- 1-75	5.2
01510300 Brakel Creek	Otselic River	Lat 42°31'49", long 75°53'58", Cortland County, at bridge on county highway at Lower Cincinnatus, and 0.2 mi (0.3 km) upstream from mouth.		1964	7-29-77 8-31-77 9- 8-77	*1.39 *12 *3.5
†01511500 Tioughnioga River	Chenango River	Lat 42°17'55", long 75°54'30", Broome County, on right bank at Itaska, 3.8 mi (6.1 km) downstream from Otselic River and village of Whitney Point, and 6 mi (10 km) upstream from mouth.	730	1967-76	3-21-77 6- 1-77	5,490 313

* Base flow.

† Also a crest-stage partial-record station.

‡ Operated as a continuous-record gaging station.

Discharge measurements made at miscellaneous sites during water year 1977--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Susquehanna River basin--Continued						
+01513500 Susquehanna River	Susquehanna River	Lat 42°05'27", long 76°03'23", Broome County, on left bank 400 ft (120 m) downstream from highway bridge at Vestal, and 800 ft (240 m) upstream from Choconut Creek.	3,941	1967-76	3- 7-77	24,500
01513718 East Branch Nanticoke Creek	Nanticoke Creek	Lat 42°16'58", long 76°00'15", Broome County, at bridge on State Highway 26, 1.8 mi (2.9 km) north of Glen Aubrey.	10.5		7-11-76	p4,240
01513925 West Branch Owego Creek	Owego Creek	Lat 42°24'06", long 76°17'46", Tioga-Tompkins Counties, at culvert on Canaan Road, 600 ft (183 m) northwest of inter- section with Speed Road, and 1.6 mi (2.6 km) of Caroline.	4.31		7-11-76	p3,370
01524558 Canisteo River	Chemung River	Lat 42°16'35", long 77°36'06", Steuben County, at bridge on Depot Street, 1.1 mi (1.8 km) upstream from mouth of Bennetts Creek at Canisteo.			8-24-76	*42
01525200 Canisteo River	Chemung River	Lat 42°15'09", long 77°31'04", Steuben County, at bridge at Adrian, 2.2 mi (3.5 km) down- stream from mouth of Baker Creek.			8-24-76	*57
01525530 Canisteo River	Tioga River	Lat 42°10'42", long 77°21'50", Steuben County, at bridge on County Road 110, and 0.2 mi (0.3 km) southwest of Cameron Mills.		1973	8-24-76	61
01525630 Canisteo River	Chemung River	Lat 42°06'58", long 77°17'59", Steuben County, at bridge at Derby Switch, 0.4 mi (0.6 km) upstream from Canatoga Creek, and 1.6 mi (2.6 km) southeast of Rathbone.			8-24-76	*64
01525650 Canisteo River	Tioga River	Lat 42°06'25", long 77°14'03", Steuben County, at bridge on State Highway 17 in Addison, 1,200 ft (366 m) upstream from Tuscarora Creek, and 1.5 mi (2.4 km) downstream from Catharine Creek.		1970-73	8-24-76	69.2
01528350 Cohocton River	Chemung River	Lat 42°18'44", long 77°16'41", Steuben County, at Morgan Bridge, 0.3 mi (0.5 km) up- stream from Stocking Creek, and 1.5 mi (2.4 km) southeast of Bath.	329	1973-74 1976	8-26-76	100
01530225 Whiskey Creek	Chemung River	Lat 42°05'58", long 77°02'28", Steuben County, at bridge on Whiskey Creek Road, 100 ft (30 m) east of State Highway 225, and 1.3 mi (2.1 km) south of South Corning boundary line.	12.1		6-19-76	p6,100
01530230 Bailey Creek	Chemung River	Lat 42°06'34", long 77°03'40", Steuben County, 0.7 mi (1.1 km) upstream from box culvert on Bailey Creek Road, 1.3 mi (2.1 km) southwest of the intersection of State Highway 225 and Bailey Creek Road at South Corning.	2.10		6-19-76	p1,000
01530285 Singsing Creek	Chemung River	Lat 42°10'43", long 76°53'15", Chemung County, at powerline 0.1 mi (0.1 km) upstream from bridge on Singsing Road, 0.8 mi (1.3 km) north of county airport, and 3.3 mi (5.3 km) northeast of Big Flats.	14.7	1972	6-19-76	p4,700

* Base flow.

† Also a crest-stage partial-record station.

p Peak flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

493

Discharge measurements made at miscellaneous sites during water year 1977--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Susquehanna River basin--Continued						
01530301 Cuthrie Run	Singsing Creek	Lat 42°10'43", long 76°55'32", Chemung County, at culvert on Breed Hollow Road, 0.9 mi (1.4 km) north of intersection Eachers Hollow Road and Breed Hollow Road, 2.3 mi (3.7 km) north of State Highway 17, and 3.0 mi (4.8 km) north of Big Flats.	5.39		6-19-76	p800
Allegheny River basin						
03014400 Chadakoin River	Cassadaga Creek	Lat 42°05'37", long 79°14'32", Chautauqua County, on left bank, 600 ft (183 m) downstream from Warner Dam, 620 ft (189 m) down- stream from Washington Street, 800 ft (244 m) upstream from South Main Street in Jamestown, and 4.1 mi (6.6 km) upstream from Moon Brook.			2-22-77 3-29-77 5-11-77 6-15-77 8-12-77 9-28-77	81 893 623 54 80 p1,460
Streams tributary to Niagara River						
04216418 Tonawanda Creek	Niagara River	Lat 42°51'50", long 78°17'02", Wyoming County, at bridge on State Highway 238 (Main Street) at Attica, and 0.4 mi (0.6 km) upstream from Tannery Brook.	77.1		9-21-77	712
04216430 Tonawanda Creek	Niagara River	Lat 42°54'13", long 78°15'00", Genesee County, at bridge on U.S. Highway 20 at Alexander.	98.2		9-20-77 9-21-77 9-26-77	1,090 870 1,400
04216825 Little Tonawanda Creek	Tonawanda Creek	Lat 42°55'46", long 78°11'35", Genesee County, at bridge on County Highway 1 (Town Line Road), and 4.0 mi (6.4 km) upstream from mouth.	34.8		9-21-77	270
04218550 Ellicott Creek	Tonawanda Creek	Lat 43°01'29", long 78°49'21", Erie County, at bridge on U.S. Highway 62 (Niagara Falls Boule- vard), 600 ft (183 m) upstream from flood diversion channel to Tonawanda Creek, 1.4 mi (2.3 km) north of interchange on Inter- state Highway 290, 1.5 mi (2.4 km) east of boundary line of city of Tonawanda, and 3.4 mi (5.5 km) upstream from mouth.	94.4		9-21-77 9-26-77	1,410 2,760
Streams tributary to Lake Ontario						
04219925 Oak Orchard Creek	Lake Ontario	Lat 43°06'46", long 78°07'39", Genesee County, at bridge on Strouts Road, at intersection with Watson Road, and 3.3 mi (5.3 km) northwest of Elba village line.	7.49	1974-76	3-10-77 8-26-77	53 5.6
†04220045 Oak Orchard Creek	Lake Ontario	Lat 43°10'25", long 78°23'13", Orleans County, on left bank, at bridge on Harrison Road, 0.2 mi (0.3 km) east of State Highway 63, and 1.1 mi (1.8 km) south of Shelby.		1976	3-17-77 8-25-77	826 82
04221725 ^{c/} Genesee River	Lake Ontario	Lat 42°17'46", long 78°04'33", Allegany County, at Transit Bridge, at intersection of State Highways 19 and 408, 0.3 mi (0.5 km) downstream from Angelica Creek, and 2.3 mi (3.7 km) west of Angelica.	577	1975-76	3-15-77 3-15-77 4-18-77 4-18-77 9-19-77	2,470 2,440 *358 *395 4,590

* Base flow.

† Also a crest-stage partial-record station.

c Water-quality data included in this report.

p Peak flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1977--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Streams tributary to Lake Ontario--Continued						
04221960 Rush Creek	Caneadea Creek	Lat 42°21'06", long 78°13'03", Allegany County, at bridge on town road, 0.6 mi (1.0 km) north- east of McGrawville.	8.80	1955	6-28-76	2.9
04222300 c/ Genesee River	Lake Ontario	Lat 42°26'14", long 78°07'48", Allegany County, at bridge on town highway between State Highway 19 and Ballard Road, 1.4 mi (2.3 km) northeast of Houghton.		1970-71	6-20-77 7- 7-77 7- 8-77 7-11-77 7-13-77 7-26-77 8- 9-77 8-15-77	220 5,600 8,800 1,170 1,860 622 1,590 1,220
04223970 Silver Lake Outlet	Silver Lake Outlet	Lat 42°41'54", long 77°56'28", Livingston County, at culvert on Park Road in Letchworth State Park, 100 ft (30 m) upstream from mouth, 2.1 mi (3.4 km) northwest of Ridge, and 2.8 mi (4.5 km) south- east of Perry boundary line.	.92		6-29-77	.64
04224807 Stony Brook Tributary	Stony Brook	Lat 42°28'17", long 77°40'21", Steuben County, at culvert on Willey Road, 0.6 mi (1.0 km) upstream from the mouth, and 0.9 mi (1.4 km) west of South Dansville.	3.29		5-24-77	p520
04224840 Stony Brook Tributary No. 2	Stony Brook	Lat 42°29'43", long 77°41'28", Steuben County, 150 ft (46 m) downstream from Oak Hill Road, 350 ft (107 m) north of Sick Road, 1.0 mi (1.6 km) upstream from mouth, and 2.6 mi (4.2 km) northwest of South Dansville.	1.27		5-25-77	p1,170
04224930 c/ Mill Creek	Canaseraga Creek	Lat 42°32'16", long 77°37'35", Steuben County, at culvert on County Highway 90 at Perkinsville, and 300 ft (91 m) southeast of Delaware Lackawanna and Western Railroad.			3-24-77 9-19-77 9-25-77 9-29-77	28 64 191 51
04224940 c/ Mill Creek	Canaseraga Creek	Lat 42°32'16", long 77°40'23", Livingston County, on right bank 250 ft (76 m) upstream from bridge, 0.9 mi (1.4 km) southeast of Dansville, and 2.8 mi (4.5 km) upstream from mouth.	21.99		10-21-76 10-22-77 11-15-76 2-14-77 3-24-77 4-26-77 5-26-77 7-20-77 8-11-77 8-24-77	149 88 28 20 29 53 *22 19 *13 46
†04225500 c/ Canaseraga Creek	Genesee River	Lat 42°39'40", long 77°46'07", Livingston County, at bridge on State Highway 258, 0.1 mi (0.2 km) west of Groveland.	181	1974-76	10- 7-76 11-18-76 5- 3-77 5-24-77 7-19-77	*47 116 209 *110 87
04225670 c/ Bradner Creek	Canaseraga Creek	Lat 42°41'03", long 77°47'55", Livingston County, at bridge on Pioneer Road, 300 ft (90 m) upstream from the mouth, and 1.7 mi (2.7 km) east of Sonyea.	16.52	1974-76	10- 7-76 11-16-76 12- 7-76 5-24-77	*353 22 24 *12
04230023 Honeoye Creek Tributary	Honeoye Creek	Lat 42°55'55", long 77°40'35", Livingston County, at bridge on Gilbert-Mill Road at North Avon.			4-12-76 4-14-76	*3.6 *3.2
04230024 Honeoye Creek	Honeoye Creek	Lat 42°56'01", long 77°40'19", Livingston County, in farm field 0.2 mi (0.3 km) downstream from Gilbert-Mill Road, 30 ft (9 m) upstream from small tributary, and 0.6 mi (1.0 km) upstream from Livingston-Monroe county line, at North Avon.			4-14-76	*2.5

* Base flow.

† Also a crest-stage partial-record station.

c Water-quality data included in this report.

p Peak flow.

Discharge measurements made at miscellaneous sites during water year 1977--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Streams tributary to Lake Ontario--Continued						
04232082 Wolcott Creek	Lake Ontario	Lat 43°11'23", long 76°48'11", Wayne County, at bridge on Smith Road, 0.8 mi (1.3 km) northeast of West Butler, and 2.2 mi (3.5 km) south of Wolcott.	12.1	1955 1963 1971-72	7-28-77 9- 9-77	*.78 *1.4
04232083 Wolcott Creek	Lake Ontario	Lat 43°13'16", long 76°48'43", Wayne County, at bridge on U.S. Highway 104, just down- stream from dam, in Wolcott.	about 13	1963 1971	7-28-77 9- 9-77	*.09 *1.2
04232084 Wolcott Creek	Lake Ontario	Lat 43°14'26", long 76°48'57", Wayne County, at bridge on Furnace Road, 0.3 mi (0.5 km) east of Furnace Village.		1963 1968	7-28-77 9- 9-77	*.48 *1.5
042320841 Wolcott Creek Tributary No. 2	Wolcott Creek	Lat 43°15'13", long 76°48'42", Wayne County, at bridge on East Port Bay Road, 0.3 mi (0.5 km) upstream from mouth, and 1.0 mi (1.6 km) northeast of Furnace Village.		1971	9- 9-77	*.21
04232169 Catharine Creek Tributary No. 2	Catharine Creek	Lat 42°13'46", long 76°51'10", Chemung County, at culvert on Pine Valley Road at intersection with Dunn Road, 0.8 mi (1.3 km) upstream from mouth, and 0.4 mi (0.6 km) west of Pine Valley.	1.31		6-19-76	p1,050
04232184 Catharine Creek	Seneca Lake	Lat 42°16'70", long 76°50'14", Chemung County, at bridge on Mill Street, 250 ft (76 m) west of State Highway 14 at Millport.	28.61		6-19-76	p1,360
†04232460 Sugar Creek	Keuka Lake	Lat 42°37'23", long 77°09'30", Yates County, at bridge on Sid White Road, 0.4 mi (0.6 km) east of Guyanoga, and 2.3 mi (3.7 km) upstream from mouth.	28.9	1955 1964-66 1970-71	5-10-77	56
04233260 Six Mile Creek	Cayuga Inlet	Lat 42°26'08", long 76°19'16", Tompkins County, at bridge on Irish Settlement Road, 3.1 mi (5.0 km) northeast of Slaterville Springs, and 3.3 mi (5.3 km) south- west of Dryden.	3.89		7-11-76	p1,570
04233686 Dryden Lake Outlet	Virgil Creek	Lat 42°29'12", long 76°18'11", Tompkins County, at bridge on Mill Street, 0.2 mi (0.3 km) upstream from mouth at Dryden.	9.70		9-26-75	p680
04234380 West River	Naples Creek	Lat 42°46'16", long 77°12'36", Ontario County, at bridge on Blodgett Road, 0.9 mi (1.4 km) northeast of Rushville.		1965	7- 5-77 9- 9-77	*.11 *.06
04234396 West River	Canandaigua Lake	Lat 42°44'20", long 77°15'26", Yates County, at bridge on town highway in Valley View, and 2.5 mi (4.0 km) north of Middlesex.		1973	7- 5-77 9- 9-77	*.12 *.15
04240900 West Branch Fish Creek	Fish Creek	Lat 43°21'28", long 75°46'36", Oneida County, at bridge on State Highway 13, 1.2 mi (1.9 km) northwest of Camden.		1967	7-21-77 9-11-77	*96 *52
04247060 Oswego River	Lake Ontario	Lat 43°13'38", long 76°18'03", Oswego County, at bridge on Lamson Road, at Phoenix.		1967	8-22-77	1,380
04249055 North Branch Little Salmon River	Little Salmon River	Lat 42°25'03", long 76°08'42", Oswego County, at bridge on State Highway 69, at Red Mill, and 0.5 mi (0.8 km) northwest of Parish.		1968	7-21-77 8-31-77	*25 41

* Base flow.

† Also a crest-stage partial-record station.

p Peak flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1977--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Streams tributary to Lake Ontario--Continued						
04254500 Moose River	Black River	Lat 43°36'40", long 75°06'35", Herkimer County, 0.5 mi (0.8 km) west of McKeever, and 2 mi (3.2 km) downstream from confluence of Middle and South Branches.	365	1900-70†	4-15-77	4,180
Streams tributary to St. Lawrence River						
04276760 Mill Brook	Lake Champlain	Lat 44°03'40", long 73°30'30", Essex County, at bridge on county road at Moriah Center.	17.5	1966	8-15-77 9- 1-77	4.7 3.8
04280500 Mattawee River	Lake Champlain	Lat 43°31'30", long 73°23'04", Washington County, at bridge on West Granville Road, 1.9 mi (3.1 km) southeast of U.S. Route 4, 0.4 mi (0.6 km) south of Grays Corner, 1.4 mi (2.3 km) south of Whitehall boundary, and 1.8 mi (2.9 km) upstream of confluence with Champlain Canal.			3-14-77	p16,700
04280754 Champlain (Barge) Canal	Lake Champlain	Lat 43°27'24", long 73°26'29", Washington County, at bridge on State Highway 22, and 150 ft (46 m) east of U.S. Highway 4, at Comstock.			6-10-74	258

† Operated as a continuous-record gaging station.

p Peak flow.

Water-quality partial-record stations are particular sites where chemical-quality, biological and/or sediment data are collected systematically over a period of years for use in hydrologic analyses. The data are collected usually less than quarterly.

STREAMS TRIBUTARY TO LAKE ONTARIO

04221725 - GENESEE RIVER AT TRANSIT BRIDGE NEAR ANGELICA NY (LAT 42 17 46 LONG 078 04 36)

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT CHARGE (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT CHARGE (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT , 1976						JUN , 1977					
07...	1510	104	24	6.7	--	14...	1150	143	11	4.2	--
09...	1445	5890	1690	26900	85	22...	1115	152	7	2.9	--
09...	1535	6780	1640	30000	85	JUL					
09...	1820	10100	1820	49600	81	08...	1020	8440	1080	24600	86
13...	1145	364	22	22	--	08...	1600	7860	804	17100	85
NOV						09...	1110	2890	241	1880	91
16...	1140	166	13	5.8	--	11...	1300	1200	79	256	--
JAN , 1977						12...	1700	1750	153	723	88
18...	1545	148	1	.40	--	AUG					
MAR						15...	1245	1040	52	146	79
15...	1110	2420	97	634	--	SEP					
15...	1150	2440	112	738	75	19...	1530	4320	324	3780	86
APR						20...	1500	7640	727	15000	83
13...	0830	608	6	9.8	--	21...	1640	2960	168	1340	78
18...	1720	388	9	9.4	--	22...	1500	2100	101	573	86
19...	1145	360	14	14	--	25...	1800	8340	904	20400	81
24...	1030	4170	206	2320	75	26...	1020	5200	1390	19500	--
24...	1355	3540	154	1470	75	26...	1330	5600	547	8270	--
25...	1330	1560	34	143	71	27...	1047	3350	262	2370	79
29...	1210	578	9	14	--	27...	1530	3010	211	1720	84
MAY						28...	1100	2190	140	828	88
12...	1525	572	22	34	--						
17...	1115	350	4	3.9	--						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT CHARGE (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
OCT								
09...	1535	6780	1640	30000	18	27	43	57
JUL								
08...	1020	8440	1080	24600	27	37	46	58
08...	1600	7860	804	17100	--	--	--	--
SEP								
19...	1530	4320	324	3780	--	--	--	--
20...	1500	7640	727	15000	--	29	41	56
21...	1640	2960	168	1340	--	--	--	--
22...	1500	2100	101	573	--	--	--	--
25...	1800	8340	904	20400	--	28	39	51
27...	1047	3350	262	2370	--	--	--	--
27...	1530	3010	211	1720	--	--	--	--
28...	1100	2190	140	828	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT							
09...	72	85	95	99	100	--	--
JUL							
08...	70	86	95	98	100	--	--
08...	--	85	96	99	100	--	--
SEP							
19...	--	86	96	98	100	--	--
20...	71	83	96	100	--	--	--
21...	--	78	89	95	100	--	--
22...	--	86	93	97	100	--	--
25...	66	81	94	99	100	--	--
27...	--	79	89	92	96	99	100
27...	--	84	93	97	100	--	--
28...	--	88	96	100	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

STREAMS TRIBUTARY TO LAKE ONTARIO

04222300 - GENESEE RIVER AT HOUGHTON NY (LAT 42 26 14 LONG 078 07 48)

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR , 1977						JUL , 1977					
13...	1000	830	10	22	--	26...	1300	622	83	139	99
25...	1230	3140	53	534	--	AUG					
29...	1345	728	13	26	--	15...	1550	1090	59	174	98
MAY						SEP					
06...	0830	2250	61	371	--	19...	1730	6360	645	11100	86
JUN						20...	1645	10500	1180	33500	90
20...	1420	210	19	11	--	21...	1820	4660	264	3320	92
JUL						22...	1330	3380	155	1420	94
07...	1430	5670	638	9770	94	25...	1500	13800	1850	68900	86
07...	1745	5460	629	9270	94	25...	1905	10200	1390	38300	85
08...	1235	8420	1490	33900	90	25...	0912	7270	643	12600	90
08...	1760	7900	1320	28200	82	27...	1141	5840	315	4970	91
09...	1015	3780	331	3380	97	27...	1450	2940	278	2210	91
11...	1710	1000	61	165	--	28...	1225	1680	199	903	84
13...	1150	2070	277	1550	--						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
JUL								
08...	1235	8420	1490	33900	29	40	51	64
08...	1700	7900	1320	28200	--	--	--	--
SEP								
19...	1730	6360	645	11100	--	--	--	--
20...	1645	10500	1180	33500	--	36	49	65
21...	1820	4660	264	3320	--	--	--	--
22...	1330	3380	155	1420	--	--	--	--
25...	1500	13800	1850	68900	--	34	48	61
25...	1905	10200	1390	38300	--	--	--	--
26...	0912	7270	643	12600	--	--	--	--
27...	1141	5840	315	4970	--	--	--	--
27...	1450	2940	278	2210	--	--	--	--
28...	1225	1680	199	903	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
JUL							
08...	78	90	97	99	100	--	--
08...	--	82	89	92	96	99	100
SEP							
19...	--	86	98	99	100	--	--
20...	79	90	97	100	--	--	--
21...	--	92	98	100	--	--	--
22...	--	94	98	99	100	--	--
25...	73	86	94	98	99	100	--
25...	--	85	93	96	98	100	--
26...	--	90	98	99	100	--	--
27...	--	91	97	99	100	--	--
27...	--	91	96	98	99	100	--
28...	--	84	94	97	99	100	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04224740 - SUGAR CREEK NEAR CANASERAGA NY (LAT 42 30 07 LONG 077 44 43)

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT. 1976						APR. 1977					
15...	1030	10	7	.19	--	24...	1510	109	27	7.9	--
NOV						25...	1200	81	13	2.8	--
09...	1530	14	2	.08	--	27...	1130	33	17	1.5	--
15...	1130	13	3	.11	--	MAY					
27...	1315	17	2	.09	--	06...	1055	38	8	.82	--
DEC						16...	1040	7.0	1	.02	--
07...	1315	17	4	.18	--	JUN					
15...	1020	9.0	4	.10	--	10...	1225	3.4	2	.02	--
JAN						13...	1100	3.0	4	.03	--
13...	1020	4.7	2	.03	--	25...	1145	17	48	2.2	--
FEB						JUL					
14...	1545	10	5	.13	--	07...	1730	7.8	16	.34	--
MAR						08...	1730	28	19	1.4	95
16...	1115	6.3	3	.05	--	09...	1550	6.3	8	.14	--
25...	1045	13	2	.07	--	14...	1230	9.6	6	.16	--
29...	1000	106	23	6.6	--	SEP					
29...	1445	112	25	7.6	--	01...	0940	7.7	10	.21	--
30...	1210	69	7	1.3	--						
APR											
23...	1700	266	425	305	90						
24...	1230	98	37	9.8	--						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
APR 23...	1700	266	425	305	32	32	41

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
APR 23...	54	71	90	96	98	100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

STREAMS TRIBUTARY TO LAKE ONTARIO

04224848 - STONY BROOK AT STONY BROOK STATE PARK NY (LAT 42 31 20 LONG 077 41 22)

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT CHARGE (MG/L)	SUS- PEN- DED SEDI- MENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT CHARGE (MG/L)	SUS- PEN- DED SEDI- MENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
APR , 1976						APR , 1977					
† 22...	1125	16	4	.17	--	05...	1315	45	3	.37	--
						18...	1315	17	0	.00	--
						23...	2030	241	532	346	80
						24...	1430	105	55	16	--
						25...	1515	69	54	10	85
						MAY					
						05...	1130	91	62	15	--
						05...	1445	75	37	7.5	--
						16...	1145	15	4	.16	--
						JUN					
						13...	1200	9.5	5	.15	--
						25...	1605	28	121	9.1	--
						JUL					
						06...	2145	112	2140	647	94
						07...	1615	20	784	42	62
						07...	2130	184	5480	2720	75
						08...	0025	918	6190	15300	85
						08...	1445	45	269	33	95
						08...	1515	43	305	35	97
						14...	1435	15	2540	110	95
						SEP					
						02...	1315	114	1340	412	97
						16...	1740	132	245	87	90
						19...	1440	83	49	11	90
						19...	1840	74	40	8.0	88
						20...	1220	249	2250	1510	--
						21...	1030	107	89	26	92
						22...	0930	70	42	7.9	--
						22...	1400	65	48	8.6	92
						23...	0950	49	19	2.5	--
						25...	1620	160	278	120	87
						25...	1930	130	201	71	85
						26...	0900	183	1530	756	77
						26...	1640	104	114	32	89
						27...	0835	64	52	9.0	89

† Revision; supersedes values published in 1976 report.

STREAMS TRIBUTARY TO LAKE ONTARIO

04224848 - STONY BROOK AT STONY BROOK STATE PARK NY (LAT 42 31 20 LONG 077 41 22)--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE DI- MENT CHARGE (MG/L)	SUS- PENDE MENT DIS- CHARGE (T/DAY)	SUS- SED- FALL DIAM. % FINER THAN .002 MM	SUS- SED- FALL DIAM. % FINER THAN .004 MM	SUS- SED- FALL DIAM. % FINER THAN .008 MM	SUS- SED- FALL DIAM. % FINER THAN .016 MM
OCT								
09...	1615	695	826	1550	12	21	31	44
JUL								
06...	2145	112	2140	647	--	--	--	--
07...	2130	184	5480	2720	--	--	--	--
08...	0025	918	6190	15300	--	--	--	--
14...	1435	16	2540	110	--	--	--	--
SEP								
02...	1315	114	1340	412	--	--	--	--
16...	1740	132	245	87	--	--	--	--
21...	1030	107	89	26	--	--	--	--
25...	1620	160	278	120	--	--	--	--
25...	1930	130	201	71	--	--	--	--
26...	0900	183	1530	756	--	--	--	--
26...	1640	104	114	32	--	--	--	--
27...	0835	64	52	9.0	--	--	--	--

DATE	SUS- SED- FALL DIAM. % FINER THAN .031 MM	SUS- SED- SIEVE DIAM. % FINER THAN .062 MM	SUS- SED- SIEVE DIAM. % FINER THAN .125 MM	SUS- SED- SIEVE DIAM. % FINER THAN .250 MM	SUS- SED- SIEVE DIAM. % FINER THAN .500 MM	SUS- SED- SIEVE DIAM. % FINER THAN 1.00 MM	SUS- SED- SIEVE DIAM. % FINER THAN 2.00 MM
------	---	--	--	--	--	--	--

OCT							
09...	60	79	90	94	97	99	100
JUL							
06...	--	94	98	99	100	--	--
07...	--	75	89	96	99	100	--
08...	--	86	94	98	99	100	--
14...	--	95	97	97	98	99	100
SEP							
02...	--	97	98	99	100	--	--
16...	--	90	93	99	100	--	--
21...	--	92	95	97	100	--	--
25...	--	87	94	98	100	--	--
25...	--	86	91	95	98	100	--
26...	--	77	86	92	97	100	--
26...	--	89	94	100	--	--	--
27...	--	89	100	--	--	--	--

04224900 - MILL CREEK AT PATCHINVILLE NY (LAT 42 31 13 LONG 077 35 06)

SUSPENDED-SEDIMENT MEASUREMENTS, JULY 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE DI- MENT CHARGE (MG/L)	SUS- PENDE MENT DIS- CHARGE (T/DAY)	SUS- SED- FALL DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE DI- MENT CHARGE (MG/L)	SUS- PENDE MENT DIS- CHARGE (T/DAY)	SUS- SED- FALL DIAM. % FINER THAN .062 MM
JUL , 1976						JUN , 1977					
29...	1920	30	218	18	--	15...	1330	3.8	18	.18	--
30...	1235	14	9	.34	--	22...	1030	3.4	5	.05	--
DEC						23...	1330	7.0	39	.74	--
07...	1030	7.7	11	.23	--	25...	1615	5.2	18	.25	--
07...	1400	5.7	10	.18	--	26...	1315	3.8	5	.06	--
08...	0800	4.5	1	.02	--	JUL					
FEB , 1977						06...	1945	19	1130	58	97
25...	1105	18	36	1.7	--	07...	2210	28.3	11300	8630	78
MAR						10...	1150	5.2	14	.20	--
04...	1000	7.4	5	.12	--	SEP					
16...	0800	10	8	.22	--	16...	1930	58	1450	290	84
16...	1300	9.6	10	.26	--	19...	1030	18	17	.83	94
23...	1345	28	157	12	--	19...	1630	14	16	.60	75
24...	1150	5.2	1	.02	--	20...	1010	71	198	38	73
28...	1130	20	54	2.9	--	20...	1510	44	44	5.2	82
28...	1350	28	149	15	81	21...	1245	17	13	.60	92
28...	1500	31	109	9.1	--	21...	1600	15	13	.53	--
29...	0705	22	8	.48	--	22...	1030	12	10	.32	80
29...	1030	22	12	.71	--	22...	1535	11	7	.21	90
29...	1445	22	11	.65	--	23...	0900	10	4	.11	100
30...	0800	13	1	.04	--	25...	1250	32	48	4.1	92
APR						25...	1600	27	28	2.0	93
23...	1800	49	260	34	--	26...	0940	35	97	9.2	93
25...	1020	14	12	.45	--	26...	1350	20	20	1.1	85
26...	1250	9.6	10	.26	--	26...	1515	18	19	.92	92
29...	1830	17	14	.64	--	27...	0930	12	5	.16	80
MAY						29...	1430	3.0	1	.02	100
05...	1125	15	14	.60	--						
26...	1140	4.7	5	.06	--						

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

STREAMS TRIBUTARY TO LAKE ONTARIO

04224900 - MILL CREEK AT PATCHINVILLE NY (LAT 42 31 13 LONG 077 35 06)--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
MAR 28...	1350	28	199	15	20	23	30	45
JUL 06...	1945	19	1130	58	--	--	--	--
07...	2210	283	11300	8630	13	22	32	45
SEP 16...	1930	58	1850	290	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
MAR 28...	60	81	92	97	99	100	--
JUL 06...	--	97	99	100	--	--	--
07...	61	78	89	95	99	100	--
SEP 16...	--	84	90	95	98	99	100

04224930 - MILL CREEK AT PERKINSVILLE NY (LAT 42 32 16 LONG 077 37 35)

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
DEC , 1976						JUL , 1977					
07...	1100	21	30	1.7	--	06...	2005	26	220	15	92
07...	1420	20	16	.86	--	07...	1410	22	46	2.7	91
08...	0830	17	5	.23	--	07...	2225	173	4310	2010	93
MAR , 1977						08...	1250	107	122	35	88
04...	1145	142	13	5.0	--	08...	1830	84	112	25	89
16...	0830	40	26	2.8	--	10...	1215	17	42	1.9	--
16...	1330	35	16	1.5	--	20...	1125	17	26	1.2	--
24...	1240	27	5	.36	--	AUG					
24...	1440	65	59	10	--	24...	1035	44	86	10	--
29...	0730	67	27	4.9	--	SEP					
29...	1055	65	29	5.2	--	19...	1100	75	41	8.3	--
29...	1545	64	34	5.9	--	19...	1740	65	28	5.0	--
30...	0830	52	21	2.9	--	20...	1030	167	153	69	81
APR						21...	1300	109	34	10	88
23...	1825	82	235	52	77	21...	1615	104	32	9.0	94
24...	1810	88	48	11	--	22...	1040	70	34	6.4	68
25...	1045	64	21	3.6	--	22...	1615	64	31	5.4	81
26...	1300	42	12	1.4	--	23...	0915	49	27	3.6	92
MAY						25...	1310	201	76	41	79
05...	1155	64	40	6.9	--	25...	1715	192	44	23	84
26...	1230	20	23	1.2	--	26...	1000	138	62	23	95
JUN						26...	1405	132	63	22	--
15...	1350	19	42	2.2	90	26...	1530	129	82	29	89
22...	1230	16	20	.86	--	27...	0945	97	25	6.5	88
25...	1400	24	99	6.4	90	29...	1540	50	17	2.3	76
25...	1630	22	60	3.6	92						
26...	1330	17	22	1.0	94						

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

503

STREAMS TRIBUTARY TO LAKE ONTARIO

04224940 - MILL CREEK NEAR DANSVILLE NY (LAT 42 32 16 LONG 077 40 23)

SUSPENDED-SEDIMENT MEASUREMENTS, JULY 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE- SED- MENT (MG/L)	SUS- PENDE- SED- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE- SED- MENT (MG/L)	SUS- PENDE- SED- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
JUL , 1976						MAY , 1977					
28...	1620	25	70	5.3	--	05...	1225	53	199	28	74
29...	1810	14	2150	430	--	26...	1600	62	73	12	--
30...	1200	37	150	18	--	JUN					
AUG						15...	1415	23	100	6.2	75
04...	1500	33	105	5.4	--	22...	1445	18	402	15	--
10...	1245	25	90	9.2	--	25...	1440	39	410	43	81
19...	1545	22	72	4.7	--	25...	1700	34	196	18	82
SEP						JUN					
16...	0925	15	43	2.1	--	26...	1400	18	51	3.0	88
OCT						30...	1545	15	44	1.9	--
21...	1550	145	475	190	89	JUL					
22...	0925	87	274	64	74	06...	2030	75	1790	362	90
NOV						07...	2300	230	11000	6930	79
11...	1440	30	55	5.3	--	08...	1740	105	481	278	60
15...	1330	28	48	3.6	--	09...	1715	49	273	36	74
DEC						14...	1555	25	120	8.4	--
07...	1130	42	115	36	--	20...	1300	19	91	4.7	--
07...	1440	40	165	18	--	AUG					
08...	0900	31	82	6.9	--	11...	1730	15	20	.86	95
JAN , 1977						17...	1945	93	1210	320	--
13...	1430	14	7	.26	--	24...	1405	45	407	51	--
FEB						SEP					
14...	1705	20	33	1.8	--	16...	1930	45	1450	225	84
25...	1140	55	419	63	72	19...	1215	87	414	97	57
MAY						19...	1420	87	345	81	53
04...	1225	34	217	20	--	20...	1145	211	--	1780	--
08...	1345	35	144	14	--	20...	1550	190	2320	1190	42
15...	0905	49	159	21	--	21...	1800	101	432	118	51
16...	1400	44	155	19	--	22...	1200	75	345	71	45
23...	1555	65	384	105	--	22...	1645	69	211	39	58
24...	1500	29	129	10	--	23...	1110	47	128	16	64
28...	1500	63	492	118	76	25...	1340	211	2130	1210	45
29...	0750	67	249	45	--	25...	1745	202	1470	1020	39
29...	1155	65	299	53	--	26...	1025	143	1150	444	49
29...	1600	62	237	40	--	26...	1130	131	682	241	56
30...	0850	54	134	20	--	26...	1420	115	682	212	61
30...	1050	53	143	20	--	26...	1600	115	481	143	67
APR						27...	1015	99	270	72	80
05...	0810	40	69	7.5	--	27...	1050	93	241	61	80
23...	1900	87	1280	301	79	30...	1220	45	120	15	82
24...	1745	83	458	80	63						
25...	1110	69	154	29	75						
26...	1630	53	88	13	--						

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

STREAMS TRIBUTARY TO LAKE ONTARIO

04224940 - MILL CREEK NEAR DANSVILLE NY (LAT 42 32 16 LONG 077 40 23)--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
MAR								
28...	1500	63	692	118	16	22	30	41
APR								
23...	1900	87	1280	301	21	22	31	42
JUL								
06...	2030	75	1790	362	--	--	--	--
07...	2300	230	11000	6830	15	23	34	47
SEP								
16...	1930	45	1850	225	--	--	--	--
19...	1215	87	414	97	--	--	--	--
19...	1820	87	346	81	--	--	--	--
20...	1550	190	2320	1190	--	--	--	--
21...	1800	101	432	118	--	--	--	--
22...	1200	76	345	71	--	--	--	--
22...	1645	69	211	39	--	--	--	--
23...	1110	47	128	16	--	--	--	--
25...	1340	211	2130	1210	--	--	--	--
25...	1745	202	1870	1020	--	--	--	--
26...	1025	143	1150	444	--	--	--	--
26...	1130	131	682	241	--	--	--	--
26...	1420	115	682	212	--	--	--	--
26...	1600	115	461	143	--	--	--	--
27...	1015	99	270	72	--	--	--	--
27...	1050	93	241	61	--	--	--	--
30...	1220	45	120	15	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SJS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
MAR							
28...	54	76	88	95	100	--	--
APR							
23...	56	79	89	95	100	--	--
JUL							
06...	--	90	97	99	100	--	--
07...	61	78	91	96	98	99	100
SEP							
16...	--	84	90	95	98	99	100
19...	--	57	70	82	96	100	--
19...	--	53	72	83	95	100	--
20...	--	42	56	70	88	96	98
21...	--	51	63	75	87	92	100
22...	--	45	63	78	89	100	--
22...	--	58	71	81	91	100	--
23...	--	64	74	84	93	100	--
25...	--	45	60	80	95	100	--
25...	--	39	50	63	82	95	100
26...	--	49	55	70	84	92	100
26...	--	56	66	73	85	96	100
26...	--	61	69	79	90	98	100
26...	--	67	76	82	94	100	--
27...	--	80	87	90	98	100	--
27...	--	80	87	91	96	100	--
30...	--	82	88	93	100	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04224978 - MILL CREEK AT DANSVILLE NY (LAT 42 33 12 LONG 077 41 44)

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT. 1976						MAY. 1977					
05...	1320	21	22	1.2	--	05...	0930	71	271	52	81
05...	1325	21	24	1.4	--	16...	1330	30	18	1.5	--
09...	1330	145	2380	932	69	27...	1230	30	35	2.8	--
09...	1440	155	1400	590	71	JUN					
09...	1555	270	3710	2710	63	13...	1310	32	37	3.2	--
10...	1240	159	750	322	69	15...	1530	29	78	6.1	88
15...	1250	44	69	8.2	--	22...	1700	24	37	2.4	--
19...	1350	35	43	4.2	--	25...	1240	42	417	47	85
19...	1355	35	44	4.3	--	25...	1350	42	455	52	82
21...	1110	200	433	450	79	25...	1420	42	354	44	83
21...	1345	188	731	371	88	25...	1530	41	291	32	87
21...	1545	165	599	317	79	25...	1715	37	185	18	84
22...	1115	67	231	42	86	26...	1430	25	43	3.4	90
25...	1000	55	262	40	--	JUL					
NOV						06...	2100	93	1080	271	92
15...	1310	35	28	2.6	--	07...	1400	53	89	13	92
16...	1215	33	28	2.5	--	08...	1720	108	902	263	71
DEC						09...	1705	61	203	33	87
07...	1215	45	248	30	--	10...	1345	50	99	13	92
07...	1515	44	142	17	--	20...	1600	67	142	25	79
08...	0940	38	22	2.3	--	SEP					
JAN. 1977						15...	2000	64	578	117	56
13...	1550	18	12	.58	--	19...	1325	175	396	188	78
FEB						19...	1800	157	305	129	79
15...	0950	29	0	.00	--	20...	1315	420	3950	4370	52
MAR						20...	1855	261	2810	1980	39
04...	1300	45	201	25	--	21...	1530	115	441	137	75
08...	1130	35	58	5.5	--	21...	1825	105	411	117	75
16...	0955	81	100	22	--	22...	1330	77	451	94	52
16...	1340	65	104	19	--	22...	1700	91	249	61	85
16...	1430	70	125	24	--	23...	1140	75	128	26	94
24...	1500	41	83	9.2	--	25...	1350	247	1590	1280	58
29...	1715	68	553	120	83	25...	1800	235	1210	768	61
29...	0805	68	238	44	--	26...	1250	142	595	228	59
29...	0825	68	232	43	--	26...	1435	145	523	209	61
29...	1225	68	245	45	--	26...	1615	135	640	235	55
30...	0910	68	130	24	--	27...	1115	98	113	30	74
APR											
05...	1050	43	53	6.2	--						
18...	1415	28	13	.98	--						
24...	1425	171	541	250	54						
27...	1400	82	57	13	--						
27...	1515	65	85	15	--						

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

STREAMS TRIBUTARY TO LAKE ONTARIO

04224978 - MILL CREEK AT DANSVILLE NY (LAT 42 33 12 LONG 077 41 44)--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE- SEDIMENT (MG/L)	SUS- PENDE- SEDIMENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
OCT								
09...	1555	270	3710	2710	11	11	16	26
MAR								
28...	1715	68	653	120	18	26	34	46
APR								
24...	1425	171	541	250	13	15	21	29
JUL								
06...	2100	93	1080	271	--	--	--	--
SEP								
16...	2000	64	678	117	--	--	--	--
19...	1325	176	396	188	--	--	--	--
19...	1800	157	305	129	--	--	--	--
20...	1315	420	3850	4370	--	--	--	--
20...	1855	261	2810	1980	--	--	--	--
21...	1530	115	441	137	--	--	--	--
21...	1825	105	411	117	--	--	--	--
22...	1330	77	451	94	--	--	--	--
25...	1350	297	1590	1280	--	--	--	--
25...	1800	235	1210	768	--	--	--	--
26...	1250	142	595	228	--	--	--	--
26...	1435	148	523	209	--	--	--	--
26...	1615	136	640	235	--	--	--	--
27...	1115	98	113	30	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT							
09...	37	63	84	94	100	--	--
MAR							
28...	59	83	94	98	100	--	--
APR							
24...	37	54	69	83	96	100	--
JUL							
06...	--	92	98	99	100	--	--
SEP							
16...	--	56	69	81	96	98	99
19...	--	78	90	95	100	--	--
19...	--	79	91	95	100	--	--
20...	--	52	62	69	80	88	97
20...	--	39	66	74	83	91	98
21...	--	75	86	92	97	100	--
21...	--	75	87	95	100	--	--
22...	--	52	63	71	81	88	100
25...	--	58	69	86	95	99	100
25...	--	61	72	80	88	95	100
26...	--	59	70	81	92	100	--
26...	--	61	71	78	87	98	100
26...	--	55	63	69	79	88	100
27...	--	74	81	85	92	100	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

507

STREAMS TRIBUTARY TO LAKE ONTARIO

04225500 - CANASERAGA CREEK AT GROVELAND NY (LAT 42 39 40 LONG 077 46 07)

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT , 1976						APR , 1977					
07...	1750	48	17	2.2	--	24...	1815	1120	676	2040	67
15...	0925	149	20	8.0	--	MAY					
NOV						03...	1040	207	29	16	--
15...	1010	128	17	5.9	--	15...	0930	225	5	3.0	--
18...	0925	117	15	4.7	--	24...	1400	102	13	3.6	--
27...	0940	152	47	21	85	JUN					
DEC						13...	1000	54	32	4.7	--
15...	0845	148	9	3.6	--	23...	1515	52	49	6.9	--
JAN , 1977						25...	1500	171	501	231	96
14...	1140	66	4	.71	--	25...	1715	159	243	104	88
FEB						26...	1145	106	85	24	--
15...	1545	212	13	7.4	--	JUL					
MAR						08...	0945	913	1240	3060	85
04...	1220	227	52	32	--	08...	1430	650	799	1400	88
16...	0930	379	272	278	--	19...	1620	90	34	8.3	--
21...	1800	263	57	40	--						
APR											
18...	1015	114	7	2.2	--						
24...	0910	1600	1650	7130	75						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
APR							
24...	0910	1600	1650	7130	15	21	28
24...	1815	1120	676	2040	18	18	26
JUL							
08...	0945	913	1240	3060	19	26	34
08...	1430	650	799	1400	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
APR						
24...	39	51	75	91	98	100
24...	35	46	67	83	94	100
JUL						
08...	47	60	85	96	99	100
08...	--	--	88	98	100	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

STREAMS TRIBUTARY TO LAKE ONTARIO

04225600 - BRADNER CREEK NEAR DANSVILLE NY (LAT 42 34 49 LONG 077 44 20)

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT • 1976						MAY • 1977					
15...	1010	5.2	5	.08	--	16...	0955	9.2	29	.72	--
21...	1100	94	174	44	98	24...	1200	5.9	11	.20	--
21...	1440	62	95	16	--	JUN					
21...	1715	37	87	8.7	--	13...	1045	4.0	5	.06	--
22...	0830	27	33	2.4	--	15...	1045	4.0	6	.06	--
NOV						25...	1450	12	67	2.2	97
10...	0900	9.7	3	.08	--	26...	1030	4.0	10	.11	--
15...	1030	8.0	2	.04	--	JUL					
27...	1230	5.9	4	.07	--	06...	2215	72	529	103	100
DEC						07...	1055	8.0	268	5.8	97
07...	1420	30	41	3.3	--	08...	0100	136	744	273	93
15...	0920	4.0	4	.04	--	08...	1600	8.0	4430	96	93
JAN • 1977						09...	1625	5.2	55	.77	--
14...	1720	2.8	3	.02	--	19...	1400	10	36	.97	--
FEB						AUG					
15...	1340	5.9	5	.10	--	25...	1545	90	89	22	99
MAR						26...	0945	3.7	136	1.4	--
04...	1320	24	33	2.1	--	SEP					
16...	1000	19	10	.51	--	20...	1300	151	378	154	93
25...	1220	17	5	.23	--	20...	2130	55	134	20	92
APR						21...	1300	43	83	9.6	77
23...	1745	190	595	306	97	22...	1045	29	29	2.3	86
24...	1200	73	39	8.0	--	26...	1325	88	132	31	90
24...	1610	61	30	4.9	--	26...	1710	62	64	11	--
25...	1130	21	10	.57	--	27...	1210	25	160	11	89
25...	1625	19	12	.62	--						
28...	1115	14	2	.08	--						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
JUL								
08...	1600	8.0	4430	96	93	99	100	--
SEP								
20...	1300	151	378	154	93	96	99	100
20...	2130	55	134	20	92	95	98	100
26...	1325	88	132	31	90	97	100	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

509

STREAMS TRIBUTARY TO LAKE ONTARIO

04225670 - BRADNER CREEK NEAR SONYEA NY (LAT 42 41 03 LONG 077 47 54)

SUSPENDED-SEDIMENT MEASUREMENTS, OCTOBER 1975 TO JULY 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT , 1975						OCT , 1976					
14...	0815	5.4	59	.86	--	07...	1850	3.5	58	.64	--
15...	1100	5.3	99	1.4	--	15...	0900	19	41	2.1	--
29...	0815	7.6	84	1.7	--	NOV					
NOV						15...	0945	20	15	.86	--
11...	0850	22	109	6.5	--	16...	1025	20	17	.92	--
13...	0850	17	25	1.2	--	27...	1125	22	48	2.9	--
28...	0745	8.5	11	.25	--	27...	1445	21	33	1.9	--
DEC						DEC					
10...	0915	75	275	56	--	07...	1150	42	52	5.9	--
13...	0800	25	8	.60	--	15...	0830	31	13	1.1	--
28...	0730	31	11	.92	--	JAN , 1977					
30...	1620	24	7	.45	--	14...	1045	10	12	.32	--
JAN , 1976						FEH					
12...	0820	9.9	13	.35	--	15...	1655	35	15	1.4	--
FEB						MAR					
10...	0740	73	8	1.6	--	15...	0845	148	143	57	--
MAR						25...	1415	91	96	24	--
10...	1045	219	83	49	--	30...	1030	185	145	72	--
12...	0800	107	73	21	--	APR					
29...	0920	15	52	2.2	--	18...	0950	17	92	4.2	--
APR						25...	1105	300	549	445	--
11...	0840	57	63	9.7	--	MAY					
13...	0930	54	24	3.5	--	16...	1530	5.8	79	1.2	--
MAY						24...	1500	12	107	3.5	--
10...	0830	45	45	5.7	--	25...	0900	39	19100	2010	99
19...	1105	78	129	27	--	JUN					
JUN						13...	1715	21	177	10	97
09...	0830	31	61	6.8	--	23...	1800	5.6	102	1.8	--
28...	0905	22	302	18	96	25...	1150	27	248	18	--
JUL						25...	1520	54	578	84	98
13...	0820	22	185	11	98	26...	1130	44	162	19	98
13...	1100	22	175	10	99	JUL					
AUG						06...	2300	118	2180	695	99
11...	0920	15	118	4.8	--	09...	1905	129	514	179	95
12...	0845	14	97	3.7	98	20...	1730	14	57	2.2	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04225670 - BRADNER CREEK NEAR SONYEA NY (LAT 42 41 03 LONG 077 47 54)--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, FEBRUARY 1976 TO JULY 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT CHARGE (T/DAY)	SUSPENDED SED. FALL DIAM. % FINER THAN .002 MM	SUSPENDED SED. FALL DIAM. % FINER THAN .004 MM	SUSPENDED SED. FALL DIAM. % FINER THAN .008 MM
FEB. 1976							
17...	1700	--	2440	--	15	23	31
18...	1200	--	2830	--	20	25	50
18...	1340	--	3250	--	12	16	24
18...	1520	--	2800	--	--	--	--
APR							
25...	1340	--	1240	--	34	50	66
APR. 1977							
23...	1820	--	1970	--	24	32	42
24...	1020	--	1600	--	23	32	42
MAY							
25...	0900	39	19100	2010	18	27	42
JUL							
06...	2300	118	2180	695	49	58	74
08...	1025	--	606	--	--	--	--
09...	1905	129	514	179	--	--	--

DATE	SUSPENDED SED. FALL DIAM. % FINER THAN .016 MM	SUSPENDED SED. FALL DIAM. % FINER THAN .031 MM	SUSPENDED SED. SIEVE DIAM. % FINER THAN .062 MM	SUSPENDED SED. SIEVE DIAM. % FINER THAN .125 MM	SUSPENDED SED. SIEVE DIAM. % FINER THAN .250 MM	SUSPENDED SED. SIEVE DIAM. % FINER THAN .500 MM
FEB. 1976						
17...	45	61	82	96	99	100
18...	56	66	84	97	99	100
18...	37	53	78	95	100	100
18...	--	--	85	98	100	--
APR						
25...	69	92	98	99	100	100
APR. 1977						
23...	54	71	87	99	100	--
24...	52	70	85	98	100	--
MAY						
25...	65	90	99	100	--	--
JUL						
06...	86	95	99	100	--	--
08...	--	--	95	99	100	--
09...	--	--	95	99	100	--

04225915 - KESHEQUA CREEK AT NUNDA NY (LAT 42 35 19 LONG 077 55 14)

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT CHARGE (T/DAY)	SUSPENDED SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT CHARGE (T/DAY)	SUSPENDED SED. SIEVE DIAM. % FINER THAN .062 MM
JAN. 1976						FEB. 1977					
‡ 14...	1300	66	109	19	94	24...	1030	23	29	1.8	--
* 14...	1320					MAR					
* 14...	1520					16...	1845	47	44	5.6	--
‡ 14...	1630	61	67	11	86	APR					
MAR						05...	1200	55	11	1.6	--
* 04...	1600					18...	1530	18	3	.15	--
OCT						24...	1420	317	397	340	90
15...	1330	18	5	.24	--	25...	1500	125	92	31	--
21...	1345	244	153	101	--	MAY					
21...	1620	234	126	80	--	16...	1430	16	3	.13	--
22...	1020	25	50	3.4	--	25...	1100	15	2	.08	--
NOV						JUN					
09...	1345	19	7	.36	--	13...	1630	8.3	36	.81	--
15...	1430	17	3	.14	--	14...	1020	7.9	4	.09	--
27...	1230	32	15	1.3	93	JUL					
DEC						08...	1400	52	156	22	97
07...	1320	49	200	26	--	09...	1510	20	27	1.5	93
15...	1340	14	20	.76	--	21...	1000	9.6	3	.08	--
						AUG					
						25...	0955	28	24	1.8	--

‡ Additional data not previously published in 1976 report.

* Delete all values for this date and time published in 1976 report.

STREAMS TRIBUTARY TO LAKE ONTARIO

04225915 - KESHEQUA CREEK AT NUNDA NY (LAT 42 35 19 LONG 077 55 14)--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT (MG/L)	SUS- PEN- DED SED- IMENT (T/DAY)	SUS- SED- FALL DIAM. % FINER THAN .002 MM	SUS- SED- FALL DIAM. % FINER THAN .004 MM	SUS- SED- FALL DIAM. % FINER THAN .008 MM
JAN , 1976							
* 14...	1300	66	109	19	51	61	68
FEB							
17...	1035	654	2120	3740	29	35	41
17...	1200	544	1730	2540	29	34	44
18...	1345	537	1510	2190	28	33	43
APR							
25...	1130	823	4740	10500	21	26	36

DATE	SUS- SED- FALL DIAM. % FINER THAN .015 MM	SUS- SED- FALL DIAM. % FINER THAN .031 MM	SUS- SED- FALL DIAM. % FINER THAN .062 MM	SUS- SED- FALL DIAM. % FINER THAN .125 MM	SUS- SED- FALL DIAM. % FINER THAN .250 MM	SUS- SED- FALL DIAM. % FINER THAN .500 MM	SUS- SED- FALL DIAM. % FINER THAN 1.00 MM
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JAN , 1976							
14...	79	96	94	97	100	--	--
FEB							
17...	56	72	84	92	96	100	--
17...	59	74	86	92	96	99	100
18...	56	73	84	91	95	99	100
APR							
25...	49	53	74	83	88	92	100

* Additional data not previously published in 1976 report.

04225950 - KESHEQUA CREEK AT TUSCARORA NY (LAT 42 38 17 LONG 077 52 01)

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT (MG/L)	SUS- PEN- DED SED- IMENT (T/DAY)	SUS- SED- FALL DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT (MG/L)	SUS- PEN- DED SED- IMENT (T/DAY)	SUS- SED- FALL DIAM. % FINER THAN .062 MM
JAN , 1976						FEB , 1977					
* 14...	1430					24...	1145	32	122	11	--
FEB						MAR					
† 11...	1730	310	932	780	--	04...	1055	87	87	20	--
† 17...	1545	715	1230	2380	90	16...	1545	109	66	19	--
† 18...	1200	1180	3740	11900	78	APR					
OCT						05...	1335	97	24	6.3	--
15...	1400	16	7	.30	--	18...	1545	42	4	.45	--
21...	1315	258	264	184	98	23...	2000	1740	8460	41600	79
21...	1600	222	192	115	--	24...	1330	405	777	850	82
22...	1000	189	62	32	--	25...	1620	207	142	79	--
NOV						MAY					
09...	1100	25	10	.67	--	16...	1500	51	2	.28	--
15...	1500	24	5	.32	--	25...	1315	19	7	.36	--
27...	1415	46	33	4.1	--	JUN					
DEC						13...	1645	6.4	18	.31	--
07...	1230	180	209	102	--	14...	1320	10	14	.38	--
15...	1400	36	16	1.6	--	JUL					
JAN , 1977						21...	1200	11	37	1.1	--
04...	1100	14	43	1.6	--	AUG					
						25...	1135	112	34	10	--

* Delete all values for this date and time published in 1976 report.

† Revision; supersedes values published in 1976 report.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

STREAMS TRIBUTARY TO LAKE ONTARIO

04225950 - KESHEQUA CREEK AT TUSCARORA NY (LAT 42 38 17 LONG 077 52 01)--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
APR 23...	2000	1740	8860	41600	--	--	--	--
24...	1330	405	777	850	25	33	41	53

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
APR 23...	--	79	89	95	99	100	--
24...	64	82	91	94	97	99	100

04230320 - OATKA CREEK AT ROCK GLEN NY (LAT 42 41 39 LONG 078 07 15)

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
AUG , 1976						APR , 1977					
† 25...	1345	4.0	6	.06	--	20...	1015	5.7	5	.08	--
OCT 13...	1125	8.5	2	.05	--	23...	1910	270	530	386	--
14...	1030	20	6	.32	--	24...	0850	151	134	55	--
NOV 17...	1010	20	3	.16	--	24...	1330	158	66	28	--
17...	1040	24	6	.39	--	25...	0900	82	24	5.3	--
27...	1130	34	6	.55	--	MAY 02...	1600	18	5	.24	--
DEC 17...	1015	9.0	7	.17	--	18...	0930	9.5	18	.46	--
JAN , 1977						01...	1620	5.7	8	.12	--
20...	1610	6.3	21	.36	--	15...	1015	4.0	7	.08	--
FEB 22...	1415	11	4	.12	--	15...	1330	4.0	8	.09	--
MAR 13...	1600	315	190	162	--	JUL 08...	1100	51	43	5.9	--
14...	0850	193	72	38	--	08...	2000	33	33	2.9	--
24...	0930	33	7	.62	--	27...	1420	3.6	3	.03	--
28...	0910	315	162	138	--	AUG 17...	1150	65	66	12	91
28...	1315	137	210	78	--	SEP 16...	1410	155	112	47	96
28...	1630	165	280	125	--	16...	1415	155	113	47	78
29...	1100	109	35	10	--	16...	1505	155	125	52	82
29...	1145	115	49	15	--	16...	1925	180	139	68	75
29...	1300	140	39	15	--						
30...	1545	39	19	2.0	--						

† Revision; supersedes values published in 1976 report.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
SEP 16...	1415	155	113	47	78	80	93	95	100
16...	1505	155	125	52	82	92	95	98	100
16...	1925	180	139	68	75	82	90	99	100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

513

STREAMS TRIBUTARY TO LAKE ONTARIO

04230410 - PEARL CREEK AT PEARL CREEK NY (LAT 42 50 55 LONG 078 02 36)

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT , 1976						APR , 1977					
13...	1510	5.0	3	.04	--	24...	1015	130	58	20	--
14...	1145	7.4	4	.08	--	24...	1445	57	39	6.0	--
NOV						25...	1000	78	18	3.8	--
17...	1130	7.0	7	.13	--	29...	1000	19	3	.15	--
18...	1250	7.7	38	.79	--	MAY					
DEC						18...	1130	4.0	2	.02	--
17...	1100	19	23	1.2	--	23...	1400	3.2	4	.03	--
JAN , 1977						JUN					
21...	1040	5.0	11	.15	--	15...	1134	.80	6	.01	--
FEB						16...	1015	.80	14	.03	--
22...	1630	7.4	7	.14	--	JUL					
MAR						08...	1410	54	86	13	--
14...	1050	66	19	3.4	--	08...	2050	37	33	3.3	--
29...	1430	93	31	7.8	--	28...	1030	1.3	47	.16	--
29...	1440	94	32	8.1	--	AUG					
30...	1330	44	12	1.4	--	16...	1815	3.2	17	.15	--
APR						SEP					
04...	1500	24	0	.00	--	16...	1600	78	91	19	95
04...	1540	24	0	.00	--	16...	1715	92	105	26	96
20...	1140	6.8	2	.04	--	16...	1833	32	108	9.3	--
23...	1805	161	776	337	86	17...	1415	47	36	4.6	81
						26...	1800	107	31	9.0	94

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
SEP								
16...	1600	78	91	19	95	98	100	--
16...	1715	92	105	26	96	99	100	--
17...	1415	47	36	4.6	81	81	89	100

STREAMS TRIBUTARY TO LAKE ONTARIO

04230423 - OATKA CREEK NEAR PAVILION CENTER NY (LAT 42 55 43 LONG 078 02 20)

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT , 1975						APR , 1977					
‡ 01...	1030	19	5	.26	--	14...	1410	400	31	33	--
‡ 16...	1050	14	3	.11	--	23...	1535	316	61	52	--
‡ 29...	1730	18	4	.19	--	24...	1105	924	144	359	--
‡ 31...	1050	17	3	.14	--	25...	1030	1640	31	137	94
JAN , 1976						29...	1230	51	6	.83	--
‡ 14...	1140	200	12	6.5	--	MAY					
OCT						03...	1630	107	3	.87	--
14...	1030	51	9	1.2	--	18...	1200	43	1	.12	--
14...	1210	52	7	.98	--	JUN					
NOV						02...	1320	19	11	.56	--
17...	1140	69	5	.93	--	15...	1200	14	4	.15	--
18...	1405	69	5	.93	--	16...	1215	13	3	.11	--
27...	1245	124	8	2.7	--	JUL					
DEC						08...	1500	512	140	194	--
17...	1130	100	18	4.9	--	08...	2115	470	99	126	--
FEB , 1977						28...	1230	18	3	.15	--
23...	1210	72	2	.39	--	AUG					
MAR						17...	1930	724	146	285	99
14...	1120	2240	53	321	--	SEP					
29...	1115	848	62	142	79	16...	1640	315	83	71	97
29...	1720	900	53	129	77	16...	1850	351	76	72	98
30...	1350	920	28	70	--	17...	1445	414	39	44	95
‡ Additional data not previously published in 1976 report.						26...	1745	2470	55	367	98
						27...	1500	1340	18	65	98
						28...	1825	2450	59	390	94

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
SEP								
16...	1640	315	83	71	97	98	100	--
16...	1850	351	76	72	98	99	100	--
26...	1745	2470	55	367	98	100	--	--
27...	1500	1340	18	65	98	100	--	--
28...	1825	2450	59	390	94	96	98	100

04230470 - MAD CREEK NEAR LE ROY NY (LAT 42 58 47 LONG 077 57 00)

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT , 1976						MAR , 1977					
13...	1640	.54	2	.00	--	30...	1420	38	10	1.0	--
14...	1345	1.1	1	.00	--	APR					
NOV						06...	1205	5.9	1	.02	--
17...	1315	1.3	18	.06	--	20...	1400	1.3	8	.03	--
18...	1530	1.4	17	.06	--	23...	1700	51	182	25	78
JAN , 1977						24...	1150	132	54	19	--
21...	1500	.29	4	.00	--	24...	1600	116	35	11	--
FEB						25...	1140	59	13	2.1	--
23...	1515	8.2	2	.04	--	29...	1200	5.9	4	.06	--
MAR						MAY					
04...	1245	312	6	5.1	--	18...	1400	.04	13	.00	--
14...	1325	53	13	1.9	--						

515

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

HUDSON RIVER BASIN

01335500 - HUDSON RIVER AT MECHANICVILLE NY (LAT 42 54 45 LONG 073 40 45)

01335505 - HUDSON RIVER AT BRIDGE AT MECHANICVILLE NY (LAT 42 54 19 LONG 073 40 59)

POLY-
CHLO-
RINATED
NAPH-
THA-
LENES

HUDSON RIVER BASIN

01335500 - HUDSON RIVER AT MECHANICVILLE NY (LAT 42 54 45 LONG 073 40 45)

01335505 - HUDSON RIVER AT BRIDGE AT MECHANICVILLE NY (LAT 42 54 19 LONG 073 40 59)

MAR , 1977
14... -- -- -- -- -- -- -- -- -- --

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
HUDSON RIVER BASIN--Continued												
01349520 - CAYADUTTA CREEK AT FONDA NY (LAT 42 57 10 LONG 074 22 49)												
NOV , 1976												
01...	1400	16	1380	7.6	4.5	450	410	100	48	120	6.7	42
01376270 - SPARKILL CREEK AT TAPPAN NY (LAT 41 01 26 LONG 072 56 52)												
OCT , 1976												
21...	1100	9.6	270	7.5	12.0	100	32	30	6.6	11	2.8	86
SUSQUEHANNA RIVER BASIN												
01501004 - MILL BR AT SHERBURNE TURNPIKE AT NEW BERLIN NY (LAT 42 38 13 LONG 075 21 07)												
OCT , 1976												
06...	1130	1.0	150	7.2	12.5	70	8	24	2.4	2.3	1.1	75
01501008 - MILL BROOK TRIBUTARY ABOVE NEW BERLIN NY (LAT 42 37 34 LONG 075 21 06)												
OCT , 1976												
06...	1030	1.0	243	7.2	13.0	110	8	38	3.2	2.8	1.4	122
01505050 - CANASAWACTA CREEK NEAR NORTH PHARSALIA NY (LAT 42 36 36 LONG 075 39 41.01)												
OCT , 1976												
05...	1100	8.9	71	7.0	11.0	32	6	10	1.8	1.5	.7	32
01505125 - EAST BRANCH CANASAWACTA CREEK NEAR PLYMOUTH NY (LAT 42 38 20 LONG 075 38 05.01)												
OCT , 1976												
05...	1230	7.8	82	7.1	11.5	33	2	10	2.0	1.3	.7	38
01505500 - CANASAWACTA CREEK NEAR SOUTH PLYMOUTH NY (LAT 42 33 49 LONG 075 33 09)												
OCT , 1976												
05...	0930	39	122	7.4	10.0	54	8	17	2.8	4.4	.9	56
01508652 - WEST BRANCH TIOUGHNIOGA RIVER NEAR PRERLE NY (LAT 42 43 07 LONG 076 08 08)												
APR , 1977												
12...	1230	--	430	7.1	14.0	190	20	54	14	10	1.2	210
AUG												
05...	1140	--	400	--	17.0	--	--	--	--	--	--	--
01508662 - WEST BRANCH TIOUGHNIOGA RIVER AT LITTLE YORK NY (LAT 42 41 46 LONG 076 09 47)												
APR , 1977												
12...	1400	--	420	7.6	11.0	190	34	53	14	9.5	1.1	190
AUG												
05...	1130	--	320	--	24.0	--	--	--	--	--	--	--
01508700 - COLD BROOK AT LITTLE YORK NY (LAT 42 41 08 LONG 076 10 11)												
APR , 1977												
14...	1320	--	160	7.9	11.0	67	14	21	3.5	2.2	.6	65
AUG												
05...	1015	--	200	--	20.0	--	--	--	--	--	--	--
01508715 - WEST BRANCH TIOUGHNIOGA RIVER ABOVE HOMER NY (LAT 42 38 57 LONG 076 10 36)												
APR , 1977												
12...	1445	--	370	7.5	13.0	170	30	48	12	9.1	1.1	170
AUG												
05...	1210	--	350	--	20.0	--	--	--	--	--	--	--

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WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
HUDSON RIVER BASIN--Continued											
01349520 - CAYADUTTA CREEK AT FONDA NY (LAT 42 57 10 LONG 074 22 49)											
NOV , 1976 01...	0	34	400	150	1.0	12	858	1.5	--	--	.50
01376270 - SPARKILL CREEK AT TAPPAN NY (LAT 41 01 26 LONG 072 56 52)											
OCT , 1976 21...	0	71	30	21	--	--	--	.38	.02	.41	.43
SUSQUEHANNA RIVER BASIN--Continued											
01501004 - MILL BR AT SHERBURNE TURNPIKE AT NEW BERLIN NY (LAT 42 38 13 LONG 075 21 07)											
OCT , 1976 06...	0	62	4.5	3.0	--	--	--	.16	.01	.17	.18
01501008 - MILL BROOK TRIBUTARY ABOVE NEW BERLIN NY (LAT 42 37 34 LONG 075 21 06)											
OCT , 1976 06...	0	100	7.1	5.7	--	--	--	.55	.01	.17	.18
01505050 - CANASAWACTA CREEK NEAR NORTH PHARSALIA NY (LAT 42 36 36 LONG 075 39 41.01)											
OCT , 1976 05...	0	26	4.3	2.6	--	--	--	.09	.01	.09	.10
01505125 - EAST BRANCH CANASAWACTA CREEK NEAR PLYMOUTH NY (LAT 42 38 20 LONG 075 38 05.01)											
OCT , 1976 05...	0	31	5.2	2.0	--	--	--	.08	.01	.09	.10
01505500 - CANASAWACTA CREEK NEAR SOUTH PLYMOUTH NY (LAT 42 33 49 LONG 075 33 09)											
OCT , 1976 05...	0	46	5.7	3.4	--	--	--	.14	.01	.14	.15
01508652 - WEST BRANCH TIOUGHNIOGA RIVER NEAR PREBLE NY (LAT 42 43 07 LONG 076 08 08)											
APR , 1977 12...	--	172	14	23	--	--	--	1.3	--	--	--
AUG 05...	--	--	--	--	--	--	--	1.4	--	--	--
01508662 - WEST BRANCH TIOUGHNIOGA RIVER AT LITTLE YORK NY (LAT 42 41 46 LONG 076 09 47)											
APR , 1977 12...	--	156	15	22	--	--	--	1.6	--	--	--
AUG 05...	--	--	--	--	--	--	--	.52	--	--	--
01508700 - COLD BROOK AT LITTLE YORK NY (LAT 42 41 08 LONG 076 10 11)											
APR , 1977 14...	--	53	9.2	6.6	--	--	--	.85	--	--	--
AUG 05...	--	--	--	--	--	--	--	.39	--	--	--
01508715 - WEST BRANCH TIOUGHNIOGA RIVER ABOVE HOMER NY (LAT 42 38 57 LONG 076 10 36)											
APR , 1977 12...	--	139	13	21	--	--	--	1.6	--	--	--
AUG 05...	--	--	--	--	--	--	--	.95	--	--	--

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DATE	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CARO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
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01349520 - CAYADUTTA CREEK AT FONDA NY (LAT 42 57 10 LONG 074 22 49)

01376270 - SPARKILL CREEK AT TAPPAN NY (LAT 41 01 26 LONG 072 56 52)

01501004 - MILL BR AT SHERBURNE TURNPIKE AT NEW BERLIN NY (LAT 42 38 13 LONG 075 21 07)

01501008 - MILL BROOK TRIBUTARY ABOVE NEW BERLIN NY (LAT 42 37 34 LONG 075 21 06)

01505050 - CANASAWACTA CREEK NEAR NORTH PHARSALIA NY (LAT 42 36 36 LONG 075 39 41.01)

01505125 - EAST BRANCH CANASAWACTA CREEK NEAR PLYMOUTH NY (LAT 42 38 20 LONG 075 38 05.01)

01505500 - CANASAWACTA CREEK NEAR SOUTH PLYMOUTH NY (LAT 42 33 49 LONG 075 33 09)

01508652 - WEST BRANCH TIOUGHNIOGA RIVER NEAR PREBLE NY (LAT 42 43 07 LONG 076 08 08)

01508662 - WEST BRANCH TIOUGHNIOGA RIVER AT LITTLE YORK NY (LAT 42 41 46 LONG 076 09 47)

01508700 - COLD BROOK AT LITTLE YORK NY (LAT 42 41 08 LONG 076 10 11)

01508715 - WEST BRANCH TIOJGHNIOGA RIVER ABOVE HOMER NY (LAT 42 38 57 LONG 076 10 36)

[illegible]

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

519

FIVE-DAY BIOCHEMICAL OXYGEN DEMAND AND FIELD DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)
HUDSON RIVER BASIN							
01350470 - LITTLE SCHOHARIE CREEK NEAR HENSSFLAERVILLE NY (LAT 42 33 40 LONG 074 13 56)							
SEP , 1977							
08...	1030	.02	175	4.0	8.2	84	.9
01350870 - FOX CREEK AT EAST HERNE, NY (LAT 42 36 44 LONG 074 04 02.01)							
SEP , 1977							
07...	1130	.04	312	4.3	11.2	133	2.1
01350910 - SWITZ KILL TRIBUTARY AT SHOE FELT CORNERS, NY (LAT 42 31 42 LONG 074 08 17.01)							
SEP , 1977							
08...	0945	.01	310	6.6	9.4	92	1.2
01359320 - BOZEN KILL NEAR ALTAMONT NY (LAT 42 42 50 LONG 074 02 47)							
SEP , 1977							
07...	1020	.16	420	7.6	8.8	93	1.8
01359507 - HUNGER KILL NEAR GUILDERLAND NY (LAT 42 43 25 LONG 073 55 06)							
SEP , 1977							
07...	0900	4.8	590	4.0	10.6	98	1.5
08...	0855	<.01	740	7.3	6.6	65	2.3
013595205-VLY CREEK AT VOORHEESVILLE, NY (LAT 42 38 56 LONG 073 56 09.01)							
SEP , 1977							
07...	1500	1.7	530	7.2	10.4	111	1.2
01359903 - FEURI SPRUYT NEAR CALLANANS CORNERS, NY (LAT 44 02 30 LONG 076 11 32.01)							
SEP , 1977							
07...	1355	.01	490	6.8	3.7	34	11
01361725 - BASIC CREEK AT WESTERLOO, NY (LAT 42 35 24 LONG 074 04 22.01)							
SEP , 1977							
07...	1200	.10	315	4.0	10.0	108	1.2

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

HUDSON RIVER BASIN

01362230 - ESOPUS CREEK AT CATSKILL AQUEDUCT TUNNEL OUTLET, NY (LAT 42 06 52 LONG 074 21 51)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
MAY , 1977					AUG , 1977				
25...	1430	300	5	4.0	31...	1130	346	7	6.5
JUN					SEP				
08...	1600	300	6	4.9	13...	1300	74	11	2.2
13...	1300	332	9	8.1	22...	1230	313	23	19
22...	1500	346	7	6.5	28...	1500	910	14	34
JUL					OCT				
07...	1330	430	6	7.0	13...	1630	895	4	9.7
20...	1300	272	8	5.9					
AUG									
03...	1230	305	7	5.8					
17...	1130	277	10	7.5					

420539044202100 - ESOPUS CREEK AT WOODLAND, NY (LAT 42 05 39 LONG 074 20 21)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
MAY , 1977					AUG , 1977				
24...	1600	491	6	8.0	31...	1530	271	4	2.9
JUN					SEP				
08...	1330	370	4	4.0	13...	1600	93	3	.75
13...	1400	382	4	4.1	22...	1300	439	15	18
22...	1400	340	4	3.7	28...	1400	1380	13	55
JUL					OCT				
07...	1600	386	5	5.3	14...	1130	1220	3	9.9
20...	1400	290	7	5.5					
AUG									
03...	1530	264	7	5.0					
17...	1430	280	7	5.3					

420455074184500 - ESOPUS CREEK AT PHOENECIA, NY (LAT 42 04 55 LONG 074 18 45)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
MAY , 1977					AUG , 1977				
24...	1400	480	6	7.8	31...	1500	288	5	3.9
JUN					SEP				
08...	1130	386	4	4.2	14...	1200	118	--	--
13...	1500	470	5	6.3	22...	1430	561	15	23
22...	1200	404	5	5.5	28...	1130	1720	16	74
JUL					OCT				
08...	1200	420	6	6.8	14...	1000	1430	4	15
21...	1130	312	5	4.2					
AUG									
04...	1130	280	7	5.3					
17...	1600	302	8	6.5					

E Estimated.

CHEMICAL QUALITY OF PRECIPITATION

521

HUDSON RIVER BASIN

AT ROCK HILL, NY

LOCATION.--Lat 41°37'25", long 74°31'17", Sullivan County, on North Shore Road, just north of Wanaksink Lake, 0.9 mi (1.4 km) east of Rock Hill, 3.5 mi (5.6 km) northwest of National Weather Service station "Rock Hill 3SW," and 6.5 mi (10.5 km) southeast of Monticello.

PERIOD OF RECORD.--Water years 1966 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided polyethylene funnel approximately 6.5 in. (165 mm) in diameter which drains into a Teflon* receiving bottle. A looped plastic tubing connects the funnel with the receiving bottle to retard evaporation. The polyethylene funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service station for the reported period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
76/10/01 TO 76/11/01	7.12	.55	.25	.15	4.10	.0	2.70	1.35
76/11/01 TO 76/11/30	1.17	2.30	.85	1.40	4.70	.0	6.90	4.53
76/11/30 TO 77/01/01	2.51	4.40	.80	2.30	7.50	14	19.0	5.31
77/01/01 TO 77/01/31	1.56	2.30	1.00	2.10	9.70	19	7.10	8.42
77/01/31 TO 77/02/10	.23	1.40	.51	.51	1.50	14	4.60	1.96
77/02/10 TO 77/03/01	3.04	.30	.04	.40	.09	.0	2.90	.48
77/03/01 TO 77/03/31	7.98	.46	.08	.25	.20	.0	1.80	.50
77/03/31 TO 77/04/30	4.36	.68	.14	.17	.23	.0	2.50	1.31
77/04/30 TO 77/05/31	2.04	.53	.17	.10	.97	.0	4.10	1.11
77/05/31 TO 77/06/30	3.17	1.40	.51	.04	2.90	.0	5.40	.85
77/06/30 TO 77/07/30	1.50	----	----	----	----	10	15.0	.81
77/07/30 TO 77/08/31	3.20	1.07	.61	.30	1.05	1.0	11.0	.26
77/08/31 TO 77/09/30	7.33	.79	.24	.66	.63	.0	6.40	.76

PERIOD OF COLLECTION	FLUORIDE (F) (MG/L)	NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
76/10/01 TO 76/11/01	.1	.012	.051	.452	21	4.50	.536	6
76/11/01 TO 76/11/30	.1	1.040	2.250	.679	67	5.80	.654	21
76/11/30 TO 77/01/01	.1	1.320	.002	.484	65	4.90	.769	6
77/01/01 TO 77/01/31	.1	.230	1.890	.681	70	5.30	.699	12
77/01/31 TO 77/02/10	.1	.086	.024	.048	18	5.50	.155	4
77/02/10 TO 77/03/01	.1	.606	.161	.017	27	4.60	.121	42
77/03/01 TO 77/03/31	.1	.321	.171	.024	17	5.00	.134	15
77/03/31 TO 77/04/30	.0	.460	.260	.038	23	4.05	.085	11
77/04/30 TO 77/05/31	.0	.510	.590	.224	30	4.00	.199	10
77/05/31 TO 77/06/30	.0	.160	.750	.208	35	5.50	.166	7
77/06/30 TO 77/07/30	.1	.390	3.800	----	65	6.70	.099	90
77/07/30 TO 77/08/31	.0	.260	2.300	.286	38	5.45	.069	34
77/08/31 TO 77/09/30	.0	2.600	.520	.024	47	4.17	.233	64

* The use of the brand name in this report is for identification purposes only and does not imply endorsement by the U.S. Geological Survey.

CHEMICAL QUALITY OF PRECIPITATION

HUDSON RIVER BASIN

NEAR ALBANY, NY

LOCATION.--Lat 42°44'35", long 73°48'30", Albany County, at National Weather Service station "Albany WSO AP," at Albany County Airport, 0.5 mi (0.8 km) north of State Highway 155.

PERIOD OF RECORD.--Water years 1966 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided polyethylene funnel approximately 6.5 in. (165 mm) in diameter which drains into a Teflon receiving bottle. A looped plastic tubing connects the funnel with the receiving bottle to retard evaporation. The polyethylene funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service station for the reported period of sampling.

REVISIONS.--The figure of specific conductance for June 1 to July 5, 1976, has been revised to 35 micromhos, superseding figure previously published.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
76/10/04 TO 76/11/03	5.65	.74	.09	.18	.06	.0	2.10	.43
76/11/03 TO 76/11/30	1.41	1.00	.14	.53	.26	.0	2.10	1.12
76/11/30 TO 77/01/12	1.05	2.40	.37	1.10	.05	11	3.80	1.82
77/02/01 TO 77/03/03	2.63	1.60	.28	1.20	.05	.0	3.10	1.00
77/03/03 TO 77/04/05	6.13	.88	.13	.14	.03	.0	2.30	.18
77/04/05 TO 77/05/03	3.26	1.43	.25	.16	.08	.0	3.70	1.01
77/05/03 TO 77/06/01	2.21	1.06	.19	.08	.29	.0	3.00	.31
77/06/01 TO 77/07/06	E 3.04	1.38	.28	.03	.25	.0	7.30	.74
77/07/07 TO 77/07/29	E 2.14	1.00	.20	.08	.09	.0	8.60	.33
77/07/29 TO 77/09/01	E 3.66	.90	.19	.15	.08	.0	5.00	.11
77/09/01 TO 77/09/27	E 6.62	.54	.13	.16	.09	.0	3.90	.18

PERIOD OF COLLECTION	FLUORIDE (F) (MG/L)	NITRATE NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
76/10/04 TO 76/11/03	.1	.418	.093	.009	22	3.90	.164	27
76/11/03 TO 76/11/30	.1	1.350	.423	.017	47	3.70	.153	64
76/11/30 TO 77/01/12	.1	.870	.135	.021	24	6.30	.035	7
77/02/01 TO 77/03/03	.1	.988	.126	.059	26	4.95	.093	25
77/03/03 TO 77/04/05	.1	.430	.102	.010	16	4.90	.087	23
77/04/05 TO 77/05/03	.0	.590	.200	.006	25	4.25	.077	0
77/05/03 TO 77/06/01	.0	.490	.790	.081	17	5.45	.078	0
77/06/01 TO 77/07/06	.0	.780	1.620	.130	36	5.10	.117	7
77/07/07 TO 77/07/29	.0	.730	1.200	.026	46	4.00	.132	12
77/07/29 TO 77/09/01	.0	.540	.560	.290	39	4.20	.134	270
77/09/01 TO 77/09/27	.0	.470	.200	.006	41	4.12	.162	42

E Estimated.

CHEMICAL QUALITY OF PRECIPITATION

523

HUDSON RIVER BASIN

AT HINCKLEY, NY

LOCATION.--Lat 43°18'35", long 75°06'35", Oneida County, at National Weather Service station "Hinckley," at Hinckley Dam on West Canada Creek, on Cody Road in Hinckley.

PERIOD OF RECORD.--Water years 1966 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided polyethylene funnel approximately 6.5 in. (165 mm) in diameter which drains into a Teflon receiving bottle. A looped plastic tubing connects the funnel with the receiving bottle to retard evaporation. The polyethylene funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service station for the reported period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
76/10/12 TO 76/11/03	4.89	.36	.05	.04	.05	.0	.80	.10
76/11/03 TO 76/12/15	3.22	1.30	.17	.16	.16	.0	1.90	.39
76/12/15 TO 77/01/20	4.10	1.40	.14	.31	.10	.0	3.80	.55
77/01/20 TO 77/02/10	3.03	1.70	.49	.43	.07	.0	4.40	.82
77/02/10 TO 77/03/06	2.71	.64	.11	.23	.04	.0	3.50	.32
77/03/06 TO 77/03/29	5.27	.45	.07	.07	.02	.0	1.80	.19
77/03/29 TO 77/04/26	5.57	.69	.10	.08	.05	.0	2.70	.82
77/04/26 TO 77/05/26	.95	----	----	----	----	.0	4.30	.21
77/05/26 TO 77/05/28	3.78	1.69	.32	.04	.37	.0	6.60	.53
77/06/28 TO 77/07/25	5.28	.45	.04	.01	.14	.0	5.70	.17
77/07/25 TO 77/08/15	4.33	.28	.01	.03	.05	.0	6.60	.31
77/08/15 TO 77/09/15	5.53	.35	.07	.13	.05	.0	5.60	.07
77/09/15 TO 77/09/21	7.26	.15	.03	.13	.03	.0	1.80	.21
77/09/21 TO 77/10/03	-----	.65	.05	.15	.02	.0	3.10	.30

PERIOD OF COLLECTION	FLUORIDE (F) (MG/L)	NITRATE (AS N) (MG/L)	AMMONIA (AS N) (MG/L)	PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICRO- (MHOS)	PH (UNITS)	ACIDITY (AS H) (MG/L)	LEAD (Pb) (UG/L)
76/10/12 TO 76/11/03	.1	.330	.313	.015	14	3.70	.165	13
76/11/03 TO 76/12/15	.1	.882	.461	.037	21	4.00	.122	17
76/12/15 TO 77/01/20	.1	1.070	.445	.038	29	4.00	.088	85
77/01/20 TO 77/02/10	.1	1.700	.385	.022	40	----	.121	150
77/02/10 TO 77/03/06	.1	1.020	.472	.019	40	4.30	.154	0
77/03/06 TO 77/03/29	.1	.424	.163	.010	16	4.55	.076	22
77/03/29 TO 77/04/26	.0	.410	.190	.005	23	4.20	.092	12
77/04/26 TO 77/05/26	.0	.650	1.900	----	24	5.00	.162	6
77/05/26 TO 77/06/28	.0	.560	.750	.048	45	4.00	.124	4
77/06/28 TO 77/07/25	.0	.570	.360	.016	60	3.60	.210	15
77/07/25 TO 77/08/15	.0	.790	.420	.013	65	3.60	.208	70
77/08/15 TO 77/09/15	.0	.610	.490	.004	58	3.90	.209	290
77/09/15 TO 77/09/21	.0	.270	.100	.006	23	4.20	.110	21
77/09/21 TO 77/10/03	.0	.320	.100	.011	35	4.15	.138	200

CHEMICAL QUALITY OF PRECIPITATION

SUSQUEHANNA RIVER BASIN

NEAR ATHENS, PA

LOCATION.--Lat 41°55'31", long 76°31'35", Bradford County, at National Weather Service station "Milan 1N," 300 feet west of U.S. Highways 220 and 309, 0.6 mi (1.0 km) west of the mouth of the Chemung River, 2.0 mi (3.2 km) south of Athens, and 5.1 mi (8.2 km) south of the New York-Pennsylvania State line.

PERIOD OF RECORD.--Water years 1966 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided polyethylene funnel approximately 6.5 in. (165 mm) in diameter which drains into a Teflon receiving bottle. A looped plastic tubing connects the funnel with the receiving bottle to retard evaporation. The polyethylene funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service station for the reported period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
76/10/03 TO 76/11/03	9.40	.30	.03	.09	.05	.0	1.50	.27
76/11/03 TO 76/12/03	2.40	.43	.17	.50	.45	10	2.30	1.00
76/12/03 TO 77/01/03	.77	11.9	2.80	2.30	.67	41	14.0	3.38
77/01/03 TO 77/02/03	.40	5.50	.90	5.50	2.50	2.0	27.0	9.09
77/02/03 TO 77/02/28	2.30	---	---	---	---	.0	5.20	2.25
77/02/28 TO 77/04/01	4.50	.70	.07	.25	.11	.0	2.50	.37
77/04/01 TO 77/05/01	2.50	.58	.17	.14	.15	.0	4.10	.50
77/05/01 TO 77/06/01	1.60	.98	.23	.23	.26	.0	4.70	1.20
77/06/01 TO 77/06/30	2.20	1.03	.23	.00	.34	.0	6.00	.64
77/06/30 TO 77/08/01	-----	.53	.10	.10	.21	.0	6.80	.34
77/08/01 TO 77/09/01	3.30	.38	.09	.17	.20	.0	5.10	.33
77/09/01 TO 77/10/03	7.50	.50	.10	.12	.16	2.0	4.00	.21

PERIOD OF COLLECTION	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	AMMONIA (NH4) (MG/L)	PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	ACIDITY (AS H) (MG/L)	LEAD (PB) (UG/L)
76/10/03 TO 76/11/03	.1	.337	.464	.017	18	4.50	.166	13
76/11/03 TO 76/12/03	.1	.662	1.640	.049	25	5.80	.073	8
76/12/03 TO 77/01/03	.1	1.010	2.900	.035	110	---	.138	2
77/01/03 TO 77/02/03	.1	2.750	4.970	.444	108	5.50	.443	30
77/02/03 TO 77/02/28	.1	2.390	1.380	.265	48	4.90	.178	---
77/02/28 TO 77/04/01	.1	.397	.622	.019	15	5.95	.055	14
77/04/01 TO 77/05/01	.2	.000	.710	.035	35	4.05	.108	3
77/05/01 TO 77/06/01	.0	.810	1.300	.075	34	3.15	.119	---
77/06/01 TO 77/06/30	.0	.610	1.150	.277	40	4.10	.112	9
77/06/30 TO 77/08/01	.0	.446	1.400	.078	44	4.00	.128	13
77/08/01 TO 77/09/01	.0	.560	1.300	.073	38	4.22	.110	30
77/09/01 TO 77/10/03	.0	.440	1.000	.029	28	4.55	.121	43

CHEMICAL QUALITY OF PRECIPITATION

525

ALLEGHENY RIVER BASIN

AT ALLEGANY STATE PARK, NY

LOCATION.--Lat 42°06'00", long 78°45'00", Cattaraugus County, at National Weather Service station "Allegheny State Park," 100 feet west of Park Administration Building, 300 feet west of Park Highway 1, and 6.0 mi (9.7 km) south of Salamanca.

PERIOD OF RECORD.--Water years 1966 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided polyethylene funnel approximately 6.5 in. (165 mm) in diameter which drains into a Teflon receiving bottle. A looped plastic tubing connects the funnel with the receiving bottle to retard evaporation. The polyethylene funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service station for the reported period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CAL- CIUM (CA) (MG/L)	MAGNE- SIUM (MG)	SODIUM (NA) (MG/L)	POTAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)
76/10/01 TO 76/11/04	5.35	.36	.04	.03	.55	.0	1.30	.35
76/11/04 TO 76/12/01	4.42	.64	.15	.11	.28	.0	1.80	.50
76/12/01 TO 77/01/03	2.55	2.40	.66	2.50	1.30	16	11.0	4.35
77/01/03 TO 77/03/02	3.34	.69	.11	.35	.15	.0	3.70	.75
77/03/02 TO 77/04/01	3.16	1.20	.18	.23	.08	.0	2.40	.30
77/04/01 TO 77/05/02	4.50	.74	.15	.12	.08	.0	3.70	1.03
77/05/02 TO 77/06/04	2.28	.92	.26	.09	.37	.0	6.40	1.20
77/06/04 TO 77/07/01	4.88	.56	.12	.00	.12	.0	3.80	.54
77/07/01 TO 77/08/01	11.42	.16	.01	.03	.06	.0	4.80	.23
77/08/01 TO 77/09/01	9.05	.28	.06	.15	.05	.0	4.40	.08
77/09/01 TO 77/09/20	E 6.63	.23	.04	.13	.04	.0	2.40	.15
77/09/20 TO 77/10/01	E 2.92	.69	.05	.20	.03	.0	3.50	.28

PERIOD OF COLLECTION	FLUO- RIDE (F) (MG/L)	NIT- RATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOS- PHORUS (P) (MG/L)	SPE- CIFIC DUCTANCE (MICRO- (MHUS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
76/10/01 TO 76/11/04	.1	.091	.021	.110	10	4.00	.127	3
76/11/04 TO 76/12/01	.1	.649	.384	.061	18	3.80	.201	10
76/12/01 TO 77/01/03	.1	2.620	4.580	.193	80	6.30	.156	30
77/01/03 TO 77/03/02	.1	1.310	.560	.158	52	4.25	.333	55
77/03/02 TO 77/04/01	.1	.573	.249	.015	19	5.20	.073	27
77/04/01 TO 77/05/02	.1	.440	.270	.006	33	4.00	.121	0
77/05/02 TO 77/06/04	.0	.660	.630	.059	50	3.70	.166	14
77/06/04 TO 77/07/01	.0	.350	.380	.025	49	3.80	.150	10
77/07/01 TO 77/08/01	.0	-----	-----	.026	46	3.80	.180	40
77/08/01 TO 77/09/01	.0	.440	.340	.006	47	4.00	.170	36
77/09/01 TO 77/09/20	.0	.330	.240	.012	36	4.07	.148	120
77/09/20 TO 77/10/01	.0	.450	.150	.006	37	4.18	.131	200

E Estimated.

CHEMICAL QUALITY OF PRECIPITATION

LAKE ONTARIO BASIN

AT MAYS POINT, NY

LOCATION.--Lat 42°59'55", long 76°45'45", Wayne County, at National Weather Service station "Mays Point Lock 25," at Erie (Barge) Canal and State Highway 89, and 6.2 mi (10.0 km) south of Savannah.

PERIOD OF RECORD.--Water years 1966 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided polyethylene funnel approximately 6.5 in. (165 mm) in diameter which drains into a Teflon receiving bottle. A looped plastic tubing connects the funnel with the receiving bottle to retard evaporation. The polyethylene funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service station for the reported period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIOD OF COLLECTION	INCHES OF PRECIPI- TATION	CAL- CIUM (CA) (MG/L)	MAGNE- SIUM (MG)	SODIUM (NA) (MG/L)	POTAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)
76/09/30 TO 76/10/31	5.23	.42	.06	.03	.03	.0	.80	.17
76/10/31 TO 76/11/30	.96	2.00	.41	.40	.10	.0	3.60	1.10
76/11/30 TO 76/12/30	E 1.50	.99	.20	.98	.09	.0	3.10	1.74
76/12/31 TO 77/01/31	.97	1.30	.25	2.20	.10	.0	17.0	3.08
77/01/31 TO 77/02/28	E 1.20	1.60	.25	1.50	.10	.0	4.30	1.70
77/02/28 TO 77/04/01	E 3.06	1.20	.17	.34	.07	.0	2.70	.53
77/04/01 TO 77/05/01	E 2.63	1.53	.36	.15	.10	.0	4.70	.50
77/05/01 TO 77/05/31	1.08	2.67	.66	.16	.27	.0	7.10	.51
77/06/01 TO 77/06/30	1.93	---	---	---	---	.0	8.80	.63
77/07/01 TO 77/08/01	2.52	1.19	.32	.13	.24	.0	8.40	.41
77/08/01 TO 77/08/31	5.56	.41	.13	.13	.08	.0	4.40	.08
77/09/01 TO 77/09/30	7.71	.36	.09	.55	.09	.0	2.60	.19

PERIOD OF COLLECTION	FLUO- RIDE (F) (MG/L)	NIT- RITE+ NIT- RATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOS- PHORUS (P) (MG/L)	SPE- CIFIC CON- DUCTANCE (MICRO- MHOS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
76/09/30 TO 76/10/31	.1	.426	.045	.012	18	3.40	.200	6
76/10/31 TO 76/11/30	.1	1.800	.460	.220	44	3.50	.141	22
76/11/30 TO 76/12/30	.1	1.280	.339	.005	40	3.60	.127	17
76/12/31 TO 77/01/31	.1	1.630	.041	.008	55	3.70	.148	30
77/01/31 TO 77/02/28	.1	1.930	.281	.015	65	4.25	.201	38
77/02/28 TO 77/04/01	.1	.585	.241	.017	20	5.20	.056	30
77/04/01 TO 77/05/01	.2	.680	.430	.023	32	4.25	.094	4
77/05/01 TO 77/05/31	.0	.870	.810	.067	34	5.25	.086	55
77/06/01 TO 77/06/30	.0	.710	1.710	.221	43	5.60	.107	5
77/07/01 TO 77/08/01	.0	.760	1.300	.104	49	3.90	.137	---
77/08/01 TO 77/08/31	.0	.530	.570	.037	42	4.05	.127	86
77/09/01 TO 77/09/30	.0	.340	.290	.007	24	4.38	.125	21

E Estimated.

CHEMICAL QUALITY OF PRECIPITATION

527

ST. LAWRENCE RIVER BASIN

NEAR CANTON, NY

LOCATION.--Lat 44°34'40", long 75°06'40", St. Lawrence County, at National Weather Service station "Canton 4SE," on the Canton State University Farm on State Highway 68, 2.5 mi (4.0 km) southeast of U.S. Highway 11 and Canton.

PERIOD OF RECORD.--Water years 1966 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided polyethylene funnel approximately 6.5 in. (165 mm) in diameter which drains into a Teflon receiving bottle. A looped plastic tubing connects the funnel with the receiving bottle to retard evaporation. The polyethylene funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service station for the reported period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
76/10/08 TO 76/11/05	5.51	.64	.13	.51	.08	.0	1.80	.35
76/11/05 TO 76/11/30	.75	2.10	.65	.25	2.60	16	3.20	1.85
76/11/30 TO 77/01/03	2.06	1.20	.45	.35	.13	4.0	3.10	.65
77/01/03 TO 77/02/04	1.83	1.10	.48	.83	.05	1.0	2.60	1.04
77/02/04 TO 77/03/02	.60	----	----	----	----	.0	7.40	.96
77/03/02 TO 77/04/01	3.52	.66	.27	.15	.09	5.0	1.80	.21
77/04/01 TO 77/05/02	2.69	1.54	.54	.16	.14	.0	4.60	1.10
77/05/02 TO 77/06/01	1.12	----	----	----	----	.0	----	----
77/06/01 TO 77/07/01	2.50	2.12	.80	.04	.73	.0	5.20	.54
77/07/01 TO 77/08/01	E 2.62	1.04	.36	.09	.34	.0	7.70	.30
77/08/01 TO 77/09/02	E 6.51	.44	.16	.14	.13	.0	3.30	.12
77/09/02 TO 77/10/03	7.17	.67	.18	.10	.05	.0	2.50	.26

PERIOD OF COLLECTION	FLUORIDE (F) (MG/L)	NITRATE+ NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
76/10/08 TO 76/11/05	.1	.291	.061	.010	15	3.80	.155	11
76/11/05 TO 76/11/30	.1	1.370	1.900	.245	45	5.00	.394	47
76/11/30 TO 77/01/03	.1	.978	.385	.015	21	4.90	.047	14
77/01/03 TO 77/02/04	.1	1.010	.212	.025	19	5.70	.046	10
77/02/04 TO 77/03/02	.6	3.210	1.130	.043	60	5.10	.103	---
77/03/02 TO 77/04/01	.1	.366	.214	.020	10	6.45	.055	22
77/04/01 TO 77/05/02	.0	.750	.600	.057	32	4.55	.097	13
77/05/02 TO 77/06/01	---	.390	.590	----	33	6.10	.136	38
77/06/01 TO 77/07/01	.0	.380	.500	.103	27	4.90	.094	2
77/07/01 TO 77/08/01	.0	1.000	.480	.085	51	3.90	.161	13
77/08/01 TO 77/09/02	.0	.330	.290	.042	31	4.15	.165	28
77/09/02 TO 77/10/03	.0	.440	.160	.019	25	4.40	.124	40

E Estimated.

CHEMICAL QUALITY OF PRECIPITATION

ST. LAWRENCE RIVER BASIN

NEAR CHAZY, NY

LOCATION.--Lat 44°53'15", long 73°28'01", Clinton County, at Cornell University meteorological station at William H. Miner Agriculture Research Institute, 0.1 mi (0.2 km) southeast of intersection of State Highway 191 and Ridge Road, and 1.4 mi (2.2 km) West of Chazy.

PERIOD OF RECORD.--Water years 1975 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in. (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the Cornell University meteorological station for the reported period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
76/10/01 TO 76/11/01	-----	.39	.04	.07	.03	.0	1.10	.26
76/11/01 TO 76/12/01	-----	1.10	.18	.28	.27	.0	1.90	.57
76/12/01 TO 77/01/04	-----	2.10	.25	.68	.13	.0	4.40	1.31
77/01/04 TO 77/02/05	-----	-----	-----	-----	-----	.0	-----	-----
77/02/05 TO 77/03/01	E 1.06	.62	.05	.53	.04	.0	2.40	.63
77/03/01 TO 77/04/01	-----	.71	.05	.16	.08	.0	2.00	.22
77/04/01 TO 77/04/30	1.70	1.15	.10	.24	.16	.0	2.80	.43
77/04/30 TO 77/06/01	-----	1.68	.26	.29	.40	.0	8.70	.61
77/06/01 TO 77/07/01	3.04	.83	.13	.08	.30	.0	5.20	.85
77/07/01 TO 77/08/01	2.62	.50	.07	.08	.14	.0	5.80	.26
77/08/01 TO 77/09/01	4.73	.28	.04	.12	.04	.0	2.60	.05
77/09/01 TO 77/10/01	7.55	.24	.05	.15	.03	.0	2.30	.22

PERIOD OF COLLECTION	FLUORIDE (F) (MG/L)	NITRATE RATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICRO- MMHOS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
76/10/01 TO 76/11/01	.1	.364	.142	.010	12	3.70	.171	6
76/11/01 TO 76/12/01	.1	1.400	.567	.020	37	4.30	.101	19
76/12/01 TO 77/01/04	.1	1.800	.660	.007	40	3.80	.096	20
77/01/04 TO 77/02/05	---	---	---	---	80	---	.207	---
77/02/05 TO 77/03/01	.1	1.020	.362	.014	33	4.40	.116	23
77/03/01 TO 77/04/01	.1	.664	.523	.008	20	5.00	.798	10
77/04/01 TO 77/04/30	.0	.530	.470	.000	16	4.75	.057	8
77/04/30 TO 77/06/01	.0	.900	.570	.012	64	3.60	.197	7
77/06/01 TO 77/07/01	.0	.470	.350	.012	47	3.80	.171	80
77/07/01 TO 77/08/01	.0	.840	.730	.013	55	3.80	.173	8
77/08/01 TO 77/09/01	.0	.320	.090	.001	35	4.10	.109	120
77/09/01 TO 77/10/01	.0	.340	.210	.002	28	4.18	.113	31

E Estimated.

GROUND-WATER LEVELS

529

ALBANY COUNTY

424114073495402. Local number, A 636.

LOCATION.--Lat 42°41'14", long 73°49'54", Hydrologic Unit 02020006, Fuller Road, Albany.

Owner: State University of New York at Albany.

AQUIFER.--Sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in. (0.15 m), depth 26 ft (7.9 m), cased to 22 ft (6.7 m), 2-in. (0.05-m) jet point (60-gauze screen 22 ft or 6.7 m to 26 ft or 7.9 m).

DATUM.--Altitude of land-surface datum is about 260 ft (79 m) above mean sea level. Measuring point: Top of casing, 2.40 ft (0.732 m) above land-surface datum.

REMARKS.--This well drilled May 1974 as a replacement for 424114073495401 (local number A 635), located 35 ft (10.7 m) north, which has a period of record from November 1965 to May 1974 (unpublished).

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for May 1974 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.18 ft (1.88 m) below land-surface datum, June 12, 1976; lowest, 9.72 ft (2.96 m) below land-surface datum, Sept. 20, 21, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
HIGHEST FOR THE DAY (FROM RECORDER GRAPH)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	8.74	8.03	8.16	8.67	.....	8.35	6.56	6.55	7.00	7.90	8.86	9.41
10	8.78	7.98	8.24	8.75	9.11	8.22	6.56	6.55	7.14	8.06	8.94	9.53
15	8.41	7.96	8.32	8.81	9.13	7.53	6.58	6.54	7.29	8.22	9.02	9.64
20	8.36	7.95	8.39	8.86	9.17	7.16	6.64	6.55	7.44	8.39	9.10	9.71
25	8.23	7.98	8.48	.....	9.19	6.99	6.69	6.60	7.58	8.57	9.19	9.64
EOM	8.08	8.05	8.57	8.99E	8.63	6.70	6.57	6.74	7.73	8.75	9.31	9.35

WTR YEAR 1977 HIGHEST 6.49 May 19, 1977 LOWEST 9.72 Sept. 20, 21, 1977

E Estimated.

BROOME COUNTY

420657075583501. Local number, Bm 121.

LOCATION.--Lat 42°06'57", long 75°58'35", Hydrologic Unit 02050103, at Camden and Main Streets, Johnson City.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in. (0.15 m), depth 53 ft (16.2 m), cased to 53 ft (16.2 m), open end.

DATUM.--Altitude of land-surface datum is about 835 ft (255 m) above mean sea level. Measuring point: Top of casing, 3.17 ft (0.966 m) above land-surface datum.

REMARKS.--Well cleaned from 46 ft (14.0 m), to original depth on Oct. 19, 1970. Water level affected by floods of Susquehanna River, and by pumping from municipal well field 1,100 ft (335 m) south.

PERIOD OF RECORD.--March 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.73 ft (2.97 m) below land-surface datum, Apr. 8, 1956; lowest, 33.47 ft (10.20 m) below land-surface datum, Sept. 23, 1965.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
HIGHEST FOR THE DAY (FROM RECORDER GRAPH)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	18.33	23.17	.....	27.37	28.12	28.23
10	20.11	23.63	.....	27.44	28.15	28.33
15	21.68	23.85	26.41	27.63	28.00	28.32
20	23.13	24.40	26.76	27.83	27.86	25.48
25	23.53	24.83	.....	27.96	27.90	20.46
EOM	18.70	22.30	25.04	27.19	28.03	28.20	18.50

WTR YEAR 1977 HIGHEST 16.06 Mar. 16, 1977 LOWEST 28.52 Sept. 14, 1977

GROUND-WATER LEVELS

CATTARAUGUS COUNTY

420530078445201. Local number, Ct 121.

LOCATION.--Lat 42°05'30", long 78°44'52", Hydrologic Unit 05010001, near Red House.

Owner: State Department of Environmental Conservation.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in. (0.15 m), depth 53 ft (16.2 m), cased to 53 ft (16.2 m), open end.

DATUM.--Altitude of land-surface datum is about 1,470 ft (448 m) above mean sea level. Measuring point: Top of casing, 0.30 ft (0.091 m) above land-surface datum.

REMARKS.--Unusually low water levels experienced since July 4, 1969. (Lowest previous measurement was 13.23 ft or 4.03 m, Feb. 1, 1961). Extreme low levels occur during late summer and fall months, with lower than normal levels prevalent throughout the year. A source of nearby pumping has not been determined.

PERIOD OF RECORD.--September 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 3.29 ft (1.00 m) below land-surface datum, Dec. 15, 1967; lowest measured 34.87 ft (10.62 m) below land-surface datum, Nov. 21, 1972.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1976	9.32	JAN. 28, 1977	5.33	APR. 22, 1977	24.92	JULY 15, 1977	11.57
OCT. 15	9.53	FEB. 4	5.72	APR. 29	21.52	JULY 22	11.44
OCT. 22	8.03	FEB. 11	6.80	MAY 6	15.23	JULY 29	11.49
NOV. 5	6.35	FEB. 18	15.98	MAY 13	14.52	AUG. 5	11.31
NOV. 19	5.22	FEB. 25	20.18	MAY 20	12.78	AUG. 12	10.17
NOV. 26	6.27	MAR. 4	23.02	MAY 27	11.99	AUG. 19	10.11
DEC. 3	5.49	MAR. 11	24.57	JUNE 3	12.05	AUG. 26	10.01
DEC. 10	4.88	MAR. 18	25.26	JUNE 10	11.31	SEP. 4	9.66
DEC. 31	4.71	MAR. 25	26.43	JUNE 17	11.43	SEP. 10	8.08
JAN. 7, 1977	4.56	APR. 1	26.72	JUNE 24	11.26	SEP. 16	8.19
JAN. 14	4.93	APR. 8	26.97	JULY 1	11.44	SEP. 23	9.10
JAN. 21	5.24	APR. 15	27.34	JULY 8	11.86	SEP. 30	9.09

CAYUGA COUNTY

424158076251901. Local number, Cy 7.

LOCATION.--Lat 42°41'58", long 76°25'19", Hydrologic Unit 04140201, near Moravia.

Owner: Earl Van Pelt.

AQUIFER.--Clayey gravel of Pleistocene age.

WELL CHARACTERISTICS.--Bored observation water-table well, diameter 2.5 in. (0.06 m), depth 28 ft (8.5 m), 1.25-in. (0.03-m) well point (60-gauze screen 26 ft or 7.9 m to 28 ft or 8.5 m).

DATUM.--Altitude of land-surface datum is about 765 ft (233 m) above mean sea level. Measuring point: Top of casing, 3.00 ft (0.914 m) above land-surface datum.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for December 1965 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.91 ft (3.63 m) below land-surface datum, June 26, 1972; lowest measured, 24.47 ft (7.46 m) below land-surface datum, Oct. 15, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1976	19.44	JAN. 7, 1977	18.63	APR. 8, 1977	16.89	JULY 6, 1977	20.56
OCT. 14	17.80	JAN. 14	18.88	APR. 15	17.52	JULY 11	19.82
OCT. 21	17.22	JAN. 22	18.98	APR. 18	17.64	JULY 22	20.94
OCT. 29	17.65	JAN. 28	18.42	APR. 29	17.12	JULY 25	20.70
NOV. 5	17.25	FEB. 4	19.11	MAY 4	17.30	AUG. 5	21.05
NOV. 11	17.63	FEB. 12	19.11	MAY 10	17.34	AUG. 12	18.95
NOV. 15	17.74	FEB. 18	18.44	MAY 18	17.47	AUG. 19	17.79
NOV. 23	17.87	FEB. 25	18.15	MAY 24	17.75	AUG. 26	17.69
DEC. 2	18.74	MAR. 3	16.49	MAY 31	18.91	SEP. 2	17.70
DEC. 6	18.74	MAR. 10	15.84	JUNE 7	20.03	SEP. 9	18.60
DEC. 13	18.24	MAR. 18	15.68	JUNE 18	20.42	SEP. 17	17.36
DEC. 22	18.08	MAR. 26	16.57	JUNE 20	20.14	SEP. 22	15.08
DEC. 29	18.08	APR. 2	16.17	JUNE 28	19.26	SEP. 29	15.82

GROUND-WATER LEVELS

531

CHAUTAUQUA COUNTY

420326079295801. Local number, Cu 5.

LOCATION.--Lat 42°03'26", long 79°29'58", Hydrologic Unit 05010002, near Panama.

Owner: State Department of Environmental Conservation.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 36 in. (0.91 m), depth 33 ft (10.1 m), stone-lined.

DATUM.--Altitude of land-surface datum is about 1,750 ft (533 m) above mean sea level. Measuring point: Top of 0.25-in. (0.006-m) steel-plate well cover, inside shelter door, 0.44 ft (0.134 m) below land-surface datum.

PERIOD OF RECORD.--May 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 0.95 ft (0.29 m) below land-surface datum, Dec. 26, 1968; lowest measured 9.41 ft (2.87 m) below land-surface datum, May 24, 1949.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 7, 1976	2.20	JAN. 13, 1977	2.70	APR. 14, 1977	2.60	JULY 14, 1977	2.85
OCT. 14	2.10	JAN. 20	2.85	APR. 21	2.80	JULY 21	2.95
OCT. 21	2.00	JAN. 27	3.00	APR. 28	2.95	JULY 28	3.00
OCT. 28	2.10	FEB. 3	3.10	MAY 5	3.05	AUG. 4	3.05
NOV. 4	2.25	FEB. 10	3.15	MAY 12	2.90	AUG. 11	3.00
NOV. 11	2.40	FEB. 17	3.20	MAY 19	3.10	AUG. 18	2.90
NOV. 18	2.50	FEB. 24	3.25	MAY 26	3.25	AUG. 25	2.80
NOV. 25	2.55	MAR. 3	2.90	JUNE 2	3.40	SEP. 1	2.90
DEC. 2	2.65	MAR. 10	2.75	JUNE 9	3.20	SEP. 8	2.80
DEC. 9	2.70	MAR. 17	2.60	JUNE 16	3.10	SEP. 15	2.60
DEC. 16	2.75	MAR. 24	2.50	JUNE 23	3.00	SEP. 22	2.30
DEC. 23	2.80	MAR. 31	2.50	JUNE 30	2.95	SEP. 29	2.10
JAN. 6, 1977	2.65	APR. 7	2.35	JULY 7	2.90		

420815079121401. Local number, Cu 10.

LOCATION.--Lat 42°08'15", long 79°12'14", Hydrologic Unit 05010002, at Falconer.

Owner: City of Jamestown.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 10 in. (0.25 m), depth 232 ft (70.7 m), slotted 130 ft (39.6 m) to 144 ft (43.9 m).

DATUM.--Altitude of land-surface datum is 1,248.45 ft (380.528 m) above mean sea level. Measuring point: Top of flange, 5.00 ft (1.524 m) above land-surface datum.

REMARKS.--Water level affected by pumping (average 5 mgal/d or 18,900 m³/d in 1977) from municipal well field.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for November 1939 to September 1943, August 1948 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.2 ft (1.6 m) above land-surface datum, Mar. 14, 1942; lowest, 66.6 ft (20.3 m) below land-surface datum, Nov. 3, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
WEEKLY HIGHEST (FROM RECORDER GRAPH)

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1976	36.0 E	JAN. 21, 1977	26.1 E	MAY 6, 1977	29.2 E	AUG. 3, 1977	34.30
8	36.4 E	28	28.0 E	13	30.2 E	12	30.6 E
15	35.02	FEB. 18	28.8 E	19	26.13	19	29.1 E
18	34.46	25	27.06	27	27.2 E	26	27.33
27	32.03	MAR. 14	24.9	JUN. 3	28.8 E	SEP. 2	26.6 E
NOV. 1	31.0 E	22	21.91	11	29.66		
8	28.89	29	21.29	17	36.23		
18	27.80	APR. 5	21.48	27	33.94		
24	26.7 E	10	21.38	JUL. 8	34.76		
DEC. 2	25.4 E	17	22.70	15	33.6 E		
16	25.0 E	29	22.3 E	22	33.8 E		

WTR YEAR 1977 HIGHEST 21.29 Mar. 29, 1977 LOWEST 38.90 June 24, 1977

E Estimated.

GROUND-WATER LEVELS

CHEMUNG COUNTY

420829076484801. Local number, Cm 46.

LOCATION.--Lat 42°08'29", long 76°48'48", Hydrologic Unit 02050105, near Horseheads.

Owner: Milton A. Roy.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in. (0.15 m), depth 34 ft (10.4 m), cased to 34 ft (10.4 m), open end.

DATUM.--Altitude of land-surface datum is about 880 ft (268 m) above mean sea level. Measuring point: Top of extended casing 3.35 ft (1.021 m) above land-surface datum.

REMARKS.--Water level affected by floods of Newton Creek.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for October 1955 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.93 ft (5.77 m) below land-surface datum, Apr. 25, 1961; lowest measured, 25.73 ft (7.84 m) below land-surface datum, Aug. 24, 1974.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1976	25.42	JAN. 8, 1977	24.94	APR. 9, 1977	23.90	JULY 9, 1977	25.08
OCT. 9	24.62	JAN. 15	25.00	APR. 16	24.18	JULY 16	25.28
OCT. 16	24.24	JAN. 22	25.04	APR. 23	23.98	JULY 23	25.39
OCT. 23	23.45	JAN. 29	25.20	APR. 30	24.18	JULY 29	25.43
OCT. 30	23.80	FEB. 5	25.30	MAY 7	23.98	AUG. 6	25.21
NOV. 13	24.18	FEB. 12	25.30	MAY 14	24.10	AUG. 13	25.28
NOV. 20	24.40	FEB. 19	25.00	MAY 21	24.42	AUG. 19	25.20
NOV. 27	24.52	FEB. 26	23.72	MAY 28	24.62	AUG. 27	25.30
DEC. 4	24.65	MAR. 5	23.29	JUNE 4	24.80	SEP. 5	25.35
DEC. 11	24.45	MAR. 12	24.02	JUNE 12	24.85	SEP. 10	25.42
DEC. 21	24.68	MAR. 19	23.89	JUNE 19	24.93	SEP. 17	24.22
DEC. 25	24.80	MAR. 26	23.72	JUNE 26	25.00	SEP. 24	24.64
JAN. 1, 1977	24.89	APR. 2	23.64	JULY 2	25.12		

CHENANGO COUNTY

421556075281602. Local number, Cn 12.

LOCATION.--Lat 42°15'56", long 75°28'16", Hydrologic Unit 02050101, near Bainbridge.

Owner: Ilse Maehlman.

AQUIFER.--Gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in. (0.15 m), depth 13 ft (4.0 m), cased to 13 ft (4.0 m), gravel-packed, open end.

DATUM.--Altitude of land-surface datum is about 980 ft (299 m) above mean sea level. Measuring point: Filemark at top of flange, 1.33 ft (0.405 m) above land-surface datum.

REMARKS.--This well drilled April 1974 as a replacement for 421556075281601 (local number Cn 11), located 90 ft (27.4 m) north, which has a period of record from October 1965 to September 1972 (unpublished).

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for April 1975 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.88 ft (1.18 m) below land-surface datum, Oct. 21, 1975; lowest, 10.92 ft (3.33 m) below land-surface datum, Aug. 26, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
HIGHEST FOR THE DAY (FROM DIGITAL RECORDER)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	10.00	8.26	9.81	9.85	10.13	6.79	6.79	8.50	9.74	9.96	10.22	10.51
10	5.41	8.88	9.11	9.87	10.15	6.76	7.57	9.09	9.82	10.22	10.41	10.34
15	4.89	9.27	9.24	9.93	9.93	6.79	8.84	9.23	9.83	10.22	10.33	10.75
20	8.02	9.52	9.55	10.00	9.76	6.79	9.40	9.42	9.87	10.44	10.55	7.14
25	5.21	9.67	9.69	10.06	8.85	6.97	9.28	9.56	9.84	10.47	10.88	6.84
EOM	7.19	9.77	9.80	10.10	6.80	6.79	7.39	9.63	9.90	9.95	10.76	6.84

WTR YEAR 1977 HIGHEST 4.00 Oct. 12, 1976 LOWEST 10.92 Aug. 26, 1977

GROUND-WATER LEVELS

533

DUTCHESS COUNTY

414737073563301. Local number, Du 321.

LOCATION.--Lat 41°47'37", long 73°56'33", Hydrologic Unit 02020008, near Hyde Park.

Owner: U.S. National Park Service.

AQUIFER.--Shale of Ordovician age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in. (0.15 m), depth 128 ft (39.0 m), open hole.

DATUM.--Altitude of land-surface datum is about 170 ft (52 m) above mean sea level. Measuring point: Top of casing, 3.10 ft (0.944 m) above land-surface datum.

REMARKS.--Water level affected by earth tides (approximately 0.05 ft or 0.015 m).

PERIOD OF RECORD.--September 1948 to April 1950, April 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 65.62 ft (20.00 m) below land-surface datum, June 22, 1953; lowest, 73.85 ft (22.51 m) below land-surface datum, Sept. 13, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
HIGHEST FOR THE DAY (FROM RECORDER GRAPH)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	68.38	.....	.....	.....	.....	.....	67.08	66.84	67.18	.....	68.41	68.65
10	68.12	.....	.....	.....	.....	.....	67.26	66.62	67.16	67.82	68.39	68.75
15	.....	.....	.....	.....	.....	.....	67.09	66.74	67.40	68.02	68.41	68.83
20	.....	.....	.....	.....	.....	.....	67.12	66.84	67.35	68.08	68.41	68.58
25	.....	.....	.....	.....	.....	.....	66.77	66.91	67.52	68.26	68.45	68.51
EOM	.....	.....	.....	.....	.....	.....	66.87	66.99	67.58	68.49	68.62	68.43

WTR YEAR 1977 HIGHEST 66.62 May 10, 1977 LOWEST 68.95 Sept. 16, 1977

414128073475201. Local number, Du 1009.

LOCATION.--Lat 41°41'28", long 73°47'52", Hydrologic Unit 02020008, James Baird State Park, near Pleasant Valley.

Owner: James Baird State Park.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Bored observation water-table well, diameter 2.5 in. (0.06 m), depth 27 ft (8.2 m), 1.25-in.

(0.03-m) well point (60-gauze screen 25 ft or 7.6 m to 27 ft or 8.2 m).

DATUM.--Altitude of land-surface datum is about 330 ft (101 m) above mean sea level. Measuring point: Top of casing, 2.10 ft (0.640 m) above land-surface datum.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for October 1965 to April 1969, June 1971 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.92 ft (3.63 m) below land-surface datum, Sept. 14, 1971; lowest measured, 20.60 ft (6.28 m) below land-surface datum, Nov. 24, 1965.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1976	15.96	JAN. 10, 1977	16.31	APR. 18, 1977	13.03	JULY 18, 1977	17.34
OCT. 18	13.84	JAN. 24	16.79	APR. 25	13.34	JULY 26	17.77
OCT. 25	14.19	JAN. 31	17.06	MAY 2	13.36	AUG. 1	18.03
NOV. 1	13.99	FEB. 14	17.02	MAY 11	13.37	AUG. 9	18.29
NOV. 8	14.02	FEB. 21	16.93	MAY 16	13.30	AUG. 15	18.05
NOV. 15	14.43	FEB. 28	14.64	MAY 31	13.40	AUG. 22	18.76
NOV. 22	14.04	MAR. 8	13.10	JUNE 7	15.21	AUG. 30	19.00
NOV. 29	15.62	MAR. 14	12.92	JUNE 13	15.52	SEP. 5	19.20
DEC. 13	15.64	MAR. 21	12.72	JUNE 21	15.89	SEP. 12	19.39
DEC. 21	15.74	MAR. 28	12.02	JUNE 27	16.19	SEP. 19	19.53
DEC. 27	15.89	APR. 4	12.37	JULY 11	16.99	SEP. 26	19.42
JAN. 3, 1977	16.17	APR. 11	12.48				

GROUND-WATER LEVELS

DUTCHESS COUNTY

414857073460501. Local number, Du 1010.

LOCATION.--Lat 41°48'57", long 73°46'05", Hydrologic Unit 02020008, near Hibernia.

Owner: Manuel Matri.

AQUIFER.--Gravel of Pleistocene age.

WELL CHARACTERISTICS.--Bored observation water-table well, diameter 2.5 in. (0.06 m), depth 21 ft (6.4 m), 1.25-in. (0.03-m) well point (60-gauze screen 19 ft or 5.8 m to 20 ft or 6.1 m).

DATUM.--Altitude of land-surface datum is about 250 ft (76 m) above mean sea level. Measuring point: Top of extended casing, 2.90 ft (0.883 m) above land-surface datum.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for November 1965 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.88 ft (2.09 m) below land-surface datum, Mar. 30, 1977; lowest, 12.52 ft (3.82 m) below land-surface datum, Aug. 27, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
HIGHEST FOR THE DAY (FROM RECORDER GRAPH)

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 7, 1976	9.60	JAN. 10, 1977	11.51	MAY 31, 1977	11.22	JULY 31, 1977	12.10
OCT. 10	9.16	JAN. 15	11.52	JUNE 5	11.50	AUG. 5	11.90
OCT. 15	9.65	FEB. 1	11.40	JUNE 10	11.41	AUG. 10	12.00
OCT. 20	10.08	MAR. 16	7.63	JUNE 15	11.47	AUG. 15	11.90
OCT. 25	10.15	MAR. 30	6.88	JUNE 20	11.60	AUG. 20	12.02
NOV. 15	10.67	APR. 13	9.00	JUNE 25	11.68	AUG. 25	12.27
NOV. 20	10.87	APR. 20	10.03	JUNE 30	11.76	AUG. 31	12.33
NOV. 25	11.14	APR. 25	9.46	JULY 5	11.85	SEP. 5	12.40
NOV. 30	11.22	MAY 2	9.99	JULY 10	11.99	SEP. 10	12.40
DEC. 21	11.05	MAY 10	9.34	JULY 15	11.98	SEP. 15	12.45
DEC. 25	11.11	MAY 15	9.50	JULY 20	11.95	SEP. 20	12.20
DEC. 31	11.25	MAY 20	10.36	JULY 25	12.10	SEP. 25	11.65
JAN. 5, 1977	11.41	MAY 25	10.80				
WTR YEAR 1977		HIGHEST 6.88 Mar. 30, 1977		LOWEST 12.46 Sept. 15, 1977			

GENESEE COUNTY

425516078032001. Local number, Gs 2.

LOCATION.--Lat 42°55'16", long 78°03'20", Hydrologic Unit 04130003, near Pavilion.

Owner: Angeline C. Rigoni.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 36 in. (0.91 m), depth 21 ft (6.4 m) stone-lined.

DATUM.--Altitude of land-surface datum is about 1,030 ft (314 m) above mean sea level. Measuring point: Painted arrow on top edge of concrete well cover, inside shelter door, 1.12 ft (0.341 m) above land-surface datum.

PERIOD OF RECORD.--September 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 0.10 ft (0.03 m) below land-surface datum, May 14, 1960, Feb. 28, 1971, and Feb. 13, 1976; lowest measured 6.55 ft (2.00 m) below land-surface datum, Feb. 11, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1976	1.32	JAN. 15, 1977	1.97	APR. 16, 1977	1.22	JULY 11, 1977	1.08
OCT. 12	.79	JAN. 22	2.25	APR. 23	.55	JULY 16	1.11
OCT. 16	.74	JAN. 29	2.50	APR. 30	.98	JULY 23	1.66
OCT. 23	.52	FEB. 1	2.65	MAY 7	1.11	JULY 30	1.95
NOV. 13	1.01	FEB. 5	2.73	MAY 14	1.50	AUG. 6	.63
NOV. 20	1.24	FEB. 12	.86	MAY 21	1.84	AUG. 13	.72
NOV. 27	1.43	FEB. 19	.32	MAY 28	2.14	AUG. 20	.97
DEC. 4	1.54	MAR. 5	.11	JUNE 4	2.41	AUG. 27	.88
DEC. 11	.77	MAR. 12	.31	JUNE 11	2.69	SEP. 3	1.30
DEC. 18	1.23	MAR. 19	.77	JUNE 18	2.71	SEP. 10	1.17
DEC. 23	.99	MAR. 26	.54	JUNE 25	2.54	SEP. 17	.65
DEC. 30	1.06	APR. 2	.67	JULY 2	2.23	SEP. 24	.71
JAN. 8, 1977	1.66	APR. 9	.90				

GREENE COUNTY

422319073482001. Local number, G 1.

LOCATION.--Lat 42°23'19", long 73°48'20", Hydrologic Unit 02020006, near West Coxsackie.

Owner: Fred Kropp.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug domestic water-table well, diameter 36 in. (0.91 m), depth 19 ft (5.8 m), tile-lined to 2 ft (0.6 m), stone-lined to 19 ft (5.8 m).

DATUM.--Altitude of land-surface datum is about 130 ft (40 m) above mean sea level. Measuring point: Chiseled square on top of inner step on curb, 0.18 ft (0.055 m) below land-surface datum.

PERIOD OF RECORD.--December 1945 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 1.07 ft (0.33 m) below land-surface datum, Mar. 15, 1962; lowest measured 15.56 ft (4.74 m) below land-surface datum, Feb. 27, 1963.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1976	4.10	DEC. 31, 1976	6.23	APR. 4, 1977	3.58	JULY 4, 1977	4.86
OCT. 4	3.93	JAN. 8, 1977	6.59	APR. 11	3.28	JULY 11	5.27
OCT. 17	4.01	JAN. 15	6.77	APR. 18	3.84	JULY 18	4.95
OCT. 22	3.04	JAN. 22	7.45	APR. 25	2.51	JULY 25	5.33
OCT. 29	3.38	JAN. 29	7.98	MAY 2	3.44	AUG. 1	5.45
NOV. 5	3.18	FEB. 5	8.85	MAY 10	2.06	AUG. 8	5.61
NOV. 12	3.57	FEB. 12	8.46	MAY 16	3.40	AUG. 15	4.54
NOV. 19	3.85	FEB. 19	8.39	MAY 23	3.83	AUG. 22	3.91
NOV. 26	4.47	FEB. 28	5.36	MAY 30	4.41	AUG. 29	4.53
DEC. 4	4.20	MAR. 7	3.69	JUNE 6	5.20	SEP. 6	4.78
DEC. 10	3.83	MAR. 14	2.41	JUNE 13	4.18	SEP. 13	5.89
DEC. 18	5.28	MAR. 21	3.38	JUNE 20	4.28	SEP. 20	2.68
DEC. 25	5.55	MAR. 28	2.90	JUNE 27	4.52	SEP. 27	2.59

HAMILTON COUNTY

432832074122201. Local number, H 3.

LOCATION.--Lat 43°28'32", long 74°12'22", Hydrologic Unit 02020002, near Griffin.

Owner: F. B. Girard.

AQUIFER.--Sand of Pleistocene age.

WELL CHARACTERISTICS.--Bored observation water-table well, diameter 2.5 in. (0.06 m), depth 16 ft (4.9 m), filled in from original depth of 19 ft (5.8 m), 1.25-in. (0.03-m) well point (60-gauze screen 16 ft or 4.9 m to 19 ft or 5.8 m, damaged during well installation).

DATUM.--Altitude of land-surface datum is about 1,290 ft (393 m) above mean sea level. Measuring point: Top of casing, 2.30 ft (0.701 m) above land-surface datum.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for November 1965 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.83 ft (2.69 m) below land-surface datum, June 27, 1972; lowest measured, 15.44 ft (4.71 m) below land-surface datum, Oct. 21, 1969.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 18, 1976	11.66	MAR. 7, 1977	13.30	JUNE 2, 1977	12.14	AUG. 22, 1977	14.48
DEC. 7	11.69	MAR. 17	10.09	JULY 11	13.50	SEP. 7	14.62
FEB. 7, 1977	13.25	APR. 14	9.85				

MADISON COUNTY

430056075354102. Local number, M 178.

LOCATION.--Lat 43°00'56", long 75°35'41", Hydrologic Unit 04140202, at Valley Mills.

Owner: Donald L. Greene.

AQUIFER.--Gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in. (0.15 m), depth 16 ft (4.9 m), cased to 16 ft (4.9 m), open end.

DATUM.--Altitude of land-surface datum is about 575 ft (175 m) above mean sea level. Measuring point: Top of flange, 3.10 ft (0.945 m) above land-surface datum.

REMARKS.--This well drilled April 1974 as a replacement for 430056075354101 (local number M 177), located 10 ft (3.0 m) west, which has a period of record from October 1965 to September 1973 (unpublished).

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for April 1975 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.17 ft (0.97 m) below land-surface datum, Mar. 29, 1977; lowest, 10.01 ft (3.05 m) below land-surface datum, Sept. 13, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
HIGHEST FOR THE DAY (FROM DIGITAL RECORDER)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	8.16	6.43	7.53	.....	.....	.....	4.91	6.37	8.66	9.46	9.72	9.89
10	4.81	6.81	7.04	.....	.....	.....	5.56	6.84	8.86	9.55	9.68	9.95
15	5.24	6.58	7.28	.....	.....	3.79	6.25	7.30	9.01	9.59	9.58	9.78
20	5.89	6.69	7.52	.....	.....	4.96	6.87	7.72	9.15	9.39	9.69	7.68
25	5.44	7.07	.....	.....	.....	5.25	5.03	8.04	9.23	9.54	9.77	6.13
EUM	6.06	7.32	.....	.....	.....	3.72	5.61	8.44	9.34	9.65	9.84	5.88

WTR YEAR 1977 HIGHEST 3.17 Mar. 29, 1977 LOWEST 10.01 Sept. 13, 1977

GROUND-WATER LEVELS

MONTGOMERY COUNTY

430141074423501. Local number, Mt 1.

LOCATION.--Lat 43°01'41", long 74°42'35", Hydrologic Unit 02020004, near St. Johnsville:

Owner: Marion G. Groff.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 24 in. (0.61 m), depth 12 ft (3.7 m), stone-lined. DATUM.--Altitude of land-surface datum is about 710 ft (216 m) above mean sea level. Measuring point: Top edge of limestone slab at northeast corner of well opening, at land-surface datum.

PERIOD OF RECORD.--October 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 3.74 ft (1.14 m) below land-surface datum, Apr. 10, 1971; lowest measured 9.99 ft (3.04 m) below land-surface datum, Aug. 28, 1949.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1976	7.36	JAN. 8, 1977	7.81	APR. 2, 1977	4.44	JULY 9, 1977	7.86
OCT. 12	6.26	FEB. 16	8.28	APR. 9	5.22	JULY 21	7.81
OCT. 20	6.54	FEB. 25	8.13	MAY 18	6.42	AUG. 16	7.97
OCT. 30	6.18	MAR. 5	7.13	JUNE 1	7.08	AUG. 30	7.74
NOV. 11	6.23	MAR. 9	6.55	JUNE 17	7.54	SEP. 16	7.66
NOV. 27	6.84	MAR. 12	5.84	JUNE 24	7.27	SEP. 28	5.36
DEC. 15	6.80	MAR. 26	5.43				

NIAGARA COUNTY

430655079022001. Local number, Ni 69.

LOCATION.--Lat 43°06'55", long 79°02'20", Hydrologic Unit 04120104, 20th Street and Beech Avenue, Niagara Falls.

Owner: City of Niagara Falls.

AQUIFER.--Lockport Dolomite of Middle Silurian age.

WELL CHARACTERISTICS.--Drilled observation artesian and water-table well, diameter 8 in. (0.20 m) to 6 in. (0.15 m), depth 36 ft (11.0 m), cased 8-in. (0.20-m) 0 ft (0.0 m) to 17 ft (5.2 m), open hole 6-in. (0.15-m), 17 ft (5.2 m) to 36 ft (11.0 m).

DATUM.--Altitude of land-surface datum is 596.21 ft (181.725 m) above mean sea level (Uhl, Hall, and Rich levels using U.S. Lake Survey datum). Measuring point: Top of 2-in. (0.05 m) opening in 6 in. (0.15 m) plug of 8 in. (0.20 m) extended casing, 3.60 ft (1.097 m) above land-surface datum.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for October 1958 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.40 ft (5.00 m) below land-surface datum, Mar. 31, Apr. 1, 1960; lowest measured, 22.21 ft (6.77 m) below land-surface datum, Aug. 3, 1959.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1976	20.95	DEC. 27, 1976	20.90	MAY 2, 1977	18.50	JULY 18, 1977	20.70
OCT. 12	20.90	JAN. 4, 1977	21.05	MAY 9	19.26	JULY 25	20.85
OCT. 18	20.93	JAN. 10	20.84	MAY 16	19.50	AUG. 1	21.00
OCT. 25	20.92	FEB. 28	20.32	MAY 23	19.77	AUG. 8	20.97
NOV. 1	20.86	MAR. 7	19.34	MAY 31	20.06	AUG. 15	20.90
NOV. 8	20.78	MAR. 14	18.33	JUNE 6	20.40	AUG. 22	20.77
NOV. 15	20.90	MAR. 21	19.33	JUNE 13	20.58	AUG. 29	20.57
NOV. 22	20.98	MAR. 28	18.26	JUNE 20	20.68	SEP. 6	20.55
NOV. 29	21.06	APR. 4	18.63	JUNE 27	20.69	SEP. 12	20.70
DEC. 6	21.04	APR. 11	18.83	JULY 5	20.75	SEP. 19	19.48
DEC. 13	21.00	APR. 18	19.28	JULY 11	20.68	SEP. 26	18.10
DEC. 20	20.80	APR. 25	17.60				

GROUND-WATER LEVELS

537

NIAGARA COUNTY

431308078544501. Local number, Ni 70.

LOCATION.--Lat 43°13'08", long 78°54'45", Hydrologic Unit 04130001, near Ransomville.

Owner: Calvin C. Schultz.

AQUIFER.--Sand of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 4 ft (1.2 m) to 5 ft (1.5 m) (reported), depth 24 ft (7.3 m).

DATUM.--Altitude of land-surface datum is about 335 ft (102 m) above mean sea level. Measuring point: Top of 1-in. (0.02-m) hole in steel cover, at land-surface datum.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for August 1972 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.33 ft (0.40 m) below land-surface datum, Mar. 5, 1977; lowest measured, 9.91 ft (3.02 m) below land-surface datum, Nov. 9, 1974.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1976	7.15	JAN. 1, 1977	5.82	APR. 2, 1977	2.10	JULY 2, 1977	7.26
OCT. 10	7.24	JAN. 8	5.83	APR. 9	2.14	JULY 9	7.58
OCT. 17	7.02	JAN. 15	5.86	APR. 19	3.11	JULY 16	7.71
OCT. 24	6.83	JAN. 22	5.81	APR. 23	2.18	JULY 23	8.03
OCT. 30	6.64	JAN. 29	5.76	APR. 30	2.52	JULY 30	8.37
NOV. 7	6.08	FEB. 5	5.69	MAY 7	3.38	AUG. 7	8.80
NOV. 13	5.97	FEB. 12	5.53	MAY 14	4.28	AUG. 13	9.08
NOV. 21	6.00	FEB. 18	4.95	MAY 21	4.71	AUG. 20	9.34
NOV. 27	5.96	FEB. 26	3.82	MAY 28	5.58	AUG. 27	9.55
DEC. 4	5.93	MAR. 5	1.33	JUNE 4	5.96	SEP. 3	9.75
DEC. 11	5.94	MAR. 12	1.74	JUNE 12	6.36	SEP. 10	9.86
DEC. 19	5.82	MAR. 19	2.11	JUNE 19	6.71	SEP. 17	9.21
DEC. 26	5.80	MAR. 26	2.00	JUNE 25	7.04	SEP. 24	7.26

ONEIDA COUNTY

433112075091501. Local number, Oe 151.

LOCATION.--Lat 43°31'12", long 75°09'15", Hydrologic Unit 04150101, at Woodgate.

Owner: Henry Rubyor.

AQUIFER.--Glacial sand of Pleistocene age.

WELL CHARACTERISTICS.--Dug domestic water-table well, diameter 36 in. (0.91 m), depth 31 ft (9.4 m), stone-lined.

DATUM.--Altitude of land-surface datum is 1,484.94 ft (452.609 m) above mean sea level. Measuring point: Top of 2-ft (0.6-m) square concrete well cover at midpoint of south side of rectangular opening, 1.00 ft (0.305 m) above land-surface datum.

PERIOD OF RECORD.--July 1926 to August 1945, October 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 11.43 ft (3.48 m) below land-surface datum, Apr. 3, 1976; lowest measured 30.31 ft (9.24 m) below land-surface datum, Feb. 25, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1976	25.57	JAN. 1, 1977	22.60	APR. 9, 1977	15.21	JULY 9, 1977	23.26
OCT. 9	26.40	JAN. 8	22.95	APR. 16	15.38	JULY 16	24.12
OCT. 16	25.34	JAN. 15	22.98	APR. 23	15.61	JULY 23	25.15
OCT. 23	24.62	JAN. 22	23.57	APR. 30	14.88	JULY 30	24.85
OCT. 30	23.48	JAN. 29	23.78	MAY 7	15.85	AUG. 6	25.14
NOV. 6	21.78	FEB. 5	24.64	MAY 14	16.85	AUG. 13	25.57
NOV. 13	21.31	FEB. 12	25.11	MAY 21	17.80	AUG. 20	25.11
NOV. 20	21.34	FEB. 19	25.32	MAY 28	18.68	AUG. 27	25.90
NOV. 29	21.99	FEB. 26	25.81	JUNE 4	20.05	SEP. 3	25.03
DEC. 4	22.23	MAR. 5	26.32	JUNE 11	20.53	SEP. 10	25.63
DEC. 11	22.22	MAR. 12	26.26	JUNE 18	21.14	SEP. 17	25.92
DEC. 18	21.99	MAR. 19	17.09	JUNE 25	22.00	SEP. 24	24.54
DEC. 25	22.03	APR. 2	16.35	JULY 2	22.86		

GROUND-WATER LEVELS

ONEIDA COUNTY

433012075134202. Local number, Oe 766.

LOCATION.--Lat 43°30'12", long 75°13'42", Hydrologic Unit 04150101, near Hawkinsville.

Owner: New York State Department of Environmental Conservation.

AQUIFER.--Sand of Pleistocene age.

WELL CHARACTERISTICS.--Driven-washed observation water-table well, diameter 6 in. (0.15 m), depth 33 ft (10.1 m), cased to 33 ft (10.1 m), open end.

DATUM.--Altitude of land-surface datum is 1,190.22 ft (362.779 m) above mean sea level. Measuring point: Top of nipple inside flange, 3.37 ft (1.027 m) above land-surface datum.

REMARKS.--This well driven-washed November 1968 as a replacement for 433012075134201 (local number Oe 765), located 15 ft (4.6 m) east, which has a period of record from November 1965 to November 1968 (unpublished).

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for November 1968 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.87 ft (4.53 m) below land-surface datum, May 21, 1972; lowest, 23.49 ft (7.16 m) below land-surface datum, Apr. 10, 11, 1970.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
HIGHEST FOR THE DAY (FROM RECORDER GRAPH)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	20.81	21.17	20.25	.....	21.01	21.47	19.44	.....	.....	19.26	.....	.....
10	20.92	20.94	20.29	.....	21.10	21.56	18.84	.....	.....	19.47	20.53	.....
15	21.04	20.70	20.36	.....	21.22	21.61	18.24	.....	.....	19.71	20.66	21.37
20	21.14	20.51	20.45	.....	.....	.....	17.90	17.53	18.65	19.89	20.79	21.44
25	21.21	20.37	20.56	.....	.....	20.67	17.65	17.73	18.87	20.05	.....	21.53
EOY	21.27	20.28	20.59	20.94	.....	19.87	17.56	17.94	19.04	.....	.....	21.58
WTR YEAR 1977				HIGHEST	17.43	May 17, 1977	LOWEST	21.62	Mar. 15, 1977			

ONTARIO COUNTY

425840077133901. Local number, Ot 900.

LOCATION.--Lat 42°58'40", long 77°13'39", Hydrologic Unit 04140201, at New York State Thruway Interchange 43, near Manchester.

Owner: State Thruway Authority.

AQUIFER.--Camillus Shale of the Salina Group of Late Silurian age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in. (0.15 m), depth 139 ft (42.4 m), cased to 11 ft (3.4 m), open hole.

DATUM.--Altitude of land-surface datum is about 555 ft (169 m) above mean sea level. Measuring point: Top of casing, 11.43 ft (3.484 m) above land-surface datum.

PERIOD OF RECORD.--May 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 11.14 ft (3.40 m) above land-surface datum, Mar. 15, 1976; lowest measured 4.59 ft (1.40 m) above land-surface datum, Nov. 11, 1957.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1976	+ 8.97	JAN. 3, 1977	+ 9.22	APR. 4, 1977	+ 10.17	JULY 4, 1977	+ 8.62
OCT. 11	+ 9.07	JAN. 10	+ 9.47	APR. 11	+ 10.20	JULY 11	+ 8.60
OCT. 18	+ 9.38	JAN. 17	+ 9.16	APR. 18	+ 10.11	JULY 18	+ 8.47
OCT. 25	+ 9.94	JAN. 24	+ 9.16	APR. 25	+ 10.18	JULY 25	+ 8.47
NOV. 1	+ 10.03	JAN. 31	+ 9.16	MAY 2	+ 10.20	AUG. 1	+ 8.23
NOV. 8	+ 10.15	FEB. 7	+ 9.16	MAY 9	+ 10.16	AUG. 8	+ 8.21
NOV. 15	+ 10.09	FEB. 14	+ 8.91	MAY 16	+ 9.95	AUG. 15	+ 8.18
NOV. 22	+ 10.08	FEB. 21	+ 9.08	MAY 23	+ 9.75	AUG. 22	+ 8.38
NOV. 29	+ 9.82	FEB. 28	+ 9.19	MAY 30	+ 9.57	AUG. 29	+ 8.29
DEC. 6	+ 9.58	MAR. 7	+ 9.73	JUNE 6	+ 9.48	SEP. 5	+ 8.27
DEC. 13	+ 9.37	MAR. 14	+ 9.96	JUNE 13	+ 9.06	SEP. 12	+ 8.08
DEC. 20	+ 9.75	MAR. 21	+ 9.98	JUNE 20	+ 9.06	SEP. 19	+ 8.41
DEC. 27	+ 9.48	MAR. 28	+ 10.23	JUNE 27	+ 8.89	SEP. 26	+ 9.09

GROUND-WATER LEVELS

539

ORANGE COUNTY

411933074150801. Local number, O 104.

LOCATION.--Lat 41°19'33", long 74°15'08", Hydrologic Unit 02020008, near Chester.

Owner: Palisades Interstate Park Commission.

AQUIFER.--Limestone.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in. (0.15 m), depth 98 ft (29.9 m), cased to 73 ft (22.3 m), open hole.

DATUM.--Altitude of land-surface datum is about 445 ft (136 m) above mean sea level. Measuring point: Top of extended casing, 4.19 ft (1.277 m) above land-surface datum.

REMARKS.--Water-level fluctuations show hydraulic contact with Seeley Brook, 500 ft (152 m) west.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for September 1964 to June 1974,

February 1975 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.59 ft (2.92 m) below land-surface datum, Apr. 5, 1970; lowest, 17.50 ft (5.33 m) below land-surface datum, Oct. 26, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
HIGHEST FOR THE DAY (FROM DIGITAL RECORDER)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	15.83	17.00	15.75	13.35	12.88	12.50	11.14	14.36	15.83	16.01	15.60	.....
10	16.48	16.68	14.25	13.26	12.80	12.29	11.24	14.72	15.97	15.96	15.60	.....
15	16.46	16.41	14.05	13.20	13.29	12.86	13.34	14.65	15.74	16.00	15.60	.....
20	16.20	16.20	13.90	13.11	13.15	12.43	14.73	14.31	15.52	15.90	15.60	.....
25	17.34	15.99	13.68	13.05	12.72	12.76	14.60	15.39	16.33	15.80	15.60	.....
EOM	17.22	15.91	13.50	12.94	.....	11.00	14.55	15.04	16.17	15.70	15.50	15.87

WTR YEAR 1977 HIGHEST 10.71 Apr. 2, 1977 LOWEST 17.50 Oct. 26, 1976

OTSEGO COUNTY

424136075025101. Local number, Og 23.

LOCATION.--Lat 42°41'36", long 75°02'51", Hydrologic Unit 02050101, near Hartwick.

Owner: Michael Kallan.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 36 in. (0.91 m), depth 15 ft (4.6 m).

DATUM.--Altitude of land-surface datum is about 1,430 ft (435 m) above mean sea level. Measuring point: Top edge of hole drilled through concrete well cover, at land-surface datum.

PERIOD OF RECORD.--October 1976 to September 1977. Records for May 1953 to September 1976 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.98 ft (0.91 m) below land-surface datum, Apr. 2, 1960, Sept. 19, 1977; lowest measured, 12.66 ft (3.86 m) below land-surface datum, Nov. 14, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1976	6.95	JAN. 2, 1977	5.46	APR. 4, 1977	5.14	JULY 10, 1977	8.20
OCT. 10	6.90	JAN. 9	5.92	APR. 10	5.50	JULY 17	8.70
OCT. 17	6.10	JAN. 16	6.27	APR. 17	5.90	JULY 24	8.98
OCT. 24	4.60	JAN. 23	6.70	APR. 24	6.20	JULY 31	9.07
OCT. 31	4.45	JAN. 31	6.97	MAY 1	6.27	AUG. 7	9.12
NOV. 7	4.52	FEB. 6	7.20	MAY 8	6.42	AUG. 14	8.79
NOV. 14	4.59	FEB. 13	6.80	MAY 15	5.56	AUG. 21	8.50
NOV. 21	4.70	FEB. 20	7.00	MAY 22	5.70	AUG. 28	8.32
NOV. 28	4.98	FEB. 27	6.42	JUNE 5	6.50	SEP. 4	8.30
DEC. 5	5.10	MAR. 6	6.05	JUNE 12	6.75	SEP. 11	8.13
DEC. 12	5.30	MAR. 13	5.02	JUNE 19	7.20	SEP. 19	2.98
DEC. 19	5.52	MAR. 20	5.94	JUNE 29	6.17	SEP. 25	4.40
DEC. 26	5.50	MAR. 27	4.50	JULY 3	7.97		

GROUND-WATER LEVELS

PUTNAM COUNTY

412450073413101. Local number, P 609.

LOCATION.--Lat 41°24'50", long 73°41'31", Hydrologic Unit 02030101, near Carmel.

Owner: New York City Board of Water Supply.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 36 in. (0.91 m), depth 17 ft (5.2 m), stone-lined.

DATUM.--Altitude of land-surface datum is about 540 ft (165 m) above mean sea level. Measuring point: Top (North side) of 3-in. (0.08-m) coupling set in concrete well cover, at land-surface datum.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for January 1935 to September 1945,

September 1950 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.0 ft (0.30 m) below land-surface datum, Oct. 19, 1955; lowest measured, dry (several times).

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 7, 1976	12.80	JAN. 13, 1977	11.70	APR. 9, 1977	2.80	JULY 3, 1977	12.55
OCT. 21	11.45	JAN. 19	12.60	APR. 16	4.20	JULY 9	12.90
OCT. 28	11.40	JAN. 26	12.90	APR. 22	5.30	JULY 21	13.80
NOV. 4	11.00	FEB. 2	13.30	APR. 30	5.90	JULY 28	14.25
NOV. 10	10.90	FEB. 12	13.60	MAY 6	6.50	AUG. 4	14.60
NOV. 18	11.90	FEB. 18	13.45	MAY 14	6.70	AUG. 11	14.90
NOV. 26	11.75	FEB. 24	13.65	MAY 21	7.85	AUG. 21	15.50
DEC. 1	11.90	MAR. 2	9.00	MAY 28	9.10	AUG. 27	15.75
DEC. 9	11.90	MAR. 10	7.90	JUNE 4	10.30	SEP. 5	16.20
DEC. 15	11.55	MAR. 19	5.65	JUNE 11	10.85	SEP. 17	DRY
DEC. 30	11.60	MAR. 25	2.75	JUNE 17	10.90	SEP. 24	DRY
JAN. 5, 1977	11.90	APR. 2	2.60	JUNE 25	11.65		

RENSSELAER COUNTY

423834073391001. Local number, Re 700.

LOCATION.--Lat 42°38'34", long 73°39'10", Hydrologic Unit 02020006, near Defreestville.

Owner: William P. Hofmann.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug domestic water-table well, diameter 4 ft (1.2 m), depth 16 ft (4.9 m), stone-lined.

DATUM.--Altitude of land-surface datum is about 405 ft (123 m) above mean sea level. Measuring point: Top edge of concrete curbing at midpoint of north side of rectangular opening, 2.00 ft (0.609 m) above land-surface datum.

PERIOD OF RECORD.--September 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 8.92 ft (2.72 m) below land-surface datum, Apr. 4, 1970; lowest measured 15.49 ft (4.72 m) below land-surface datum, Oct. 3, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1976	12.98	JAN. 16, 1977	12.58	APR. 19, 1977	10.22	JULY 9, 1977	12.30
OCT. 9	12.73	JAN. 22	12.72	APR. 24	9.76	JULY 15	12.80
OCT. 17	12.40	JAN. 29	12.77	APR. 30	9.95	JULY 23	12.78
OCT. 30	11.57	FEB. 5	12.80	MAY 7	10.14	JULY 30	13.02
NOV. 6	11.52	FEB. 12	13.06	MAY 14	10.00	AUG. 6	13.14
NOV. 14	11.33	FEB. 20	12.48	MAY 22	10.52	AUG. 13	13.02
NOV. 20	11.36	FEB. 27	11.81	MAY 28	11.00	AUG. 21	13.85
NOV. 28	11.96	MAR. 5	10.69	JUNE 5	11.31	AUG. 27	13.30
DEC. 4	12.11	MAR. 13	10.64	JUNE 11	11.16	SEP. 3	13.56
DEC. 18	11.73	MAR. 20	9.97	JUNE 18	11.68	SEP. 10	13.70
DEC. 26	11.97	MAR. 26	10.08	JUNE 25	11.75	SEP. 17	13.66
DEC. 31	12.12	APR. 2	9.72	JULY 2	12.12	SEP. 24	13.30
JAN. 9, 1977	12.42	APR. 13	9.82				

GROUND-WATER LEVELS

541

RENSSELAER COUNTY

423532073423701. Local number, Re 701.

LOCATION.--Lat 42°35'32", long 73°42'37", Hydrologic Unit 02020006, near East Greenbush.

Owner: Town of East Greenbush.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in. (0.20 m) to 12 in. (0.30 m), depth 96 ft (29.3 m), slotted 82 ft (25.0 m) to 96 ft (29.3 m).

DATUM.--Altitude of land-surface datum is about 255 ft (78 m) above mean sea level. Measuring point: Top of flange, 3.35 ft (1.019 m) above land-surface datum.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for March 1961 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 19.72 ft (6.01 m) below land-surface datum, May 25, 1976; lowest, 31.59 ft (9.63 m) below land-surface datum, Mar. 2, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
HIGHEST FOR THE DAY (FROM RECORDER GRAPH)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	21.54	21.81	22.32	22.62	23.04	.....	21.79	21.64	21.47	21.73	22.22	22.69
10	.....	21.83	22.27	22.70	23.13	.....	21.89	.....	21.53	21.83	22.28	22.78
15	21.55	21.96	22.33	22.76	23.21	22.45	21.87	.....	21.57	21.89	22.35	22.90
20	21.54	22.02	22.30	22.83	.....	22.18	21.91	21.47	21.54	21.95	22.42	22.96
25	21.64	22.13	22.46	22.87	.....	22.11	21.81	21.43	21.59	22.02	22.51	22.97
EOM	21.68	22.22	22.53	22.99	.....	21.95	21.74	21.47	21.68	22.14	22.62	22.99

WTR YEAR 1977 HIGHEST 21.42 May 28, 1977 LOWEST 23.30 Feb. 17, 1977

ROCKLAND COUNTY

411802073593001. Local number, Ro 18.

LOCATION.--Lat 41°18'02", long 73°59'30", Hydrologic Unit 02030101, in Bear Mountain section near Lemon Road and Seven Lakes Drive.

Owner: Palisades Interstate Park Commission.

AQUIFER.--Storm King Granite of Precambrian age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in. (0.15 m), depth 60 ft (18.3 m), cased to 53 ft (16.2 m), open hole.

DATUM.--Altitude of land-surface datum is about 390 ft (119 m) above mean sea level. Measuring point: Top of casing, 3.65 ft (1.112 m) above land-surface datum.

PERIOD OF RECORD.--July 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 10.55 ft (3.22 m) below land-surface datum, Mar. 3, 1961; lowest measured 28.16 ft (8.58 m) below land-surface datum, Nov. 29, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1976	24.23	JAN. 20, 1977	22.43	APR. 16, 1977	14.70	JULY 4, 1977	18.63
OCT. 15	23.93	JAN. 27	22.58	APR. 30	15.73	JULY 31	20.82
OCT. 24	23.85	FEB. 11	23.15	MAY 14	15.86	AUG. 21	22.51
OCT. 31	23.38	FEB. 18	22.83	MAY 28	16.29	AUG. 28	23.03
NOV. 21	23.44	FEB. 25	22.36	JUNE 4	16.75	SEP. 4	23.70
DEC. 4	24.05	MAR. 5	15.61	JUNE 12	17.04	SEP. 11	24.36
DEC. 19	23.16	MAR. 13	13.56	JUNE 19	17.38	SEP. 18	24.85
DEC. 31	22.79	APR. 9	12.87	JUNE 26	17.92	SEP. 25	25.22
JAN. 12, 1977	22.79						

GROUND-WATER LEVELS

ST. LAWRENCE COUNTY

444904074455201. Local number, St 40.

LOCATION.--Lat 44°49'04", long 74°45'52", Hydrologic Unit 04150306, near Brasher Falls.

Owner: State Department of Environmental Conservation.

AQUIFER.--Glacial sand of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 36 in (0.91 m), depth 12 ft (3.7 m), concrete cased to 12 ft (3.7 m), open end.

DATUM.--Altitude of land-surface datum is 299 ft (91.1 m) above mean sea level. Measuring point: Chisled mark on top edge of 6-in. (0.15-m) by 8-in. (0.20-m) opening of concrete well cover, 0.70 ft (0.213 m) above land-surface datum.

REMARKS.--Altitude determined with barometric altimeter.

PERIOD OF RECORD.--May 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 3.24 ft (0.99 m) below land-surface datum, Apr. 21, 1971; lowest measured 9.38 ft (2.86 m) below land-surface datum, Oct. 24, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 1, 1976	7.34	JAN. 7, 1977	6.75	APR. 8, 1977	4.73	JULY 8, 1977	7.28
OCT. 8	7.49	JAN. 14	6.85	APR. 15	4.68	JULY 15	7.48
OCT. 15	6.47	JAN. 21	6.95	APR. 22	4.99	JULY 21	7.14
OCT. 22	6.26	JAN. 28	7.05	APR. 29	4.98	JULY 31	7.55
OCT. 29	6.00	FEB. 4	7.10	MAY 6	5.16	AUG. 5	7.68
NOV. 5	5.80	FEB. 11	7.17	MAY 13	5.35	AUG. 12	7.51
NOV. 12	5.91	FEB. 18	6.98	MAY 20	5.60	AUG. 20	6.99
NOV. 19	6.11	FEB. 25	7.07	MAY 27	5.93	AUG. 27	6.89
NOV. 25	6.26	MAR. 5	6.79	JUNE 3	6.17	SEP. 3	6.98
DEC. 3	6.39	MAR. 11	6.18	JUNE 10	6.38	SEP. 9	7.17
DEC. 11	6.30	MAR. 18	4.71	JUNE 17	6.62	SEP. 18	6.74
DEC. 17	6.27	MAR. 25	5.09	JUNE 24	6.80	SEP. 24	6.60
DEC. 24	6.47	APR. 1	4.49	JULY 1	7.00	SEP. 30	6.25
DEC. 31	6.59						

SARATOGA COUNTY

430327073475401. Local number, Sa 529.

LOCATION.--Lat 43°03'27", long 73°47'54", Hydrologic Unit 02020003, at Saratoga Springs.

Owner: Saratoga Springs Authority, New York State.

AQUIFER.--Dolomite of Ordovician age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in. (0.15 m), depth 304 ft (92.6 m), cased to 189 ft (57.6 m), open hole.

DATUM.--Altitude of land-surface datum is 305.6 ft (93.15 m) above mean sea level. Measuring point: Top of casing, 3.38 ft (1.028 m) above land-surface datum.

REMARKS.--Water level affected by earthquakes and distant pumping.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for May 1949 to November 1961, August 1964 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 41.45 ft (12.64 m) below land-surface datum, Mar. 30, 1975; lowest, 56.20 ft (17.13 m) below land-surface datum, July 29, 1949.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
WEEKLY HIGHEST (FROM RECORDER GRAPH)

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1976	43.72	DEC. 29, 1976	41.97	APR. 5, 1977	42.01	JULY 6, 1977	44.00
OCT. 9	43.26	JAN. 10, 1977	41.70	APR. 12	42.11	JULY 13	44.72
OCT. 18	43.53	JAN. 17	42.16	APR. 18	42.33	JULY 18	44.89
OCT. 25	42.90	JAN. 27	42.21	APR. 25	42.07	JULY 25	44.95
OCT. 31	43.65	FEB. 5	42.37	MAY 4	42.10	AUG. 1	45.26
NOV. 8	43.47	FEB. 13	42.20	MAY 14	42.16	AUG. 5	44.78
NOV. 15	43.76	FEB. 21	42.23	MAY 19	42.17	AUG. 14	44.43
NOV. 22	42.47	FEB. 27	42.28	MAY 28	42.26	AUG. 23	44.48
NOV. 29	42.37	MAR. 7	42.14	JUNE 7	42.64	AUG. 30	44.51
DEC. 8	42.78	MAR. 14	41.73	JUNE 13	43.42	SEP. 5	43.81
DEC. 12	42.42	MAR. 23	42.16	JUNE 20	43.71	SEP. 14	43.85
DEC. 21	42.01	MAR. 31	42.20	JUNE 27	43.69	SEP. 26	43.34

WTR YEAR 1977 HIGHEST 41.70 Jan. 10, 1977 LOWEST 46.11 July 30, 1977

GROUND-WATER LEVELS

543

SARATOGA COUNTY

430013073370401. Local number, Sa 1072.

LOCATION.--Lat 43°00'13", long 73°37'04", Hydrologic Unit 02020003, near Stillwater.

Owner: U.S. National Park Service.

AQUIFER.--Sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in. (0.15 m), depth 24 ft (7.3 m), cased to 21 ft (6.4 m), 2-in. (0.05-m) well point (30-gauze screen 21 ft or 6.4 m to 24 ft or 7.3 m).

DATUM.--Altitude of land-surface datum is 224.0 ft (68.28 m) above mean sea level. Measuring point: Top of casing, 3.31 ft (1.007 m) above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for July 1969 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.94 ft (1.20 m) below land-surface datum, May 25, 1976; lowest, 11.91 ft (3.63 m) below land-surface datum, Oct. 8, 1965.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
HIGHEST FOR THE DAY (FROM RECORDER GRAPH)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	6.76	5.97	6.62	.....	.....	.....	.....	5.44	6.21	6.95E	7.63	8.29
10	6.47	5.93	6.65	.....	.....	.....	.....	5.42	6.26	6.90	7.77	8.36
15	6.27	5.99	6.75	.....	.....	.....	.....	5.56	6.41	7.04	7.90	8.49
20	6.32	6.13	6.89	.....	8.10	.....	.....	5.81	6.61	7.28	7.91	8.46
25	6.17	6.36	7.02	.....	8.19	.....	.....	6.02	6.68	7.38	8.00	8.18
EQM	6.07	6.50	.....	.....	.....	.....	.....	6.30E	6.64	7.54	8.20	7.98

WTR YEAR 1977 HIGHEST 5.42 May 10, 1977 LOWEST 8.58 Sept. 20, 1977

E Estimated.

SCHENECTADY COUNTY

424910073591401. Local number, Sn 363.

LOCATION.--Lat 42°49'10", long 73°59'14", Hydrologic Unit 02020004, in Schenectady.

Owner: City of Schenectady.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in. (0.15 m), depth 54 ft (16.4 m), filled in from original depth of 57 ft (17.4 m), cased to 57 ft (17.4 m), open end.

DATUM.--Altitude of land-surface datum is 228.50 ft (69.647 m) above mean sea level. Measuring point: Top of shelter platform, 2.55 ft (0.777 m) above land-surface datum.

REMARKS.--Water level affected by stage of Mohawk River, and by pumping (average 15.0 mgal/d or 56,800 m³/d in 1976) from municipal well field.

PERIOD OF RECORD.--June 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.62 ft (1.10 m) below land-surface datum, Dec. 27, 1973; lowest, 31.27 ft (9.53 m) below land-surface datum, Feb. 10, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
HIGHEST FOR THE DAY (FROM RECORDER GRAPH)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	19.90	18.17	.....	21.05	22.58	.....	.....	.....	21.77	21.10	20.70	19.58E
10	14.61	18.97	16.28	21.33	23.20	16.80	.....	.....	21.24	20.55	.....	19.47
15	18.14	19.86	.....	.....	22.67	9.00	.....	.....	20.78	20.37	19.39	18.72
20	19.58	.....	.....	21.77	.....	.....	.....	21.52	.....	21.08	.....	16.20
25	16.74	20.49	19.40	23.00	23.50	.....	.....	22.37	21.25	20.95	.....	.....
EQM	.....	19.34	.....	22.69	.....	.....	.....	22.78	20.22	20.90	.....	.....

WTR YEAR 1977 HIGHEST 9.00 Mar. 15, 1977 LOWEST 24.02 Feb. 23, 1977

E Estimated.

GROUND-WATER LEVELS

STEBEN COUNTY

423121077281201. Local number, Sb 471.

LOCATION.--Lat 42°31'21", long 77°28'12", Hydrologic Unit 02050105, near Cohocton.

Owner: Myron Crouch.

AQUIFER.--Glacial sand of Pleistocene age.

WELL CHARACTERISTICS.--Bored observation water-table well, diameter 2.5 in. (0.06 m), depth 24 ft (7.3 m), filled in from original depth of 25 ft (7.6 m), 1.25-in. (0.03-m) well point (60-gauze screen 24 ft or 7.3 m to 25 ft or 7.6 m, damaged during well installation).

DATUM.--Altitude of land-surface datum is about 1,315 ft (401 m) above mean sea level. Measuring point: Top of casing, 3.10 ft (0.945 m) above land-surface datum.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for October 1965 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.46 ft (0.14 m) below land-surface datum, June 26, 1972; lowest measured, 17.50 ft (5.33 m) below land-surface datum, Oct. 28, 1965.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1976	14.05	JAN. 9, 1977	12.62	APR. 17, 1977	9.62	JULY 17, 1977	13.00
OCT. 10	13.65	JAN. 16	13.55	APR. 24	10.12	JULY 24	13.28
OCT. 24	11.91	JAN. 23	13.59	MAY 1	9.78	JULY 31	13.55
OCT. 31	11.14	FEB. 6	14.11	MAY 15	9.79	AUG. 7	13.76
NOV. 7	10.70	FEB. 13	14.10	MAY 22	10.45	AUG. 14	13.92
NOV. 14	11.25	FEB. 20	14.14	MAY 29	11.13	AUG. 21	13.50
NOV. 21	11.72	FEB. 27	12.69	JUNE 5	11.58	AUG. 28	13.28
NOV. 28	12.16	MAR. 6	11.33	JUNE 12	12.10	SEP. 4	13.46
DEC. 12	12.80	MAR. 13	9.76	JUNE 19	12.48	SEP. 11	13.69
DEC. 19	12.85	MAR. 20	8.90	JUNE 26	12.81	SEP. 18	12.78
DEC. 26	12.87	APR. 3	8.21	JULY 3	13.15	SEP. 25	7.28
JAN. 2, 1977	12.62	APR. 10	8.67	JULY 10	12.86		

422445077203301. Local number, Sb 472.

LOCATION.--Lat 42°24'45", long 77°20'33", Hydrologic Unit 02050105, near Kanona.

Owner: David Owens.

AQUIFER.--Glacial gravel of Pleistocene age.

WELL CHARACTERISTICS.--Bored observation water-table well, diameter 2.5 in. (0.06 m), depth 17 ft (5.2 m), filled in from original depth of 18 ft (5.5 m), 1.25-in. (0.03-m) well point (60-gauze screen 16 ft or 4.9 m to 18 ft or 5.5 m, damaged during well installation).

DATUM.--Altitude of land-surface datum is about 1,220 ft (372 m) above mean sea level. Measuring point: Top of casing, 3.00 ft (0.914 m) above land-surface datum.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for November 1965 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.64 ft (1.11 m) below land-surface datum, June 25, 1972; lowest measured, 10.84 ft (3.30 m) below land-surface datum, Sept. 22, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 3, 1976	10.32	JAN. 2, 1977	9.05	APR. 3, 1977	5.88	JULY 3, 1977	10.10
OCT. 10	8.93	JAN. 9	9.00	APR. 10	6.19	JULY 10	9.03
OCT. 18	9.13	JAN. 16	9.85	APR. 20	7.36	JULY 17	9.35
OCT. 24	8.35	JAN. 23	9.85	APR. 24	7.95	JULY 24	9.66
OCT. 31	8.20	JAN. 30	9.89	MAY 1	7.04	JULY 31	9.85
NOV. 7	7.74	FEB. 6	9.96	MAY 8	7.98	AUG. 7	9.89
NOV. 14	8.36	FEB. 13	9.85	MAY 15	7.79	AUG. 14	10.06
NOV. 21	8.74	FEB. 20	9.74	MAY 22	7.99	AUG. 21	9.93
NOV. 28	9.14	FEB. 27	8.04	MAY 29	8.44	AUG. 28	9.70
DEC. 5	9.45	MAR. 6	7.30	JUNE 5	9.05	SEP. 4	9.83
DEC. 12	9.54	MAR. 13	7.73	JUNE 12	9.48	SEP. 11	9.93
DEC. 19	9.65	MAR. 20	5.56	JUNE 19	9.75	SEP. 18	8.26
DEC. 26	9.59	MAR. 27	5.90	JUNE 26	9.81	SEP. 25	4.65

ULSTER COUNTY

414425074213601. Local number, U 204.

LOCATION.--Lat 41°44'25", long 74°21'36", Hydrologic Unit 02020007, near Napanoch.

Owner: State Department of Correction.

AQUIFER.--Till.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in. (0.20 m), depth 46 ft (14.0 m), filled in from original depth of 67 ft (20.4 m).

DATUM.--Altitude of land-surface datum is about 300 ft (91 m) above mean sea level. Measuring point: Top of casing, 1.00 ft (0.305 m) above land-surface datum.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for October 1954 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.84 ft (5.13 m) below land-surface datum, Mar. 24, 1955; lowest measured, 26.90 ft (8.20 m) below land-surface datum, Dec. 29, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 5, 1976	21.70	JAN. 18, 1977	21.34	APR. 5, 1977	20.67	JULY 19, 1977	21.49
OCT. 12	21.70	JAN. 26	21.44	MAY 3	20.40	JULY 26	21.62
OCT. 19	21.58	FEB. 1	21.49	MAY 10	20.43	AUG. 2	21.84
OCT. 26	21.50	FEB. 8	21.57	MAY 17	20.48	AUG. 9	22.08
NOV. 3	21.40	FEB. 15	21.66	MAY 24	20.55	AUG. 16	22.34
NOV. 9	21.35	FEB. 22	21.71	MAY 31	20.65	AUG. 23	22.55
NOV. 15	21.34	MAR. 1	21.70	JUNE 7	20.78	AUG. 30	22.80
NOV. 30	21.44	MAR. 8	21.53	JUNE 21	20.85	SEP. 6	23.05
DEC. 21	21.36	MAR. 15	21.29	JUNE 29	21.04	SEP. 13	23.34
DEC. 28	21.34	MAR. 22	21.08	JULY 5	21.14	SEP. 20	23.55
JAN. 4, 1977	21.35	MAR. 30	20.90	JULY 12	21.19	SEP. 27	23.74
JAN. 11	21.36						

414948074035101. Local number, U 405.

LOCATION.--Lat 41°49'48", long 74°03'51", Hydrologic Unit 02020007, Grist Mill Road, Tillson.

Owner: City School District of Kingston.

AQUIFER.--Sand of Pleistocene age.

WELL CHARACTERISTICS.--Bored observation water-table well, diameter 2.5 in. (0.06 m), depth 36 ft (11.0 m), 2-in. (0.05-m) well point (60-gauze screen 34 ft or 10.4 m to 36 ft or 11.0 m).

DATUM.--Altitude of land-surface datum is about 240 ft (73 m) above mean sea level. Measuring point: Top of casing, 0.47 ft (0.143 m) above land-surface datum.

REMARKS.--Originally a dug well, diameter 36 in. (0.91 m), depth 21 ft (6.4 m), stone-lined. Well deepened by power auger, October 1965.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for October 1964 to July 1965, March 1966 to December 1974, April 1976 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.49 ft (4.42 m) below land-surface datum, July 6, 1972; lowest measured, 20.71 ft (6.31 m) below land-surface datum, Jan. 24, 1967.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 4, 1976	17.03	DEC. 10, 1976	16.73	FEB. 11, 1977	17.53	APR. 15, 1977	15.53
OCT. 8	17.03	DEC. 17	16.83	FEB. 18	17.63	APR. 22	15.43
OCT. 15	16.83	DEC. 23	16.93	FEB. 25	16.83	APR. 29	15.33
OCT. 22	16.53	DEC. 30	16.93	MAR. 4	16.83	MAY 6	15.33
OCT. 29	16.43	JAN. 7, 1977	17.13	MAR. 11	16.83	MAY 19	15.33
NOV. 5	16.53	JAN. 14	17.33	MAR. 18	16.63	AUG. 9	16.75
NOV. 12	16.53	JAN. 21	17.43	MAR. 25	16.18	AUG. 24	17.32
NOV. 19	16.53	JAN. 28	17.43	APR. 1	15.83	SEP. 21	17.68
NOV. 24	16.63	FEB. 4	17.43	APR. 7	15.43	SEP. 30	16.70
DEC. 3	16.63						

WASHINGTON COUNTY

431026073194101. Local number, W 264.

LOCATION.--Lat 43°10'26", long 73°19'41", Hydrologic Unit 02020003, in Salem.

Owner: Village of Salem.

AQUIFER.--Glacial gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug fire-protection water-table well, approximate size 8 ft (2.4 m) by 12 ft (3.7 m), depth 15 ft (4.6 m), stone-lined.

DATUM.--Altitude of land-surface datum is 485.5 ft (147.98 m) above mean sea level. Measuring point: Top edge of concrete cover at north side of square opening, at land-surface datum.

REMARKS.--Water level affected by floods of nearby stream.

PERIOD OF RECORD.--July 1946 to December 1973, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 6.62 ft (2.02 m) below land-surface datum, Apr. 4, 1960; lowest measured 11.70 ft (3.57 m) below land-surface datum, Oct. 12, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 24, 1976	8.82	JAN. 21, 1977	10.18	MAY 24, 1977	9.05	AUG. 22, 1977	10.27
NOV. 22	9.17	FEB. 26	10.39	JUNE 23	9.45	SEP. 23	9.73
DEC. 21	9.58	APR. 22	8.82	JULY 25	10.05		

GROUND-WATER LEVELS

WASHINGTON COUNTY

431030073192101. Local number, W 533.

LOCATION.--Lat 43°10'50", long 73°19'21", Hydrologic Unit 02020003, in Salem.

Owner: Salem Central High School.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in. (0.15 m), depth 15 ft (4.6 m), cased to 16 ft (4.9 m), open end. Well backfilled 1.6 ft (0.48 m) with coarse gravel.

DATUM.--Altitude of land-surface datum is about 490 ft (149 m) above mean sea level. Measuring point: Top of casing, 3.10 ft (0.945 m) above land-surface datum.

REMARKS.--This well drilled March 1974 as a replacement for 431032073192401 (local number W 532), located 350 ft (107 m) northwest, which has a period of record from October 1965 to June 1973 (unpublished).

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for March 1974 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 3.99 ft (1.22 m) below land-surface datum, Jan. 29, 1976; lowest recorded, 7.36 ft (2.24 m) below land-surface datum, Sept. 14, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
HIGHEST FOR THE DAY (FROM RECORDER GRAPH)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	6.59	5.51	.....	.....	.....	.....	.....	.....	6.54	6.63	7.13	7.33
10	5.94	5.52	.....	.....	.....	.....	.....	.....	6.62	6.78	7.16	7.34
15	5.88	5.80	.....	.....	.....	.....	.....	.....	6.71	6.87	7.17	7.16
20	5.98	6.04	.....	.....	.....	.....	.....	5.97	6.80	6.98	7.20	.....
25	5.76	.....	.....	.....	.....	.....	.....	6.12	6.74	7.07	7.24	.....
EOM	5.60	.....	.....	.....	.....	.....	.....	6.37	6.51	7.13	7.30	.....

WTR YEAR 1977 HIGHEST 4.73 Mar. 28, 1977 LOWEST 7.36 Sept. 14, 1977

WESTCHESTER COUNTY

411421073481201. Local number, We 3.

LOCATION.--Lat 41°14'21", long 73°48'12", Hydrologic Unit 02030101, near Yorktown Heights.

Owner: New York City Board of Water Supply.

AQUIFER.--Glacial sand of Pleistocene age.

WELL CHARACTERISTICS.--Dug domestic water-table well, diameter 36 in. (0.91 m), depth 16 ft (4.9 m) in September 1977, original depth reported to be 18 ft (5.5 m), filled in to 17 ft (5.2 m) as of November 1956, to 16 ft (4.9 m) as of June 1971, stoned lined.

DATUM.--Altitude of land-surface datum is 252.5 ft (76.96 m) above mean sea level. Measuring point: Top edge of hole in wooden well cover, 0.92 ft (0.28 m) above land-surface datum.

REMARKS.--Digital recorder installed Aug. 25, 1977.

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for April 1934 to September 1937, April 1938 to September 1945, March 1951 to September 1976 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.9 ft (1.19 m) below land-surface datum, Apr. 12-13, 1958; lowest measured, dry Nov. 30, 1935, Jan. 7, 1936, Feb. 1, 1936, Jan. 6 to Feb. 4, 1965, Nov. 12, 1970, Sept. 10-30, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 9, 1976	14.90	MAR. 5, 1977	12.90	MAY 30, 1977	9.90	AUG. 31, 1977	15.27
OCT. 22	15.10	MAR. 13	10.45	JUNE 6	10.60	SEP. 5	15.39
NOV. 24	14.50	MAR. 25	6.45	JUNE 10	11.00	SEP. 10	DRY
DEC. 10	14.40	APR. 15	5.90	JUNE 27	12.20	SEP. 15	DRY
DEC. 17	14.40	APR. 22	6.87	JULY 25	14.20	SEP. 20	DRY
DEC. 27	14.70	MAY 2	7.72	AUG. 1	14.50	SEP. 25	DRY
FEB. 22, 1977	14.25	MAY 27	9.43	AUG. 25	15.14	SEP. 30	DRY
FEB. 25	13.93						

GROUND-WATER LEVELS

547

WYOMING COUNTY

423739077595501. Local number, Wo 1.

LOCATION.--Lat 42°37'39", long 77°59'55", Hydrologic Unit 04130002, Letchworth State Park, near Castile.

Owner: State Department of Environmental Conservation.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 2 in. (0.05 m), depth 14 ft (4.3 m), well point (60-gauze screen 11 ft or 3.4 m to 14 ft or 4.3 m).

DATUM.--Altitude of land-surface datum is about 1,020 ft (311 m) above mean sea level. Measuring point: Top of 2-in. (0.05-m) by 1-in. (0.02-m) reducing coupling, 3.33 ft (1.015 m) above land-surface datum.

PERIOD OF RECORD.--November 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.5 ft (0.15 m) below land-surface datum, Apr. 5, 1947; lowest measured, dry, Dec. 6-27, 1964, Jan. 2, 1965.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 21, 1976	5.18	JAN. 23, 1977	4.38	APR. 22, 1977	3.38	JULY 31, 1977	9.02
NOV. 15	3.07	FEB. 12	3.96	MAY 20	4.99	AUG. 22	6.54
DEC. 15	2.95	MAR. 19	2.59	JUNE 19	8.57	SEP. 14	5.90

423743078070802. Local number, Wo 4.

LOCATION.--Lat 42°37'43", long 78°07'08", Hydrologic Unit 04130002, near Gainesville.

Owner: Letchworth Central School.

AQUIFER.--Sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in. (0.15 m), depth 20 ft (6.1 m), cased to 20 ft (6.1 m), open end.

DATUM.--Altitude of land-surface datum is about 1,610 ft (491 m) above mean sea level. Measuring point: Top of casing, 2.60 ft (0.792 m) above land-surface datum.

REMARKS.--This well drilled May 1974 as a replacement for 423743078070801 (local number Wo 2), located 25 ft (7.6 m) southeast, which has a period of record from November 1965 to May 1974 (unpublished).

PERIOD OF RECORD.--October 1976 to September 1977. Unpublished record for May 1974 to September 1976 is available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.89 ft (2.40 m) below land-surface datum, Mar. 5, 1976; lowest, 14.00 ft (4.27 m) below land-surface datum, Nov. 3, 1974.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
HIGHEST FOR THE DAY (FROM DIGITAL RECORDER)

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.
5	13.45	12.29	12.92	13.20	.....	12.15	.....	11.20	12.70	13.32	13.20	12.34
10	13.26	12.51	13.00	13.24	.....	11.69	11.10	11.45	12.86	12.83	13.10	12.62
15	13.20	.....	13.03	13.26	.....	10.58	11.44	11.76	12.99	12.85	12.48	12.65
20	13.31	12.86	13.08	13.28	.....	10.88	11.77	12.05	13.11	12.98	11.65	.....
25	12.70	12.97	12.97	13.37	12.87	11.33	10.57	12.28	13.11	13.09	11.78	.....
EOM	12.43	12.87	13.13	.....	12.56	.....	10.89	12.53	13.20	13.16	12.03	.....
WTR YEAR 1977	HIGHEST			10.56 Mar. 16, 1977	LOWEST			13.51 Oct. 8, 1976				

QUALITY OF GROUND WATER
WATER QUALITY DATA, DECEMBER 1975 TO AUGUST 1977
CORTLAND COUNTY

DATE	TIME	WATER LEVEL BELOW LAND SURFACE (FT)	DEPTH TO BOT- TOM OF SAMPLE VAL (FT)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH	TEMPER- ATURE (DEG C)	FECAL COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	HARD- NESS (CA,MG) (MG/L)
423037076094401 - VIRGIL HI DEPT GARAGE VIRGIL NY (LAT 42 30 37 LONG 076 09 44.01)										
SEP , 1976										
20...	1200	--	--	--	245	--	--	--	--	--
423251076142301 - CT 8 2-IN WEBB RD (LAT 42 32 51 LONG 076 14 23.01)										
DEC , 1975										
04...	1345	7.64	38	34	530	7.2	11.0	--	--	--
FEB , 1976										
10...	1000	7.60	38	34	580	7.3	10.0	--	--	260
MAY										
28...	1530	7.50	38	34	510	--	--	--	--	--
JUN										
15...	1155	9.05	38	34	590	--	10.0	--	--	--
JUL										
26...	1040	7.83	38	34	630	--	9.0	--	--	--
OCT										
04...	1345	13.93	38	34	490	--	12.0	B75	B75	--
423323076140301 - CP 1 WELLS MONARCH TOOL (LAT 42 33 23 LONG 076 14 03.01)										
OCT , 1976										
05...	1300	--	--	--	380	--	--	--	--	--
423323076144001 - CT 9 6 INCH WELL GRACIE ROAD NR CORTLAND NY (LAT 42 33 23 LONG 076 14 40.01)										
JUL , 1976										
30...	1330	61.80	110	90	460	7.0	7.0	--	--	--
NOV										
16...	1230	64.11	110	90	200	--	--	--	--	--
423353076130301 - CT 7 1.25-IN UP ZO BENNI (LAT 42 33 53 LONG 076 13 03.01)										
DEC , 1975										
18...	1130	14.06	24	19	235	7.5	6.0	--	--	--
FEB , 1976										
10...	1325	12.78	24	19	255	7.0	7.0	--	--	98
JUL										
26...	1110	13.96	24	19	320	--	18.0	--	--	--
27...	1505	14.01	24	19	325	--	17.5	--	--	--
423353076130302 - CT 7 2-IN LO ZO BENNIE R (LAT 42 33 53 LONG 076 13 03.02)										
DEC , 1975										
18...	1140	14.73	46	42	285	7.4	11.0	--	--	--
FEB , 1976										
10...	1345	14.66	46	42	295	7.2	8.0	--	--	130
JUN										
15...	1230	16.98	46	42	325	--	10.0	--	--	--
JUL										
26...	1135	15.73	46	42	315	--	10.0	--	--	--
423422076140701 - CT 10 1.25 INCH UP ZO WELL (LAT 42 34 22 LONG 076 14 07.01)										
DEC , 1975										
29...	1130	18.88	33	28	350	7.4	10.0	--	--	--
FEB , 1976										
10...	1520	19.11	33	28	340	7.5	9.0	--	--	180
JUN										
15...	1055	16.63	33	28	340	--	10.0	--	--	--
JUL										
27...	0835	17.23	33	28	320	--	9.0	--	--	--

B Results based on colony count outside the acceptable range (non-ideal colony count).

CONTINUED NEXT PAGE

QUALITY OF GROUND WATER

549

WATER QUALITY DATA, DECEMBER 1975 TO AUGUST 1977--Continued

CORTLAND COUNTY--Continued

DATE	NON-CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
423037076094401 - VIRGIL HI DEPT GARAGE VIRGIL NY (LAT 42 30 37 LONG 076 09 44.01)										
SEP , 1976	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
423251076142301 - CT 8 2-IN WEBB RD (LAT 42 32 51 LONG 076 14 23.01)										
DEC , 1975	--	--	--	--	--	--	--	26	--	--
04...	--	--	--	--	--	--	--	26	--	--
FEB , 1976	35	79	15	21	1.0	22	21	20	--	.02
10...	35	79	15	21	1.0	22	21	20	--	.02
MAY	--	--	--	--	--	--	--	17	--	--
28...	--	--	--	--	--	--	--	17	--	--
JUN	--	--	--	--	--	--	--	18	--	--
15...	--	--	--	--	--	--	--	18	--	--
JUL	--	--	--	--	--	--	--	18	--	--
26...	--	--	--	--	--	--	--	18	--	--
OCT	--	--	--	--	--	--	--	22	.01	--
04...	--	--	--	--	--	--	--	22	.01	--
423323076140301 - CP 1 WELLS MONARCH TOOL (LAT 42 33 23 LONG 076 14 03.01)										
OCT , 1976	--	--	--	--	--	--	--	21	.01	--
05...	--	--	--	--	--	--	--	21	.01	--
423323076144001 - CT 9 6 INCH WELL GRACIE ROAD NR CORTLAND NY (LAT 42 33 23 LONG 076 14 40.01)										
JUL , 1976	--	71	--	.7	.9	30	26	24	--	--
30...	--	71	--	.7	.9	30	26	24	--	--
NOV	--	--	--	--	--	--	--	22	--	--
16...	--	--	--	--	--	--	--	22	--	--
423353076130301 - CT 7 1.25-IN UP ZO BENNI (LAT 42 33 53 LONG 076 13 03.01)										
DEC , 1975	--	--	--	--	--	--	--	10	--	--
18...	--	--	--	--	--	--	--	10	--	--
FEB , 1976	35	31	5.0	5.9	1.5	12	21	13	--	.03
10...	35	31	5.0	5.9	1.5	12	21	13	--	.03
JUL	--	--	--	--	--	--	--	11	--	--
26...	--	--	--	--	--	--	--	11	--	--
27...	--	--	--	--	--	--	--	11	--	--
423353076130302 - CT 7 2-IN LO ZO BENNIE R (LAT 42 33 53 LONG 076 13 03.02)										
DEC , 1975	--	--	--	--	--	--	--	11	--	--
18...	--	--	--	--	--	--	--	11	--	--
FEB , 1976	32	42	6.7	5.1	1.0	12	21	12	--	.02
10...	32	42	6.7	5.1	1.0	12	21	12	--	.02
JUN	--	--	--	--	--	--	--	12	--	--
15...	--	--	--	--	--	--	--	12	--	--
JUL	--	--	--	--	--	--	--	10	--	--
26...	--	--	--	--	--	--	--	10	--	--
423422076140701 - CT 10 1.25 INCH UP ZO WELL (LAT 42 34 22 LONG 076 14 07.01)										
DEC , 1975	--	--	--	--	--	--	--	3.5	--	--
29...	--	--	--	--	--	--	--	3.5	--	--
FEB , 1976	29	51	12	1.9	.4	9.1	19	3.0	--	.01
10...	29	51	12	1.9	.4	9.1	19	3.0	--	.01
JUN	--	--	--	--	--	--	--	4.7	--	--
15...	--	--	--	--	--	--	--	4.7	--	--
JUL	--	--	--	--	--	--	--	3.5	--	--
27...	--	--	--	--	--	--	--	3.5	--	--

QUALITY OF GROUND WATER
WATER QUALITY DATA, DECEMBER 1975 TO AUGUST 1977--Continued
CORTLAND COUNTY--Continued

DATE	TIME	WATER LEVEL BELOW LAND SURFACE (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	FECAL COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (7UM-MF (COL./ 100 ML)	HARD- NESS (CA+MG) (MG/L)
423422076140702 - CT 10 2-IN LO ZO LINE HO (LAT 42 34 22 LONG 076 14 07.02)										
DEC , 1975										
29...	1150	19.44	88	84	410	7.5	10.0	--	--	--
FEB , 1976										
10...	1450	19.14	88	84	430	7.4	10.0	--	--	220
MAR										
09...	1500	12.11	88	84	430	--	9.0	--	--	--
JUN										
15...	1115	17.46	88	84	480	--	10.0	--	--	--
JUL										
27...	0900	17.87	88	84	460	--	10.0	--	--	--
423429076131701 - CT-22 S LAMONT CIRCLE (LAT 42 34 29 LONG 076 13 17.01)										
SEP , 1976										
27...	1515	22.80	45	35	575	7.5	10.0	--	--	260
423433076133301 - CT 6 1.25 IN UP ZO STUPK (LAT 42 34 33 LONG 076 13 33.01)										
DEC , 1975										
29...	1300	10.36	26	21	405	7.4	11.0	--	--	--
FEB , 1976										
11...	1415	10.62	26	21	410	7.2	10.0	--	--	210
JUN										
15...	1010	10.27	26	21	420	--	12.5	--	--	--
JUL										
27...	0940	10.18	26	21	405	--	10.0	--	--	--
OCT										
05...	1100	12.59	26	21	440	--	13.0	<1	<1	--
423433076133302 - CT 6 2-IN LO ZO STUPKE R (LAT 42 34 33 LONG 076 13 33.02)										
DEC , 1975										
29...	1345	9.28	255	251	385	7.6	10.0	--	--	--
FEB , 1976										
11...	1445	9.44	255	251	375	7.4	10.0	--	--	190
MAR										
09...	1330	5.85	255	251	375	7.2	10.0	--	--	--
JUN										
15...	1025	8.97	255	251	350	--	12.5	--	--	--
JUL										
27...	1010	8.84	255	251	355	--	10.0	--	--	--
OCT										
05...	1120	11.92	255	251	380	--	11.0	<1	<1	--
423440076132501 - CT 21 N LAMONT CIRCLE (LAT 42 34 40 LONG 076 13 25.01)										
SEP , 1976										
29...	1515	--	30	20	500	7.4	12.0	--	--	240
OCT										
05...	1230	5.90	30	20	--	--	--	<1	--	--
423447076130601 - CT 5 1.25-IN UP ZO WOODP (LAT 42 34 47 LONG 076 13 06.01)										
DEC , 1975										
04...	1145	10.83	26	21	610	7.5	11.0	--	--	--
FEB , 1976										
10...	1100	11.04	26	21	610	7.3	10.0	--	--	--
APR										
14...	1350	9.42	26	21	585	7.2	10.0	--	--	250
JUN										
18...	1010	10.79	26	21	640	--	9.0	--	--	--
JUL										
23...	1140	10.52	26	21	600	--	11.0	--	--	--
OCT										
05...	1320	13.07	26	21	460	--	11.0	<1	<1	--

CONTINUED NEXT PAGE

QUALITY OF GROUND WATER

551

WATER QUALITY DATA, DECEMBER 1975 TO AUGUST 1977--Continued

CORTLAND COUNTY--Continued

DATE	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
423422076140702 - CT 10 2-IN LO ZO LINE HO (LAT 42 34 22 LONG 076 14 07.02)										
DEC , 1975										
29...	--	--	--	--	--	--	--	7.0	--	--
FEB , 1976										
10...	35	58	18	2.8	.4	14	24	8.2	--	.01
MAR										
09...	--	--	--	--	--	--	--	8.4	.01	--
JUN										
15...	--	--	--	--	--	--	--	9.8	--	--
JUL										
27...	--	--	--	--	--	--	--	9.6	--	--
423429076131701 - CT-22 S LAMONT CIRCLE (LAT 42 34 29 LONG 076 13 17.01)										
SEP , 1976										
27...	95	80	14	24	1.5	10	19	77	.00	--
423433076133301 - CT 6 1.25 IN UP ZO STUPK (LAT 42 34 33 LONG 076 13 33.01)										
DEC , 1975										
29...	--	--	--	--	--	--	--	12	--	--
FEB , 1976										
11...	45	59	15	3.4	.5	20	21	13	--	.02
JUN										
15...	--	--	--	--	--	--	--	15	--	--
JUL										
27...	--	--	--	--	--	--	--	14	--	--
OCT										
05...	--	--	--	--	--	--	--	14	.01	--
423433076133302 - CT 6 2-IN LO ZO STUPKE R (LAT 42 34 33 LONG 076 13 33.02)										
DEC , 1975										
29...	--	--	--	--	--	--	--	6.3	--	--
FEB , 1976										
11...	28	51	15	3.3	.5	12	32	8.0	--	.11
MAR										
09...	--	--	--	--	--	20	--	7.4	.04	--
JUN										
15...	--	--	--	--	--	--	--	10	--	--
JUL										
27...	--	--	--	--	--	--	--	6.6	--	--
OCT										
05...	--	--	--	--	--	--	--	7.8	.06	--
423440076132501 - CT 21 N LAMONT CIRCLE (LAT 42 34 40 LONG 076 13 25.01)										
SEP , 1976										
29...	66	72	14	16	1.2	13	21	48	.01	--
OCT										
05...	--	--	--	--	--	--	--	45	.02	--
423447076130601 - CT 5 1.25-IN UP ZO WOODP (LAT 42 34 47 LONG 076 13 06.01)										
DEC , 1975										
04...	--	--	--	--	--	--	--	65	--	--
FEB , 1976										
10...	--	--	--	--	--	18	--	56	--	.02
APR										
14...	45	78	14	24	1.3	26	23	50	--	.05
JUN										
18...	--	--	--	--	--	--	--	59	--	--
JUL										
23...	--	--	--	--	--	--	--	65	--	--
OCT										
05...	--	--	--	--	--	--	--	78	.01	--

QUALITY OF GROUND WATER
WATER QUALITY DATA, DECEMBER 1975 TO AUGUST 1977--Continued
CORTLAND COUNTY--Continued

DATE	TIME	WATER LEVEL BELOW LAND SURFACE (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	FECAL COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. /100 ML)	HARD- NESS (CA.MG) (MG/L)
423447076130602 - CT 5 2-IN LO ZO WOOD PROJ (LAT 42 34 47 LONG 076 13 06.02)										
DEC , 1975										
04...	1130	10.83	59	55	470	7.5	10.0	--	--	--
FEB , 1976										
10...	1145	11.06	59	55	470	7.5	10.0	--	--	--
MAR										
09...	1420	7.57	59	55	480	7.0	9.0	--	--	--
APR										
14...	1410	9.55	59	55	415	7.0	10.0	--	--	190
JUN										
18...	1025	10.02	59	55	460	--	9.0	--	--	--
JUL										
23...	1200	10.32	59	55	420	--	11.0	--	--	--
423518076110401 - CT 3 1-25-IN UP ZO BEAUD (LAT 42 35 18 LONG 076 11 04.01)										
DEC , 1975										
04...	1515	8.76	28	23	465	7.0	12.0	--	--	--
FEB , 1976										
12...	1340	7.95	28	23	490	7.1	10.0	--	--	200
JUN										
18...	1055	7.65	28	23	480	--	7.5	--	--	--
JUL										
23...	1030	8.90	28	23	410	--	10.0	--	--	--
OCT										
04...	1455	11.79	28	23	590	--	12.0	<1	<1	--
423518076110402 - CT 3 2-IN LO ZO-BEAUDRY (LAT 42 35 18 LONG 076 11 04.02)										
DEC , 1975										
04...	1445	8.74	54	50	485	7.2	11.0	--	--	--
FEB , 1976										
12...	1315	8.10	54	50	480	7.3	9.0	--	--	210
JUN										
18...	1110	8.25	54	50	470	--	9.0	--	--	--
JUL										
23...	1050	8.81	54	50	450	--	10.0	--	--	--
OCT										
04...	1500	11.84	54	50	570	--	10.0	<1	<1	--
423518076114103 - CT 13 12-IN BERRY SCHOOL (LAT 42 35 18 LONG 076 11 41.03)										
APR , 1976										
26...	1420	18.66	63	38	700	7.0	9.0	--	--	270
423522076123901 - CT 4 1.25 IN UP ZO GUNZ (LAT 42 35 22 LONG 076 12 39.01)										
DEC , 1975										
18...	1000	5.05	23	18	450	7.5	9.0	--	--	--
APR , 1976										
14...	1030	4.68	23	18	450	7.2	10.0	--	--	200
JUN										
15...	1500	2.96	23	18	515	--	9.0	--	--	--
JUL										
27...	1105	4.89	23	18	485	--	11.0	--	--	--
OCT										
04...	1540	7.26	23	18	530	--	13.0	<1	<1	--

CONTINUED NEXT PAGE

QUALITY OF GROUND WATER

553

WATER QUALITY DATA, DECEMBER 1975 TO AUGUST 1977--Continued

CORTLAND COUNTY--Continued

DATE	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
423447076130602 - CT 5 2-IN LO ZO WOOD PRO (LAT 42 34 47 LONG 076 13 06.02)										
DEC , 1975										
04...	--	--	--	--	--	--	--	35	--	--
FEB , 1976										
10...	--	76	--	--	--	9.4	--	33	--	.22
MAR										
09...	--	--	--	--	--	29	--	37	.01	--
APR										
14...	49	59	11	13	.9	28	24	34	--	.01
JUN										
18...	--	--	--	--	--	--	--	36	--	--
JUL										
23...	--	--	--	--	--	--	--	39	--	--
423518076110401 - CT 3 1-25-IN UP ZO BEAUD (LAT 42 35 18 LONG 076 11 04.01)										
DEC , 1975										
04...	--	--	--	--	--	--	--	25	--	--
FEB , 1976										
12...	33	66	9.1	14	1.8	26	25	27	--	.02
JUN										
18...	--	--	--	--	--	--	--	30	--	--
JUL										
23...	--	--	--	--	--	--	--	28	--	--
OCT										
04...	--	--	--	--	--	--	--	27	.00	--
423518076110402 - CT 3 2-IN LO ZO-BEAUDRY (LAT 42 35 18 LONG 076 11 04.02)										
DEC , 1975										
04...	--	--	--	--	--	--	--	22	--	--
FEB , 1976										
12...	29	68	10	12	1.8	18	24	25	--	.02
JUN										
18...	--	--	--	--	--	--	--	29	--	--
JUL										
23...	--	--	--	--	--	--	--	27	--	--
OCT										
04...	--	--	--	--	--	--	--	25	.01	--
423518076114103 - CT 13 12-IN BERRY SCHOOL (LAT 42 35 18 LONG 076 11 41.03)										
APR , 1976										
25...	44	80	17	31	1.4	44	24	69	--	.04
423522076123901 - CT 4 1.25 IN UP ZO GUNZ (LAT 42 35 22 LONG 076 12 39.01)										
DEC , 1975										
18...	--	--	--	--	--	--	--	16	--	--
APR , 1976										
14...	36	62	12	6.7	.9	21	21	17	--	.02
JUN										
15...	--	--	--	--	--	--	--	18	--	--
JUL										
27...	--	--	--	--	--	--	--	18	--	--
OCT										
04...	--	--	--	--	--	--	--	22	.01	--

QUALITY OF GROUND WATER

WATER QUALITY DATA, DECEMBER 1975 TO AUGUST 1977--Continued

CORTLAND COUNTY--Continued

DATE	TIME	WATER LEVEL BELOW LAND SURFACE (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	FECAL COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	HARD- NESS (CA.MG) (MG/L)
423522076123902 - CT 4 2-IN LO ZO GUNZ (LAT 42 35 22 LONG 076 12 39.02)										
DEC , 1975										
18...	1015	5.81	42	38	425	7.5	9.0	--	--	--
APR , 1976										
14...	1040	5.81	42	38	430	7.4	10.0	--	--	220
JUN										
15...	1520	6.33	42	38	495	--	9.0	--	--	--
JUL										
27...	1125	4.81	42	38	425	--	10.0	--	--	--
OCT										
04...	1600	7.53	42	38	460	--	11.0	<1	<1	--
423547076114403 - CP 17 CORTLAND #W PUMP 3 (LAT 42 35 51 LONG 076 11 49.03)										
FEB , 1976										
13...	1330	--	68	36	450	7.5	10.0	--	--	200
APR										
14...	0945	--	68	36	430	7.5	--	--	--	--
MAY										
28...	1610	--	68	36	430	--	--	--	--	--
JUL										
08...	1200	--	68	36	410	--	11.0	--	--	--
26...	1205	--	68	36	410	--	10.5	--	--	--
AUG										
14...	1100	--	68	36	--	--	--	--	--	--
30...	1600	--	68	36	420	--	--	--	--	--
423548076115701 - CT 2 1.25-IN UP ZO GLENN (LAT 42 35 48 LONG 076 11 57.01)										
DEC , 1975										
18...	1350	6.87	25	20	410	7.7	8.0	--	--	--
FEB , 1976										
09...	1100	7.02	25	20	520	7.3	--	--	--	210
JUN										
18...	1135	7.47	25	20	440	--	9.0	--	--	--
JUL										
26...	1515	7.22	25	20	430	--	11.0	--	--	--
OCT										
06...	0925	9.47	25	20	460	--	12.0	<1	<1	--
423548076115702 - CT 2 2-IN LO ZO GLENN ST (LAT 42 35 48 LONG 076 11 57.02)										
DEC , 1975										
18...	1410	7.14	49	45	410	7.6	8.5	--	--	--
FEB , 1976										
09...	1200	7.51	49	45	405	7.4	--	--	--	200
JUN										
18...	1150	7.82	49	45	405	--	9.0	--	--	--
JUL										
26...	1535	7.92	49	45	400	--	8.5	--	--	--
OCT										
06...	1000	--	--	--	--	--	--	--	<1	--
423553076121501 - CT 1 6-IN UP ZO ACME L (LAT 42 35 58 LONG 076 12 15.01)										
DEC , 1975										
12...	1445	15.43	30	20	300	6.9	11.0	--	--	--
FEB , 1976										
11...	1200	14.63	30	20	1450	6.9	10.0	--	--	340
MAR										
09...	1050	10.75	30	20	235	--	--	--	--	--
JUN										
15...	1325	15.01	30	20	295	--	--	--	--	--
JUL										
26...	1430	14.99	30	20	260	--	12.0	--	--	--
OCT										
06...	1050	16.86	30	20	290	--	15.0	<1	<1	--

CONTINUED NEXT PAGE

QUALITY OF GROUND WATER

555

WATER QUALITY DATA, DECEMBER 1975 TO AUGUST 1977--Continued

CORTLAND COUNTY--Continued

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (MG/L)	DISSOLVED POTASSIUM (MG/L)	CARBON DIOXIDE (MG/L)	DISSOLVED SULFATE (MG/L)	DISSOLVED CHLORIDE (MG/L)	TOTAL NITRITE (MG/L)	TOTAL PHOSPHORUS (MG/L)
423522076123902 - CT 4 2-IN LO ZO GUNZ (LAT 42 35 22 LONG 076 12 39.02)										
DEC , 1975	--	--	--	--	--	--	--	16	--	--
APR , 1976	44	63	14	7.5	.8	13	26	20	--	.06
JUN	--	--	--	--	--	--	--	19	--	--
JUL	--	--	--	--	--	--	--	20	--	--
OCT	--	--	--	--	--	--	--	22	.01	--
04...	--	--	--	--	--	--	--	22	.01	--
423547076114403 - CP 17 CORTLAND WW PUMP 3 (LAT 42 35 51 LONG 076 11 49.03)										
FEB , 1976	--	60	12	6.1	.5	--	21	17	--	.01
APR	--	--	--	--	--	10	--	19	--	--
MAY	--	--	--	--	--	--	--	17	--	--
JUL	--	--	--	--	--	--	--	18	--	--
26...	--	--	--	--	--	--	--	15	--	--
AUG	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	16	--	--
423548076115701 - CT 2 1.25-IN UP ZO GLENN (LAT 42 35 48 LONG 076 11 57.01)										
DEC , 1975	--	--	--	--	--	--	--	11	--	--
FEB , 1976	32	66	12	6.3	.6	18	19	13	--	.02
JUN	--	--	--	--	--	--	--	13	--	--
JUL	--	--	--	--	--	--	--	12	--	--
OCT	--	--	--	--	--	--	--	11	.01	--
06...	--	--	--	--	--	--	--	11	.01	--
423548076115702 - CT 2 2-IN LO ZO GLENN ST (LAT 42 35 48 LONG 076 11 57.02)										
DEC , 1975	--	--	--	--	--	--	--	11	--	--
FEB , 1976	36	59	12	4.4	.4	12	20	14	--	.04
JUN	--	--	--	--	--	--	--	11	--	--
JUL	--	--	--	--	--	--	--	11	--	--
OCT	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
423553076121501 - CT 1 6-IN UP ZO ACME L (LAT 42 35 58 LONG 076 12 15.01)										
DEC , 1975	--	--	--	--	--	--	--	30	--	--
FEB , 1976	270	110	15	120	2.3	18	15	392	--	.03
MAR	--	--	--	--	--	--	--	18	--	--
JUN	--	--	--	--	--	--	--	18	--	--
JUL	--	--	--	--	--	--	--	10	--	--
OCT	--	--	--	--	--	--	--	12	.01	--
06...	--	--	--	--	--	--	--	12	.01	--

QUALITY OF GROUND WATER
WATER QUALITY DATA, DECEMBER 1975 TO AUGUST 1977--Continued
CORTLAND COUNTY--Continued

DATE	TIME	WATER LEVEL BELOW LAND SURFACE (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	FECAL COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL./ 100 ML)	HARD- NESS (CA.MG) (MG/L)
423553076121502 - CT 1 1.25-LO 20 ACME (LAT 42 35 58 LONG 076 12 15.02)										
DEC , 1975										
12...	1520	19.77	143	138	325	7.1	11.0	--	--	--
FEB , 1976										
11...	1305	20.08	143	138	315	7.6	10.0	--	--	130
MAR										
09...	1020	16.94	143	138	300	--	10.0	--	--	--
JUN										
15...	1410	20.59	143	138	280	--	11.0	--	--	--
JUL										
26...	1450	19.76	143	138	230	--	12.0	--	--	--
423632076105101 - CT 14 6-IN OTTER C MOUTH (LAT 42 36 32 LONG 076 10 51.01)										
FEB , 1976										
12...	1000	9.26	23	14	430	6.6	9.0	--	--	190
JUN										
18...	1340	9.32	23	14	480	--	10.0	--	--	--
JUL										
08...	1530	8.44	23	14	440	--	10.0	--	--	--
26...	1355	9.26	23	14	520	--	11.5	--	--	--
OCT										
06...	1215	10.19	23	14	430	--	14.0	<1	<1	--
423822076110101 - CP 30 STAFFORD C WELL (LAT 42 38 22 LONG 076 11 01.01)										
FEB , 1977										
25...	1520	--	--	--	880	6.9	9.0	--	--	340
APR										
14...	1450	--	--	--	620	7.5	9.0	--	--	--
AUG										
03...	0850	--	--	--	600	7.2	11.0	--	--	--
423834076112301 - CP 28 HOMER WW SUPPLY (LAT 42 38 34 LONG 076 11 23.01)										
FEB , 1977										
24...	1100	--	--	--	225	6.5	--	--	--	180
APR										
14...	1420	--	--	--	430	7.6	11.0	--	--	--
AUG										
05...	0930	--	--	--	350	7.4	--	--	--	--
423903076105502 - CT 18 HOOKER AVE NW WELL (LAT 42 39 03 LONG 076 10 55.02)										
APR , 1977										
13...	1100	--	--	--	650	7.0	10.0	--	--	280
AUG										
03...	1015	--	--	--	550	7.2	11.0	--	--	--
423903076105701 - CT 18 HOOKER AVE HOMER NY (LAT 42 39 03 LONG 076 10 57.01)										
SEP , 1976										
28...	1100	--	29	24	580	7.4	11.0	--	--	270
424110076092101 - CT 29 RT 11 AND WHITE RD (LAT 42 41 10 LONG 076 09 21.01)										
APR , 1977										
12...	1130	--	--	--	440	7.2	10.0	--	--	190
AUG										
03...	1030	--	--	--	530	7.2	10.0	--	--	--

CONTINUED NEXT PAGE

QUALITY OF GROUND WATER

557

WATER QUALITY DATA, DECEMBER 1975 TO AUGUST 1977--Continued

CORTLAND COUNTY--Continued

DATE	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE- SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS- SIUM (K) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
423553076121502 - CT 1 1.25-LO ZO ACME (LAT 42 35 58 LONG 076 12 15.02)										
DEC , 1975										
12...	--	--	--	--	--	--	--	23	--	--
FEB , 1976										
11...	9	41	6.5	9.9	.9	5.9	14	19	--	.61
MAR										
09...	--	--	--	--	--	--	--	--	.01	--
JUN										
15...	--	--	--	--	--	--	--	14	--	--
JUL										
26...	--	--	--	--	--	--	--	14	--	--
423532076105101 - CT 14 6-IN OTTER C MOUTH (LAT 42 36 32 LONG 076 10 51.01)										
FEB , 1976										
12...	36	60	10	9.1	.7	76	20	19	--	.04
JUN										
18...	--	--	--	--	--	--	--	25	--	--
JUL										
08...	--	--	--	--	--	--	--	23	--	--
26...	--	--	--	--	--	--	--	22	--	--
OCT										
06...	--	--	--	--	--	--	--	18	.01	--
423822076110101 - CP 30 STAFFORD C WELL (LAT 42 38 22 LONG 076 11 01.01)										
FEB , 1977										
25...	83	110	16	50	1.1	63	36	110	.00	.00
APR										
14...	--	--	--	--	--	--	--	40	--	--
AUG										
03...	--	--	--	--	--	--	--	82	.00	--
423834076112301 - CP 28 HOMER WW SUPPLY (LAT 42 38 34 LONG 076 11 23.01)										
FEB , 1977										
24...	40	55	10	4.5	.8	86	20	10	.00	.00
APR										
14...	--	--	--	--	--	--	--	22	--	--
AUG										
05...	--	--	--	--	--	--	--	13	.00	--
423903076105502 - CT 18 HOOKER AVE NW WELL (LAT 42 39 03 LONG 076 10 55.02)										
APR , 1977										
13...	62	82	17	22	1.1	42	17	49	.01	.03
AUG										
03...	--	--	--	--	--	--	--	53	.01	--
423903076105701 - CT 18 HOOKER AVE HOMER NY (LAT 42 39 03 LONG 076 10 57.01)										
SEP , 1976										
28...	55	81	16	22	1.2	17	15	48	.00	--
424110076092101 - CT 29 RT 11 AND WHITE RD (LAT 42 41 10 LONG 076 09 21.01)										
APR , 1977										
12...	26	58	11	2.7	2.3	20	12	7.7	.01	.03
AUG										
03...	--	--	--	--	--	--	--	76	.00	--

QUALITY OF GROUND WATER
WATER QUALITY DATA, DECEMBER 1975 TO AUGUST 1977--Continued
CORTLAND COUNTY--Continued

DATE	TIME	WATER LEVEL BELOW LAND SURFACE (FT)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (JNITS)	TEMPER- ATURE (DEG C)	FECAL COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL./ 100 ML)	HARD- NESS (CA,MG) (MG/L)
424141076092301 - CP 34 JOHN LONG WELL (LAT 42 41 41 LONG 076 09 23.01)										
APR , 1977	14...	1300	--	--	640	7.4	10.0	--	--	250
424149076094901 - CP 42 BOB BELL WELL (LAT 42 41 49 LONG 076 09 49.01)										
FEB , 1977	25...	1345	--	--	340	7.6	--	--	--	160
424305076085002 - CP 38 HARTS DOMESTIC WEL (LAT 42 43 05 LONG 076 08 50.02)										
FEB , 1977	25...	1330	--	--	500	7.5	--	--	--	260
424306076083401 - CT 27 CLARK ROAD (LAT 42 43 06 LONG 076 08 34.01)										
APR , 1977	12...	1215	--	--	600	7.3	11.0	--	--	270
424416076094701 - CT 30 PREBLE ROAD (LAT 42 44 16 LONG 076 09 47.01)										
APR , 1977	13...	1200	--	--	490	7.2	8.0	--	--	230
AUG	03...	1530	--	--	400	7.4	10.0	--	--	--
424451076081901 - CT 25 CURRIE ROAD (LAT 42 44 51 LONG 076 08 19.01)										
FEB , 1977	25...	1030	--	--	420	7.0	9.0	--	--	230
APR	14...	1000	--	--	450	7.7	11.0	--	--	--
AUG	03...	1615	--	--	350	7.4	10.0	--	--	--
424453076084001 - CT 26 SONG LAKE ROAD (LAT 42 44 53 LONG 076 08 40.01)										
FEB , 1977	25...	1100	--	--	325	7.7	9.0	--	--	160
APR	14...	1020	--	--	380	7.5	10.0	--	--	--
AUG	03...	1650	--	--	300	7.4	10.0	--	--	--

CONTINUED NEXT PAGE

QUALITY OF GROUND WATER
WATER QUALITY DATA, DECEMBER 1975 TO AUGUST 1977--Continued
CORTLAND COUNTY--Continued

DATE	NOV- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
424141076092301 - CP 34 JOHN LONG WELL (LAT 42 41 41 LONG 076 09 23.01)										
APR , 1977 14...	59	68	19	28	.7	15	17	73	.01	.02
424149076094901 - CP 42 30B BELL WELL (LAT 42 41 49 LONG 076 09 49.01)										
FEB , 1977 25...	10	50	8.3	7.1	1.5	7.3	14	6.3	.00	.00
424305076085002 - CP 38 HARTS DOMESTIC WEL (LAT 42 43 05 LONG 076 08 50.02)										
FEB , 1977 25...	44	72	19	3.1	1.1	13	19	7.6	.00	.01
424306076083401 - CT 27 CLARK ROAD (LAT 42 43 06 LONG 076 08 34.01)										
APR , 1977 12...	47	73	21	12	.7	22	18	15	.01	.02
424416076094701 - CT 30 PREBLE ROAD (LAT 42 44 16 LONG 076 09 47.01)										
APR , 1977 13...	42	61	19	3.7	1.0	23	18	9.8	.01	.03
AUG 03...	--	--	--	--	--	--	--	9.0	.00	--
424451076081901 - CT 25 CURRIE ROAD (LAT 42 44 51 LONG 076 08 19.01)										
FEB , 1977 25...	30	64	17	3.4	.8	39	20	9.5	.00	.00
APR 14...	--	--	--	--	--	--	--	--	--	--
AUG 03...	--	--	--	--	--	--	--	7.6	.00	--
424453076084001 - CT 26 SONG LAKE ROAD (LAT 42 44 53 LONG 076 08 40.01)										
FEB , 1977 25...	31	49	9.8	3.7	1.0	5.1	18	7.3	.00	.00
APR 14...	--	--	--	--	--	--	--	7.0	--	--
AUG 03...	--	--	--	--	--	--	--	5.8	.00	--

INDEX

	Page		Page
A			
Accuracy of field data and computed results (stage and water-discharge records).....	15	Buffalo Creek at Gardenville.....	274
Acre-foot, definition of.....	4	Butler Brook at Deposit.....	176
Adams, Sandy Creek near.....	413	Burlington, VT, Lake Champlain at.....	464
Alabama, Tonawanda Creek near.....	281	Burtonsville, Schoharie Creek at.....	92
Algae, definition of.....	4	Butternut Creek (tributary to Susquehanna River) at Morris.....	215
Algal growth potential, definition of.....	4	Butternut Creek (tributary to Lake Ontario) near Jamesville.....	398
Allegheny River at Salamanca.....	21, 264		
Allegheny River basin, chemical quality of precipitation in.....	525	C	
crest-stage partial-record stations in.....	480-481	Calendar (1977 water year).....	inside of front cover
discharge at miscellaneous sites in.....	493	Callicoon, Delaware River at.....	186-188
gaging station records in.....	264-268	Callicoon Creek at.....	185
lakes and reservoirs in.....	269	Callicoon Creek at Callicoon.....	185
Allegheny reservoir.....	269	Camillus, Ninemile Creek at.....	392
Allen Creek near Rochester.....	357	Campbell, Cohocton River near.....	253
Almond, Almond Lake near.....	245	Canacadea Creek near Hornell.....	246
Almond Lake near Almond.....	245	Canadaraigo Lake at Schuyler Lake.....	209
Andes, Tremper Kill near.....	165	Canadice Lake near Hemlock.....	339
Aquifer, definition of.....	4	Canadice Outlet near Hemlock.....	339
Arlington, VT, Batten Kill at.....	49	Canandaigua, Canandaigua Lake at.....	377
Arkport, Arkport Reservoir near.....	243	Canandaigua Lake at Canandaigua.....	377
Canisteo River at.....	244	Canandaigua Outlet at Chapin.....	378
Arkport Reservoir near Arkport.....	243	Canaseraga Creek, above Dansville.....	309-311
Artesian, definition of.....	4	at Shakers Crossing.....	317-322
Artificial substrate, definition of.....	9	near Dansville.....	312
Ash mass, definition of.....	5	Caneadea Creek at Caneadea Dam.....	299
Ashokan Reservoir.....	154-156	Caneadea Dam, Caneadea Creek at.....	299
Auburn, Owasco Lake near.....	381	Rushford Lake at.....	299
Owasco Outlet near.....	382	Canisteo River, at Arkport.....	244
Au Sable Forks, East Branch Ausable River at.....	459	below Canacadea Creek, at Hornell.....	247
Ausable River, East Branch, at Au Sable Forks..	459	Cannonsville Reservoir.....	206-208
Avon, Genesee River at.....	330-334	Carry Falls Reservoir.....	470
		Castleton-on-Hudson, Moordener Kill at.....	121
B			
Bacteria, definition of.....	4	Catharine Creek at Montour Falls.....	370
Baldwinsville, Seneca River at.....	384	Catskill Creek at Oak Hill.....	126-127
Barre Center, Manning Muckland Creek near.....	291	Cattaraugus Creek, at Gowanda.....	271-272
Barryville, Delaware River at.....	194-195	at Irving.....	273
Delaware River above Lackawaxen River near... 191-193		Caughdenoy, Oneida River at.....	400
Batavia, Tonawanda Creek at.....	280	Cayuga Creek near Lancaster.....	275
Batten Kill at Arlington, VT.....	49	Cayuga Inlet near Ithaca.....	374
Beaver Kill at Cooks Falls.....	168	Cayuga Lake at Ithaca.....	375
Beaver River, at Croghan.....	421	Cazenovia Creek at Ebenezer.....	276
below Stillwater Dam, near Beaver River.....	420	Cells/volume, definition of.....	5
Stillwater Reservoir near.....	419	Cfs-day, definition of.....	5
Beaver Swamp Brook at Mamaroneck.....	30	Chadakoivn River at Falconer.....	268
Beaver Swamp Brook basin, gaging-station records in.....	30	Champlain, Lake (see Lake Champlain)	
Bed material, definition of.....	4	Chapin, Canandaigua Outlet at.....	378
Bemus Point, Chautauqua Lake at.....	267	Chasm Falls, Salmon River at.....	454
Biochemical oxygen demand, definition of.....	4	Chateaugay, Chateaugay River below.....	456
Biomass, definition of.....	5	Chateaugay River below Chateaugay.....	456
Black Creek at Churchville.....	347	Chautauqua Lake at Bemus Point.....	267
Black River, at Watertown.....	422-428	Chemical oxygen demand, definition of.....	5
near Boonville.....	415	Chemung, Chemung River at.....	257-262
Black River Canal (flowing south) near Boonville.....	414	Chemung River, at Chemung.....	257-262
Blind Brook at Rye.....	29	at Corning.....	254
Blind Brook basin, gaging-station records in..	29	Chenango Forks, Chenango River near.....	230
Blue-green algae, definition of.....	8	Chenango River, at Sherburne.....	219
Bolton Landing, Northwest Bay Brook near.....	461	near Chenango Forks.....	230
Bombay, Little Salmon River at.....	455	Chestnut Creek at Grahamsville.....	139
Bond Creek at Dunham Basin.....	48	Chlorophyll, definition of.....	5
Boonville, Black River near.....	415	Churchville, Black Creek at.....	347
Black River Canal (flowing south) near.....	414	Cincinnati, Otselic River at.....	228
Bottom material, definition of.....	5	Claryville, Neversink River near.....	202
Brasher Center, St. Regis River at.....	446-452	Cliff Lake.....	206-207
Breakabeen, Schoharie Creek at.....	91	Coeymans Creek near Selkirk.....	122-123
Breesport, Newtown Creek at.....	255	Cohocton, Cohocton River at.....	249
Brewerton, Oneida Lake at.....	399	Cohocton River, at Cohocton.....	249
Bronx River at Bronxville.....	33	near Campbell.....	253
Bronx River basin, gaging-station records in..	33	Cohoes, Mohawk River at.....	99-106
Bronxville, Bronx River at.....	33	Coldbrook, Esopus Creek at.....	135-136
Buffalo, Lake Erie at.....	277	Collection and computation of data (stage and water-discharge records).....	12
Niagara River at.....	278	Collection and examination of data (water-quality records).....	15
Scajaquada Creek at.....	279	Collection of data (ground-water level records).....	17

	Page		Page
Color unit, definition of.....	5	East Sidney, East Sidney Lake at.....	211
Conesus Lake near Lakeville.....	329	Ouleout Creek at.....	212
Conewango Creek, at Waterboro.....	266	East Sidney Lake at East Sidney.....	211
below South Dayton.....	265	East Virgil, Gridley Creek above.....	225-227
Conklin, Susquehanna River at.....	20, 218	Ebenezer, Cazenovia Creek at.....	276
Conklingville, Great Sacandaga Lake at.....	41	Elba, Manning Muckland Creek tributary near....	292
Cooks Falls, Beaver Kill at.....	168	Ellenville, Sandburg Creek at.....	140
Cooperation.....	2	Ellicott Creek below Williamsville.....	282
Contents, definition of.....	5	Elmira, Newtown Creek at.....	256
Control, definition of.....	5	Erie (Barge) Canal at Lock 30, Macedon.....	283
Control structure, definition of.....	5	Erie, Lake (see Lake Erie)	
Corning, Chemung River at.....	254	Erwins, Tioga River near.....	248
Cortland, Tioughnioga River at.....	223-224	Esopus Creek, at Coldbrook.....	135-136
Cranberry Lake.....	470	at Mount Marion.....	137
Cranberry Lake, Oswegatchie River at.....	430	at Shandaken.....	130-134
Cranesville, Mohawk River at Lock 10 at.....	95-96		
Crest-stage partial-record stations,		F	
Annual maximum discharge at.....	475-487	Factory Brook at Homer.....	220
Croghan, Beaver River at.....	421	Fair Haven, VT, Poultney River below.....	463
Croton-on-Hudson, Croton River		Falconer, Chadakoin River at.....	268
at New Croton Dam near.....	149	Fall Creek near Ithaca.....	376
Croton River at New Croton Dam		Payatteville, Limestone Creek at.....	397
near Croton-on-Hudson.....	149	Fecal coliform bacteria, definition of.....	4
Cubic foot per second, definition of.....	5	Fecal streptococcal bacteria, definition of....	4
Cubic feet per second per square mile,		First Lake (in Fulton Chain of Lakes).....	429
definition of.....	5	Fish Creek, East Branch at Taberg.....	395
		Fish Eddy, East Branch Delaware River at.....	169-171
D		Fivemile Creek near Kanona.....	250
Dansville, Canaseraga Creek above.....	309-311	Flint Creek, at Phelps.....	380
Canaseraga Creek near.....	312	at Potter.....	379
Deer River at North Lawrence.....	453	Florida, Quaker Creek at.....	146
Definition of terms.....	4	Fort Edward, Hudson River at.....	47
DeForest Lake.....	159	Fort Niagara, Niagara River (Lake Ontario) at..	284-290
Delaware River, above Lackawaxen River near		Fort Plain, Otsego Creek at.....	79
Barryville.....	191-193	Franks Creek near West Valley.....	270
at Barryville.....	194-195	Fulton Chain of Lakes.....	429
at Callicoon.....	186-188		
at Lordville.....	183-184	G	
at Montague, NJ.....	205	Gage height, definition of.....	6
at Pond Eddy.....	196-197	Gaging station, definition of.....	6
at Port Jervis.....	199-201	Gaging station records.....	28-470
at Skimmers Falls.....	189-190	Gaging stations, List of, in downstream order..	VI
East Branch, at Downsville.....	166	Garbutt, Oatka Creek at.....	343-345
at Fish Eddy.....	169-171	Gardenville, Buffalo Creek at.....	274
at Margaretville.....	163	Gardiner, Wallkill River at.....	147
West Branch, at Hale Eddy.....	180-182	Gaylordsville, CT, Tenmile River near.....	28
at Stilesville.....	173-175	Genesee River, at Avon.....	330-334
at Walton.....	172	at Ballantyne Bridge near Mortimer.....	346
Delaware River basin, crest-stage		at Charlotte Docks at Rochester.....	352-355
partial-record stations in.....	478-479	at Portageville.....	300-307
discharge at miscellaneous sites in.....	490	at Rochester.....	348-351
diversions from.....	208	at Wellsville.....	296-298
gaging-station records in.....	163-205	near Mount Morris.....	323-328
low-flow partial-record stations in.....	471	George, Lake (see Lake George)	
reservoirs in.....	206-207	Gilboa, Platter Kill at.....	85
Delta Reservoir.....	154-155	Schoharie Creek at.....	84
Deposit, Butler Brook at.....	176	Glen Aubrey, East Branch Nanticoke Creek above..	232
Diatoms, definition of.....	8	Glenmont, Hudson River at.....	119-120
Discharge, definition of.....	6	Glens Falls feeder at Dunham Basin.....	43
Dissolved, definition of.....	6	Glens Falls, Hudson River at.....	44-46
Diversions:		Godeffroy, Neversink River at.....	204
Black River canal (flowing south) near		Gowanda, Cattaraugus Creek at.....	271-272
Boonville.....	156, 414	Grahamsville, Chestnut Creek at.....	139
Delaware River basin.....	208	Grand Gorge, Schoharie Reservoir near.....	83
Glens Falls feeder at Dunham basin.....	43, 156	Grass River at Pyrites.....	442
Hackensack River basin.....	160	Great Bend, PA, Susquehanna River near.....	217
Hudson River basin.....	156	Great Sacandaga Lake at Conklingville.....	41
Mohawk River at Crescent Dam.....	100	Green algae, definition of.....	8
Susquehanna River basin.....	263	Green Island, Hudson River at.....	107-113
Waneta Lake to Keuka Lake at Keuka.....	251	Green River at Williamstown, MA.....	62
Diversity index, definition of.....	6	Gridley Creek, above East Virgil.....	225-227
Donnattsburg, Independence River at.....	416-418	Griffin, East Branch Sacandaga River at.....	39
Downstream order and station numbers.....	11	Ground-water level records.....	529-547
Downsville, East Branch Delaware River at.....	164	Explanation of.....	17
Drainage area, definition of.....	6	Ground-water records, Quality of.....	548-559
Drainage basin, definition of.....	6	Guilderland, Hunger Kill at.....	115-116
Dresden, Keuka Lake Outlet at.....	373		
Dry mass, definition of.....	5	H	
Dunham Basin, Bond Creek at.....	48	Hackensack River, at Rivervale, NJ.....	158
Glens Falls feeder at.....	43	at West Nyack.....	157
Dunraven, Mill Brook near.....	164	Hackensack River basin, crest-stage	
		partial-record stations in.....	478
E		diversions from.....	160
Eagle Bridge, Hoosic River near.....	65	gaging-station records in.....	157-158
East Canada Creek at East Creek.....	78	reservoirs in.....	159
East Creek, East Canada Creek at.....	78	Hadley, Hudson River at.....	38
East Greenbush, Mill Creek near.....	114	Sacandaga River, at Stewarts Bridge near....	42
East Rochester, Irondequoit Creek at.....	356	Hale Eddy, West Branch Delaware River at.....	180-182

	Page		Page
Hammondsport, Keuka Lake at.....	372	La Chute at Ticonderoga.....	462
Hannacrois Creek near New Baltimore.....	124-125	Lake Champlain, at Burlington, VT.....	464
Harbor Brook, at Hiawatha Boulevard, Syracuse..	389	(Richelieu River) at Rouses Point.....	465-469
at Syracuse.....	388	Lake Erie at Buffalo.....	277
Hardness, definition of.....	6	Lake Erie, Streams tributary to, crest-stage	
Harrisville, West Branch Oswegatchie		partial-record stations for.....	481
River near.....	22, 431	gaging-station records for.....	270-276
Hemlock, Canadice Lake near.....	339	low-flow partial-record stations for.....	472
Canadice Outlet near.....	339	Lake George at Rogers Rock.....	460
Hemlock Lake near.....	336-338	Lake Ontario, at Oswego.....	412
Hemlock Lake near Hemlock.....	336-338	(point A) near Webster.....	362-365
Hensonville, Silver Lake Outlet at.....	80	(point B) near Webster.....	366-368
Heuvelton, Oswegatchie River near.....	432	Lake Ontario basin, chemical quality	
Hinckley Reservoir.....	154-156	of precipitation in.....	526
Homer, Factory Brook at.....	220	Lake Ontario, Streams tributary to,	
West Branch Tioughnioga River at.....	221-222	crest-stage partial-record stations for..	482-485
Honeoye, Honeoye Lake near.....	335	discharge at miscellaneous sites for.....	493-496
Honeoye Creek at Honeoye Falls.....	340	gaging-station records for.....	291-428
Honeoye Falls, Honeoye Creek at.....	340	lakes and reservoirs in.....	429
Honeoye Lake near Honeoye.....	335	low-flow partial-record stations for.....	472-474
Hoosic River, near Eagle Bridge.....	65	water-quality partial-record stations for....	497-514
near Williamstown, MA.....	61	Lake Placid at Lake Placid.....	458
Hope, Sacandaga River near.....	40	Lakeland, Ninemile Creek at.....	393
Hornell, Canacadea Creek near.....	246	Lakes and reservoirs:	
Canisteo River below Canacadea Creek at.....	247	Allegheny Reservoir.....	269
Housatonic River basin, crest-stage		Allegheny River basin,	
partial-record stations in.....	475	lakes and reservoirs in.....	269
gaging-station records in.....	28	Almond Lake near Almond.....	245
Hudson River, at Fort Edward.....	47	Arkport Reservoir near Arkport.....	243
at Glenmont.....	119-120	Ashokan Reservoir.....	154-156
at Glens Falls.....	44-46	Canadice Lake near Hemlock.....	339
at Green Island.....	107-113	Canadarago Lake at Schuyler Lake.....	209
at Hadley.....	38	Canandaigua Lake at Canandaigua.....	377
at North Creek.....	37	Cannonsville Reservoir.....	206-208
at Schuylerville.....	50-53	Carry Falls Reservoir.....	470
at Stillwater.....	57-60	Cayuga Lake at Ithaca.....	375
at Waterford.....	66-72	Champlain, Lake, at Burlington, VT.....	464
near Newcomb.....	34	(Richelieu River) at Rouses Point.....	465-469
Hudson River basin, chemical quality of		Chautauqua Lake at Bemus Point.....	267
precipitation in.....	521-523	Cliff Lake.....	206-207
crest-stage partial-record stations in.....	475-478	Conesus Lake near Lakeville.....	329
discharge at miscellaneous sites in.....	488-490	Cranberry Lake.....	470
diversions in.....	156	DeForest Lake.....	159
gaging-station records in.....	34-153	Delaware River basin, reservoirs in.....	206-207
low-flow partial-record stations in.....	471	Delta Reservoir.....	154-155
reservoirs in.....	154-155	East Sidney Lake at East Sidney.....	211
water-quality miscellaneous sites in.....	515-520	Erie, Lake, at Buffalo.....	277
Hunger Kill at Guilderland.....	115-116	First Lake (in Fulton Chain of Lakes).....	429
Hutchinson River at Pelham.....	32	Fulton Chain of Lakes.....	429
Hutchinson River basin, gaging-station		George, Lake, at Rogers Rock.....	460
records in.....	32	Great Sacandaga Lake at Conklingville.....	41
Hydrographic comparisons.....	20-23	Hackensack River basin, reservoirs in.....	159
Hydrologic bench-mark station.....	130	Hemlock Lake near Hemlock.....	336-338
definition of.....	12	Hinckley Reservoir.....	154-156
Hydrologic conditions.....	3	Honeoye Lake near Honeoye.....	335
Hydrologic unit, definition of.....	6	Hudson River basin, reservoirs in.....	154-155
		Indian Lake near Indian Lake.....	35
I		Keuka Lake at Hammondsport.....	372
Independence River at Donnattsburg.....	416-418	Mount Morris Lake near Mount Morris.....	308
Index, Oaks Creek at.....	210	Neversink Reservoir.....	207-208
Indian Lake, Indian River near.....	36	Oneida Lake at Brewerton.....	399
Indian Lake near Indian Lake.....	35	Onondaga Lake at Liverpool.....	394
Indian River near Indian Lake.....	36	Onondaga Reservoir near Nedrow.....	385
Instantaneous discharge, definition of.....	6	Ontario, Lake, at Oswego.....	412
Introduction.....	1	near Rochester.....	293-295
Irondequoit Creek,		(point A) near Webster.....	362-365
at Browncroft Boulevard, Rochester.....	358-361	(point B) near Webster.....	366-368
at East Rochester.....	356	Streams tributary to,	
Irving, Cattaraugus Creek at.....	273	lakes and reservoirs in.....	429
Ithaca, Fall Creek near.....	376	Oradell Reservoir, NJ.....	159
Cayuga Inlet near.....	374	Owasco Lake near Auburn.....	381
Cayuga Lake at.....	375	Pepacton Reservoir.....	206-208
		Placid, Lake, at Lake Placid.....	458
J		Rondout Reservoir.....	154-156
Jamesville, Butternut Creek near.....	398	Rushford Lake at Caneadea Dam.....	299
Johnson City, Susquehanna River at.....	231	St. Lawrence River, Streams tributary to,	
		lakes and reservoirs in.....	470
K		Schoharie Reservoir near Grand Gorge.....	83
Kanona, Fivemile Creek near.....	250	Seneca Lake at Watkins Glen.....	371
Kast Bridge, West Canada Creek at.....	76	Sixth Lake (in Fulton Chain of Lakes).....	429
Kayaderosseras Creek near West Milton.....	54-56	Skaneateles Lake at Skaneateles.....	383
Keshequa Creek at Craig Colony, Sonyea.....	313-316	Stillwater Reservoir near Beaver River.....	419
Keuka, diversion from		Susquehanna River basin,	
Waneta Lake to Keuka Lake at.....	251	lakes and reservoirs in.....	263
Keuka Lake at Hammondsport.....	372	Swinging Bridge Reservoir.....	206-207
Keuka Lake Outlet at Dresden.....	373	Tappan, Lake, NJ.....	159
		Toronto Reservoir.....	206-207
		Whitney Point Lake at Whitney Point.....	229
		Woodcliff Lake, NJ.....	159

	Page		Page
Plattsburgh, Saranac River at.....	457	Schoharie Reservoir near Grand Gorge.....	83
Pochuck Creek near Pine Island.....	145	Schuyler Lake, Canadago Lake at.....	209
Polychlorinated biphenyls (PCBs), definition of.....	8	Schuylerville, Hudson River at.....	50-53
Pond Eddy, Delaware River at.....	196-197	Sediment.....	16
Port Jervis, Delaware River at.....	199-201	Sediment, definition of.....	9
Portageville, Genesee River at.....	300-307	Selkirk, Coeymans Creek near.....	122-123
Potter, Flint Creek at.....	379	Seneca Lake at Watkins Glen.....	371
Poultney River below Fair Haven, VT.....	463	Seneca River at Baldwinsville.....	384
Prattsville, Schoharie Creek at.....	81-82	Shakers Crossing, Canaseraga Creek at.....	317-322
Precipitation-quality stations, Analyses of samples collected:		Shandaken, Esopus Creek at.....	130-134
at Allegany State Park.....	525	Sherburne, Chenango River at.....	219
at Hinckley.....	523	Silver Lake Outlet at Hensonville.....	80
at Mays Point.....	526	Sixth Lake (in Fulton Chain of Lakes).....	429
at Rock Hill.....	521	Skaneateles, Skaneateles Lake at.....	383
near Albany.....	522	Skaneateles Lake at Skaneateles.....	383
near Athens, PA.....	524	Skinnners Falls, Delaware River at.....	189-190
near Canton.....	527	Solute, definition of.....	9
near Chazy.....	528	Sonyaev, Keshequa Creek at Craig Colony.....	313-316
Primary productivity, definition of.....	8	South Colton, Raquette River at.....	444
Publications on techniques of water-resources investigations.....	18	South Dayton, Conewango Creek below.....	265
Pyrites, Grass River at.....	442	Sparkill, Sparkill Creek at.....	150-151
		Sparkill Creek at Sparkill.....	150-151
		Special networks and programs.....	12
		Specific conductance, definition of.....	9
		Stage and water-discharge records, Explanation of.....	12
Quaker Creek at Florida.....	146	Stage-discharge relation, definition of.....	9
		Sterling, Sterling Creek at.....	369
		Sterling Creek at Sterling.....	369
		Stilesville, West Branch Delaware River at.....	173-175
		Stillwater, Hudson River at.....	57-60
		Stillwater Reservoir near Beaver River.....	419
		Streamflow, definition of.....	9
		Substrate, definition of.....	9
		Suffern, Mahwah River near.....	161
		Surface area, definition of.....	10
		Surficial bed material, definition of.....	10
		Suspended, definition of.....	10
		Suspended sediment, definition of.....	9
		Suspended-sediment concentration, definition of.....	9
		Suspended-sediment discharge, definition of....	9
		Suspended-sediment load, definition of.....	9
		Susquehanna River, at Conklin.....	20, 218
		at Johnson City.....	231
		at Sayre, PA.....	236
		at Unadilla.....	213
		near Great Bend, PA.....	217
		near Waverly.....	235
		Susquehanna River basin, chemical quality of precipitation in.....	524
		crest-stage partial-record stations in.....	479-480
		discharge at miscellaneous sites in.....	490-493
		diversions from.....	263
		gaging-station records in.....	209-262
		lakes and reservoirs in.....	263
		low-flow partial-record stations in.....	472
		water-quality miscellaneous sites in.....	516-518
		Swinging Bridge Reservoir.....	206-207
		Syracuse, Harbor Brook at.....	388
		Harbor Brook, at Hiawatha Boulevard.....	389
		Ley Creek at Park Street.....	390
		Onondaga Creek at Dorwin Avenue.....	386
		Onondaga Creek at Spencer Street.....	387
		T	
		Taberg, East Branch Fish Creek at.....	395
		Tappan, Lake, NJ.....	159
		Taxonomy, definition of.....	10
		Tenmile Creek at Oak Hill.....	128-129
		Tenmile River near Gaylordsville, CT.....	28
		Ticonderoga, La Chute at.....	462
		Time-weighted average, definition of.....	10
		Tioga River, at Lindley.....	237-242
		near Erwins.....	248
		Tiougnioiga River, at Cortland.....	223-224
		West Branch, at Homer.....	221-222
		Tonawanda Creek, at Batavia.....	280
		near Alabama.....	281
		Tons per acre-foot, definition of.....	10
		Tons per day, definition of.....	10
		Toronto Reservoir.....	206-207
		Total coliform bacteria, definition of.....	4
		Total load, definition of.....	10
		Total organism count, definition of.....	7
		Total sediment discharge, definition of.....	9
		Tremper Kill near Andes.....	165
		Tribes Hill, Mohawk River at.....	93-94

	Page		Page
U			
Unadilla, Susquehanna River at.....	213	Waverly, Susquehanna River near.....	235
Unadilla River at Rockdale.....	216	Webster, Lake Ontario (point A) near.....	362-365
Union Center, Nanticoke Creek at.....	233	Lake Ontario (point B) near.....	366-368
Unionville, Wallkill River near.....	142-144	Weighted average, definition of.....	10
U.S. customary units-International System	inside of	Wells, system for numbering.....	11
(SI) units, factors for converting.....	back cover	Wellsville, Genesee River at.....	296-298
W			
Waddington, St. Lawrence River near.....	433	West Canada Creek at Kast Bridge.....	76
Wallkill River, at Gardiner.....	147	West Kill at North Blenheim.....	90
near Unionville.....	142-144	West Milton, Kayaderosseras Creek near.....	54-56
Walloomsac River near North Bennington, VT.....	64	West Nyack, Hackensack River at.....	157
Walton, West Branch Delaware River at.....	172	West Valley, Franks Creek near.....	270
Wappinger Creek near Wappingers Falls.....	23, 148	Westmere, Normans Kill near.....	117-118
Wappingers Falls, Wappinger Creek near.....	23, 148	Wet mass, definition of.....	5
Warsaw, Oatka Creek at.....	341-342	Whitney Point, Whitney Point Lake at.....	229
Water analysis.....	16	Whitney Point Lake at Whitney Point.....	229
Water-discharge records, Explanation of,		Williamstown, MA, Green River at.....	62
(see Stage and water-discharge records,		Hoosic River near.....	61
Explanation of)		Williamsville, Ellicott Creek below.....	282
Water-quality records, Explanation of.....	15	Woodcliff Lake, NJ.....	159
Water temperatures.....	16	WRD, definition of.....	10
Waterboro, Conewango Creek at.....	266	WSP, definition of.....	10
Waterford, Hudson River at.....	66-72	Y	
Watertown, Black River at.....	422-428	Yonkers, Saw Mill River at.....	152-153
Watkins Glen, Seneca Lake at.....	371	Z	
		Zooplankton, definition of.....	8

FACTORS FOR CONVERTING U.S. CUSTOMARY UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the U.S. customary units published herein to the International System of Units (SI). Subsequent reports will contain both the U.S. customary and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply U.S. customary units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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