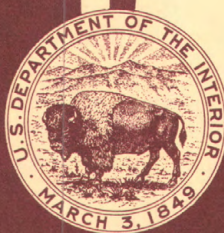
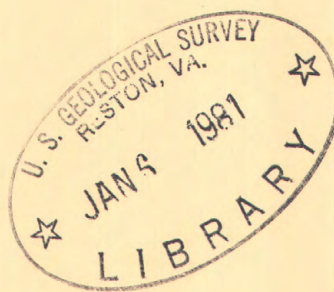


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Water Resources Data for New York

Part 1. Surface Water Records



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

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

CALENDAR FOR WATER YEAR 1973

1972

OCTOBER

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1973

**Water Resources Data
for
New York**

Part 1. Surface Water Records



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

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

State Department of Environmental Conservation
State Department of Transportation
State Power Authority
Board of Hudson River-Black River Regulating District
Oswegatchie River-Cranberry Reservoir Commission
Central New York State Parks Commission
County of Chautauqua, Planning Department
County of Cortland, Planning Department
County of Dutchess
County of Nassau, Department of Public Works
County of Onondaga, Department of Public Works
County of Onondaga, Water Authority
County of Orange, Department of Public Works
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
Town of Brighton
Town of Clarkstown
Town of Warwick
Village of Nyack, Board of Water Commissioners
Corps of Engineers, U.S. Army

Water resources records, 1973, for New York are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for New York
Part 1: Surface Water Records
2. Water Resources Data for New York
Part 2: Water Quality Records

Copies of this report may be obtained from:

District Chief, Water Resources Division
U.S. Geological Survey
U.S. Post Office and Court House
P.O. Box 1350
Albany, N.Y. 12201

CONTENTS

III

	Page
List of gaging stations, in downstream order, for which records are published.....	IV
Introduction.....	1
Cooperation.....	2
Definition of terms.....	3
Special networks and programs.....	6
Downstream order and station numbers.....	6
Surface-water data.....	7
Collection and computation of data.....	7
Accuracy of data.....	12
Publications.....	13
Other data available.....	13
Hydrologic conditions.....	14
Selected references.....	15
Gaging-station records.....	28
Discharge at partial-record stations and miscellaneous sites.....	281
Low-flow partial-record stations.....	282
Crest-stage partial-record stations.....	291
Discharge measurements at miscellaneous sites.....	298
Index.....	314

ILLUSTRATIONS

	Page
Figure 1 Hydrographic comparisons, Susquehanna River at Conklin, N.Y.....	16
2 Hydrographic comparisons, Allegheny River at Salamanca, N. Y.....	17
3 Hydrographic comparisons, West Branch Oswegatchie River near Harrisville, N. Y.....	18
4 Hydrographic comparisons, Wappinger Creek near Wappingers Falls, N. Y.....	19
5 Index for gaging station location maps.....	20
6-12 Maps showing location of gaging stations.....	21
13 Map showing gaging stations and diversions near mouth of Mohawk River.....	78
14 Map showing gaging stations and transbasin diversion, Cohocton River - Keuka Lake area.....	173

TABLE I

	Page
Factors for converting English units to International System (SI) Units.....	5

IV GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

	Page
<u>HOUSATONIC RIVER BASIN</u>	
Housatonic River:	
Tenmile River near Gaylordsville, Conn.....	28
<u>BLIND BROOK BASIN</u>	
Blind Brook at Rye.....	29
<u>BEAVER SWAMP BROOK BASIN</u>	
Beaver Swamp Brook at Mamaroneck.....	30
<u>MAMARONECK RIVER BASIN</u>	
Mamaroneck River at Mamaroneck.....	31
<u>HUTCHINSON RIVER BASIN</u>	
Hutchinson River at Pelham.....	32
<u>BRONX RIVER BASIN</u>	
Bronx River at Bronxville.....	33
<u>STREAMS ON LONG ISLAND</u>	
Glen Cove Creek at Glen Cove.....	34
Mill Neck Creek at Mill Neck.....	35
Cold Spring Brook at Cold Spring Harbor.....	36
Nissequogue River near Smithtown.....	37
Peconic River at Riverhead.....	38
Carmans River at Yaphank.....	39
Swan River at East Patchogue.....	40
Connetquot River near Oakdale.....	41
Penataquit Creek at Bay Shore.....	42
Sampawams Creek at Babylon.....	43
Carlls River at Babylon.....	44
Massapequa Creek at Massapequa.....	45
Bellmore Creek at Bellmore.....	46
East Meadow Brook at Freeport.....	47
Pines Brook at Malverne.....	48
Valley Stream at Valley Stream.....	49
<u>HUDSON RIVER BASIN</u>	
Hudson River near Newcomb.....	50
Indian Lake (head of Indian River) near Indian Lake.....	51
Indian River near Indian Lake.....	52
Hudson River at North Creek.....	53
Hudson River at Hadley.....	54
Sacandaga River:	
East Branch Sacandaga River at Griffin.....	55
Sacandaga River near Hope.....	56
Great Sacandaga Lake at Conklingville.....	57
Sacandaga River at Stewarts Bridge, near Hadley.....	58
Glens Falls feeder at Dunham Basin.....	59
Bond Creek at Dunham Basin.....	60
Batten Kill at Arlington, Vt.....	61
Kayaderosseras Creek near West Milton.....	62
Hoosic River near Williamstown, Mass.....	63
Green River at Williamstown, Mass.....	64
Little Hoosic River at Petersburg.....	65

LIST OF GAGING STATIONS

V

	Page
<u>HUDSON RIVER BASIN--Continued</u>	
Hoosic River near Williamstown, Mass.--Continued	
Walloomsac River near North Bennington, Vt.....	66
Hoosic River near Eagle Bridge.....	67
Mohawk River:	
Black River Canal (flowing south) near Boonville.....	247
Mohawk River below Delta Dam, near Rome.....	68
West Canada Creek at Kast Bridge.....	69
Mohawk River near Little Falls.....	70
East Canada Creek at East Creek.....	71
Otsquago Creek at Fort Plain.....	72
Schoharie Creek at Prattsville.....	73
Schoharie Reservoir near Grand Gorge.....	74
Schoharie Creek at North Blenheim.....	75
Schoharie Creek at Burtonsville.....	76
Mohawk River at Cohoes.....	77
Hudson River at Green Island.....	79
Hudson River at Albany.....	80
Normans Kill:	
Hunger Kill at Guilderland.....	81
Normans Kill near Westmere.....	82
Moordener Kill at Castleton-on-Hudson.....	83
Coeymans Creek near Selkirk.....	84
Hannacrois Creek near New Baltimore.....	85
Catskill Creek at Oak Hill.....	86
Tenmile Creek at Oak Hill.....	87
Esopus Creek at Shandaken.....	88
Esopus Creek at Coldbrook.....	89
Esopus Creek at Mount Marion.....	90
Rondout Creek near Lowes Corners.....	91
Chestnut Creek at Grahamsville.....	92
Sandburg Creek at Ellenville.....	93
Rondout Creek at Rosendale.....	94
Wallkill River near Unionville.....	95
Pochuck Creek near Pine Island.....	96
Quaker Creek at Florida.....	97
Wallkill River at Gardiner.....	98
Hudson River at Staatsburg.....	99
Wappinger Creek:	
Casper Creek near Wappingers Falls.....	100
Wappinger Creek near Clinton Corners.....	101
Little Wappinger Creek at Salt Point.....	102
Wappinger Creek near Wappingers Falls.....	103
Fishkill Creek at Hopewell Junction.....	104
Croton River at New Croton Dam, near Croton-on-Hudson.....	105
Saw Mill River at Yonkers.....	106
Reservoirs and diversions in Hudson River basin.....	107

	Page
<u>HACKENSACK RIVER BASIN</u>	
Hackensack River at West Nyack.....	110
Hackensack River at Rivervale, N. J.....	111
Reservoirs and diversions in Hackensack River basin.....	112
<u>PASSAIC RIVER BASIN</u>	
Pequannock River (head of Pompton River):	
Ramapo River:	
Mahwah River near Suffern.....	114
Ramapo River near Mahwah, N. J.....	115
<u>DELAWARE RIVER BASIN</u>	
East Branch Delaware River at Margaretville.....	116
Mill Brook near Dunraven.....	117
Tremper Kill near Andes.....	118
East Branch Delaware River at Downsville.....	119
Beaver Kill:	
Willowemoc Creek:	
Little Beaver Kill near Livingston Manor.....	120
Beaver Kill at Cooks Falls.....	121
East Branch Delaware River at Fishs Eddy.....	122
West Branch Delaware River at Walton.....	123
West Branch Delaware River at Stilesville.....	124
Oquaga Creek near North Sanford.....	125
Oquaga Creek at Deposit.....	126
West Branch Delaware River at Hale Eddy.....	127
Delaware River near Callicoon.....	128
Callicoon Creek at Callicoon.....	129
Tenmile River at Tusten.....	130
Delaware River above Lackawaxen River near Barryville.....	131
Lackawaxen River at Hawley, Pa.....	132
Wallenpaupack Creek at Wilsonville, Pa.....	133
Mongaup River near Mongaup.....	134
Delaware River at Port Jervis.....	135
Neversink River near Claryville.....	136
Neversink River at Neversink.....	137
Neversink River at Woodbourne.....	138
Neversink River at Oakland Valley.....	139
Neversink River at Godeffroy.....	140
Delaware River at Montague, N.J.....	141
Reservoirs and diversions in Delaware River basin.....	142
<u>SUSQUEHANNA RIVER BASIN</u>	
Susquehanna River:	
Canadarago Lake (head of Oaks Creek) at Schuyler Lake.....	146
Oaks Creek at Index.....	147
Charlotte Creek at West Davenport.....	148
Ouleout Creek:	
East Sidney Lake at East Sidney.....	149
Ouleout Creek at East Sidney.....	150

LIST OF GAGING STATIONS

VII

	Page
<u>SUSQUEHANNA RIVER BASIN--Continued</u>	
Susquehanna River at Unadilla.....	151
Unadilla River:	
Butternut Creek at Morris.....	152
Unadilla River at Rockdale.....	153
Susquehanna River at Conklin.....	154
Chenango River at Sherburne.....	155
Canasawacta Creek near South Plymouth.....	156
Tioughnioga River:	
West Branch Tioughnioga River at Homer.....	157
Tioughnioga River at Cortland.....	158
Otselic River at Cincinnatus.....	159
Whitney Point Lake at Whitney Point.....	160
Chenango River near Chenango Forks.....	161
Susquehanna River:	
Owego Creek near Owego.....	162
Susquehanna River near Waverly.....	163
Tioga River (head of Chemung River) at Lindley.....	164
Arkport Reservoir near Arkport.....	165
Canisteo River at Arkport.....	166
Almond Lake near Almond.....	167
Canacadea Creek near Hornell.....	168
Canisteo River below Canacadea Creek, at Hornell.....	169
Tioga River near Erwins.....	170
Cohocton River at Cohocton.....	171
Fivemile Creek near Kanona.....	172
Diversion from Waneta Lake to Keuka Lake.....	173
Mud Creek near Savona.....	174
Cohocton River near Campbell.....	175
Chemung River:	
Newtown Creek at Elmira.....	176
Chemung River at Chemung.....	177
Lakes and Reservoirs in Susquehanna River basin.....	178
<u>ALLEGHENY RIVER BASIN (HEAD OF OHIO RIVER)</u>	
Allegheny River at Salamanca.....	179
Conewango Creek at Waterboro.....	180
Cassadaga Creek:	
Chautauqua Lake at Bemis Point.....	181
Chautauqua Lake at Celeron.....	182
Chautauqua Lake near Mayville.....	183
Chadakoin River at Falconer.....	184
Lakes and Reservoirs in Allegheny River basin.....	185
<u>STREAMS TRIBUTARY TO LAKE ERIE</u>	
Cattaraugus Creek at Gowanda.....	186
Buffalo Creek at Gardenville.....	187
Cazenovia Creek at Ebenezer.....	188
Lake Erie at Buffalo.....	189

	Page
<u>NIAGARA RIVER BASIN</u>	
Niagara River at Buffalo.....	190
Scajaquada Creek at Buffalo.....	191
Tonawanda Creek at Batavia.....	192
Tonawanda Creek near Alabama.....	193
Ellicott Creek below Williamsville.....	194
Erie (Barge) Canal at lock 30, Macedon.....	195
<u>STREAMS TRIBUTARY TO LAKE ONTARIO</u>	
Genesee River at Wellsville.....	196
Rushford Lake at Caneadea Dam.....	197
Caneadea Creek at Caneadea Dam.....	197
Genesee River at Portageville.....	198
Mount Morris Lake near Mount Morris.....	199
Canaseraga Creek near Dansville.....	200
Genesee River near Mount Morris.....	201
Conesus Lake near Lakeville.....	202
Genesee River at Avon.....	203
Honeoye Lake near Honeoye.....	204
Honeoye Creek:	
Hemlock Lake Outlet:	
Canadice Outlet near Hemlock.....	205
Honeoye Creek at Honeoye Falls.....	206
Oatka Creek at Warsaw.....	207
Oatka Creek at Garbutt.....	208
Black Creek at Churchville.....	209
Genesee River at Rochester.....	210
Irondequoit Creek:	
Allen Creek near Rochester.....	211
Sterling Creek at Sterling.....	212
Seneca River (head of Oswego River):	
Seneca Lake at Watkins Glen.....	213
Keuka Lake at Hammondsport.....	214
Keuka Lake Outlet at Dresden.....	215
Seneca River:	
Cayuga Inlet near Ithaca.....	216
Cayuga Lake at Ithaca.....	217
Fall Creek near Ithaca.....	218
Clyde River:	
Canandaigua Lake at Canandaigua.....	219
Canandaigua Outlet at Chapin.....	220
Flint Creek at Potter.....	221
Flint Creek at Phelps.....	222
Owasco Lake near Auburn.....	223
Owasco Outlet near Auburn.....	224
Skaneateles Lake at Skaneateles.....	225

LIST OF GAGING STATIONS

IX

	Page
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued	
Seneca River:--continued	
Seneca River at Baldwinsville.....	226
Onondaga Creek (head of Onondaga Lake Outlet):	
Onondaga Reservoir near Nedrow.....	227
Onondaga Creek at Dorwin Avenue, Syracuse.....	228
Onondaga Creek at Spencer Street, Syracuse.....	229
Onondaga Lake:	
Harbor Brook at Syracuse.....	230
Harbor Brook at Hiawatha Boulevard, Syracuse.....	231
Ley Creek at Park Street, Syracuse.....	232
Ninemile Creek near Marietta.....	233
Ninemile Creek at Camillus.....	234
Ninemile Creek at Lakeland.....	235
Onondaga Lake at Liverpool.....	236
Fish Creek (head of Oneida River):	
East Branch Fish Creek at Taberg.....	237
Oneida Lake:	
Oneida River (Oneida Lake):	
Oneida Creek at Oneida.....	238
Chittenango Creek:	
Limestone Creek at Fayetteville.....	239
Butternut Creek near Jamesville.....	240
Meadow Brook at Hurlburt Road.....	241
Oneida Lake at Brewerton.....	242
Oneida River at Caughdenoy.....	243
Oswego River at lock 7, Oswego.....	244
Lake Ontario at Oswego.....	245
Sandy Creek near Adams.....	246
Black River:	
Black River Canal (flowing south) near Boonville.....	247
Black River near Boonville.....	248
South Branch Moose River:	
Middle Branch Moose River at Old Forge.....	249
Independence River at Donnattsburg.....	250
Beaver River:	
Stillwater Reservoir near Beaver River.....	251
Beaver River below Stillwater Dam, near Beaver River.....	252
Beaver River at Croghan.....	253
Black River at Watertown.....	254
Lakes and Reservoirs in streams tributary to Lake Ontario.....	255
ST. LAWRENCE RIVER BASIN	
Oswegatchie River at Cranberry Lake.....	257
West Branch Oswegatchie River near Harrisville.....	258
Oswegatchie River near Heuvelton.....	259

LIST OF GAGING STATIONS

	Page
<u>ST. LAWRENCE RIVER BASIN</u> --Continued	
St. Lawrence River at Cornwall, Ontario - near Massena, N.Y.....	260
Grass River at Pyrites.....	261
Raquette River at Piercefield.....	262
Raquette River at South Colton.....	263
Raquette River at Raymondville.....	264
St. Regis River near Paul Smiths.....	265
St. Regis River at Brasher Center.....	266
Deer River at North Lawrence.....	267
Salmon River at Chasm Falls.....	268
Little Salmon River at Bombay.....	269
Chateaugay River below Chateaugay.....	270
Lake Champlain (head of Richelieu River):	
Saranac River at Plattsburgh.....	271
West Branch Ausable River:	
Lake Placid at Lake Placid.....	272
East Branch Ausable River at Au Sable Forks.....	273
Lake George (head of Ticonderoga Creek) at Rogers Rock.....	274
Northwest Bay Brook near Bolton Landing.....	275
Lake George Outlet at Ticonderoga.....	276
Poultney River below Fair Haven, Vt.....	277
Lake Champlain at Burlington, Vt.....	278
Richelieu River (Lake Champlain) at Rouses Point.....	279
Lakes in St. Lawrence River basin.....	280
Discharge at partial-record stations and miscellaneous sites:	
Low-flow Partial-record stations.....	281
Crest-stage Partial-record stations.....	290
Measurements at miscellaneous sites.....	297

WATER RESOURCES DATA FOR NEW YORK, 1973

INTRODUCTION

Water Resources data for the 1973 water year for New York, including records of streamflow, reservoir storage or lake elevations at gaging stations, partial record stations, and miscellaneous sites, are given in this report. Records are included for 235 gaging stations of which 194 are streamflow discharge stations, 2 are stage only streamflow stations and 39 are lake or reservoir stations; also included are records for 255 low-flow partial-record stations, 100 crest-stage partial-record stations, and 324 miscellaneous sites. Locations of gaging stations are shown in figures 6-12. The records were collected and computed, by the Water Resources Division of the U. S. Geological Survey under the direction of Robert J. Dingman, district chief. These data represent that portion of the National Water Data System collected by the U. S. Geological Survey and cooperating State and Federal agencies in New York.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a state-boundary basis. Water-quality records beginning in the 1964 water year have been similarly released in separate reports. These records are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are 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 since then are in 5-year series. Records of chemical quality, water temperature, and suspended sediment have been in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States".

COOPERATION

The U.S. Geological Survey and organizations of the State of New York have had cooperative agreements for the systematic collection of streamflow records since 1900. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreements with the Survey are:

State Department of Environmental Conservation, H.L. Diamond,
commissioner
State Department of Transportation, R.T. Schuler, commissioner
State Power Authority, J.A. Fitzpatrick, chairman;
G.T. Berry, chief engineer
Board of Hudson River-Black River Regulating District,
Robert Forrest, chief engineer
Oswegatchie River-Cranberry Reservoir Commission, M.R. Miller,
chairman
County of Chautauqua, Planning Department, J.R. Luensman, director
County of Cortland, Planning Department, E.T. Jones, director
County of Dutchess, W.H. Bartles, county executive
County of Nassau, Department of Public Works, J.H. Peters,
commissioner
County of Onondaga, Department of Public Works, U.T. Mann,
commissioner
County of Onondaga, Water Authority Commission, S.E. Pomeroy,
chairman
County of Orange, Department of Public Works, L.J. Cascino,
commissioner
County of Suffolk, Department of Environmental Control, J.M.
Flynn, commissioner
County of Suffolk, Water Authority, W.C. Hazlett, chairman
County of Ulster, County Legislature, P. Savage, chairman
County of Westchester, Department of Public Works, R.A. Dennison
commissioner
City of Albany, Department of Water and Water Supply, W.F.
Devane, commissioner
City of Auburn, B.L. Clifford, city manager
City of New York, Board of Water Supply, Martin Hauptman,
chief engineer
City of New York, Department of Water Resources, Martin Lang,
commissioner, Abraham Groopman, chief engineer
Town of Brighton, R.D. Wiles, supervisor
Town of Clarkstown, G.S. Gerber, supervisor
Town of Warwick, C.B. Rowe, supervisor
Village of Nyack, Board of Water Commissioners, Leonard Cooke,
chairman

Assistance in the form of funds was given by the Corps of Engineers, U.S. Army, in collecting records for 58 gaging stations published in this report.

The following organizations aided in collecting records:

Municipalities of Batavia, Canandaigua, Harrison, Jamestown, Lancaster, Mamaroneck, Oneida, Plattsburgh, Rochester, Rome, Rye, Syracuse, Tarrytown, and Yonkers; Cornell University; Central Hudson Gas & Electric Corporation; Indian River Company; New York State Electric & Gas Corporation; Niagara Mohawk Power Corporation; Rochester Gas & Electric Corporation; Orange and Rockland Utilities Incorporated.

Organizations that supplied data are acknowledged in the station manuscripts.

DEFINITION OF TERMS

Terms related to streamflow and other hydrologic data, as used in this report, are defined below. See also Table for converting English units to international system of units (SI) on page 5.

Acre-foot (AC-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 325,851 gallons.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, or 646,317 gallons, and represents a runoff of 0.0372 inch from 1 square mile.

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.

Cubic foot per second (CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second, and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

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.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharge during a specific period.

Instantaneous discharge is a discharge at a particular time.

Drainage area of a stream at a specified 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 stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

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 gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Partial-record station is a particular site where limited stream-flow data are collected systematically over a period of years for use in hydrologic analyses.

Runoff in inches (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.

Stage-discharge relation is the relation between gage height and the amount of water flowing in a channel, expressed as volume per unit of time.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

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

Table 1.--Factors for converting English units to International System (SI) units

The following factors may be used to convert English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
<i>Length</i>		
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
rods	5.0292	metres (m)
miles (mi)	1.609	kilometres (km)
<i>Area</i>		
acres	4047	square metres (m ²)
	.4047	*hectares (ha)
	.4047	square hectometre (hm ²)
	.004047	square kilometres (km ²)
square miles (mi ²)	2.590	square kilometres (km ²)
<i>Volume</i>		
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm ³)
	3.785x10 ⁻³	cubic metres (m ³)
million gallons (10 ⁶ gal)	3785	cubic metres (m ³)
	3.785x10 ⁻³	cubic hectometres (hm ³)
cubic feet (ft ³)	28.32	cubic decimetres (dm ³)
	.02832	cubic metres (m ³)
cfs-day (ft ³ /s-day)	2447	cubic metres (m ³)
	2.447x10 ⁻³	cubic hectometres (hm ³)
acre-feet (acre-ft)	1233	cubic metres (m ³)
	1.233x10 ⁻³	cubic hectometres (hm ³)
	1.233.10 ⁻⁶	cubic kilometres (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm ³ /s)
	.02832	cubic metres per second (m ³ /s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm ³ /s)
	6.309x10 ⁻⁵	cubic metres per second (m ³ /s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm ³ /s)
	.04381	cubic metres per second (m ³ /s)
<i>Mass</i>		
ton (short)	.9027	tonne (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p. 15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p.13, 1972 edition.

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 man-made 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.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

DOWNSTREAM ORDER AND STATION NUMBERS

Records are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of gaging stations in the front of this report, the rank of tributaries is indicated by indention. Each indention represents one rank.

As an added means of identification, each gaging station, partial-record station and recently published miscellaneous sites have 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 continuous-record gaging stations. Gaps are left in the 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 01357500, includes the part number "01" and a 6-digit station number. In this report the records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

SURFACE-WATER DATA

Collection and computation of data

Base data collected at gaging stations consists 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 a water-stage recorder that gives a continuous graph of the fluctuations (for digital recorders, a tape punched at 15-, 30-, or 60-minute intervals) or from direct readings on a nonrecording gage. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks on the measurement of stream discharge. (See also SELECTED REFERENCES.) Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For a stream-gaging station, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, 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), velocity-area studies, and logarithmic plotting. The application of the daily mean gage heights to the rating table gives the daily mean discharge, from which the monthly and the yearly mean discharge are computed. 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 determined 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 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 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 determining discharge. Information required for determining 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 determining discharge.

At some stream-gaging stations, the stage-discharge relation is affected by ice in the winter and the discharge cannot be computed in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter-discharge measurements, consideration being 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. Discharge over spillways is computed from a stage-discharge relation curve defined by discharge measurements. Application of the stage to the capacity table gives the contents from which 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 erroneous owing 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; for example, the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well. For such periods, the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of basic data. 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 reservoir stations. Monthly maximum, minimum and mean elevations are given on tidal stations. Records are published for the water year, which begins on October 1 and ends on September 30.

A calendar for the 1973 water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, and general remarks. 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." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of types, locations, and datums of previous gages used during the period of record are given under "GAGE." In reference 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. 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. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or the minimum contents), and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "current year:" the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record;" the data given are for the period of record given in the PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds 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 at the same time as the maximum discharge or contents, it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS;" for reservoir stations information concerning the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published 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. To make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. The paragraph lists 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, 1933 stands for the water year October 1, 1932 to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that 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. A revision of drainage area also requires a revision of all figures based on drainage areas, including figures for cubic feet per second per square mile and runoff in inches. 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 this annual series of reports.

Skeleton rating tables are published for stream-gaging stations where they serve a useful purpose and the dates of applicability can be easily identified.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

The daily tables for stream-gaging stations give the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging the mean discharge for several parts of a day. For digital recorders, the daily mean discharge is always the average of the discharges at each punched reading. For stations equipped with nonrecording gages, the daily discharge corresponds to once-daily readings of the gage or to the mean of twice-daily readings; but for periods of rapidly changing stage, the discharge is determined from a gage-height graph based on gage readings.

The daily tables for reservoir stations give the contents corresponding to the water-surface elevation at a given time, usually at 2400 each day. For some reservoirs, the elevation at a given time is given in the daily table.

The monthly summary is given below the daily table. For stream-gaging stations 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.") or in acre-feet (line headed "AC-FT"). Figures of cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average rainfall on the drainage basin is usually less than 20 inches.

For reservoir gaging stations the monthly summary gives the elevation (or gage height) at the end of the month and the change in contents during the month. If elevation or gage height is given in the daily table, the monthly summary gives the contents at the end of the month, rather than the elevation or gage height. For some reservoirs a tabulation of monthly evaporation from the water surface also is included.

In the yearly summary below the monthly summary, the figures following MAX are the maximum daily discharges for the calendar and water years; likewise, those following are the minimum daily discharges.

For reservoir stations the yearly summary gives the change in contents for the calendar year and for the water year. For some reservoirs the yearly evaporation also is included.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, given in parentheses, is selected so that an average of about three peaks a year can 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 and 1:30 p.m. is 1330.

Footnote to a table is 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-discharge relation, or of any other unusual condition at the gage 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. Footnotes to reservoir tables may be used to explain the use of new capacity tables or for other special conditions.

Data collected at partial-record stations and miscellaneous sites are given in three tables at the end of the daily record stations. The first is a table of discharge measurements at low flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

Accuracy of Data

Accuracy of discharge 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 interpretation 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 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. 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 and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to effects of diversion, consumptive use, regulation, evaporation, or other factors. For such stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects. 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 unadjusted losses (consumptive use, evaporation, seepage, etc.) are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in New York for the period October 1960 to September 1965 are in Water-Supply Papers 1903, 1907, and 1912.

Two series of summary reports entitled, "Compilation off Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960.

These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in New York are compiled in Water-Supply Papers 1302, 1305, and 1307 through September 1950, and in 1722, 1725, and 1727 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other data available

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

Hydrologic conditions during 1973

The yearly runoff in general averaged from 20 to 45 percent above normal over the state with the exception of Long Island where percentages are somewhat distorted or misleading.

Streamflow in the upper Hudson basin and in streams tributary to the St. Lawrence River was 30 percent above normal while in the lower Hudson basin and upper Delaware the flow was about 45 percent above normal. Long Island ranged from slightly below average at two stations to 98 percent above average.

The winter was relatively mild thereby reducing the effect of ice on streamflow records. The mild winter and extended warming trend during the spring produced average or below average spring runoff. At the end of June heavy concentrated but scattered rains caused some flooding in the upper Delaware basin and the area east and southeast of Albany in the Hudson river basin.

The figures which follow on the next four pages are daily discharge hydrographs for four gaging stations illustrating the variation in response to the climatic events of the 1973 water year in different regions of the State. The plotted hydrographs (dashed lines) provide a comparison between the streamflow this year and that which has been experienced during a 29-year reference period (1942-70). On each figure, three experience graphs (duration hydrographs) are plotted. They are labeled 80%, 50%, and 20%, and represent the lower limit of mean daily discharge that has been experienced on each date for 80%, 50%, or 20% of the days during the 29 years of the reference period.

To interpret the significance of the hydrographs, consider the day May 31 in figure 1 for Susquehanna River at Conklin. A mean daily discharge of 2,400 cfs or more has been experienced on 50% of the years during the reference period. Similarly, a discharge of 3,730 cfs or more has been experienced on the same date in 20% of the years. The discharge for May 31, 1973, was 5,150 cfs, or slightly less than $1\frac{1}{2}$ times the discharge that could be expected on 20% of the May 31's during the reference period.

Mean value of streamflow for the 1973 water year can be compared with the average for the period of record by referring to the individual gaging-station records which comprise the principal part of this report. Susquehanna River at Conklin (station 01503000), for example, discharged at an average rate of 4,679 cfs, which is 32% higher than the 60-year average. For other gaging stations illustrated in the graphs the comparisons are as follows:

Allegheny River, 2,971 cfs, 7% higher than the 70-year average.
West Branch Oswegatchie River, 623 cfs, 25% higher than the 56-year average.
Wappinger Creek, 438 cfs, 78% higher than the 45-year average.

SELECTED REFERENCES

- Carter, R. W., and Davidian, Jacob, 1968, General procedure for gaging streams: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. A6, 13 p.
- Corbett, D. M., and others, 1943, Stream-gaging procedure, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.
- Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

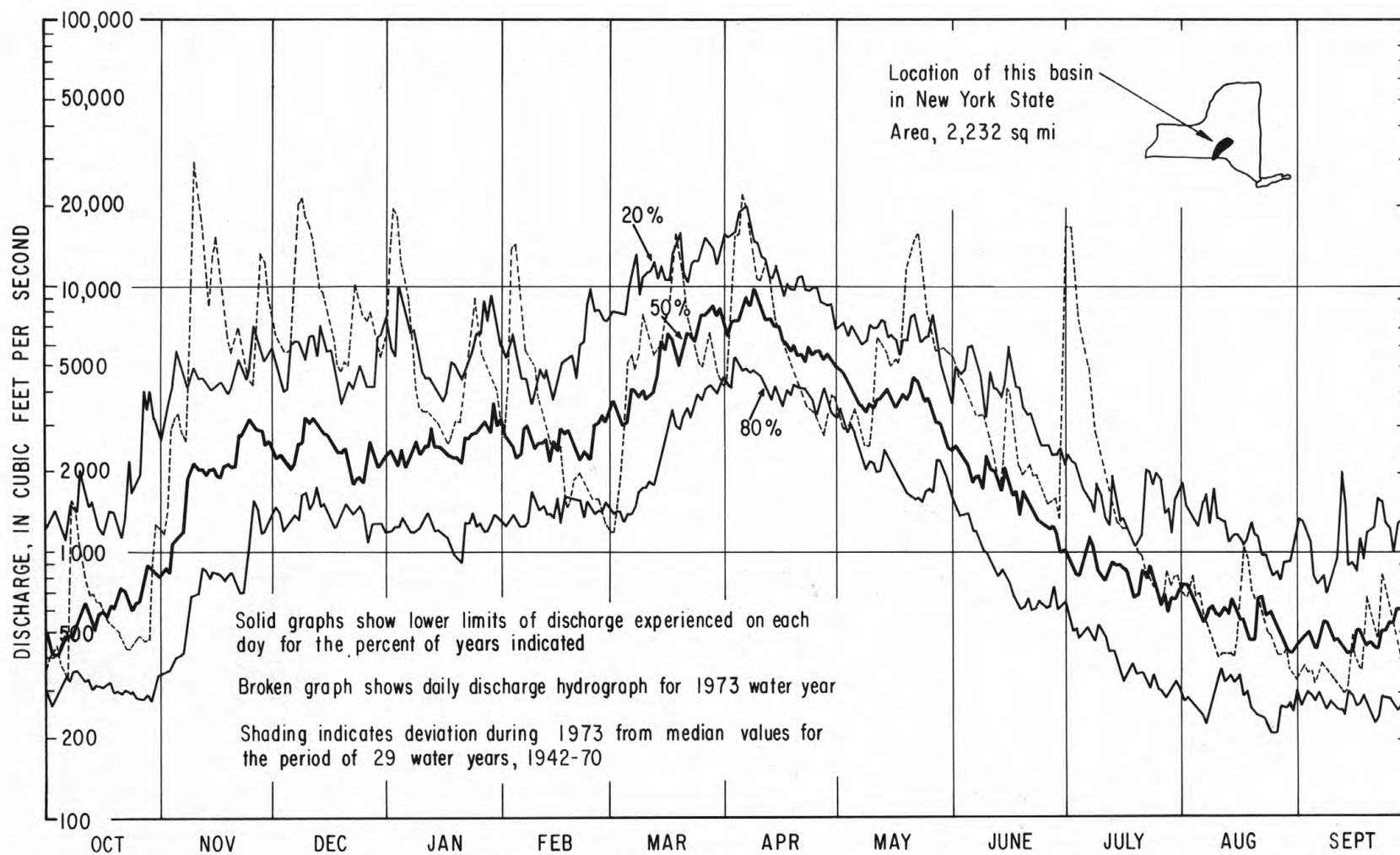


Figure 1 Hydrographic comparisons, Susquehanna River at Conklin, N.Y.

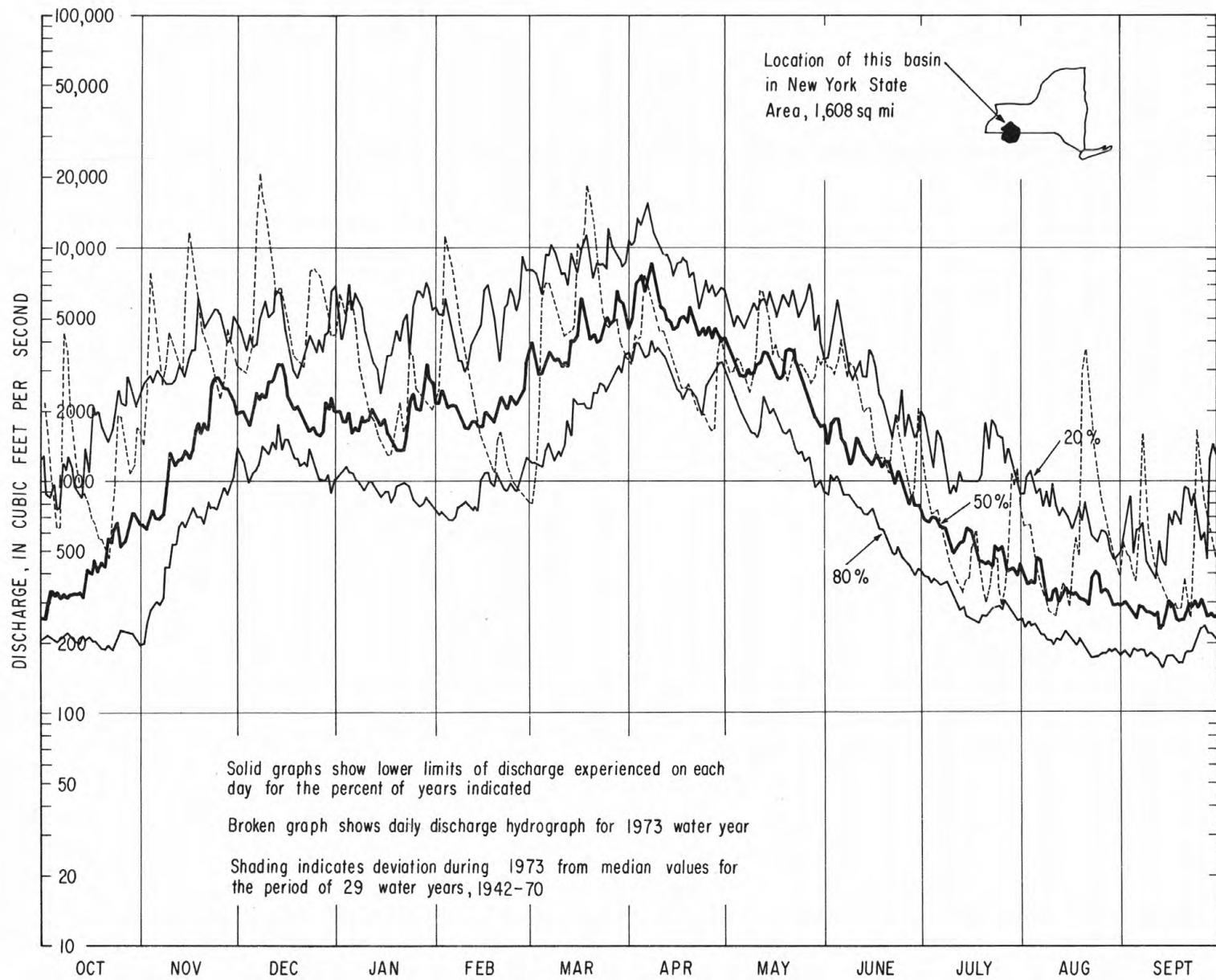


Figure 2 Hydrographic comparisons, Allegheny River at Salamanca, N.Y.

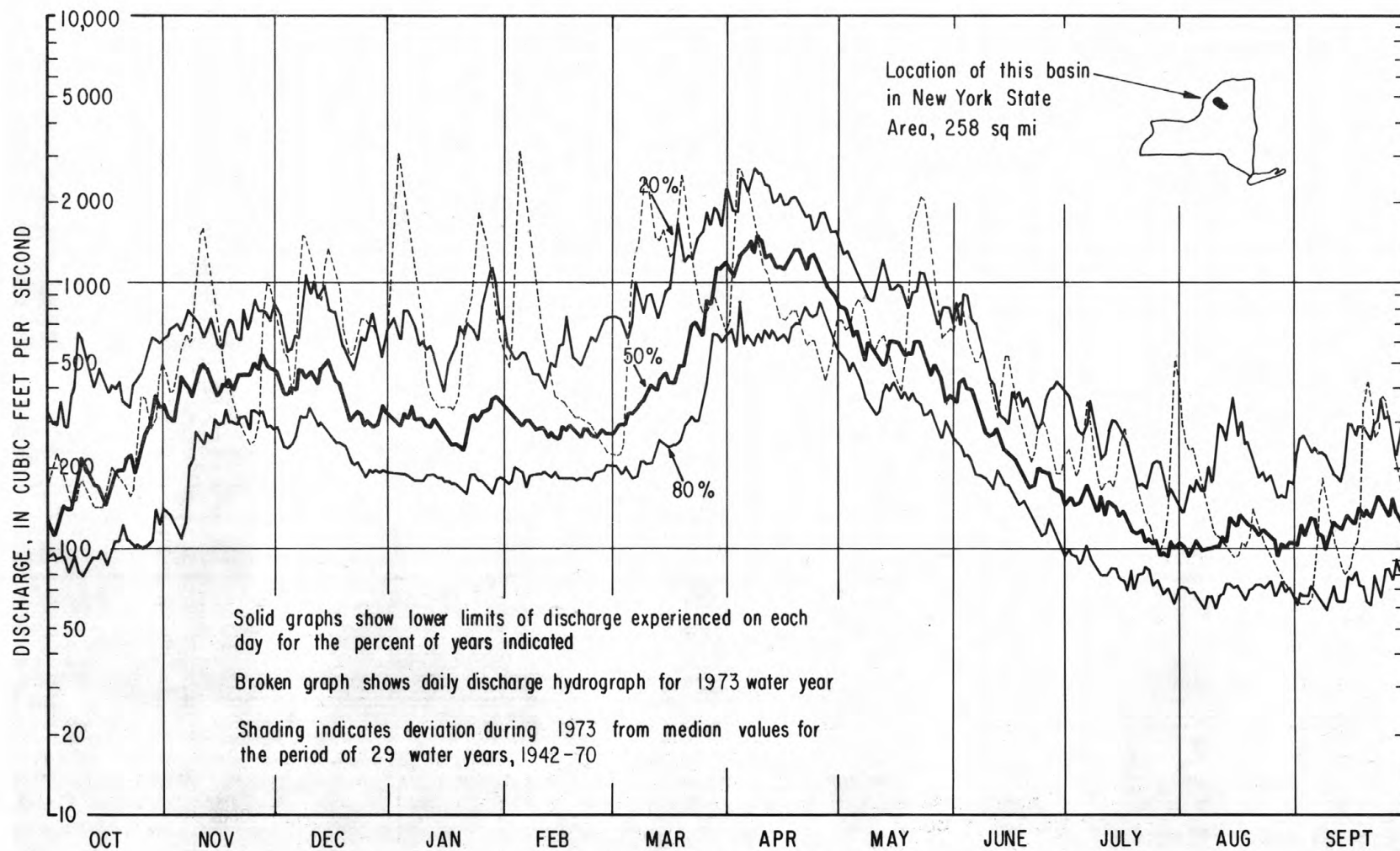


Figure 3 Hydrographic comparisons, West Branch Oswegatchie River near Harrisville, N. Y.

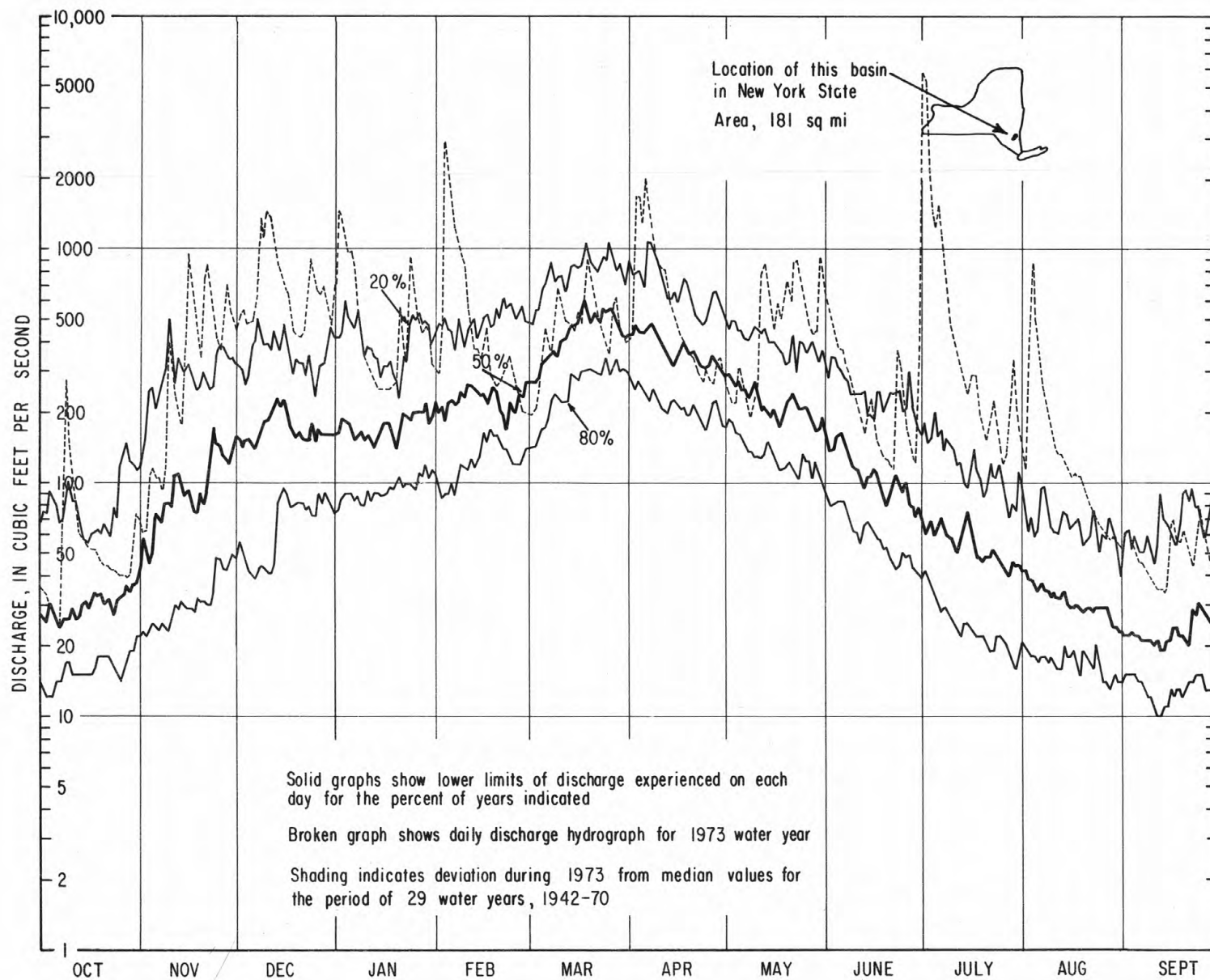


Figure 4 Hydrographic comparisons, Wappinger Creek near Wappingers Falls, N.Y.

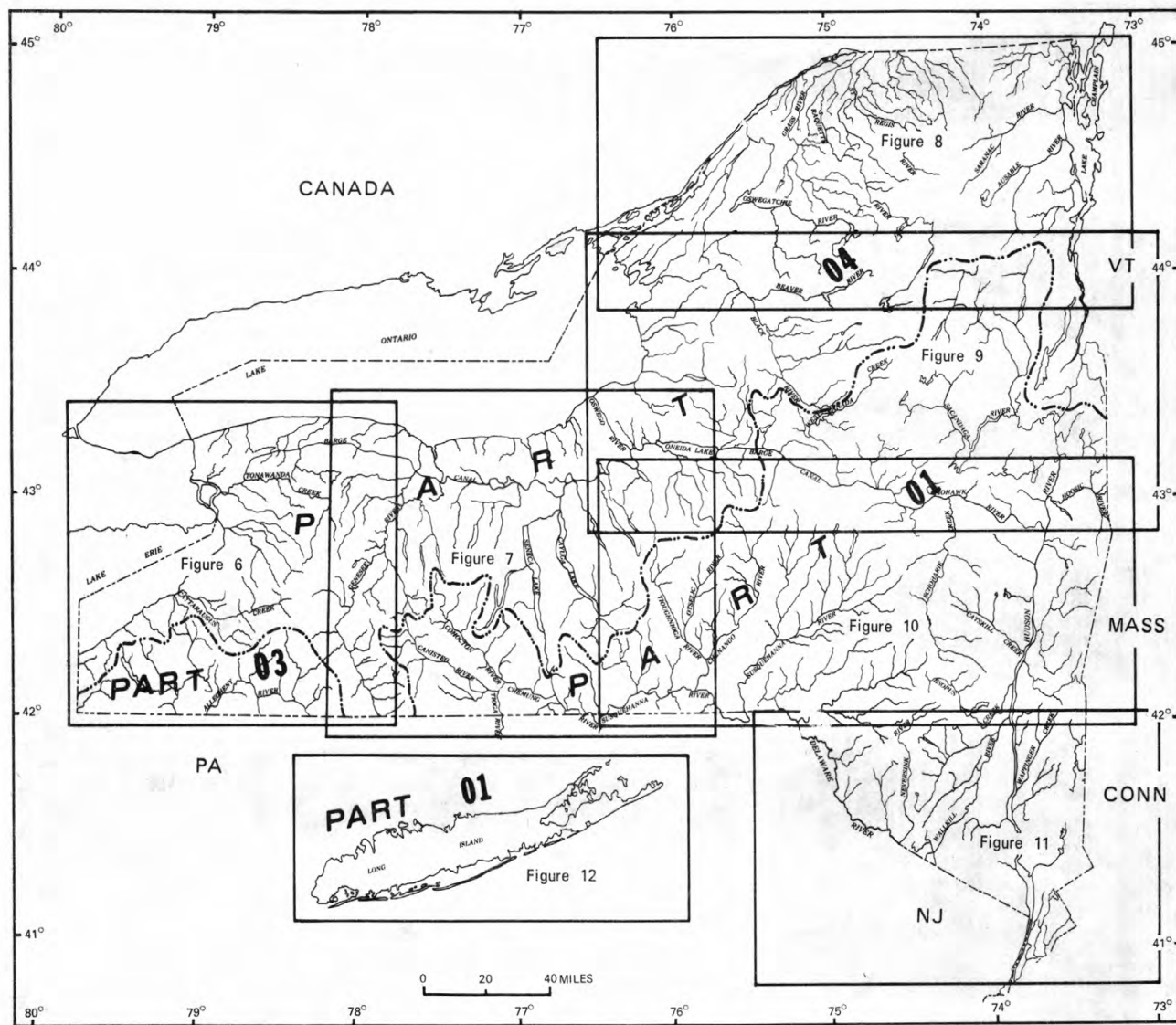


Figure 5.--Index for gaging-station maps.

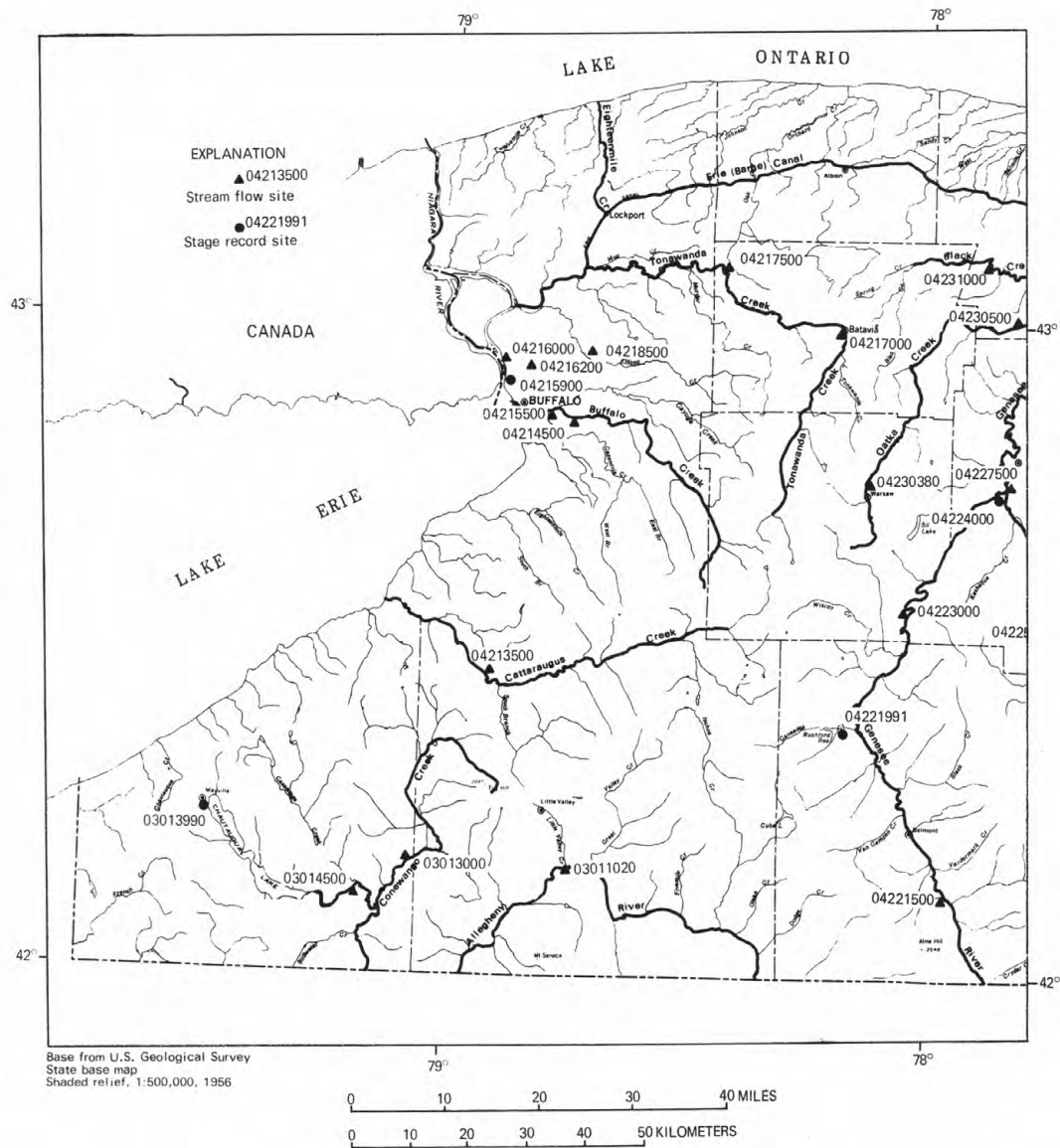


Figure 6.--Location of gaging stations.

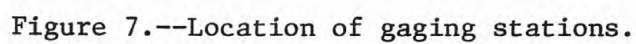


Figure 7.--Location of gaging stations.

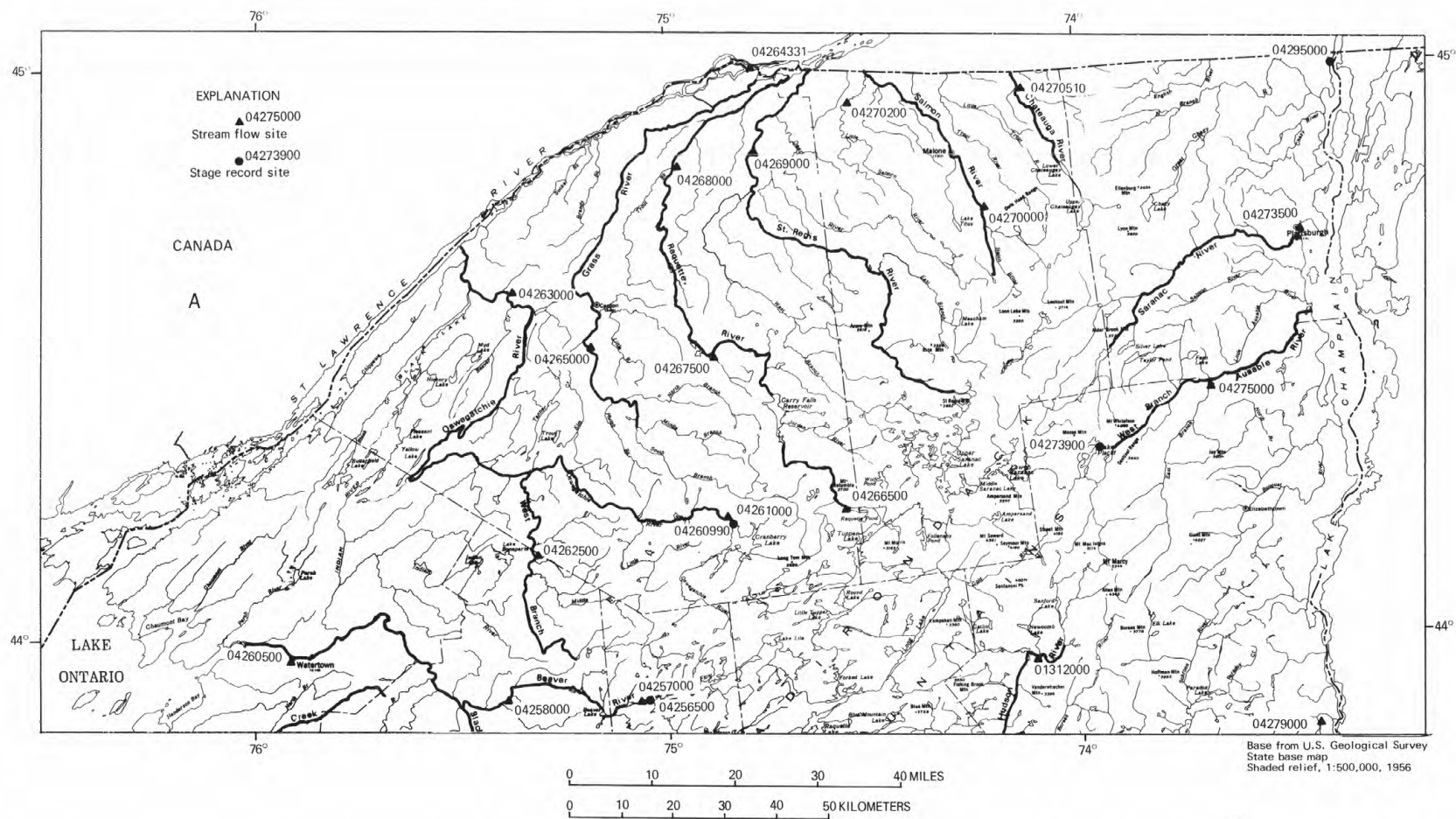


Figure 8.--Location of gaging stations.

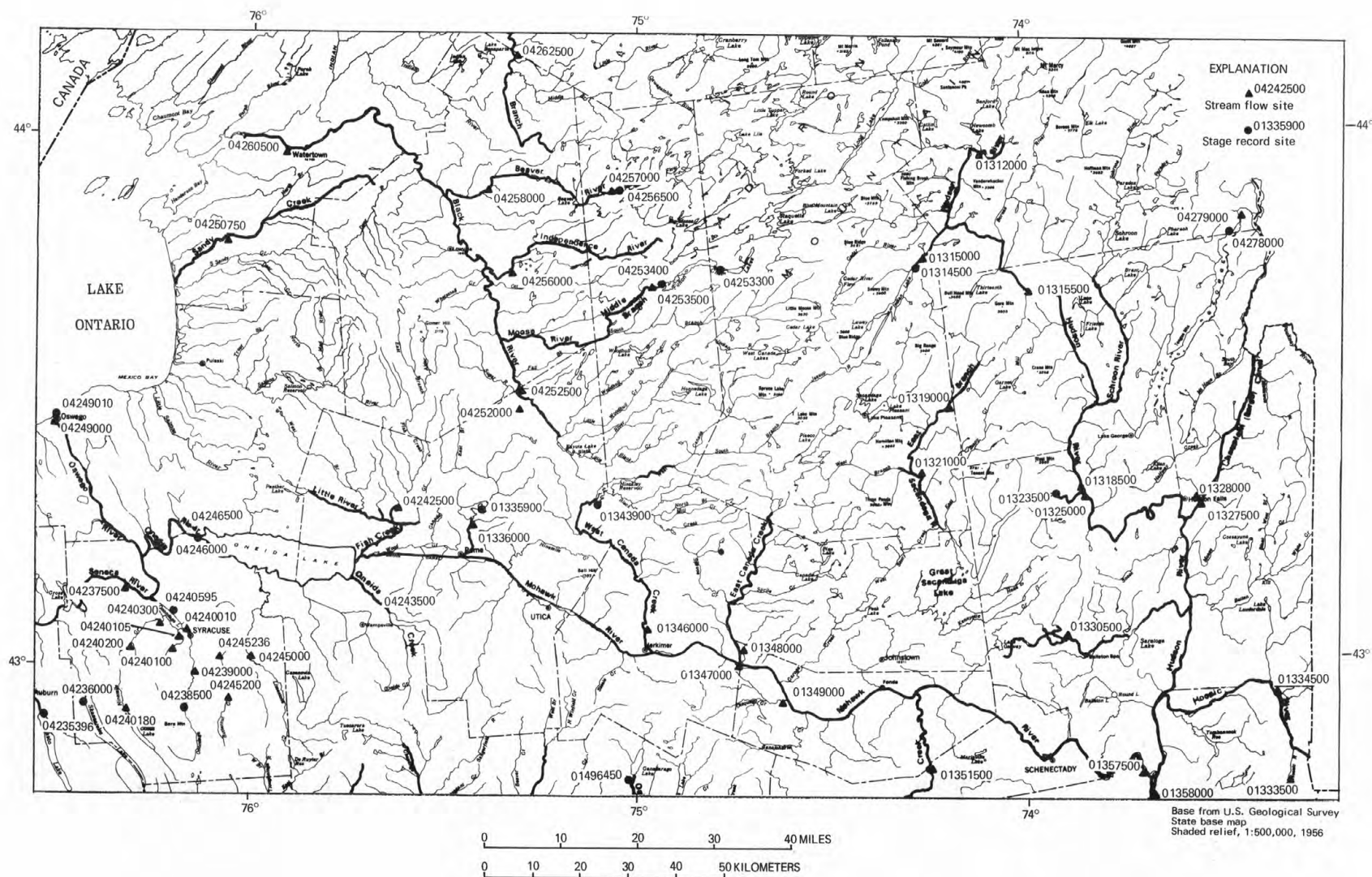


Figure 9.--Location of gaging stations.

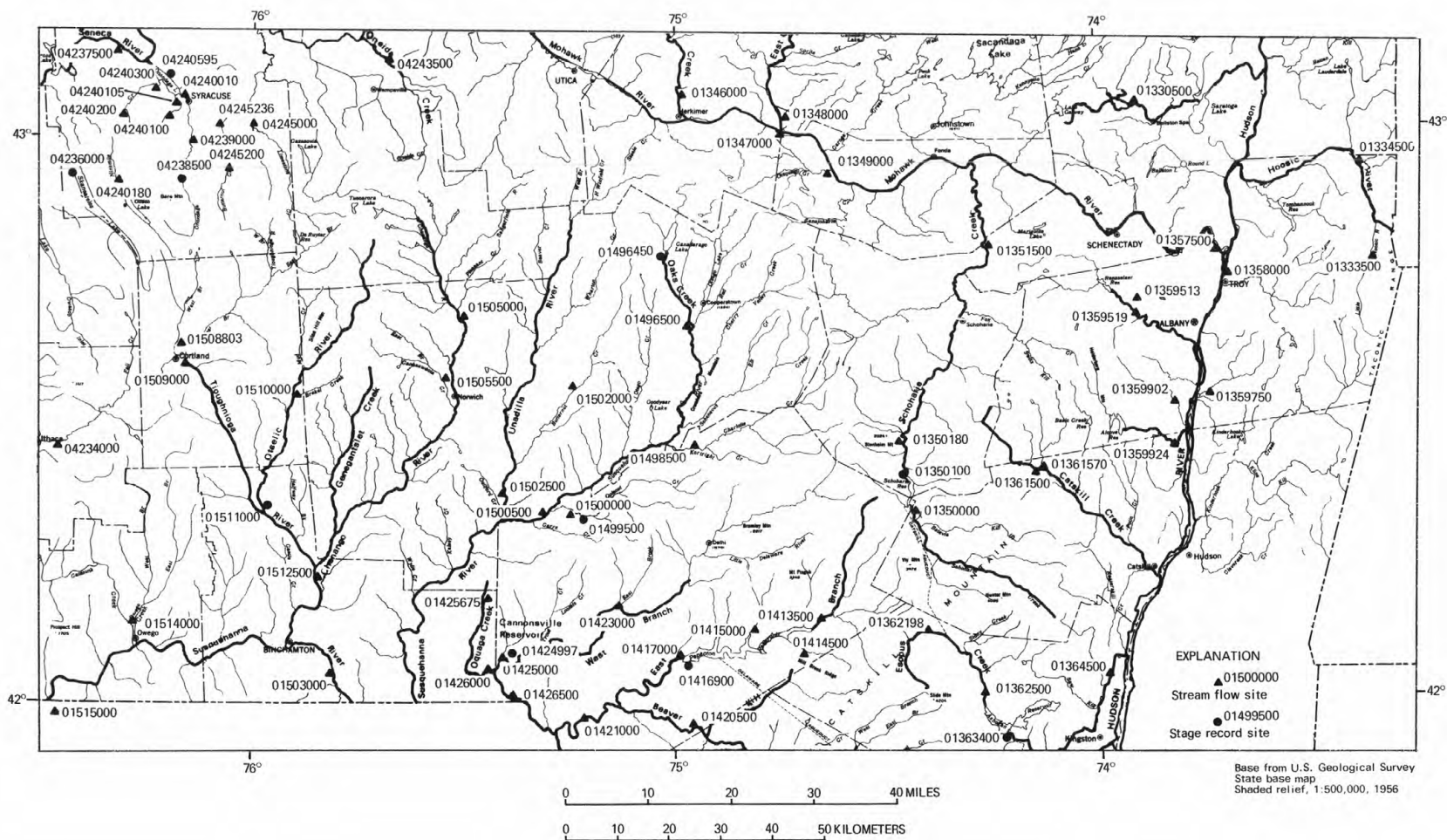


Figure 10.--Location of gaging stations.

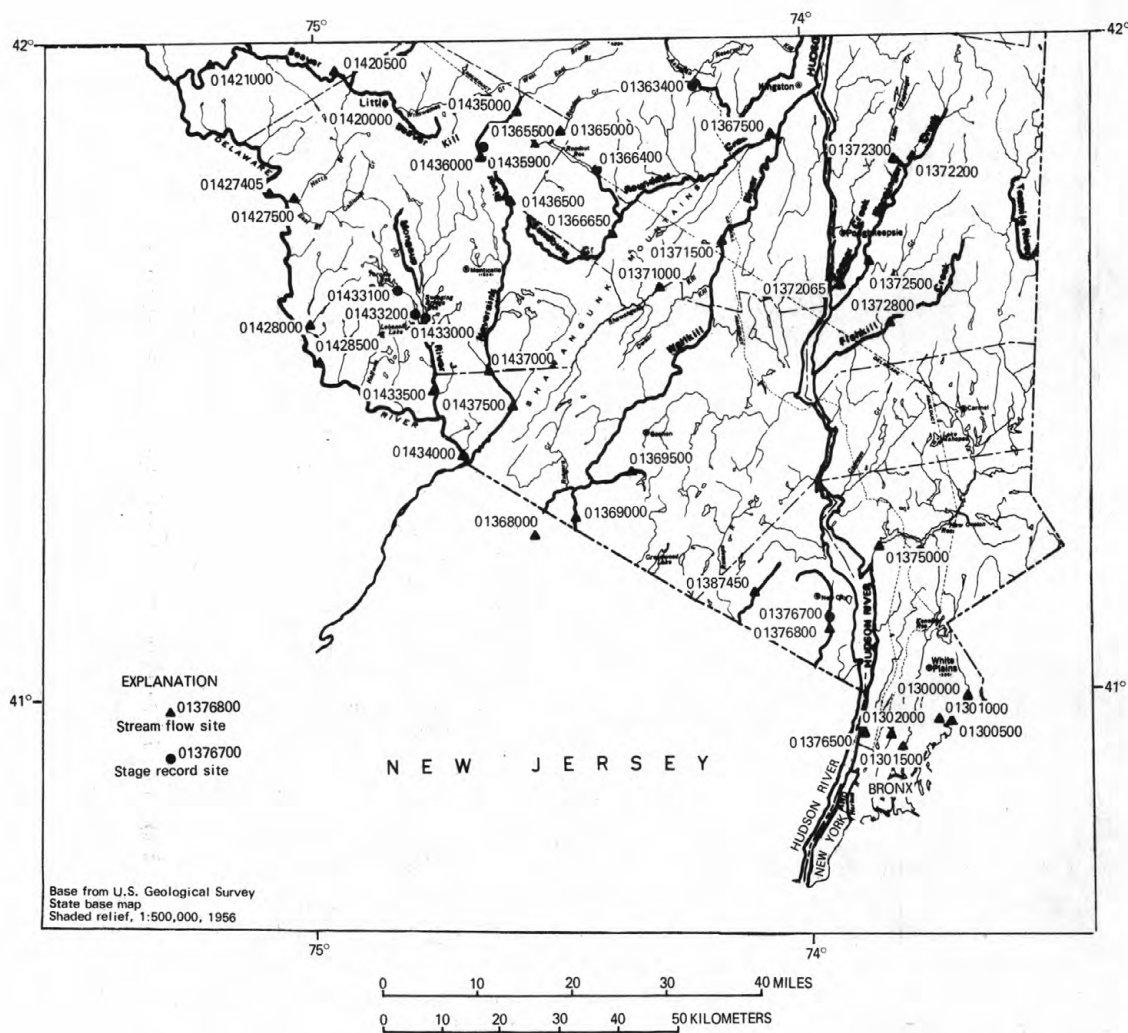


Figure 11.--Location of gaging stations.

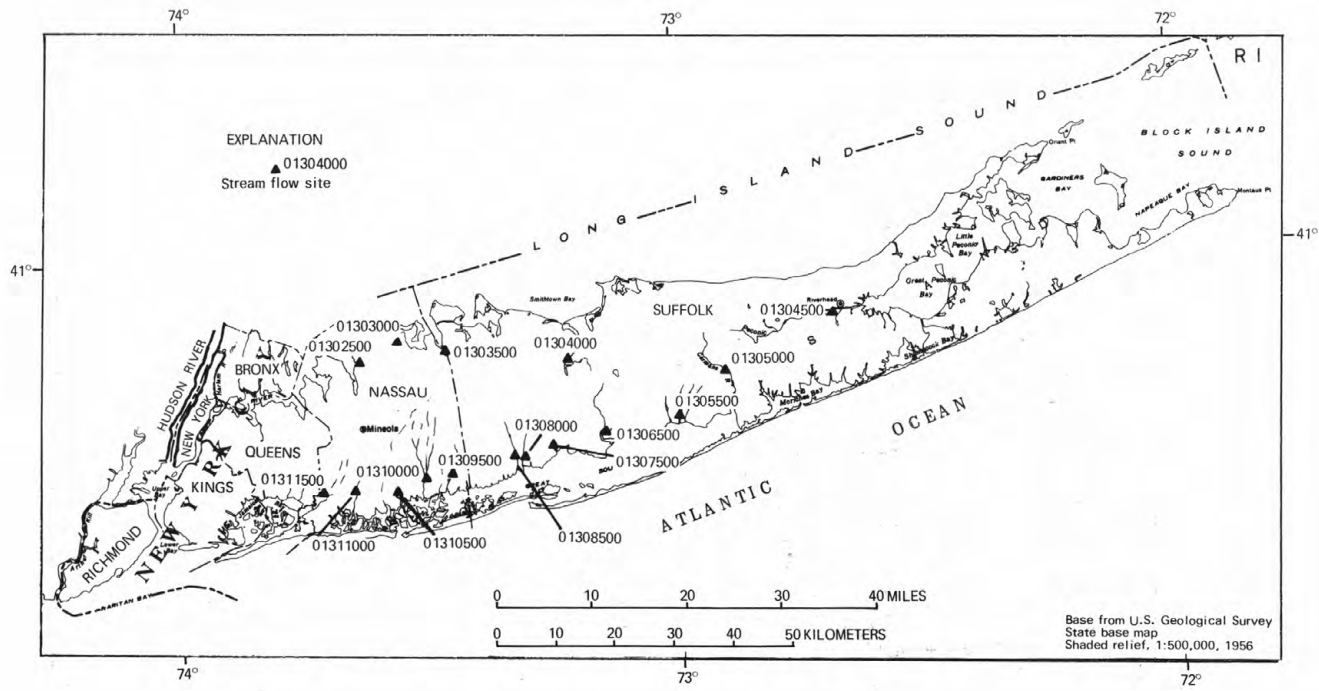


Figure 12.--Location of gaging stations.

HOUSATONIC RIVER BASIN

01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CONN.

LOCATION.--Lat 41°39'32", long 73°31'44", Dutchess County, New York, 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.

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).

AVERAGE DISCHARGE.--44 years, 294 ft³/s (8.326 m³/s), 19.67 in/yr (500 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,610 ft³/s (159 m³/s) Feb. 3, gage height, 8.37 ft (2.551 m); minimum, 43 ft³/s (1.22 m³/s) Sept. 13, 14, gage height, 0.90 ft (0.274 m).

Period of record: Maximum discharge, 17,400 ft³/s (493 m³/s) Aug. 19, 1955, gage height, 14.9 ft (4.45 m), from high-water mark, from rating curve extended above 9,800 ft³/s (278 m³/s), minimum, 5 ft³/s (0.142 m³/s) Sept. 8, 1957; minimum gage height, 0.52 ft (0.158 m) Sept. 24, 26, 1939; minimum daily discharge, 7 ft³/s (0.198 m³/s) Oct. 7, 1957.

PEAK DISCHARGE.--(BASE, 1,400 ft ³ /s):				DATE				TIME				G.HT				DISCHARGE			
12-09	2000	5.04	1,850	04-05	1200	5.25	2,040												
01-01	2000	5.05	1,860	07-01	0100	6.44	3,220												
02-03	1800	8.37	5,610	07-05	0400	6.05	2,800												
03-18	0800	4.59	1,500																

REMARKS.--Records excellent. Infrequent regulation at low flow. See REVISIONS summary paragraph in WSP 1901. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	110	699	1,690	350	237	529	322	492	2,570	163	65
2	72	115	687	1,580	600	272	1,350	302	458	1,230	252	66
3	63	209	613	1,150	4,590	346	1,240	307	410	809	405	61
4	57	191	603	1,020	3,190	560	1,250	377	368	1,310	268	57
5	55	177	656	1,040	1,860	581	1,930	342	384	2,360	225	54
6	53	178	865	840	1,260	487	1,450	316	338	1,550	188	63
7	337	164	1,570	578	1,010	435	1,120	286	313	1,090	156	67
8	767	289	1,210	509	896	593	1,000	260	284	823	135	60
9	348	655	1,720	450	807	655	897	294	254	640	122	56
10	249	493	1,620	410	600	549	1,040	337	232	526	114	52
11	191	421	1,280	380	450	499	1,070	701	205	461	107	49
12	157	388	1,010	360	400	501	844	670	184	409	107	46
13	140	334	918	340	400	497	733	582	206	364	115	44
14	124	628	882	320	423	471	651	493	229	324	105	46
15	123	1,170	764	319	484	542	594	436	186	343	96	70
16	121	848	716	317	500	503	547	586	165	351	100	82
17	110	686	626	326	320	797	507	508	154	292	95	66
18	101	587	575	333	300	1,370	484	628	144	257	89	70
19	96	519	539	335	300	972	463	695	142	228	84	78
20	95	860	524	549	326	794	452	584	134	211	79	68
21	92	853	540	390	354	671	408	874	126	230	73	62
22	89	664	755	397	358	606	384	835	226	289	69	56
23	90	559	902	1,010	366	548	367	695	202	268	66	79
24	90	500	773	699	311	502	404	633	158	222	63	96
25	85	464	698	527	284	478	360	565	150	192	61	77
26	81	778	664	453	274	670	354	514	137	192	59	66
27	79	910	657	423	246	704	412	490	125	216	58	60
28	81	694	615	474	230	557	434	487	126	298	61	57
29	113	638	542	432	-----	502	403	685	300	267	63	57
30	141	562	498	350	-----	474	357	598	2,040	227	61	57
31	123	-----	741	300	-----	494	-----	561	-----	186	59	-----
TOTAL	4,403	15,644	25,462	18,301	21,489	17,867	22,074	15,963	8,872	18,735	3,698	1,887
MEAN	142	521	821	590	767	576	736	515	296	604	119	62.9
MAX	767	1,170	1,720	1,690	4,590	1,370	1,930	874	2,040	2,570	405	96
MIN	53	110	498	300	230	237	354	260	125	186	58	44
CFSM	.70	2.57	4.04	2.91	3.78	2.84	3.63	2.54	1.46	2.98	.59	.31
IN.	.81	2.87	4.67	3.35	3.94	3.27	4.05	2.93	1.63	3.43	.68	.35

CAL YR 1972	TOTAL 186,420	MEAN 509	MAX 2,880	MIN 50	CFSM 2.51	IN 34.16
WTR YR 1973	TOTAL 174,395	MEAN 478	MAX 4,590	MIN 44	CFSM 2.35	IN 31.96

01300000 BLIND BROOK AT RYE, N.Y.

LOCATION.--Lat 40°59'00", long 73°41'14", Westchester County, on left bank at Rye, just upstream from bridge on Theodore Fremd Avenue, 0.25 mi (0.40 km) southwest of Penn Central Transportation Company 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).

AVERAGE DISCHARGE.--29 years (1944-73), 15.0 ft³/s (0.425 m³/s) (22.14 in/yr (562.4 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 688 ft³/s (19.5 m³/s) July 21 (gage height, 5.64 ft (1.719 m)); minimum, 1.5 ft³/s (0.042 m³/s) Oct. 3 (gage height, 0.98 ft (0.299 m)), but may have been less during period of no gage-height record Oct. 3-12. 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.

REMARKS.--Records good except those for winter periods, which are fair. Medium and high flows affected by detention reservoir 2 mi (3 km) upstream (capacity, about 26 acre-ft (32,100 m³) at spillway level or 50 acre-ft (61,700 m³) at crest of concrete dam).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	4.7	58	52	19	8.9	45	17	13	22	6.7	3.0
2	2.3	15	24	27	352	8.9	94	16	14	14	92	2.6
3	1.7	9.6	19	40	142	9.7	44	26	10	11	33	9.7
4	1.6	5.7	16	54	48	33	87	35	11	13	19	6.1
5	1.6	5.7	18	26	35	20	71	19	11	36	14	3.4
6	2.0	5.2	50	16	28	16	33	16	9.3	14	10	2.9
7	25	4.7	54	13	27	16	25	14	8.5	8.9	8.5	2.9
8	5.0	190	39	12	26	76	63	13	8.9	7.3	7.9	2.6
9	3.6	66	82	11	26	37	39	49	14	6.4	7.3	2.3
10	3.5	19	56	10	18	23	118	28	13	5.5	6.7	2.3
11	4.0	16	39	9.4	15	20	42	24	7.3	5.0	6.4	2.3
12	5.0	19	27	9.2	14	21	28	21	9.3	4.8	24	2.1
13	5.5	13	30	9.3	13	18	24	20	10	4.3	19	1.7
14	3.6	139	23	9.3	13	17	20	15	11	4.3	8.2	5.8
15	2.8	63	28	9.7	40	16	19	14	6.1	28	7.0	19
16	2.6	24	58	11	23	15	18	16	5.3	11	6.7	5.0
17	2.6	18	25	11	16	35	16	14	5.5	6.1	6.1	3.4
18	2.4	15	18	10	13	26	16	20	5.8	5.0	5.3	6.7
19	4.9	14	18	18	12	17	17	13	5.8	4.3	5.0	5.3
20	5.5	91	25	17	11	14	15	36	5.3	5.0	5.0	3.0
21	3.6	27	25	11	12	11	13	38	5.5	268	4.5	2.6
22	3.2	19	110	30	13	9.7	13	19	23	38	5.5	2.3
23	3.0	15	54	31	11	8.9	15	21	14	19	5.0	6.4
24	3.0	14	38	19	10	8.2	20	30	7.0	14	4.0	4.5
25	2.8	13	28	14	10	8.2	12	18	5.8	11	3.8	3.0
26	2.6	70	25	13	10	76	62	15	5.0	30	3.6	2.7
27	2.6	29	28	42	9.0	27	56	14	6.1	17	3.4	2.6
28	13	19	21	49	8.8	18	54	54	33	12	3.2	2.3
29	30	16	18	110	-----	16	25	33	63	9.3	3.0	2.4
30	10	18	17	33	-----	15	20	18	102	7.9	2.9	2.3
31	6.0	-----	34	22	-----	14	-----	18	-----	7.0	2.7	-----
TOTAL	168.6	977.6	1,105	748.9	974.8	659.5	1,124	704	448.5	649.1	339.4	123.2
MEAN	5.44	32.6	35.6	24.2	34.8	21.3	37.5	22.7	15.0	20.9	10.9	4.11
MAX	30	190	110	110	352	76	118	54	102	268	92	19
MIN	1.6	4.7	16	9.2	8.8	8.2	12	13	5.0	4.3	2.7	1.7
CFSM	.59	3.54	3.87	2.63	3.78	2.32	4.08	2.47	1.63	2.27	1.18	.45
IN.	.68	3.95	4.47	3.03	3.94	2.67	4.54	2.85	1.81	2.62	1.37	.50

CAL YR 1972 TOTAL 9,830.9 MEAN 26.9 MAX 1,070 MIN 1.3 CFSM 2.92 IN 39.75
WTR YR 1973 TOTAL 8,022.6 MEAN 22.0 MAX 352 MIN 1.6 CFSM 2.39 IN 32.44

PEAK DISCHARGE (BASE, 406 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-08	1915	5.17	594	7-21	0645	5.64	688
2-02	1900	5.63	686				

BEAVER SWAMP BROOK BASIN

01300500 BEAVER SWAMP BROOK AT MAMARONECK, N.Y.

LOCATION.--Lat 40°57'21", long 73°43'07", Westchester County, on right bank just downstream from bridge on Short Street, in Mamaroneck, and 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.

AVERAGE DISCHARGE.--29 years (1944-73), 6.14 ft³/s (0.174 m³/s) (17.70 in/yr (449.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 151 ft³/s (4.28 m³/s) July 21 (gage height, 2.54 ft (0.774 m)); minimum, 0.64 ft³/s (0.018 m³/s) Oct. 4, 5, 6 (gage height, 0.37 ft (0.113 m)).

Period of record: Maximum discharge, 197 ft³/s (5.58 m³/s) June 19, 1972 (gage height, 3.06 ft (0.933 m)); no flow at times during 1944, 1953, 1959, 1964, 1965, 1966.

REMARKS.--Records good except those for winter periods, which are fair. Flow affected by natural storage in swampy areas above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	1.8	21	17	10	4.5	16	7.2	5.7	13	4.0	5.0
2	.81	6.4	12	11	77	4.5	32	6.4	5.0	6.4	47	2.9
3	.64	4.0	9.2	8.8	80	4.5	18	8.0	3.7	5.0	50	9.7
4	.64	2.5	8.0	21	28	15	30	8.4	4.0	6.0	16	5.0
5	.57	2.3	8.0	16	18	8.0	34	5.7	3.7	15	9.7	2.3
6	.57	2.9	20	11	13	6.4	16	4.7	3.1	8.8	6.8	1.8
7	52	1.9	24	8.4	12	5.7	12	4.0	3.1	4.2	5.3	1.6
8	19	44	19	6.8	12	22	24	4.0	2.7	3.3	4.7	1.1
9	3.7	56	33	6.0	12	16	16	13	5.3	2.9	4.2	.81
10	2.3	16	25	5.3	8.0	8.8	36	8.4	7.2	2.7	3.7	.81
11	1.8	9.7	20	5.3	6.8	7.2	21	6.8	3.1	2.7	3.7	.72
12	2.7	8.4	14	5.0	7.2	6.8	13	6.0	2.1	2.3	3.7	.72
13	2.1	6.4	13	4.5	5.3	5.7	11	5.0	3.5	2.1	3.3	.72
14	1.9	40	12	4.2	5.3	5.0	8.8	4.2	2.7	1.8	2.7	4.7
15	1.6	35	16	4.2	21	5.0	8.0	4.5	2.1	16	2.9	11
16	1.4	15	26	4.2	11	5.0	7.2	5.0	1.8	6.8	2.7	2.7
17	1.3	11	13	4.2	8.4	10	6.8	3.7	1.9	3.3	2.5	1.8
18	1.1	8.8	9.7	4.2	8.0	6.8	6.0	6.0	1.8	2.5	2.5	4.2
19	2.9	9.2	8.8	5.3	5.3	4.5	6.4	3.7	1.8	2.1	2.7	1.8
20	1.9	44	11	6.8	5.7	3.5	7.2	9.7	1.6	2.9	2.3	1.3
21	1.4	18	10	5.3	6.0	3.3	5.3	12	1.6	132	1.8	1.0
22	1.3	11	43	6.4	6.4	2.9	5.0	7.2	11	64	2.7	.92
23	1.3	8.8	28	9.7	5.7	2.5	6.8	8.8	6.8	17	1.6	2.9
24	1.3	7.6	19	6.0	5.0	2.5	7.2	10	3.1	11	1.6	1.3
25	1.4	6.8	15	4.7	4.7	2.1	4.7	6.0	2.5	7.6	1.4	1.1
26	1.0	24	13	4.5	5.0	39	25	4.7	2.3	14	1.3	1.0
27	1.0	15	13	12	4.7	16	23	4.2	2.5	10	1.3	.72
28	6.0	9.2	10	18	4.5	9.7	22	22	11	6.8	1.3	.72
29	5.7	7.6	8.8	62	-----	8.4	12	13	21	5.3	1.3	.81
30	3.1	9.2	8.0	26	-----	8.0	8.4	6.4	46	4.5	1.3	.64
31	2.1	-----	15	14	-----	6.8	-----	8.8	-----	4.0	1.0	-----
TOTAL	125.45	442.5	505.5	327.8	396.0	256.1	448.8	227.5	173.7	386.0	197.0	71.79
MEAN	4.05	14.8	16.3	10.6	14.1	8.26	15.0	7.34	5.79	12.5	6.35	2.39
MAX	52	56	43	62	80	39	36	22	46	132	50	11
MIN	.57	1.8	8.0	4.2	4.5	2.1	4.7	3.7	1.6	1.8	1.0	.64
CFSM	.86	3.14	3.46	2.25	2.99	1.75	3.18	1.56	1.23	2.65	1.35	.51
IN.	.99	3.49	3.99	2.59	3.13	2.02	3.54	1.80	1.37	3.05	1.56	.57

CAL YR 1972 TOTAL 4,040.78 MEAN 11.0 MAX 146 MIN .57 CFSM 2.34 IN 31.91
WTR YR 1973 TOTAL 3,558.14 MEAN 9.75 MAX 132 MIN .57 CFSM 2.07 IN 28.10

PEAK DISCHARGE (BASE, 86 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-08	1900	1.93	100	7-21	0645	2.54	151
2-02	1645	2.17	120	8-02	1945	1.81	92

01301000 MAMARONECK RIVER AT MAMARONECK, N.Y.

LOCATION.--Lat 40°57'14", long 73°44'06", Westchester County, 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.

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.

AVERAGE DISCHARGE.--27 years (1944-52, 1954-73), 31.7 ft³/s (0.898 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 2,290 ft³/s (64.9 m³/s) Feb. 2 (gage height, 6.44 ft (1.963 m)); minimum, 1.1 ft³/s (0.031 m³/s) Oct. 15, 16 (gage height, 0.23 ft (0.070 m)).

Period of record: Maximum discharge 4,740 ft³/s (134 m³/s) June 19, 1972 (gage height 9.71 ft (2.960 m)) from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of indirect measurement of peak flow; 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.

Maximum stage known, about 11.9 ft (3.63 m) (present datum) Sept. 21, 1938 (hurricane wave), from information by officials of Village of Mamaroneck.

REMARKS.--Records fair. Flow affected by storage in and diversion from water-supply reservoirs on Mamaroneck and Sheldrake Rivers. Diurnal fluctuation caused by water-supply systems.

COOPERATION.--Records of diversion from Mamaroneck and Sheldrake Rivers furnished by Village of Larchmont and Westchester Joint Water Works.

REVISIONS (WATER YEARS).--WSP 1502: 1944(M), 1951(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	10	140	94	52	16	103	37	40	41	10	6.5
2	9.0	30	70	53	728	17	215	33	24	26	303	3.1
3	5.4	19	56	43	489	19	99	59	15	19	88	7.4
4	5.4	10	50	161	168	77	233	64	24	34	43	2.8
5	5.4	7.0	52	79	116	37	188	37	25	106	27	1.7
6	6.0	10	110	55	92	32	92	28	18	31	20	1.2
7	350	8.0	110	38	84	29	68	24	16	18	15	1.2
8	50	720	100	32	77	150	168	23	13	13	13	.84
9	12	208	180	30	76	73	90	101	29	10	11	.68
10	3.0	67	150	28	52	48	248	53	31	9.0	9.6	.84
11	10	52	90	25	44	41	108	49	12	9.0	11	1.2
12	11	55	70	23	35	43	76	45	9.0	9.0	15	.68
13	6.8	35	68	21	33	35	62	35	14	5.7	19	.54
14	2.3	360	60	20	33	34	51	26	15	4.5	11	7.9
15	1.3	175	70	21	119	32	45	27	8.4	77	9.0	21
16	1.3	82	160	20	55	29	40	32	6.9	22	10	4.5
17	1.3	62	70	21	37	74	38	23	8.4	11	8.4	2.2
18	7.0	46	54	20	28	48	35	43	7.4	6.9	6.1	12
19	16	41	50	24	26	32	37	23	7.4	5.7	5.3	4.9
20	12	263	64	48	25	26	34	76	6.1	8.4	3.8	2.2
21	2.0	79	60	24	26	24	27	73	6.5	764	3.1	1.0
22	1.7	55	300	39	26	24	26	41	49	97	4.5	1.0
23	1.5	46	180	97	24	22	33	51	24	45	5.3	9.6
24	1.5	44	80	38	20	19	40	61	12	28	3.8	4.2
25	1.5	41	70	29	18	19	25	35	9.0	22	2.2	1.5
26	1.5	210	66	25	17	180	143	29	7.9	73	2.0	1.2
27	3.0	87	72	85	17	55	127	26	8.4	34	2.2	.84
28	90	70	54	123	17	37	116	136	43	23	2.0	1.0
29	40	67	41	298	-----	32	58	79	147	16	1.7	1.2
30	20	60	39	99	-----	29	43	43	190	13	1.5	1.0
31	12	-----	82	68	-----	28	-----	53	-----	10	1.7	-----
TOTAL	701.9	3,019.0	2,818	1,781	2,534	1,361	2,668	1,465	826.4	1,591.2	668.2	105.92
MEAN	22.6	101	90.9	57.5	90.5	43.9	88.9	47.3	27.5	51.3	21.6	3.53
MAX	350	720	300	298	728	180	248	136	190	764	303	21
MIN	1.3	7.0	39	20	17	16	25	23	6.1	4.5	1.5	.54
±	7.15	6.39	8.63	8.09	8.22	8.24	8.55	9.01	7.53	6.79	7.40	6.90

CAL YR 1972 TOTAL 23,460.83 MEAN 64.1 MAX 2,340 MIN .54 ± 7.40
WTR YR 1973 TOTAL 19,539.62 MEAN 53.5 MAX 764 MIN .54 ± 7.74

± Indicated net diversion, in cubic feet per second, from Mamaroneck and Sheldrake Rivers for water-supply purposes.

HUTCHINSON RIVER BASIN

01301500 HUTCHINSON RIVER AT PELHAM, N.Y.

LOCATION.--Lat 40°54'41", long 73°48'55", Westchester County, on right bank in Pelham, just upstream from Penn Central Transportation Company 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).

AVERAGE DISCHARGE.--29 years (1944-73), 6.57 ft³/s (0.186 m³/s).

EXTREMES.--Current year: Maximum discharge 252 ft³/s (7.14 m³/s) Nov. 8 (gage height, 4.51 ft (1.375 m)); minimum, 0.46 ft³/s (0.013 m³/s) Oct. 1, 5, 6 (gage height, 2.19 ft (0.668 m)).

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 (0.000 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.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.99	2.4	19	14	9.1	4.3	15	8.2	7.9	5.4	3.3	13
2	.64	7.3	15	11	8.8	4.3	24	7.3	9.4	3.8	54	4.8
3	.74	4.6	13	8.8	107	4.3	16	8.5	6.5	4.8	31	6.2
4	.64	5.1	10	23	27	13	31	10	7.3	5.4	12	2.6
5	.54	5.7	9.0	16	16	8.5	30	9.1	7.0	17	7.3	4.3
6	.86	2.8	27	11	12	7.6	17	7.3	5.7	12	5.7	3.1
7	59	2.4	19	8.5	11	6.7	15	6.2	4.8	6.7	4.1	2.0
8	25	85	20	7.3	12	19	24	5.4	4.1	4.8	3.3	1.5
9	8.5	83	27	6.2	11	15	17	14	5.4	3.3	3.1	1.3
10	4.6	28	26	5.9	9.1	9.7	36	12	7.0	2.8	2.8	1.1
11	3.1	20	19	5.7	7.9	8.5	22	9.7	3.8	2.8	2.8	.99
12	3.3	17	14	5.4	7.0	7.3	13	8.2	3.4	2.4	2.4	.74
13	2.2	12	12	5.1	6.2	6.7	10	7.0	4.7	2.0	2.2	.54
14	1.6	42	10	5.4	6.2	6.2	9.1	6.2	3.9	1.8	2.0	5.7
15	1.8	33	17	5.4	20	5.9	8.5	6.2	3.0	16	1.8	8.2
16	1.1	15	23	5.4	12	5.7	8.2	6.5	3.1	8.8	2.0	5.9
17	1.3	10	15	5.4	8.5	11	7.9	5.4	3.0	6.7	1.6	3.8
18	1.1	8.2	9.7	5.4	6.5	9.4	7.9	8.2	2.8	4.3	1.5	3.8
19	3.6	7.9	8.2	7.0	5.9	7.9	8.8	6.2	2.7	2.6	1.3	2.4
20	1.8	38	10	9.7	5.9	9.1	8.8	18	2.7	4.8	1.1	1.8
21	1.1	19	9.4	8.2	5.9	5.9	8.2	18	3.0	121	1.1	1.3
22	1.8	12	38	12	6.2	5.1	7.3	12	6.4	39	1.5	.99
23	2.0	9.1	27	15	5.9	4.6	8.8	14	4.5	12	.99	3.1
24	1.8	7.6	18	10	5.4	4.3	7.9	12	2.7	7.3	.86	1.5
25	1.8	7.0	13	7.3	5.1	4.3	7.3	9.4	2.6	5.7	.74	1.5
26	1.6	24	11	5.9	4.8	27	24	7.9	2.5	7.9	.64	1.3
27	1.6	17	11	18	4.6	15	26	7.3	2.7	7.9	.64	.99
28	9.1	12	9.7	24	4.6	8.8	26	17	7.0	6.7	.64	.86
29	9.7	9.1	8.2	49	-----	7.3	14	15	16	5.1	.64	1.5
30	7.3	11	7.6	23	-----	6.5	9.4	9.7	22	4.1	.64	.86
31	4.1	-----	13	12	-----	6.2	-----	7.9	-----	3.6	.74	-----
TOTAL	164.31	557.2	488.8	356.0	430.8	265.1	468.1	299.8	167.6	338.5	154.43	87.67
MEAN	5.30	18.6	15.8	11.5	15.4	8.55	15.6	9.67	5.59	10.9	4.98	2.92
MAX	59	85	38	49	107	27	36	18	22	121	54	13
MIN	.54	2.4	7.6	5.1	4.6	4.3	7.3	5.4	2.5	1.8	.64	.54
CAL YR 1972	TOTAL 4,259.15	MEAN 11.6	MAX 174	MIN .32								
WTR YR 1973	TOTAL 3,778.31	MEAN 10.4	MAX 121	MIN .54								

01302000 BRONX RIVER AT BRONXVILLE, N.Y.

LOCATION.--Lat 40°56'09", long 73°50'10", Westchester County, on right bank in Bronxville, just upstream from Penn Central Transportation Company bridge, 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), the entire flow from which is diverted for municipal water supply and drainage purposes).

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

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

AVERAGE DISCHARGE.--29 years (1944-73) 39.6 ft³/s (1.121 m³/s) (20.29 in/yr (515.4 mm/yr)).

EXTREMES.--Current year: Maximum discharge 1,550 ft³/s (43.9 m³/s) Nov. 8 (gage height, 7.19 ft (2.192 m)), from rating curve extended as explained below; minimum 8.0 ft³/s (0.23 m³/s) Oct. 22 (gage height, 0.39 ft (0.119 m)).

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)).

REMARKS.--Records good. Entire flow diverted at Kensico Reservoir on Bronx River, at White Plains Reservoirs 1 and 2 on tributary and at Grassy Sprain Reservoir on Grassy Sprain Brook (combined drainage area, 18.0 mi² (46.6 km²)) for water supplies for cities of New York, White Plains and Yonkers, respectively. Subsequent to Oct. 1, 1954, flow from 0.1 mi² (0.259 km²) below Grassy Sprain Reservoir diverted for flood-control purposes.

REVISIONS (WATER YEARS).-- WSP 1382: Drainage area. WRD New York 1971: 1961-67(P), 1968(M), 1970(M). WRD NY 1972: 1969(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	17	151	107	58	31	120	54	50	40	24	25
2	14	54	69	74	565	32	172	52	50	28	301	14
3	10	24	60	65	474	33	80	93	37	24	70	18
4	9.9	17	56	139	170	79	196	81	48	76	45	14
5	9.9	25	61	84	133	41	133	53	45	93	36	13
6	11	24	121	65	110	38	86	47	34	33	32	12
7	366	19	105	54	101	38	73	45	33	25	29	12
8	50	510	107	49	98	133	159	44	35	21	26	11
9	22	222	148	48	95	60	93	132	43	20	24	10
10	19	65	120	46	70	46	281	65	52	19	24	9.9
11	17	60	89	44	65	44	118	67	28	22	23	9.9
12	23	59	76	43	59	46	90	60	25	18	35	9.9
13	24	45	76	39	55	40	79	50	35	16	43	9.5
14	16	329	67	39	54	39	70	45	29	17	23	30
15	14	135	90	40	118	39	65	47	22	96	21	79
16	16	73	132	39	60	38	63	53	23	28	21	16
17	14	63	69	39	49	80	60	41	22	19	19	12
18	12	55	60	38	46	53	58	68	21	16	19	21
19	28	53	60	45	45	40	69	40	20	16	18	15
20	18	211	73	64	45	37	55	116	20	34	18	12
21	14	72	65	38	43	36	49	83	21	588	17	10
22	12	60	233	72	43	35	48	52	47	74	19	9.9
23	12	54	110	101	39	34	59	68	33	45	16	35
24	13	49	86	48	36	32	63	68	20	36	16	14
25	13	48	76	41	35	32	47	48	19	33	15	11
26	12	198	73	39	35	174	155	45	18	93	14	12
27	12	81	80	101	34	53	146	43	20	41	14	12
28	99	63	65	104	33	45	115	113	41	33	14	9.5
29	65	56	59	203	-----	41	68	70	118	29	14	12
30	26	63	60	79	-----	41	58	48	161	27	14	9.5
31	19	-----	101	64	-----	39	-----	48	-----	25	14	-----
TOTAL	1,011.8	2,804	2,798	2,051	2,768	1,549	2,928	1,939	1,170	1,685	1,018	488.1
MEAN	32.6	93.5	90.3	66.2	98.9	50.0	97.6	62.5	39.0	54.4	32.8	16.3
MAX	366	510	233	203	565	174	281	132	161	588	301	79
MIN	9.9	17	56	38	33	31	47	40	18	16	14	9.5
CFSM	1.23	3.53	3.41	2.50	3.73	1.89	3.68	2.36	1.47	2.05	1.24	.62
IN.	1.42	3.94	3.93	2.88	3.89	2.17	4.11	2.72	1.64	2.37	1.43	.69

CAL YR 1972 TOTAL 26,361.7 MEAN 72.0 MAX 1,610 MIN 9.9 CFSM 2.72 IN 37.01
WTR YR 1973 TOTAL 22,209.9 MEAN 60.8 MAX 588 MIN 9.5 CFSM 2.29 IN 31.18

PEAK DISCHARGE (BASE, 525 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-07	0945	5.07	982	4-04	1815	3.28	535
11-08	1715	7.19	1,550	4-10	0800	3.46	580
11-14	1430	4.34	775	7-21	0745	5.80	1,160
2-02	1845	6.18	1,260	8-02	1230	5.23	1,020

STREAMS ON LONG ISLAND

01302500 GLEN COVE CREEK AT GLEN COVE, N.Y.

LOCATION.--Lat 40°51'48", long 73°38'05", Nassau County, on right bank just downstream from Glen Cove Road culvert at 8- x 10-foot concrete culvert outlet in Pratt Park, 1 block west of post office, Glen Cove.

DRAINAGE AREA.--About 11 mi² (28 km²).

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1967, published as Cedar Swamp Creek.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 15.93 ft (4.855 m) above mean sea level, adjustment of 1912. Prior to September 10, 1957, at datum 0.6 ft (0.18 m) lower.

AVERAGE DISCHARGE.--35 years, 6.80 ft³/s (0.193 m³/s).

EXTREMES.--Current year: Maximum discharge, 484 ft³/s (13.7 m³/s) June 22, 28 (gage height, 4.12 ft (1.256 m)); minimum, 3.1 ft³/s (0.088 m³/s) Oct. 17, 18, 25-28 (gage height, 0.61 ft (0.186 m)).

Period of record: Maximum discharge, 1,860 ft³/s (52.7 m³/s) Sept. 12, 1960 (gage height, 7.12 ft (2.170 m)), from rating curve extended above 220 ft³/s (6.23 m³/s); minimum, 2.1 ft³/s (0.059 m³/s) Oct. 15, 1967; minimum gage height, 0.52 ft (0.158 m), Oct. 22, 1959, Oct. 15, 1967.

CORRECTION.--The minimum discharge for the calendar year 1971 is 2.4 ft³/s (0.067 m³/s) the previously published yearly figure was not correct.

REMARKS.--Records good except those above 300 ft³/s (8.50 m³/s), which are fair. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 971: 1939-42.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.9	16	7.0	4.6	4.1	34	5.3	6.1	13	4.1	3.9
2	3.6	10	5.1	4.7	53	3.7	25	5.0	4.2	6.6	6.1	3.9
3	3.4	4.6	4.1	4.1	19	4.3	9.6	10	4.0	5.4	13	4.0
4	3.3	3.8	4.3	13	7.8	9.5	39	5.3	5.9	5.0	6.8	4.1
5	3.4	3.8	4.4	5.7	6.9	4.5	15	4.7	4.0	23	4.9	5.5
6	4.1	3.5	23	4.3	5.0	4.2	8.1	4.3	4.0	6.7	4.5	4.2
7	86	3.5	10	3.8	7.6	4.1	6.4	4.0	4.1	5.1	5.1	4.2
8	15	74	15	3.7	8.4	12	23	4.7	3.9	4.3	4.8	4.1
9	5.7	27	12	3.6	6.0	5.1	7.7	19	8.7	4.1	4.6	3.9
10	4.6	6.7	9.7	3.5	5.0	4.5	25	6.5	4.6	4.7	4.1	4.0
11	4.4	5.0	5.9	3.6	4.0	4.2	8.0	5.3	4.2	8.3	5.7	4.1
12	4.9	4.3	5.0	3.5	3.8	4.4	6.2	5.4	4.0	5.4	4.2	4.1
13	4.0	3.8	4.9	3.6	3.6	4.0	5.1	4.4	5.1	4.3	4.2	4.1
14	3.7	55	4.7	3.4	3.5	4.0	4.8	4.1	4.1	3.9	4.1	16
15	3.4	15	16	3.5	10	4.2	4.5	7.0	3.8	89	4.4	11
16	3.4	5.7	10	3.5	7.0	4.5	4.3	5.3	4.4	11	4.1	5.0
17	3.2	4.4	4.9	3.7	5.0	9.1	4.3	4.4	3.8	6.9	4.0	4.4
18	3.3	3.8	4.1	3.8	4.0	4.6	4.3	6.7	4.1	5.7	4.0	29
19	11	5.0	4.2	6.4	3.7	4.0	4.4	4.2	3.8	5.0	4.1	7.8
20	4.0	28	5.6	4.9	3.6	3.8	4.2	12	3.9	38	4.0	5.3
21	3.7	7.2	5.1	3.6	3.5	3.9	4.1	8.2	5.1	18	4.0	4.9
22	3.6	4.6	25	11	5.0	4.3	4.2	5.0	60	7.3	6.8	4.7
23	3.3	4.0	12	6.2	4.0	4.6	9.5	15	8.8	5.8	4.0	7.0
24	3.3	3.7	6.7	4.2	3.7	4.5	4.9	7.5	5.0	4.9	3.9	4.5
25	3.3	3.7	5.0	4.1	3.6	4.3	4.6	5.1	4.3	4.4	4.0	4.3
26	3.2	39	5.0	3.9	3.5	40	42	4.4	4.6	8.9	3.9	4.1
27	3.2	9.7	5.4	17	3.5	7.1	20	4.6	4.7	4.6	4.0	4.1
28	12	5.1	4.3	13	3.5	5.2	9.2	13	35	4.3	4.0	4.1
29	4.4	4.3	3.9	28	-----	4.6	5.9	5.5	51	4.1	4.0	5.4
30	4.1	12	3.8	7.1	-----	4.5	5.2	4.5	58	4.1	4.0	4.0
31	4.1	-----	9.8	4.8	-----	4.1	-----	5.0	-----	4.2	4.0	-----
TOTAL	226.0	364.1	254.9	196.2	201.8	189.9	352.5	205.4	327.2	326.0	147.4	179.7
MEAN	7.29	12.1	8.22	6.33	7.21	6.13	11.8	6.63	10.9	10.5	4.75	5.99
MAX	86	74	25	28	53	40	42	19	60	89	13	29
MIN	3.2	3.5	3.8	3.4	3.5	3.7	4.1	4.0	3.8	3.9	3.9	3.9

CAL YR 1972 TOTAL 2,407.6 MEAN 6.58 MAX 86 MIN 2.7
WTR YR 1973 TOTAL 2,971.1 MEAN 8.14 MAX 89 MIN 3.2

01303000 MILL NECK CREEK AT MILL NECK, N.Y.

LOCATION.--Lat 40°53'15", long 73°33'51", Nassau County, on right bank at Beaver Dam, 30 ft (9 m) upstream from Feeks Lane (Cleft Road) bridge in Mill Neck, and 1.5 mi (2.4 km) southwest of Bayville.

DRAINAGE AREA.--About 11.5 mi² (30 km²).

PERIOD OF RECORD.--January 1937 to current year.

GAGE.--Water-stage recorder and steel sheet-piling control. Datum of gage is 6.49 ft (1.978 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 8.99 ft³/s (0.255 m³/s).

EXTREMES.--Current year: Maximum discharge, 63 ft³/s (1.78 m³/s) July 21 (gage height, 1.06 ft (0.323 m)); maximum gage height, 1.14 ft (0.347 m) Apr. 5 (back water from high tide); minimum discharge 6.0 ft³/s (0.17 m³/s) several days in October (gage height, 0.24 ft (0.073 m)).

Period of record: Maximum discharge, 137 ft³/s (3.88 m³/s) Sept. 12, 1960, from rating curve extended above 35 ft³/s (0.99 m³/s); maximum gage height, 4.85 ft (1.478 m) Sept. 21, 1938 (hurricane wave); minimum discharge, 0.09 ft³/s (0.003 m³/s) Dec. 11, 1941 (result of freezeup); minimum gage height, 0.14 ft (0.043 m) Sept. 8, 1939 (result of wind action).

REMARKS.--Records good. Slight regulation by ponds above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	7.0	14	12	9.6	8.1	12	10	8.8	19	8.4	8.1
2	6.3	9.6	11	9.6	19	11	20	9.6	11	13	10	8.4
3	6.3	8.8	9.2	8.8	22	12	14	10	9.6	11	12	8.4
4	6.0	7.4	8.4	11	12	13	16	12	10	11	12	8.4
5	6.3	7.0	8.8	10	10	11	23	10	10	12	11	10
6	6.3	6.7	12	9.2	9.6	9.6	14	9.6	8.8	12	8.8	11
7	36	7.0	15	12	9.6	8.8	11	8.8	8.8	10	8.8	9.6
8	19	21	12	10	10	12	13	8.8	8.8	8.8	8.8	8.1
9	10	26	13	8.4	10	11	12	13	8.8	8.4	8.8	7.7
10	7.4	13	12	8.1	8.4	9.6	16	12	10	8.8	8.8	8.4
11	6.7	10	10	8.1	8.1	8.8	12	12	8.8	9.6	8.8	8.1
12	7.0	9.6	9.6	8.1	7.7	9.6	10	10	8.4	10	9.6	8.1
13	7.0	8.4	9.6	8.1	7.7	8.4	9.6	10	8.4	8.8	8.8	7.7
14	6.7	20	8.8	8.1	7.7	8.4	8.8	9.6	8.4	8.8	8.8	8.8
15	6.3	19	9.6	8.4	12	8.8	8.8	9.6	8.1	37	8.8	15
16	6.3	12	13	8.1	11	8.8	8.8	11	8.4	21	9.6	12
17	6.3	9.6	13	8.4	8.8	11	8.8	10	8.4	12	9.6	9.6
18	6.0	8.8	10	8.4	8.1	9.6	8.8	10	8.4	10	8.8	21
19	9.2	8.4	9.2	8.8	8.1	8.1	8.8	9.6	8.8	8.8	8.8	16
20	8.4	18	9.6	10	8.1	7.7	9.6	10	8.8	16	8.8	12
21	7.0	12	12	9.6	8.1	7.7	8.8	12	8.8	42	8.4	9.6
22	6.7	9.6	20	10	8.8	7.7	8.4	11	19	19	11	8.8
23	6.7	9.6	17	12	8.4	7.7	9.6	12	22	12	10	10
24	7.0	8.8	12	9.6	8.1	7.7	11	13	13	11	8.8	10
25	6.7	8.1	10	8.8	7.7	7.7	9.6	11	11	11	8.8	8.8
26	6.7	17	9.2	8.4	7.7	19	19	10	10	12	8.4	8.8
27	6.7	13	9.6	10	7.7	13	19	10	10	11	8.4	8.8
28	8.1	9.6	9.2	14	7.7	10	16	12	16	10	8.4	8.4
29	9.2	8.4	8.4	18	-----	8.8	12	12	18	10	8.4	8.8
30	7.4	8.4	8.4	17	-----	8.4	10	10	34	9.6	8.1	8.4
31	7.0	-----	9.6	12	-----	8.4	-----	9.6	-----	8.8	8.1	-----
TOTAL	259.7	341.8	343.2	313.0	271.7	301.4	368.4	328.2	341.3	412.4	284.6	296.8
MEAN	8.38	11.4	11.1	10.1	9.70	9.72	12.3	10.6	11.4	13.3	9.18	9.89
MAX	36	26	20	18	22	19	23	13	34	42	12	21
MIN	6.0	6.7	8.4	8.1	7.7	7.7	8.4	8.8	8.1	8.4	8.1	7.7

CAL YR 1972 TOTAL 3,802.3 MEAN 10.4 MAX 36 MIN 5.0
WTR YR 1973 TOTAL 3,862.5 MEAN 10.6 MAX 42 MIN 6.0

PEAK DISCHARGE (BASE, 32 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-7	1200	1.05	62	6-30	0630	.91	47
11-8	2000	.88	44	7-15	0930	1.03	59
11-14	1600	.75	34	7-21	0030	1.06	63
2-2	1830	.78	36	9-18	1130	.73	32
6-22	1800	.81	38				

STREAMS ON LONG ISLAND

01303500 COLD SPRING BROOK AT COLD SPRING HARBOR, N.Y.

LOCATION.--Lat 40°51'26", long 73°27'50", Nassau County, on left bank 270 ft (82 m) upstream from State Highway 25-A, at Cold Spring Harbor State Fish Hatchery, and 1.0 mi (1.6 km) southwest of village of Cold Spring Harbor.

DRAINAGE AREA.--About 7.3 mi² (19 km²).

PERIOD OF RECORD.--July 1950 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5.38 ft (1.640 m) above mean sea level.

AVERAGE DISCHARGE.--23 years, 2.32 ft³/s (0.0657 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 47 ft³/s (1.33 m³/s) Oct. 7 (gage height, 1.00 ft (0.305 m)); maximum gage height, 2.85 ft (0.869 m) Apr. 4 (backwater from high tide); minimum discharge, 1.2 ft³/s (0.034 m³/s) Jan. 8 (gage height, 0.17 ft (0.052 m), result of regulation).

Period of record: Maximum discharge, 108 ft³/s (3.06 m³/s) Sept. 11, 1954 (gage height, 1.33 ft (0.405 m), backwater from aquatic vegetation), from rating curve extended above 28 ft³/s (0.79 m³/s); maximum gage height, 5.34 ft (1.628 m) Aug. 31, 1954 (backwater from high tide), from high-water mark; minimum discharge, 0.20 ft³/s (0.006 m³/s) Jan. 24-27, 1967 (gage height, 0.07 ft (0.021 m)).

REMARKS.--Records good. Flow occasionally regulated at outlet of pond 40 ft (12 m) above station. Diversion from this pond by New York State Fish Hatchery bypasses station. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	3.0	3.7	3.7	3.4	2.3	3.5	3.7	3.4	7.3	3.4	2.7
2	2.5	3.2	3.5	3.4	5.6	2.3	5.0	3.4	3.4	5.3	3.0	2.7
3	2.5	3.3	3.5	3.4	8.2	2.3	4.4	3.4	3.2	4.4	4.7	2.7
4	2.5	3.0	3.7	3.7	5.6	2.9	4.3	3.7	3.0	4.2	6.2	3.0
5	2.5	3.0	3.6	3.7	4.2	2.8	5.6	3.4	3.2	4.8	4.7	3.0
6	2.6	3.0	3.9	3.4	3.4	2.6	4.2	3.4	3.0	4.9	3.7	3.0
7	20	2.9	4.7	3.2	3.4	2.5	3.4	3.4	3.0	4.3	3.4	3.0
8	9.8	5.0	4.5	3.0	3.4	2.8	3.7	3.2	3.0	4.2	3.2	3.0
9	4.9	9.1	4.6	3.2	3.0	3.0	3.7	3.9	3.0	4.0	3.4	3.0
10	3.6	5.3	4.4	3.2	3.0	2.7	4.2	4.4	3.2	4.1	3.4	3.0
11	3.0	4.0	4.0	3.2	3.0	2.7	4.2	4.0	3.2	4.1	3.4	3.0
12	2.7	3.5	3.7	3.2	3.0	2.7	3.4	3.7	3.0	4.4	3.2	2.7
13	2.7	3.2	3.6	3.5	3.2	2.7	3.2	3.5	3.0	4.2	3.4	3.0
14	2.7	6.0	3.4	4.4	3.2	2.5	3.0	3.3	3.2	3.9	3.4	3.0
15	2.6	7.9	3.4	3.7	4.2	2.5	3.0	3.3	3.0	5.3	3.2	3.9
16	2.5	4.9	3.9	3.4	3.9	2.5	3.0	3.6	3.0	5.6	3.4	3.7
17	2.5	4.0	3.6	3.4	3.2	3.2	3.0	3.1	3.2	5.0	3.2	3.4
18	2.6	3.4	3.4	3.4	2.7	3.2	3.2	3.1	3.0	4.4	3.2	3.4
19	3.2	3.4	3.4	3.2	2.5	2.7	3.4	3.2	3.0	4.2	3.0	3.4
20	3.2	5.2	3.4	3.2	2.3	2.5	3.9	3.4	3.2	3.4	3.0	3.2
21	3.0	5.0	3.4	3.0	2.4	2.5	3.9	4.0	3.4	4.4	3.0	3.2
22	3.0	3.9	4.2	3.0	2.7	2.3	3.9	3.8	4.5	4.7	3.0	3.0
23	3.0	3.7	4.4	3.4	2.6	2.3	3.9	3.7	5.6	4.7	3.2	3.0
24	2.7	3.4	4.2	3.2	2.4	2.5	4.2	4.3	4.7	4.2	3.2	3.2
25	2.7	4.7	3.9	3.2	2.3	2.5	4.2	4.0	4.2	3.9	3.2	3.2
26	2.7	5.3	3.7	3.2	2.3	5.1	6.1	3.7	3.9	3.7	3.2	3.0
27	2.7	3.0	3.7	3.2	2.3	4.7	6.9	3.7	3.7	3.4	3.2	3.0
28	3.0	3.2	3.4	3.9	2.3	3.4	5.9	3.9	3.9	3.2	3.2	3.0
29	3.6	3.1	3.4	5.6	-----	3.0	5.0	3.9	4.2	3.0	3.2	3.0
30	3.3	3.1	3.4	4.7	-----	2.7	4.4	3.7	11	3.9	3.0	3.2
31	3.0	-----	3.4	3.9	-----	2.7	-----	3.7	-----	3.9	2.7	-----
TOTAL	113.8	124.7	117.0	108.8	93.7	87.1	123.7	112.5	111.3	135.0	105.6	92.6
MEAN	3.67	4.16	3.77	3.51	3.35	2.81	4.12	3.63	3.71	4.35	3.41	3.09
MAX	20	9.1	4.7	5.6	8.2	5.1	6.9	4.4	11	7.3	6.2	3.9
MIN	2.5	2.9	3.4	3.0	2.3	2.3	3.0	3.1	3.0	3.0	2.7	2.7
f	.17	.50	.41	.33	1.11	1.54	1.30	1.21	.90	.87	1.20	1.30

CAL YR 1972 TOTAL 1,080.2 MEAN 2.95 f .32 MAX 20 MIN 1.4
WTR YR 1973 TOTAL 1,325.8 MEAN 3.63 f .90 MAX 20 MIN 2.3

f INDICATED ADJUSTMENT, IN CUBIC FEET PER SECOND, FOR DIVERSION THROUGH FISH HATCHERY.

STREAMS ON LONG ISLAND

37

J1304000 NISSEQUOGUE RIVER NEAR SMITHTOWN, N.Y.

LOCATION.--Lat 40°50'58", long 73°13'29", Suffolk County, on left bank 0.5 mi (0.8 km) downstream from Blydenburgh Pond, 1.0 mi (1.6 km) southwest of Smithtown, and 1.5 mi (2.4 km) southwest of village of Smithtown Branch.

DRAINAGE AREA.--About 27 mi² (70 km²).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 9.59 ft (2.923 m) above mean sea level.

AVERAGE DISCHARGE.--30 years, 40.4 ft³/s (1.144 m³/s).

EXTREMES.--Current year: Maximum discharge, 117 ft³/s (3.31 m³/s) Oct. 7 (gage height, 1.12 ft (0.341 m)); minimum, 24 ft³/s (0.68 m³/s) Dec. 18 (gage height, 0.52 ft (0.158 m), result of regulation).

Period of record: Maximum discharge, 324 ft³/s (9.18 m³/s) Oct. 15, 1955 (gage height, 1.96 ft (0.597 m)), from rating curve extended above 130 ft³/s (3.68 m³/s); minimum, 16 ft³/s (0.45 m³/s) June 5, 6, 1967 (gage height, 0.48 ft (0.146 m)); minimum daily, 19 ft³/s (0.54 m³/s) June 6, 1967.

REMARKS.--Records good. Occasional regulation caused by cleaning of fish screens and trash racks at outlets of Blydenburgh Pond on main stream and ponds on tributaries above station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	37	47	51	48	47	55	57	51	63	49	44
2	34	39	44	49	62	47	68	55	49	58	53	44
3	32	39	42	47	64	47	63	57	48	54	56	44
4	32	37	42	49	54	55	60	49	49	52	54	44
5	31	37	42	51	48	52	70	48	51	61	49	44
6	31	37	48	48	47	50	60	51	49	60	48	47
7	87	37	54	45	48	50	55	44	48	57	47	49
8	82	48	51	52	52	53	60	41	48	54	47	48
9	60	58	54	58	60	52	57	49	47	52	47	47
10	48	51	52	54	54	50	65	51	47	49	47	45
11	44	45	49	47	49	50	65	55	47	63	47	45
12	41	42	48	54	49	50	60	54	47	89	47	44
13	40	41	47	48	49	48	58	52	44	75	47	44
14	40	52	45	45	49	48	57	51	43	65	47	45
15	39	57	47	46	57	48	55	52	48	77	55	55
16	37	51	52	45	57	48	55	52	47	70	48	51
17	37	47	47	45	52	57	55	54	47	63	47	48
18	36	44	40	45	51	50	55	54	45	60	47	49
19	41	42	51	47	51	48	55	52	45	57	47	48
20	40	58	48	55	49	46	55	52	45	57	47	47
21	39	52	47	47	49	46	54	57	45	68	46	45
22	37	48	56	47	51	46	54	55	58	68	48	45
23	37	44	53	53	50	46	54	55	65	61	47	45
24	36	44	50	47	49	46	57	61	58	55	46	45
25	36	42	48	45	48	46	43	60	55	54	46	45
26	36	54	47	45	48	65	57	55	52	54	45	44
27	36	51	49	50	48	60	70	54	52	52	45	44
28	39	47	48	54	47	54	71	57	52	51	45	44
29	41	44	47	60	-----	50	63	57	51	51	45	44
30	39	42	47	47	-----	48	58	55	66	49	45	44
31	37	-----	50	45	-----	48	-----	52	-----	49	45	-----
TOTAL	1,280	1,367	1,492	1,521	1,440	1,551	1,764	1,648	1,499	1,848	1,479	1,377
MEAN	41.3	45.6	48.1	49.1	51.4	50.0	58.8	53.2	50.0	59.6	47.7	45.9
MAX	87	58	56	60	64	65	71	61	66	89	56	55
MIN	31	37	40	45	47	46	43	41	43	49	45	44

CAL YR 1972 TOTAL 14,400 MEAN 39.3 MAX 87 MIN 22
WTR YR 1973 TOTAL 18,266 MEAN 50.0 MAX 89 MIN 31

STREAMS ON LONG ISLAND

01304500 PECONIC RIVER AT RIVERHEAD, N.Y.

LOCATION.--Lat 40°54'49", long 72°41'14", Suffolk County, on right bank 200 ft (61 m) downstream from Long Island Lighting Co. dam, 0.4 mi (0.6 km) west of Riverhead, and 1.2 mi (1.9 km) upstream from outlet of Sweezy Pond.

DRAINAGE AREA.--About 75 mi² (194 km²).

PERIOD OF RECORD.--June 1942 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6.54 ft (1.993 m) above mean sea level.

AVERAGE DISCHARGE.--31 years, 34.3 ft³/s (0.971 m³/s).

EXTREMES.--Current year: Maximum discharge, 117 ft³/s (3.31 m³/s) Apr. 11 (gage height, 0.89 ft (0.271 m)); minimum, 1.8 ft³/s (0.051 m³/s) Dec. 7 (gage height, 0.12 ft (0.037 m), result of regulation); minimum daily, 23 ft³/s (0.65 m³/s) Oct. 2-6.

Period of record: Maximum discharge, 140 ft³/s (3.96 m³/s) Apr. 14, 1953 (gage height, 0.97 ft (0.296 m)); minimum, 1.4 ft³/s (0.040 m³/s) Jan. 9, 1966, Jan. 31, 1967, Dec. 6, 1969, Jan. 27, 1972; minimum gage height, 0.10 ft (0.030 m) Jan. 31, 1967, Jan. 27, 1972, result of freezeup, Dec. 6, 1969; minimum daily, 3.7 ft³/s (0.10 m³/s) Aug. 2, 1944.

REMARKS.--Records good. Flow regulated by ponds above station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	31	50	70	64	59	66	83	79	67	50	39
2	23	31	51	67	69	58	77	81	74	65	50	39
3	23	31	50	65	80	57	77	81	72	73	50	38
4	23	31	49	65	81	61	79	79	72	70	50	33
5	23	30	48	65	81	61	86	77	72	68	49	27
6	23	30	51	63	81	59	83	72	70	69	49	31
7	34	30	61	46	82	58	83	70	70	67	49	35
8	40	31	61	63	81	62	86	70	68	64	47	37
9	39	37	69	60	82	64	88	74	67	57	45	39
10	35	35	73	58	80	62	91	79	66	56	45	40
11	34	35	74	56	72	62	98	79	65	58	44	39
12	34	35	71	55	69	62	100	79	64	60	43	38
13	34	34	69	54	79	61	91	79	64	59	43	37
14	34	37	65	52	72	60	88	77	64	57	44	37
15	34	56	64	51	74	59	86	77	62	58	50	41
16	34	52	67	50	74	58	83	77	61	60	50	42
17	34	31	46	50	72	62	81	74	58	60	50	41
18	32	30	40	50	65	64	79	74	36	58	49	44
19	32	34	72	51	68	61	74	72	38	57	49	47
20	32	54	70	54	69	60	74	72	57	56	48	46
21	31	58	65	52	68	58	74	74	61	63	47	45
22	31	49	67	53	67	56	74	74	58	64	47	43
23	30	47	69	56	66	56	74	74	61	63	46	43
24	30	45	69	55	65	56	74	81	62	62	45	42
25	30	45	67	53	64	56	72	81	62	60	44	41
26	28	49	66	52	62	62	77	83	62	58	44	40
27	28	52	66	53	62	64	83	83	63	58	43	39
28	28	49	66	58	60	64	88	83	66	56	43	39
29	32	49	67	65	-----	64	88	83	65	54	41	38
30	32	47	74	65	-----	64	86	83	67	52	40	37
31	31	-----	71	65	-----	64	-----	81	-----	52	40	-----
TOTAL	954	1,205	1,948	1,772	2,009	1,874	2,460	2,406	1,906	1,881	1,434	1,177
MEAN	30.8	40.2	62.8	57.2	71.8	60.5	82.0	77.6	63.5	60.7	46.3	39.2
MAX	40	58	74	70	82	64	100	83	79	73	50	47
MIN	23	30	40	46	60	56	66	70	36	52	40	27

CAL YR 1972 TOTAL 14,774 MEAN 40.4 MAX 81 MIN 14
WTR YR 1973 TOTAL 21,026 MEAN 57.6 MAX 100 MIN 23

STREAMS ON LONG ISLAND

39

01305000 CARMANS RIVER AT YAPHANK, N.Y.

LOCATION.--Lat 40°49'49", long 72°54'24", Suffolk County, on left bank 50 ft (15 m) upstream from Long Island Railroad bridge, 0.2 mi (0.3 km) northeast of Yaphank Station, 0.5 mi (0.8 km) southeast of Yaphank.

DRAINAGE AREA.--About 71 mi² (184 km²).

PERIOD OF RECORD.--June 1942 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 17.95 ft (5.471 m) above mean sea level. Prior to Feb. 2, 1967, at same site at datum 1.0 ft (0.30 m) higher.

AVERAGE DISCHARGE.--31 years, 22.7 ft³/s (0.643 m³/s).

EXTREMES.--Current year: Maximum discharge, 77 ft³/s (2.18 m³/s) Oct. 7 (gage height, 1.77 ft (0.539 m)); minimum, 8.8 ft³/s (0.25 m³/s) Dec. 17, 18 (gage height, 0.94 ft (0.287 m)), result of freezeup.

Period of record: Maximum discharge, 83 ft³/s (2.35 m³/s) Sept. 11, 1954 (gage height, 1.25 ft (0.381 m), datum then in use); minimum, 2.8 ft³/s (0.079 m³/s) Feb. 24, 1967 (gage height, 0.73 ft (0.223 m)); minimum daily discharge, 6.2 ft³/s (0.18 m³/s) Feb. 28, Mar. 3, 1967, result of temporary construction upstream.

REMARKS.--Records good. Some regulation by two lakes above station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	19	27	29	28	29	36	37	36	39	32	29
2	18	21	24	28	38	29	41	36	36	36	33	29
3	18	22	24	27	38	28	35	37	35	34	34	28
4	17	20	23	28	33	32	37	38	35	34	34	29
5	18	20	23	28	31	32	38	37	35	44	32	28
6	18	19	28	27	30	30	34	36	35	40	32	29
7	50	19	30	23	32	30	34	35	35	36	31	30
8	38	24	27	28	32	32	40	35	34	35	31	30
9	28	27	29	26	32	30	37	44	34	35	30	29
10	24	23	27	26	31	29	39	41	33	34	30	28
11	23	22	25	26	29	29	37	40	32	35	30	28
12	22	21	25	26	31	29	35	39	32	37	31	29
13	22	21	25	25	32	28	33	38	32	36	31	29
14	22	26	25	25	31	28	37	37	32	34	30	30
15	22	27	28	26	36	28	38	36	32	37	37	37
16	21	24	29	26	33	28	36	37	34	37	33	32
17	21	22	19	25	31	34	35	36	34	35	32	30
18	21	22	24	25	32	32	36	37	32	34	31	31
19	24	22	30	26	31	30	36	36	32	33	31	31
20	22	30	27	29	31	29	35	37	33	33	30	30
21	21	25	26	26	31	28	35	43	33	43	30	30
22	21	24	31	26	32	28	35	40	39	41	31	29
23	21	23	30	28	30	28	35	40	41	37	31	29
24	21	22	29	26	30	29	36	44	37	35	30	28
25	20	22	28	25	30	30	34	41	36	33	30	28
26	20	28	27	25	30	37	44	39	38	33	30	28
27	20	25	28	28	30	32	45	38	38	33	30	28
28	21	24	27	31	30	31	45	39	37	32	30	28
29	22	24	26	36	-----	30	41	39	35	32	30	28
30	21	23	26	29	-----	29	38	37	40	32	30	27
31	20	-----	27	29	-----	29	-----	36	-----	32	30	-----
TOTAL	695	691	824	838	885	927	1,117	1,185	1,047	1,101	967	879
MEAN	22.4	23.0	26.6	27.0	31.6	29.9	37.2	38.2	34.9	35.5	31.2	29.3
MAX	50	30	31	36	38	37	45	44	41	44	37	37
MIN	17	19	19	23	28	28	33	35	32	32	30	27

CAL YR 1972 TOTAL 7,549 MEAN 20.6 MAX 50 MIN 12
WTR YR 1973 TOTAL 11,156 MEAN 30.6 MAX 50 MIN 17

STREAMS ON LONG ISLAND

01305500 SWAN RIVER AT EAST PATCHOGUE, N.Y.

LOCATION.--Lat 40°46'01", long 72°59'39", Suffolk County, on left bank 94 ft (29 m) downstream from Montauk Highway in East Patchogue, 200 ft (61 m) downstream from outlet of Swan Lake and 1.2 mi (1.9 km) upstream from mouth.

DRAINAGE AREA.--About 8.8 mi² (23 km²).

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2.84 ft (0.866 m) above mean sea level.

AVERAGE DISCHARGE.--27 years, 12.3 ft³/s (0.348 m³/s).

EXTREMES.--Current year: Maximum discharge, 103 ft³/s (2.92 m³/s) June 30 (gage height, 1.63 ft (0.497 m)), from rating curve extended above 18 ft³/s (0.51 m³/s); minimum, 0.21 ft³/s (0.006 m³/s) Dec. 18 (result of regulation); minimum gage height, 0.10 ft (0.030 m) Dec. 18, Jan. 8; minimum daily discharge, 8.9 ft³/s (0.25 m³/s) Oct. 4.

Period of record: Maximum discharge, 103 ft³/s (2.92 m³/s) June 30, 1973 (gage height, 1.63 ft (0.497 m)), from rating curve extended above 18 ft³/s (0.51 m³/s); maximum gage height, 1.80 ft (0.549 m) Sept. 11, 1954 (backwater from debris); minimum discharge, 0.06 ft³/s (0.002 m³/s) Sept. 2, 1964 (gage height, 0.02 ft (0.006 m)); minimum daily, 4.3 ft³/s (0.12 m³/s) Oct. 13, 14, 1967.

REMARKS.--Records fair. Flow regulated occasionally at outlet of Swan Lake. Water quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1622: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	11	14	13	15	15	19	16	15	17	14	13
2	9.0	12	12	13	18	15	18	16	15	15	17	13
3	9.0	12	11	13	17	15	18	16	16	15	16	13
4	8.9	12	11	15	22	17	20	17	17	15	15	13
5	9.0	11	12	14	23	16	19	16	16	21	15	13
6	9.7	11	16	13	23	15	17	16	17	17	15	13
7	45	11	15	13	23	15	16	15	16	16	15	13
8	16	13	14	12	21	16	19	15	16	15	15	13
9	12	15	14	13	22	16	18	19	15	15	15	13
10	11	11	13	13	21	15	19	18	17	15	15	13
11	11	11	13	13	18	15	17	17	16	17	15	13
12	11	11	13	13	17	15	17	17	15	18	18	13
13	11	12	13	13	17	15	17	17	16	17	16	12
14	11	14	13	13	17	15	17	17	15	16	15	15
15	11	14	13	13	21	15	17	18	15	18	19	18
16	10	13	17	13	20	15	17	18	16	17	16	13
17	11	12	12	13	18	19	17	17	14	17	15	12
18	10	12	11	13	17	18	17	17	14	18	15	13
19	11	12	13	13	17	15	17	17	14	18	14	12
20	11	17	12	14	17	15	17	19	14	17	14	12
21	11	13	12	13	16	14	16	18	14	21	14	12
22	11	12	15	14	17	15	16	15	22	17	15	12
23	10	11	14	20	16	15	16	19	19	16	15	12
24	10	11	14	19	16	15	16	19	16	16	15	12
25	10	11	13	20	16	14	15	16	15	15	14	12
26	10	15	13	22	16	22	20	14	16	14	14	12
27	10	13	13	26	16	16	18	18	20	14	13	12
28	12	12	13	32	16	15	17	18	18	14	14	12
29	14	12	12	29	-----	15	16	16	15	14	14	12
30	12	12	12	19	-----	15	16	16	25	14	13	12
31	11	-----	12	16	-----	15	-----	16	-----	14	13	-----
TOTAL	367.7	369	405	493	513	483	519	523	489	503	463	383
MEAN	11.9	12.3	13.1	15.9	18.3	15.6	17.3	16.9	16.3	16.2	14.9	12.8
MAX	45	17	17	32	23	22	20	19	25	21	19	18
MIN	8.9	11	11	12	15	14	15	14	14	14	13	12

CAL YR 1972 TOTAL 4,310.5 MEAN 11.8 MAX 45 MIN 8.9
WTR YR 1973 TOTAL 5,510.7 MEAN 15.1 MAX 45 MIN 8.9

STREAMS ON LONG ISLAND

41

01306500 CONNETQUOT RIVER NEAR OAKDALE, N.Y.

LOCATION.--Lat 40°44'51", long 73°09'03", Suffolk County, on left bank just downstream from bridge on State Highway 27, 1.0 mi (1.6 km) west of Oakdale.

DRAINAGE AREA.--About 24 mi² (62 km²).

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

GAGE.--Base gage (01306499): Water-stage recorder and wooden stoplog control. Datum of gage is 1.56 ft (0.475 m) above mean sea level.

Supplementary gage (01306495): Water-stage recorder with concrete control on left bank of secondary channel 0.25 mi (0.40 km) northeast of base gage at datum 4.74 ft (1.445 m) above mean sea level. Prior to Aug. 10, 1965, at datum 1.0 ft (0.30 m) higher.

AVERAGE DISCHARGE.--30 years, 37.7 ft³/s (1.068 m³/s).

EXTREMES.--Current year: Maximum daily discharge, 89 ft³/s (2.52 m³/s) Oct. 7; minimum daily, 25 ft³/s (0.71 m³/s) Oct. 4.

Period of record: Maximum daily discharge, 263 ft³/s (7.45 m³/s) Oct. 16, 1955; minimum daily, 16 ft³/s (0.45 m³/s) Oct. 13, 1966.

REMARKS.--Records fair. Flow at both gages occasionally regulated by cleaning operations at outlets of ponds above stations. Discharge figures given are those of combined flows in main and secondary channels. Water quality records for flows in the main channel (01306499) and the secondary channel (01306495) for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	33	47	50	47	47	64	56	53	60	44	38
2	26	34	43	47	65	46	79	54	53	53	47	39
3	26	34	41	46	85	45	67	55	52	52	48	37
4	25	32	41	51	65	53	68	59	52	50	47	37
5	26	34	41	50	60	51	77	54	52	60	45	39
6	26	32	50	46	57	47	64	52	50	65	44	39
7	89	34	56	45	58	47	60	52	50	55	43	38
8	67	44	50	44	57	51	68	52	49	50	43	37
9	45	55	54	44	57	52	67	63	48	48	43	37
10	38	46	51	44	53	49	66	61	48	48	42	36
11	36	45	50	42	53	48	64	58	47	52	42	38
12	36	41	49	41	53	49	60	60	47	56	43	38
13	34	39	49	41	52	48	59	57	49	49	44	37
14	34	53	47	41	50	47	57	55	48	47	44	38
15	34	57	49	41	58	48	57	55	46	52	42	49
16	32	48	54	42	55	48	55	55	48	56	43	44
17	32	44	49	41	52	68	55	54	48	49	42	41
18	32	42	46	41	49	67	54	55	48	47	42	41
19	34	41	46	43	50	55	53	53	48	47	42	41
20	35	69	46	45	49	54	52	53	47	47	42	41
21	33	55	47	41	49	52	52	57	48	60	42	39
22	32	50	59	41	51	53	52	55	54	59	42	40
23	32	47	58	45	49	57	52	58	64	52	44	39
24	32	46	56	43	48	55	54	68	54	50	43	38
25	32	44	51	40	46	50	52	62	50	48	41	38
26	31	54	50	40	46	72	66	59	50	47	41	38
27	30	51	52	43	47	64	70	58	50	48	41	38
28	32	45	49	55	47	58	65	60	51	47	41	36
29	36	44	46	60	-----	56	60	61	51	46	41	40
30	34	43	45	55	-----	53	56	57	64	45	39	38
31	33	-----	46	50	-----	53	-----	55	-----	45	39	-----
TOTAL	1,091	1,336	1,518	1,398	1,508	1,643	1,825	1,763	1,519	1,590	1,326	1,166
MEAN	35.2	44.5	49.0	45.1	53.9	53.0	60.8	56.9	50.6	51.3	42.8	39.6
MAX	89	69	59	60	85	72	79	68	64	65	48	44
MIN	25	32	41	40	46	45	52	52	46	45	39	36

CAL YR 1972 TOTAL 13,386 MEAN 36.6 MAX 89 MIN 25
WTR YR 1973 TOTAL 17,686 MEAN 48.5 MAX 89 MIN 25

01307500 PENATAQUIT CREEK AT BAY SHORE, N.Y.

LOCATION.--Lat 40°43'37", long 73°14'41", Suffolk County, on right bank just upstream from Union Avenue in Bay Shore, 4,500 ft (1,372 m) upstream from mouth.

DRAINAGE AREA.--About 5 mi² (13 km²).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6.64 ft (2.024 m) above mean sea level.

AVERAGE DISCHARGE.--28 years, 6.26 ft³/s (0.177 m³/s).

EXTREMES.--Current year: Maximum discharge, 71 ft³/s (2.01 m³/s) Oct. 7 (gage height, 2.01 ft (0.613 m)); minimum, 3.5 ft³/s (0.099 m³/s) Oct. 1-6 (gage height, 0.36 ft (0.110 m)).

Period of record: Maximum discharge, 71 ft³/s (2.01 m³/s) Oct. 7, 1972 (gage height, 2.01 ft (0.613 m)); maximum gage height, 2.31 ft (0.704 m) Oct. 16, 1955 (from floodmarks), Sept. 13, 1971 (backwater from debris); minimum discharge, 1.5 ft³/s (0.042 m³/s) Nov. 10, 1949 (gage height, 0.22 ft (0.067 m)), result of temporary construction at culvert upstream.

REMARKS.--Records fair. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1141: Drainage area. WSP 1702: 1955(M), 1956, 1959(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	4.6	8.4	9.6	9.1	7.3	20	9.4	9.1	7.9	7.3	6.5
2	3.5	7.0	6.8	7.3	25	7.3	16	9.4	8.5	7.6	7.3	6.5
3	3.5	5.4	6.7	6.8	14	7.4	12	11	7.9	7.3	8.2	6.5
4	3.5	4.8	6.8	12	11	12	19	10	7.6	7.0	7.3	6.5
5	3.7	4.8	6.8	8.2	11	7.6	14	9.1	7.0	17	6.8	6.5
6	3.7	4.8	13	7.6	11	7.3	11	8.8	6.8	9.7	6.8	6.5
7	40	4.8	8.2	7.3	12	7.3	11	8.8	6.8	8.2	6.5	6.5
8	8.5	18	10	7.0	12	12	18	9.4	6.8	7.6	6.2	6.5
9	6.5	11	11	7.0	11	7.9	12	17	9.1	7.3	6.2	6.2
10	5.7	6.2	9.1	7.0	10	7.3	16	11	7.9	7.6	6.2	6.2
11	5.4	5.9	7.9	6.8	9.7	7.0	12	11	7.0	12	6.2	6.2
12	5.4	6.5	7.9	6.8	9.7	8.5	11	11	7.0	11	9.7	6.2
13	4.8	6.2	7.9	6.8	9.7	7.3	11	10	8.5	7.6	8.8	6.2
14	4.6	17	7.0	6.5	9.7	7.3	10	9.7	7.0	7.6	7.9	10
15	4.6	8.8	12	6.8	12	7.3	10	10	6.8	14	7.9	12
16	4.3	7.3	9.8	6.8	9.0	7.3	10	10	7.9	8.8	7.3	7.9
17	4.3	6.8	7.9	6.8	8.4	24	9.4	9.7	7.0	7.9	7.0	7.6
18	4.1	6.8	7.9	6.8	8.2	10	9.4	13	6.8	7.6	7.0	8.5
19	8.8	6.8	7.9	7.3	8.2	8.8	9.4	9.7	6.8	7.3	7.0	7.6
20	4.8	19	8.5	7.9	8.2	8.8	9.4	10	7.0	7.6	6.8	7.3
21	4.6	8.1	7.9	6.8	8.2	8.5	9.1	10	7.3	14	7.3	7.0
22	4.6	7.4	16	7.9	8.9	8.5	9.4	9.4	17	9.1	7.9	7.0
23	4.6	7.1	12	7.9	8.0	8.2	11	14	11	7.9	7.0	7.3
24	4.6	6.9	8.8	7.0	7.8	8.2	10	12	7.9	7.6	7.0	7.3
25	4.6	6.8	7.9	6.8	7.6	8.2	9.4	10	7.3	7.9	7.3	7.3
26	4.6	13	7.6	6.8	7.6	24	21	9.7	7.3	7.3	7.3	7.0
27	4.3	7.6	8.3	12	7.4	10	14	9.4	9.1	7.6	7.3	7.0
28	8.5	7.0	7.6	11	7.3	8.8	13	14	7.9	7.6	7.3	7.0
29	5.9	6.8	7.3	18	-----	8.8	11	10	7.6	7.3	6.8	7.3
30	5.1	7.5	7.3	10	-----	8.5	9.7	9.7	16	7.3	6.8	6.8
31	4.8	-----	8.5	9.4	-----	8.5	-----	9.4	-----	7.3	6.5	-----
TOTAL	189.4	240.7	270.7	252.7	281.7	289.9	368.2	325.6	247.7	269.5	222.9	214.9
MEAN	6.11	8.02	8.73	8.15	10.1	9.35	12.3	10.5	8.26	8.69	7.19	7.16
MAX	40	19	16	18	25	24	21	17	17	17	9.7	12
MIN	3.5	4.6	6.7	6.5	7.3	7.0	9.1	8.8	6.8	7.0	6.2	6.2

CAL YR 1972 TOTAL 2,579.3 MEAN 7.05 MAX 40 MIN 3.5
WTR YR 1973 TOTAL 3,173.9 MEAN 8.70 MAX 40 MIN 3.5

PEAK DISCHARGE (BASE, 40 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-7	1015	2.01	71	3-17	0430	1.45	44
11-20	0330	1.52	47	3-26	0600	1.36	40
2-2	1900	1.46	44	4-4	1800	1.39	40

01308000 SAMPAWAMS CREEK AT BABYLON, N.Y.

LOCATION.--Lat 40°42'15", long 73°18'52", Suffolk County, on left bank at upstream side of John Street Bridge in Babylon, 180 ft (55 m) downstream from Long Island Railroad and 3,000 ft (914 m) upstream from mouth.

DRAINAGE AREA.--About 23 mi² (60 km²).

PERIOD OF RECORD.--October 1944 to current year (monthly means estimated December 1966 to November 1967).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6.36 ft (1.939 m) above mean sea level. October 1944 to December 1966, water-stage recorder at site 100 ft (30 m) east and 0.34 ft (0.104 m) higher.

AVERAGE DISCHARGE.--29 years, 9.38 ft³/s (0.266 m³/s).

EXTREMES.--Current year: Maximum discharge, 75 ft³/s (2.12 m³/s) Oct. 7 (gage height, 2.60 ft (0.792 m)); minimum, 3.8 ft³/s (0.11 m³/s) Sept. 9; minimum gage height, 0.23 ft (0.070 m) Oct. 1, 6.

Period of record: Maximum discharge, 136 ft³/s (3.85 m³/s) Sept. 12, 1960 (gage height, 2.11 ft (0.643 m), datum then in use); maximum gage height 3.28 ft (1.000 m) Feb. 7, 1971; minimum discharge, 1.6 ft³/s (0.045 m³/s) June 28, 1963 (gage height, 0.13 ft (0.040 m), datum then in use).

REMARKS.--Records good. Flow regulated slightly by pumping operations at railroad and occasionally by ponds above station. Indeterminate effect caused by ground-water pumpage for water-supply purposes at Smith Street substation 0.2 mi (0.3 km) northwest of gage. Prior to November 1950, slight diurnal fluctuation caused by power operations. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1141: Drainage area: WSP 1702: 1955(M), 1956(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	5.5	11	14	14	11	22	14	12	14	8.4	4.9
2	5.6	7.0	9.6	13	32	12	20	14	12	12	9.4	4.9
3	5.6	6.0	9.6	13	21	11	15	15	12	12	10	4.6
4	5.6	5.6	9.6	16	17	16	24	15	12	12	8.4	4.9
5	5.6	5.6	9.3	13	16	13	19	14	12	21	7.7	4.9
6	5.6	5.6	15	12	16	12	17	14	12	17	7.4	4.9
7	33	5.6	13	12	17	12	16	13	12	14	7.0	4.6
8	8.2	21	14	12	18	17	22	13	11	13	6.7	4.2
9	7.0	10	15	12	17	13	18	19	14	13	6.7	3.9
10	6.5	7.7	14	12	15	12	22	15	14	13	6.7	4.6
11	6.3	7.4	12	11	15	12	18	15	12	16	6.3	4.6
12	6.3	7.5	13	11	15	14	17	14	11	17	10	4.2
13	6.2	7.0	12	11	14	12	17	13	14	15	7.7	4.2
14	6.0	20	12	11	14	12	17	13	13	14	7.0	6.7
15	6.1	11	15	11	18	12	17	13	11	20	7.0	10
16	6.0	9.9	15	11	14	13	17	13	13	15	6.7	7.0
17	5.8	9.0	13	11	14	28	17	13	12	13	6.7	6.3
18	5.6	8.6	12	11	13	18	18	14	12	11	6.7	6.0
19	8.3	8.9	12	11	13	15	16	13	11	11	6.7	6.0
20	5.9	20	12	11	13	14	16	14	12	12	6.7	5.6
21	5.7	11	12	10	13	14	15	14	11	19	6.3	5.3
22	6.0	10	20	11	13	14	15	13	23	14	7.4	5.3
23	5.9	9.6	17	11	13	13	16	16	18	12	6.7	5.3
24	5.6	9.4	14	11	12	13	16	16	14	11	6.3	5.3
25	5.6	9.2	13	11	12	13	15	14	13	10	6.3	4.9
26	5.6	16	13	11	12	26	24	13	12	10	6.0	4.9
27	5.5	11	14	16	12	16	20	13	13	9.8	5.6	4.9
28	8.0	10	13	16	12	14	18	16	12	9.4	5.6	4.9
29	6.7	9.7	12	28	-----	13	16	14	11	9.4	5.3	4.9
30	5.6	10	13	16	-----	13	15	13	21	9.1	5.3	4.6
31	5.4	-----	14	14	-----	13	-----	13	-----	8.4	5.3	-----
TOTAL	216.4	294.8	403.1	394	425	441	536	437	392	407.1	216.0	157.3
MEAN	6.98	9.83	13.0	12.7	15.2	14.2	17.9	14.1	13.1	13.1	6.97	5.24
MAX	33	21	20	28	32	28	24	19	23	21	10	10
MIN	5.4	5.5	9.3	10	12	11	15	13	11	8.4	5.3	3.9

CAL YR 1972 TOTAL 3,614.8 MEAN 9.88 MAX 33 MIN 4.9
WTR YR 1973 TOTAL 4,319.7 MEAN 11.8 MAX 33 MIN 3.9

PEAK DISCHARGE (BASE, 55 CFS)

DATE	TIME	G. H.	DISCHARGE
10-7	0845	2.60	75
6-22	1715	1.85	56

STREAMS ON LONG ISLAND

01308500 CARLLS RIVER AT BABYLON, N.Y.

LOCATION.--Lat 40°42'31", long 73°19'44", Suffolk County, on left bank in Babylon, 130 ft (40 m) downstream from outlet of Southards Pond and 0.9 mi (1.4 km) upstream from mouth.

DRAINAGE AREA.--About 35 mi² (91 km²).

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 10.63 ft (3.240 m) above mean sea level.

AVERAGE DISCHARGE.--29 years, 25.9 ft³/s (0.733 m³/s).

EXTREMES.--Current year: Maximum discharge, 187 ft³/s (5.30 m³/s) Oct. 7 (gage height 1.95 ft (0.594 m)); minimum, 11 ft³/s (0.31 m³/s) Oct. 4-6 (gage height, 0.48 ft (0.146 m)).

Period of record: Maximum discharge, 193 ft³/s (5.47 m³/s) June 23, 1967 (gage height 1.99 ft (0.607 m)); minimum, 0.05 ft³/s (0.001 m³/s) Sept. 4, 1963, July 6, 1966, Aug. 29, 1972 (result of regulation); minimum gage height, 0.03 ft (0.009 m), July 6, 1966, Aug. 29, 1972 (result of regulation); minimum daily discharge, 4.5 ft³/s (0.13 m³/s) July 6, 1966.

REMARKS.--Records good. Occasional regulation at outlet of Southards Pond. Water quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area. WRD NY 1972: 1947(m), 1952(m), 1954(m), 1958(m), 1960-63(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	16	33	32	33	27	48	36	32	55	20	15
2	12	19	25	28	74	27	66	35	30	41	22	16
3	11	19	24	27	85	27	49	37	29	37	28	16
4	11	15	25	35	49	42	58	40	29	33	25	18
5	11	15	27	32	43	35	82	35	31	39	23	19
6	11	15	31	29	39	31	50	33	29	52	22	17
7	112	15	41	26	43	29	46	31	28	38	19	17
8	65	20	31	25	40	39	60	31	29	34	21	16
9	29	44	45	25	43	35	55	53	29	32	25	16
10	26	32	37	25	37	29	61	44	44	31	20	16
11	22	26	34	25	34	33	52	38	33	30	22	16
12	20	25	30	25	34	33	45	36	29	39	26	15
13	20	23	30	24	33	31	43	33	33	37	32	15
14	19	45	28	24	32	29	41	31	35	32	22	16
15	18	49	32	24	45	29	38	32	27	32	24	33
16	17	31	43	24	37	28	35	34	26	35	24	22
17	17	28	30	24	33	60	40	31	27	32	19	23
18	16	26	29	25	32	48	39	36	27	29	23	22
19	23	25	29	24	32	36	37	32	28	28	22	21
20	22	60	29	26	31	33	35	32	25	27	18	19
21	18	36	28	22	31	32	34	36	22	29	22	18
22	17	29	48	23	31	31	34	33	30	36	21	17
23	17	27	45	29	30	30	34	36	64	32	20	18
24	16	26	41	25	29	29	37	52	40	28	21	18
25	16	26	34	24	28	30	33	39	33	24	23	17
26	16	45	32	25	27	74	66	35	28	23	20	17
27	15	35	33	33	27	53	61	34	29	25	19	17
28	18	29	31	49	27	40	49	43	35	27	19	17
29	25	27	29	70	-----	36	41	41	31	25	18	17
30	18	26	28	47	-----	35	37	36	46	24	18	16
31	16	-----	29	37	-----	35	-----	33	-----	23	15	-----
TOTAL	686	854	1,011	913	1,059	1,106	1,406	1,128	958	1,009	673	540
MEAN	22.1	28.5	32.6	29.5	37.8	35.7	46.9	36.4	31.9	32.5	21.7	18.0
MAX	112	60	48	70	85	74	82	53	64	55	32	33
MIN	11	15	24	22	27	27	33	31	22	23	15	15

CAL YR 1972 TOTAL 9,085.9 MEAN 24.8 MAX 112 MIN 9.3
WTR YR 1973 TOTAL 11,343.0 MEAN 31.1 MAX 112 MIN 11

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, N.Y.

LOCATION.--Lat 40°41'20", long 73°27'19", Nassau County, on left bank 350 ft (107 m) west of Garfield Street at Lake Shore Drive, Massapequa, 0.2 mi (0.3 km) north of Massapequa Park, and 3,000 ft (914 m) upstream from Clark Avenue Bridge and head of Massapequa Pond of Brooklyn water-supply system.

DRAINAGE AREA.--About 38 mi² (98 km²).

PERIOD OF RECORD.--June to October 1903, December 1936 to current year (monthly means estimated December 1959 to February 1961). Published as Massatayun Creek at Massapequa December 1936 to September 1941.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 18.31 ft (5.581 m) above mean sea level, adjustment of 1912. Prior to October 1903, staff gage at different datum. December 1936 to March 1961 at same site at datum 1.0 ft (0.30 m) higher.

AVERAGE DISCHARGE.--36 years (1937-73), 11.3 ft³/s (0.320 m³/s).

EXTREMES.--Current year: Maximum discharge, 370 ft³/s (10.5 m³/s) Oct. 7 (gage height, 2.16 ft (0.658 m)); minimum, 4.3 ft³/s (0.12 m³/s) Oct. 1-6 (gage height, 0.68 ft (0.207 m)).

Period of record: Maximum discharge, 387 ft³/s (11.0 m³/s) July 20, 1961 (gage height, 2.28 ft (0.695 m)); minimum, 0.95 ft³/s (0.027 m³/s) Aug. 4, 1963, Nov. 2, 1965; minimum gage height, 0.32 ft (0.098 m), datum then in use, Aug. 1, 1954.

REMARKS.--Records good. Discharge during much of the year was significantly supplemented by dewatering activities connected with sewer construction throughout the basin. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area. WRD NY, 1970: 1966-69(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	6.3	23	14	23	22	46	23	20	20	14	8.6
2	4.3	9.0	17	13	55	20	40	24	20	18	16	9.0
3	4.3	7.2	16	12	32	20	30	29	19	18	18	11
4	4.3	6.7	16	22	29	32	64	25	19	19	16	12
5	4.3	6.3	16	14	28	20	37	22	19	30	16	12
6	4.3	6.3	27	13	28	19	31	21	19	19	15	12
7	164	6.3	20	12	30	20	25	21	18	18	15	13
8	20	59	23	13	29	26	44	22	16	18	15	12
9	12	32	27	14	26	21	29	38	20	16	14	12
10	9.5	16	22	15	23	16	40	24	19	15	12	12
11	8.6	15	20	16	23	16	29	24	16	28	12	12
12	8.1	15	20	16	23	20	29	23	15	20	12	12
13	8.1	14	19	16	23	18	26	22	19	16	12	12
14	7.2	47	17	16	24	20	24	22	14	15	11	18
15	7.2	20	26	16	39	20	23	23	13	24	13	20
16	6.7	16	24	16	26	20	24	23	14	16	12	11
17	6.7	16	19	16	23	36	23	22	12	16	10	11
18	6.3	15	17	18	23	20	25	24	14	15	9.5	30
19	11	15	17	20	22	20	24	22	15	13	9.0	12
20	7.7	49	17	20	22	21	24	24	14	14	9.0	11
21	7.2	18	17	19	23	22	23	24	14	28	9.0	9.0
22	6.7	16	34	21	23	21	23	20	46	18	11	8.1
23	6.7	15	20	23	20	20	25	29	21	16	10	8.1
24	6.7	14	16	19	19	20	26	26	17	16	11	8.1
25	6.3	14	14	20	19	21	22	22	16	16	9.5	7.2
26	6.3	32	13	20	20	73	56	16	15	17	9.5	6.7
27	5.8	18	14	36	22	28	35	16	21	18	12	6.7
28	13	20	13	30	22	26	26	33	17	16	13	6.7
29	9.6	18	12	49	-----	25	22	24	18	16	12	7.2
30	7.2	19	12	28	-----	20	23	22	46	15	12	6.3
31	6.3	-----	14	24	-----	25	-----	21	-----	14	11	-----
TOTAL	391.0	561.1	582	601	719	734	918	731	566	558	380.5	336.7
MEAN	12.6	18.7	18.8	19.4	25.7	23.7	30.6	23.6	18.9	18.0	12.3	11.2
MAX	164	59	34	49	55	73	64	38	46	30	18	30
MIN	4.3	6.3	12	12	19	16	22	16	12	13	9.0	6.3
CAL YR 1972	TOTAL 4,122.4		MEAN 11.3		MAX 164		MIN 4.3					
WTR YR 1973	TOTAL 7,078.3		MEAN 19.4		MAX 164		MIN 4.3					

PEAK DISCHARGE (BASE, 110 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-7	1100	2.16	370	3-26	0700	1.83	217
11-8	2000	1.68	163	4-4	1800	1.79	201
11-14	1500	1.60	137	6-22	1800	1.68	163
11-20	0500	1.64	150	6-30	0715	1.57	129
2-2	1800	1.58	131				

STREAMS ON LONG ISLAND

01310000 BELLMORE CREEK AT BELLMORE, N.Y.

LOCATION.--Lat 40°40'43", long 73°30'58", Nassau County, on right bank 40 ft (12 m) east of intersection of Valentine Place and Mill Road, in Bellmore, 0.5 mi (0.8 km) north of Sunrise Highway, and 0.5 mi (0.8 km) northwest of Wantagh.

DRAINAGE AREA.--About 17 mi² (44 km²).

PERIOD OF RECORD.--June to October 1883 (fragmentary), July to October 1903, published in Professional Paper 44, September 1937 to current year. Prior to October 1957, published as Wantagh Stream at Wantagh. October 1957 to October 1967, published as Wantagh Stream at Bellmore.

GAGE.--Base gage (01309950): Water-stage recorder. Datum of gage is 15.00 ft (4.572 m) above mean sea level, adjustment of 1912. June to October 1883, determination of flow by various methods at different site and datum. July to October 1903, nonrecording gages on two channels near present site at different datum. Sept. 23, 1937, to Aug. 1, 1958, water-stage recorder with concrete control on right bank of present secondary channel about 1,000 ft (305 m) east at datum 1.88 ft (0.573 m) higher (used as supplementary gage since Aug. 1, 1958).

Auxiliary gage: Since Aug. 1, 1958, water-stage recorder on right bank of main channel 500 ft (152 m) upstream at datum 15.00 ft (4.572 m) above mean sea level.

Supplementary gage (01309990): Water-stage recorder with concrete control on right bank of secondary channel about 1,000 ft (305 m) east of base gage at datum 16.88 ft (5.145 m) above mean sea level. Prior to July 28, 1965, at datum 2.00 ft (0.610 m) higher. From July 28, 1965 to Oct. 6, 1965, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--36 years (1937-73), 10.5 ft³/s (0.297 m³/s).

EXTREMES.--Current year: Maximum daily discharge, 143 ft³/s (4.05 m³/s) Oct. 7; minimum daily, 3.4 ft³/s (0.096 m³/s) Sept. 13. 1903 and since 1937: Maximum daily discharge, 162 ft³/s (4.59 m³/s) Sept. 12, 1960; maximum discharge prior to beginning of diversion in November 1955, 340 ft³/s (9.63 m³/s) June 1, 1952 (adjusted to include flow bypassing station); maximum gage height, 4.57 ft (1.393 m) June 1, 1952; minimum daily discharge, 1.1 ft³/s (0.031 m³/s) Feb. 6-9, 1966.

REMARKS.--Records fair. Prior to Nov. 4, 1955, flow at all stages regulated intermittently at outlet of Wantagh Reservoir, 1.0 mi (1.6 km) above station, and prior to November 1953 by Browning Pond, 0.5 mi (0.8 km) above station. Subsequent to Nov. 3, 1955, permanent diversion of a substantial portion of the flow through west branch of Bellmore Creek. Discharge figures given are those of combined flows in main and secondary channels. Water quality records for flows in the main channel (01309950) and the secondary channel (01309990) for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	7.4	18	18	15	14	33	17	15	20	9.9	4.9
2	4.8	12	14	16	43	14	29	16	14	17	11	4.9
3	4.8	9.0	13	15	22	14	21	20	13	16	11	4.4
4	4.8	8.1	13	24	18	23	47	17	14	16	10	4.4
5	4.9	7.9	13	16	18	14	22	16	14	19	9.7	4.4
6	5.4	7.4	24	15	18	14	20	15	13	15	9.1	4.4
7	143	8.3	16	14	21	14	20	15	13	14	9.1	4.0
8	15	58	21	14	22	18	31	15	12	14	8.5	3.9
9	10	18	21	14	19	14	21	28	17	13	8.4	3.9
10	8.3	13	18	13	17	14	29	16	16	13	8.4	3.5
11	8.3	12	16	14	17	14	19	16	14	25	8.2	3.9
12	9.3	12	16	13	17	16	18	15	12	16	8.1	3.9
13	8.7	11	16	13	16	14	17	15	16	13	8.1	3.4
14	8.6	39	16	13	16	14	16	14	13	12	7.6	9.2
15	8.5	16	25	14	27	14	16	15	12	21	8.1	16
16	8.3	14	21	13	17	14	16	15	13	13	8.6	6.2
17	8.3	14	16	13	16	30	16	14	12	12	8.0	5.5
18	7.7	13	16	14	16	18	16	14	11	12	7.9	20
19	14	13	16	14	15	16	16	13	11	12	7.5	7.4
20	9.8	43	16	14	15	16	15	16	11	11	7.5	6.3
21	8.3	16	16	13	16	16	16	16	13	25	6.9	5.6
22	8.1	14	30	16	16	16	16	14	32	15	8.2	6.0
23	7.8	14	21	16	15	15	20	25	12	13	7.7	6.3
24	7.8	14	18	12	14	14	17	19	9.7	12	7.1	6.0
25	7.4	14	16	12	14	15	16	16	9.1	12	7.1	5.5
26	7.2	27	16	11	15	58	41	16	8.8	12	6.7	5.5
27	7.4	15	17	27	14	20	23	16	12	12	6.7	5.6
28	15	14	16	19	14	17	19	26	13	12	6.6	5.6
29	11	13	15	32	-----	17	18	16	44	11	6.0	8.7
30	7.9	15	16	16	-----	18	17	14	55	10	5.6	5.9
31	7.4	-----	18	15	-----	17	-----	14	-----	9.9	5.5	-----
TOTAL	393.1	492.1	544	483	503	542	641	514	474.6	447.9	248.8	185.2
MEAN	12.7	16.4	17.5	15.6	18.0	17.5	21.4	16.6	15.8	14.4	8.03	6.17
MAX	143	58	30	32	43	58	47	28	55	25	11	20
MIN	4.8	7.4	13	11	14	14	15	13	8.8	9.9	5.5	3.4

CAL YR 1972 TOTAL 4,782.4 MEAN 13.1 MAX 143 MIN 2.8
WTR YR 1973 TOTAL 5,468.7 MEAN 15.0 MAX 143 MIN 3.4

01310500 EAST MEADOW BROOK AT FREEPORT, N.Y.

LOCATION.--Lat 40°39'56", long 73°34'13", Nassau County, on right bank in Freeport, 24 ft (7 m) upstream from bridge on Hempstead-Babylon Turnpike and 400 ft (122 m) west of Meadowbrook Parkway.

DRAINAGE AREA.--About 31 mi² (80 km²).

PERIOD OF RECORD.--October 1851 to December 1852, June to October 1883, September and October 1885 (fragmentary), June to October 1903, published in Professional Paper 44, January 1937 to current year (monthly means estimated November 1962 to December 1963).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 10.48 ft (3.194 m) above mean sea level, adjustment of 1912. Prior to October 1885, determinations of flow by various methods at different site and datum. June to October 1903, weir in swamp at head of Brooklyn waterworks supply pond. January 1937 to November 1962, water-stage recorder and concrete control at site 81 ft (25 m) east and at datum 0.44 ft (0.134 m) higher.

AVERAGE DISCHARGE.--36 years (1937-73), 15.1 ft³/s (0.428 m³/s).

EXTREMES.--Current year: Maximum discharge, 590 ft³/s (16.7 m³/s) Oct. 7 (gage height, 3.10 ft (0.945 m)); minimum, 1.7 ft³/s (0.048 m³/s) Oct. 4, 5 (gage height, 0.20 ft (0.061 m)).

1903 and since 1937: Maximum discharge, 835 ft³/s (23.6 m³/s) Sept. 12, 1960 (gage height, 4.38 ft (1.335 m), datum then in use) from rating curve extended above 280 ft³/s (7.93 m³/s) on basis of flow-through-culvert and contracted-opening measurement of peak flow; no flow Aug. 26, 1971.

REMARKS.--Records good except those above 90 ft³/s (2.55 m³/s) during May to September, which are fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD NY 1972: 1967-71(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	3.6	22	15	12	10	48	15	14	20	8.2	3.6
2	1.9	12	9.8	10	80	9.8	51	15	14	16	8.7	3.6
3	1.9	6.0	9.3	9.3	27	10	19	20	13	14	8.7	5.2
4	1.9	4.8	8.2	28	16	33	79	19	14	14	8.2	4.4
5	1.9	4.0	8.7	12	14	12	29	15	16	46	7.7	3.6
6	1.9	3.6	30	10	13	11	19	14	13	15	7.3	3.3
7	206	3.6	15	9.8	19	10	17	13	12	13	6.8	3.3
8	21	113	20	9.3	19	21	47	13	11	12	7.3	2.9
9	9.8	35	30	9.8	18	12	20	52	24	12	6.8	2.6
10	7.3	12	15	9.3	13	11	35	18	16	11	6.0	2.6
11	6.4	9.3	12	9.3	13	11	19	18	11	34	6.4	2.6
12	6.0	9.3	10	9.8	12	15	18	14	11	17	6.4	2.4
13	6.0	7.7	11	9.8	12	11	17	14	40	12	6.0	2.4
14	5.2	78	9.3	9.8	12	10	16	13	15	11	5.6	10
15	4.8	18	25	9.8	34	11	16	14	12	43	6.4	31
16	4.4	11	21	9.8	14	10	16	18	13	14	7.3	6.0
17	4.4	9.3	11	9.8	12	45	16	14	11	11	6.0	4.8
18	4.0	8.7	10	9.8	12	15	15	17	10	10	6.0	21
19	14	8.2	9.8	11	12	12	15	14	10	9.8	5.6	7.3
20	6.4	69	10	14	11	11	15	23	10	9.8	7.7	6.0
21	4.8	13	9.8	9.8	12	11	14	20	12	34	5.2	5.2
22	4.4	10	44	14	13	11	14	16	63	14	8.2	5.6
23	4.4	9.3	21	24	11	10	18	35	19	10	6.0	6.0
24	4.0	8.7	14	11	11	9.9	18	22	13	9.8	5.6	5.2
25	4.0	8.7	12	9.8	10	9.9	14	17	12	9.8	5.2	4.8
26	3.6	46	11	9.3	11	99	84	15	12	11	4.8	4.8
27	3.6	12	14	33	10	18	38	14	12	9.8	4.8	4.8
28	15	9.8	10	26	10	14	22	40	19	9.3	4.8	4.8
29	10	9.3	9.8	56	-----	14	17	18	40	9.3	4.4	8.7
30	4.8	9.8	9.8	16	-----	13	16	15	107	8.7	4.0	5.2
31	4.0	-----	12	12	-----	13	-----	14	-----	8.2	3.6	-----
TOTAL	379.9	562.7	464.5	446.3	463	513.6	782	579	599	478.5	195.7	183.7
MEAN	12.3	18.8	15.0	14.4	16.5	16.6	26.1	18.7	20.0	15.4	6.31	6.12
MAX	206	113	44	56	80	99	84	52	107	46	8.7	31
MIN	1.9	3.6	8.2	9.3	10	9.8	14	13	10	8.2	3.6	2.4

CAL YR 1972 TOTAL 3,734.8 MEAN 10.2 MAX 206 MIN 1.4
WTR YR 1973 TOTAL 5,647.9 MEAN 15.5 MAX 206 MIN 1.9

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-7	1200	3.10	590	2-2	1900	1.95	265
11-8	1930	2.38	377	3-26	0730	2.28	350
11-14	1530	1.90	253	4-4	1830	2.14	312
11-20	0600	1.92	258	6-30	0630	1.99	282

01311000 PINES BROOK AT MALVERNE, N.Y.

LOCATION.--Lat 40°39'59", long 73°39'35", Nassau County, on left bank 300 ft (91 m) downstream from Lakeview Avenue and southern boundary of Malverne.

DRAINAGE AREA.--About 10 mi² (26 km²).

PERIOD OF RECORD.--1851-52, 1856-57, 1885, 1894 (fragmentary in Professional Paper 44); December 1936 to current year (monthly discharge only March to September 1970).

GAGE.--Water-stage recorder, with steel plate V-notch weir and concrete controls. Datum of gage is 7.11 ft (2.167 m) above mean sea level, adjustment of 1912 (Nassau County bench mark). Prior to 1894, determinations of flow by various methods, at different sites and datums. December 1936 to Oct. 1, 1970, at site 200 ft (61 m) upstream and at datum 2.31 ft (0.704 m) higher. Oct. 1, 1970 to May 31, 1972 supplementary gage on secondary channel 10 ft (3 m) downstream at same datum.

AVERAGE DISCHARGE.--36 years (1937-73), 4.24 ft³/s (0.120 m³/s).

EXTREMES.--Current year: Maximum discharge, 228 ft³/s (6.46 m³/s) Mar. 26; Maximum gage height, 4.01 ft (1.222 m) Oct. 7, Mar. 26; no flow for all or part of many days during year.

Since 1936: Maximum discharge, 346 ft³/s (9.80 m³/s) Sept. 12, 1960 (gage height, 4.51 ft (1.375 m)) from rating extended above 95 ft³/s (2.69 m³/s) on basis of flow-through-culvert measurement of peak flow; no flow part of Sept. 12, 1963, and at times each year since 1964.

REMARKS.--Records fair prior to January and poor thereafter. Prior to Feb. 20, 1956, flow occasionally regulated by Pines Pond. Indeterminate diversion from Pines Pond for emergency municipal water supply for City of New York August 1953 to September 1954. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1432: 1937, 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	13	1.4	.90	.77	17	1.2	1.2	1.7	.19	0
2	0	.77	.42	.64	30	.77	12	1.2	.97	1.3	.21	0
3	0	.03	.38	.55	2.0	.77	1.7	3.5	.84	1.2	.20	0
4	0	.01	.34	7.6	1.1	13	27	1.8	1.7	1.1	.18	0
5	0	.02	.30	.77	1.0	1.0	3.1	1.2	1.6	12	.16	0
6	.02	0	10	.64	.97	.90	2.0	1.1	.90	.97	.14	0
7	29	0	1.0	.60	2.1	.84	1.8	1.1	.90	.64	.12	0
8	.47	9.3	7.4	.64	3.5	4.0	15	1.6	.77	.60	.10	0
9	.01	3.7	5.7	.64	1.8	1.2	2.2	18	12	.51	.09	0
10	0	.34	1.2	.64	.97	1.2	13	1.7	3.5	.51	.08	0
11	0	.30	.51	.64	.97	1.2	1.9	1.9	.84	14	.10	0
12	0	.21	.47	.60	.97	2.7	1.8	1.2	.77	1.2	.07	0
13	0	.16	.47	.60	.97	1.2	1.8	1.0	15	.60	.06	0
14	0	31	.38	.60	.97	1.3	1.6	.97	2.0	.51	.05	4.4
15	0	1.0	9.7	.64	12	1.7	1.6	1.2	.60	12	.12	5.4
16	0	.30	3.1	.60	1.1	1.7	1.6	1.9	.77	.71	.08	.01
17	0	.21	.47	.60	1.0	18	1.5	1.1	.55	.51	.06	0
18	.01	.18	.42	.55	.77	1.1	1.5	3.2	.55	.42	.05	12
19	.97	.25	.42	.84	.77	.90	1.3	.97	.51	.42	.05	.05
20	.02	24	.47	1.0	.84	.77	1.2	1.7	.55	.42	.04	0
21	0	.47	.55	.60	.97	.77	1.2	2.8	2.4	7.1	.04	0
22	0	.34	14	4.2	1.0	.77	1.2	1.1	33	.71	.12	0
23	0	.30	3.7	6.7	.90	.77	4.9	11	2.4	.42	.04	.01
24	0	.25	.84	1.2	.84	.84	1.7	2.2	.77	.38	.03	0
25	0	.25	.64	1.1	.77	.97	1.2	1.3	.64	.38	.02	0
26	0	19	.64	1.0	.77	42	30	1.0	.60	.55	0	0
27	0	.60	.97	20	.77	1.4	8.9	1.0	.60	.35	0	0
28	5.2	.42	.55	15	.77	1.1	2.1	10	4.9	.30	0	0
29	.21	.42	.51	32	-----	1.1	1.5	1.4	5.2	.26	0	.38
30	.01	1.3	.51	2.3	-----	1.1	1.3	1.2	30	.22	0	0
31	0	-----	.84	1.2	-----	1.1	-----	1.1	-----	.20	0	-----
TOTAL	35.92	95.13	79.90	106.09	71.49	106.94	164.6	81.64	127.03	62.19	2.40	22.25
MEAN	1.16	3.17	2.58	3.42	2.55	3.45	5.49	2.63	4.23	2.01	.077	.74
MAX	29	31	14	32	30	42	30	18	33	14	.21	12
MIN	0	0	.30	.55	.77	.77	1.2	.97	.51	.20	0	0

CAL YR 1972 TOTAL 580.06 MEAN 1.58 MAX 31 MIN 0
WTR YR 1973 TOTAL 955.58 MEAN 2.62 MAX 42 MIN 0

PEAK DISCHARGE (BASE, 125 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-7	0430	4.01	205	4-4	1630	3.78	160
11-8	1600	3.89	170	6-13	1615	3.69	138
11-14	1415	3.78	142	6-22	1630	3.71	142
11-20	0430	3.76	138	6-28	1315	3.97	193
2-2	1745	3.68	136	6-29	1945	3.87	165
3-26	0600	4.01	228	6-30	0545	3.83	155

STREAMS ON LONG ISLAND

49

01311500 VALLEY STREAM AT VALLEY STREAM, N.Y.

LOCATION.--Lat 40°39'49", long 73°42'18", Nassau County, on right bank 40 ft (12 m) upstream from West Valley Stream Boulevard, at Valley Stream.

DRAINAGE AREA.--About 4.5 mi² (12 km²).

PERIOD OF RECORD.--1851-52, 1854, 1856-57, 1885, 1894 (fragmentary in Professional Paper 44), July 1954 to current year. Prior to October 1956, published as Watts Creek at Valley Stream.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 7.49 ft (2.283 m) above mean sea level. Prior to 1894, determinations of flow by various methods, at different sites and datums. July 1954 to July 16, 1964 at same site at datum 1.0 ft (0.30 m) higher.

AVERAGE DISCHARGE.--19 years (1954-73), 3.16 ft³/s (0.0895 m³/s).

EXTREMES.--Current year: Maximum discharge, 139 ft³/s (3.94 m³/s) Nov. 8 (gage height, 3.70 ft (1.128 m)); no flow for all or part of many days during year.

Since 1954: Maximum discharge, 232 ft³/s (6.57 m³/s) Sept. 12, 1960 (gage height, 5.50 ft (1.676 m), from floodmarks); no flow at times each year since 1963.

REMARKS.--Records good except those above 50 ft³/s (1.42 m³/s), which are fair. Flow regulated occasionally by cleaning operations at outlet of Valley Stream Pond above station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD NY 1971: 1962-63(M), 1966-69(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	5.1	.29	.42	.23	6.9	.92	.23	1.5	1.1	0
2	0	0	.42	.29	13	.29	13	.92	.23	.80	1.1	0
3	0	0	.18	.29	4.7	.35	1.7	1.2	.18	.69	1.1	0
4	0	0	.02	3.6	.80	2.8	16	1.4	.42	.69	.80	0
5	0	0	0	1.2	.69	.42	5.7	1.1	.80	9.0	.80	0
6	0	0	3.3	.38	.69	0	1.2	.92	.29	1.4	.80	0
7	47	0	3.6	.25	.92	0	1.1	.92	.23	.50	.80	0
8	1.1	42	1.9	.24	.80	1.1	9.0	.80	.18	.50	.80	0
9	0	9.0	6.5	.23	.69	.50	1.9	10	.80	.50	.69	0
10	0	.18	.42	.20	.42	.29	9.4	1.7	1.4	.42	.69	.50
11	0	0	.13	.21	.35	.35	1.7	.92	.29	19	.80	0
12	0	0	.13	.14	.35	.35	1.1	.69	.18	5.4	.69	0
13	0	0	.18	.16	.42	.35	.92	.42	5.4	1.9	.69	0
14	0	20	.18	.19	.50	.35	.92	.80	1.7	1.7	.69	.23
15	0	3.8	3.0	.16	5.4	.23	.92	1.1	.18	12	.80	.23
16	0	.18	4.4	.10	1.1	.35	.80	.69	.09	2.5	.69	0
17	0	0	.42	.13	.42	5.1	.92	.50	.02	1.5	.59	0
18	0	0	.23	.11	.35	.92	.92	.80	0	1.4	.59	7.7
19	0	0	.23	.12	.35	.42	1.1	.50	0	1.4	.42	2.1
20	0	14	.29	.05	.35	.02	1.2	.80	.04	1.4	.50	.35
21	0	.92	.29	0	.35	0	.92	.92	.50	5.7	.42	0
22	0	.09	5.7	.06	.42	0	.80	.50	9.9	2.8	.35	0
23	0	0	2.5	.16	.35	0	1.2	4.4	3.3	1.5	.09	0
24	0	0	1.1	.01	.23	.29	.92	3.0	.42	1.4	0	0
25	0	0	.35	0	.18	.92	1.1	.69	.29	1.4	0	0
26	0	11	.29	0	.35	21	24	.35	.23	1.4	0	0
27	0	1.2	.35	3.3	.29	1.9	5.4	.29	.18	1.4	0	0
28	0	.23	.23	5.1	.18	1.2	2.8	6.5	9.9	1.2	0	0
29	0	.09	.23	12	-----	.80	1.2	1.4	24	1.1	0	0
30	0	.13	.23	1.9	-----	.50	.92	.50	21	1.1	0	0
31	0	-----	.35	.50	-----	.42	-----	.35	-----	.92	0	-----
TOTAL	48.1	102.82	42.25	31.37	35.07	41.45	115.66	46.00	82.38	84.12	16.00	11.11
MEAN	1.55	3.43	1.36	1.01	1.25	1.34	3.86	1.48	2.75	2.71	.52	.37
MAX	47	42	6.5	12	13	21	24	10	24	19	1.1	7.7
MIN	0	0	0	0	.18	0	.80	.29	0	.42	0	0

CAL YR 1972 TOTAL 378.95 MEAN 1.04 MAX 47 MIN 0
WTR YR 1973 TOTAL 656.33 MEAN 1.80 MAX 47 MIN 0

HUDSON RIVER BASIN

01312000 HUDSON RIVER NEAR NEWCOMB, N.Y.

LOCATION.--Lat 43°58'00", long 74°07'55", Essex County, 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.

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.

AVERAGE DISCHARGE.--48 years, 387 ft³/s (10.96 m³/s) (27.37 in/yr (695.2 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 3,560 ft³/s (101 m³/s) Mar. 19 (gage height, 7.39 ft (2.252 m)); minimum, 48 ft³/s (1.36 m³/s) Sept. 5 (gage height, 1.33 ft (0.405 m)).

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.

REMARKS.--Records fair. Flow slightly regulated by small reservoirs above station.

REVISIONS (WATER YEARS).--WSP 696: 1928(M). WSP 711: 1930(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	533	381	340	303	107	1,100	619	572	1,260	155	54
2	223	381	329	1,050	275	105	2,190	528	495	1,060	149	55
3	175	447	292	1,110	372	103	2,710	677	424	651	213	54
4	138	619	250	844	856	111	2,210	979	368	504	282	52
5	113	588	223	635	949	138	1,790	868	352	480	250	50
6	96	485	236	485	744	175	1,480	500	329	411	204	65
7	103	385	514	385	572	198	1,190	460	337	303	170	115
8	193	364	838	348	466	285	991	430	344	230	146	127
9	257	1,320	721	285	398	733	832	500	318	182	127	107
10	201	1,970	619	250	340	1,100	733	540	275	155	115	91
11	155	1,510	504	230	292	1,020	661	900	226	140	138	81
12	129	1,070	389	217	257	943	557	1,200	204	127	193	72
13	119	784	364	201	217	1,390	476	1,000	261	111	188	64
14	115	608	398	185	201	1,670	411	800	296	135	163	62
15	121	495	407	175	190	1,450	372	700	253	175	142	80
16	140	394	381	165	190	1,220	381	640	213	217	125	109
17	140	314	329	153	180	1,520	523	580	220	261	113	111
18	133	275	292	146	170	2,890	949	1,500	223	207	103	165
19	127	233	264	153	160	3,300	1,280	2,500	196	165	98	530
20	111	217	236	198	150	2,360	1,500	2,000	167	140	105	502
21	98	196	213	271	151	1,530	1,470	1,900	182	123	98	360
22	89	165	207	300	144	1,110	1,450	1,700	651	113	89	281
23	91	146	193	447	138	796	1,790	1,500	721	102	83	336
24	121	140	180	873	133	645	1,870	1,360	533	91	75	418
25	207	131	170	967	125	548	1,400	985	438	83	69	363
26	233	160	165	808	119	523	961	755	356	81	65	296
27	201	415	150	619	113	603	733	598	278	87	65	245
28	172	593	140	490	111	645	651	523	220	109	68	213
29	314	538	130	424	-----	645	879	656	201	146	65	189
30	856	424	125	376	-----	635	850	826	588	182	60	166
31	814	-----	140	337	-----	705	-----	705	-----	175	56	-----
TOTAL	6,160	15,900	9,780	13,467	8,316	29,203	34,390	29,429	10,241	8,206	3,972	5,413
MEAN	199	530	315	434	297	942	1,146	949	341	265	128	180
MAX	856	1,970	838	1,110	949	3,300	2,710	2,500	721	1,260	282	530
MIN	89	131	125	146	111	103	372	430	167	81	56	50
CFSM	1.04	2.76	1.64	2.26	1.55	4.91	5.97	4.94	1.78	1.38	.67	.94
IN.	1.19	3.08	1.89	2.61	1.61	5.66	6.66	5.70	1.98	1.59	.77	1.05

CAL YR 1972 TOTAL 189,190 MEAN 517 MAX 5,170 MIN 59 CFSM 2.69 IN 36.66
WTR YR 1973 TOTAL 174,477 MEAN 478 MAX 3,300 MIN 50 CFSM 2.49 IN 33.80

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-19	0200	7.39	3,560	5-19	Unknown	Unknown	About 2,800
4-03	0900	6.37	2,790				

01314500 INDIAN LAKE NEAR INDIAN LAKE, N.Y.

LOCATION.--Lat 43°45'20", long 74°16'35", Hamilton County, 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 1,617.95 ft (493.151 m) above mean sea level, adjustment of 1912.

EXTREMES.--Current year: Maximum gage height observed, 35.3 ft (10.76 m) May 20 (contents, 5,050 mil ft³ (143 hm³)); minimum observed, 13.0 ft (3.96 m) Mar. 6 (contents, 1,367 mil ft³ (38.7 hm³)).

Period of record: Maximum gage height observed, 38.8 ft (11.83 m) Mar. 28, 1913 (contents, 5,781 mil ft³ (164 hm³)); minimum, -1.10 ft (-0.335 m), estimated, Feb. 13, 1948 (contents, 199 mil ft³ (5.64 hm³)).

REMARKS.--Reservoir is formed by masonry dam, completed in 1898. Usable capacity, about 4,500 mil ft³ (127 hm³) at gage height 33.38 ft (10.174 m) (crest of spillway). Sills of double sluice gates at lowest outlet at gage height -2.41 ft (-0.735 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.

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

13.0	1.367	25.0	3.206
14.5	1.580	30.0	4.053
20.0	2.403	35.5	5.091

GAGE HEIGHT, IN FEET, AT 0630, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.90	28.10	28.40	22.50	17.40	13.40	25.90	33.30	34.50	33.40	30.80	27.50
2	28.80	28.10	28.20	22.70	17.20	13.30	27.00	33.40	34.40	33.50	30.80	27.30
3	28.80	28.20	28.00	22.90	17.40	13.20	28.50	33.60	34.30	33.50	30.80	27.20
4	28.70	28.40	27.80	23.00	17.60	13.20	29.30	33.70	34.30	33.40	30.70	27.20
5	28.60	28.60	27.80	23.10	17.70	13.10	30.00	33.70	34.20	33.40	30.60	27.10
6	28.60	28.80	27.50	22.70	17.60	13.00	30.50	33.60	34.20	33.30	30.50	27.20
7	28.50	28.80	27.60	22.50	17.60	13.20	30.70	33.70	34.20	33.30	30.40	27.20
8	28.60	28.90	27.60	22.30	17.40	13.40	30.90	33.80	34.20	33.20	30.30	27.10
9	28.70	29.70	27.60	22.00	17.20	13.80	31.00	33.90	34.20	33.10	30.30	27.10
10	28.60	30.70	27.40	21.70	16.90	14.40	31.20	34.20	34.10	33.00	30.20	27.00
11	28.50	30.70	27.30	21.40	16.70	14.80	31.30	34.20	34.00	32.90	29.90	26.90
12	28.50	30.70	27.10	21.10	16.40	15.30	31.20	34.20	34.00	32.80	29.80	26.80
13	28.40	30.50	27.00	20.90	16.10	16.00	31.20	34.30	33.90	32.70	29.70	26.80
14	28.40	30.30	26.80	20.60	15.90	16.60	31.30	34.30	33.80	32.60	29.60	26.70
15	28.30	30.30	26.60	20.30	15.90	17.20	31.40	34.30	33.70	32.70	29.50	26.60
16	28.20	30.20	26.40	20.00	15.80	17.60	31.60	34.30	33.70	32.60	29.40	26.40
17	28.20	30.10	26.10	19.60	15.70	18.30	31.80	34.30	33.60	32.50	29.30	26.30
18	28.20	30.00	25.80	19.30	15.40	20.50	32.00	34.50	33.50	32.40	29.20	26.30
19	28.10	29.80	25.60	19.10	15.10	21.70	32.30	35.20	33.40	32.30	28.90	26.40
20	28.10	29.70	25.30	18.90	14.90	22.40	32.50	35.30	33.40	32.30	28.80	26.40
21	28.00	29.60	25.00	18.70	14.60	22.80	32.60	35.20	33.30	32.10	28.80	26.40
22	27.90	29.30	24.80	18.60	14.40	23.20	32.80	35.10	33.50	31.90	28.70	26.20
23	27.90	29.10	24.40	18.50	14.20	23.30	32.90	35.00	33.40	31.80	28.60	26.20
24	27.80	28.80	24.20	18.70	14.10	23.50	32.90	34.80	33.20	31.70	28.50	26.20
25	27.80	28.60	23.80	18.70	13.90	23.70	32.90	34.60	33.20	31.60	28.20	26.30
26	27.80	28.50	23.60	18.60	13.80	23.90	32.80	34.50	33.10	31.60	28.00	26.20
27	27.70	28.50	23.30	18.50	13.70	24.20	32.70	34.40	33.10	31.50	28.00	26.20
28	27.70	28.60	23.00	18.40	13.60	24.50	32.80	34.40	33.00	31.30	27.90	26.20
29	27.70	28.60	22.70	18.20	-----	24.80	32.90	34.40	33.10	31.10	27.90	26.00
30	27.90	28.50	22.40	17.90	-----	25.10	33.10	34.50	33.20	31.00	27.80	25.90
31	28.00	-----	22.20	17.60	-----	25.30	-----	34.50	-----	30.90	27.70	-----
MEAN	28.25	29.29	25.85	20.29	15.86	18.67	31.33	34.30	33.72	32.43	29.34	26.64
MAX	28.90	30.70	28.40	23.10	17.70	25.30	33.10	35.30	34.50	33.50	30.80	27.50
MIN	27.70	28.10	22.20	17.60	13.60	13.00	25.90	33.30	33.00	30.90	27.70	25.90
(†)	3.727	3.778	2.783	2.021	1.438	3.323	4.633	4.890	4.653	4.192	3.642	3.340
(*)	-51.2	+19.7	-37.1	-28.4	-24.1	+70.4	+505	+96.0	-91.4	-172	-205	-116

CAL YR 1972 MEAN 27.14 MAX 35.50 MIN 14.50 ± +4.55
WTR YR 1973 MEAN 27.22 MAX 35.30 MIN 13.00 ± -16.6

† Contents, in billions of cubic feet, at 2400 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, N.Y.

LOCATION.--Lat 43°45'30", long 74°16'05', Hamilton County, 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.

AVERAGE DISCHARGE.--59 years (1912-13, 1915-73) 289 ft³/s (8.184 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 1,410 ft³/s (39.9 m³/s) May 19 (gage height, 4.77 ft (1.454 m)); minimum, 13 ft³/s (0.37 m³/s) Apr. 30, May 1 (gage height, 0.55 ft (0.168 m)).

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.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	229	224	676	781	726	338	23	13	457	240	229	505
2	229	227	676	776	726	334	26	15	446	240	228	274
3	227	224	672	781	738	344	20	133	436	237	227	159
4	227	224	668	781	738	344	20	255	422	237	227	159
5	227	227	693	776	742	344	20	344	404	237	226	159
6	227	227	776	772	738	235	112	354	394	235	226	161
7	232	227	776	768	730	148	306	19	397	235	225	158
8	227	232	776	768	726	229	334	24	390	235	227	158
9	224	243	776	776	722	288	432	41	387	235	227	157
10	224	812	772	812	713	15	432	390	374	235	441	157
11	224	1,070	772	803	709	15	432	730	361	235	526	157
12	224	1,060	768	799	701	21	432	537	354	235	333	157
13	224	898	764	790	693	18	246	443	344	235	227	157
14	224	664	759	785	580	16	18	443	334	235	226	398
15	224	523	803	776	429	16	18	432	322	235	224	494
16	224	519	853	772	425	19	101	432	312	235	224	260
17	224	523	848	768	489	34	371	425	306	235	340	159
18	224	519	844	759	600	24	432	857	288	235	457	163
19	224	515	839	759	592	17	600	1,360	237	232	300	159
20	224	553	830	768	584	16	652	1,360	237	354	223	159
21	224	693	826	746	576	16	697	1,330	249	474	199	393
22	224	689	821	746	464	15	812	1,290	425	328	168	494
23	224	685	812	755	367	15	742	1,130	600	232	168	255
24	224	681	808	751	364	16	734	862	367	229	405	157
25	221	681	799	746	361	16	697	726	237	229	510	157
26	221	685	794	746	361	17	526	493	237	229	277	157
27	221	681	785	751	351	16	364	474	237	378	165	157
28	221	676	781	755	341	16	246	464	237	531	168	395
29	224	676	776	738	-----	16	104	474	240	350	165	488
30	224	681	768	742	-----	16	14	486	243	229	164	289
31	224	-----	772	734	-----	17	-----	482	-----	229	401	-----
TOTAL	6,965	16,539	24,083	23,780	16,286	2,991	9,963	16,818	10,274	8,270	8,353	7,252
MEAN	225	551	777	767	582	96.5	332	543	342	267	269	242
MAX	232	1,070	853	812	742	344	812	1,360	600	531	526	505
MIN	221	224	668	734	341	15	14	13	237	229	164	157

CAL YR 1972 TOTAL 154,881.3 MEAN 423 MAX 1,810 MIN 8.0
WTR YR 1973 TOTAL 151,574.0 MEAN 415 MAX 1,360 MIN 13

53

LOCATION.--Lat 43°42'03", long 73°59'02", Warren County, 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.

PERIOD OF RECORD.--September 1907 to current year

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.

AVERAGE DISCHARGE.--66 years, 1,529 ft³/s (43.33 m³/s).

EXTREMES.--Current year: Maximum discharge, 14,700 ft³/s (416 m³/s) Mar. 18 (gage height, 9.37 ft (2.856 m)); minimum, 284 ft³/s (8.04 m³/s) Aug. 26, 27 (gage height, 2.43 ft (0.741 m)); minimum daily, 306 ft³/s (8.67 m³/s) Aug. 27.
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.

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

REVISIONS (WATER YEARS).--WSP 621: Drainage area. WSP 1432: 1908-18, 1920, 1922.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	572	1,730	2,380	3,530	1,870	886	4,070	2,120	2,610	3,520	553	624
2	710	1,490	2,190	4,780	2,030	871	9,430	1,820	2,280	2,840	559	537
3	693	1,830	2,040	4,410	3,360	883	9,960	1,850	1,900	2,050	611	341
4	618	2,260	2,040	3,630	4,220	976	7,250	2,490	1,780	1,670	647	333
5	558	2,240	1,890	3,050	3,880	1,200	6,200	2,600	1,760	1,490	641	331
6	518	1,990	2,080	2,540	3,290	1,330	5,200	2,490	1,660	1,300	583	527
7	627	1,720	3,820	2,030	2,760	1,250	4,330	1,810	1,770	1,110	530	723
8	1,110	1,910	3,890	1,830	2,470	2,020	3,870	1,510	1,760	951	490	683
9	1,160	7,170	3,560	1,770	2,220	3,650	3,480	1,560	1,580	812	456	574
10	1,010	7,740	2,700	1,730	1,990	3,810	3,210	2,080	1,400	681	465	589
11	855	5,920	2,300	1,760	1,820	3,330	3,060	3,640	1,250	667	875	437
12	768	4,690	2,100	1,690	1,730	3,750	2,740	4,070	1,180	623	836	400
13	723	3,680	2,100	1,640	1,680	5,440	2,450	3,460	2,110	580	520	374
14	702	2,990	2,100	1,640	1,590	5,290	1,960	2,920	1,960	659	557	379
15	716	2,650	2,200	1,630	1,350	4,360	1,680	2,530	1,610	742	516	664
16	740	2,270	2,000	1,570	1,250	4,200	1,980	2,470	1,370	768	512	701
17	812	1,940	1,800	1,540	1,200	7,380	3,040	2,260	1,280	775	445	475
18	785	1,810	1,700	1,570	1,300	13,800	3,950	5,520	1,230	738	617	643
19	800	1,640	1,900	1,720	1,440	10,100	4,500	9,140	1,170	656	620	1,060
20	723	1,610	1,980	2,080	1,380	6,730	4,700	7,430	1,060	596	425	1,200
21	661	1,620	1,950	2,160	1,260	4,500	4,400	7,010	967	679	420	1,040
22	602	1,620	1,870	2,180	1,210	3,410	4,440	6,850	2,560	716	391	1,130
23	612	1,580	1,840	3,780	1,150	2,680	4,960	5,880	3,180	565	359	1,340
24	687	1,470	1,770	4,490	1,000	2,330	4,900	4,430	2,680	484	356	1,240
25	766	1,440	1,720	4,040	965	2,140	4,130	3,560	2,170	445	674	1,080
26	856	2,050	1,680	3,450	938	2,290	3,290	2,690	1,610	420	567	898
27	837	3,660	1,660	2,990	904	2,620	2,620	2,330	1,190	454	306	759
28	790	3,570	1,620	2,630	886	2,620	2,470	2,220	1,020	714	384	744
29	950	3,000	1,540	2,380	-----	2,570	2,640	2,710	1,020	905	473	948
30	1,760	2,560	1,530	2,110	-----	2,550	2,580	3,110	2,600	652	423	784
31	2,080	-----	1,760	1,990	-----	2,830	-----	2,890	-----	590	503	-----
TOTAL	25,801	81,850	65,710	78,340	51,143	111,796	123,490	107,450	51,717	29,852	16,314	21,458
MEAN	832	2,728	2,120	2,527	1,827	3,606	4,116	3,466	1,724	963	526	715
MAX	2,080	7,740	3,890	4,780	4,220	13,800	9,960	9,140	3,180	3,520	875	1,340
MIN	518	1,440	1,530	1,540	886	871	1,680	1,510	967	420	306	331
CAL YR 1972	TOTAL 774,129		MEAN 2,115		MAX 19,200		MIN 424					
WTR YR 1973	TOTAL 764,921		MEAN 2,096		MAX 13,800		MIN 306					

HUDSON RIVER BASIN

01318500 HUDSON RIVER AT HADLEY, N.Y.

LOCATION.--Lat 43°19'08", long 73°50'41", Saratoga County, 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.

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

AVERAGE DISCHARGE.--52 years, 2,840 ft³/s (80.43 m³/s).

EXTREMES.--Current year: Maximum discharge, 24,400 ft³/s (691 m³/s) Mar. 18 (gage height, 13.73 ft (4.185 m)); minimum, 555 ft³/s (15.7 m³/s) Aug. 28 (gage height, 1.72 ft (0.524 m)); minimum daily, 652 ft³/s (18.5 m³/s) Sept. 4.
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.

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

REVISIONS (WATER YEARS).--WSP 561: 1921-22. WSP 756: drainage area. WSP 1432: 1931 (m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	905	2,690	5,090	5,520	3,840	1,900	7,100	4,470	5,610	5,740	1,030	883
2	1,020	2,410	4,710	8,030	4,100	1,900	14,900	4,030	5,060	5,180	1,040	1,030
3	1,120	2,720	4,410	7,780	6,600	1,960	16,900	3,940	4,590	4,180	1,110	893
4	1,080	3,190	4,090	6,440	7,780	2,150	13,700	4,490	4,050	3,550	1,200	652
5	1,000	3,470	3,870	6,230	7,640	2,590	13,300	4,820	4,020	3,340	1,230	679
6	935	3,370	4,060	5,120	6,820	2,900	12,000	4,670	3,740	3,060	1,170	970
7	1,050	3,070	5,790	3,840	5,940	2,850	10,600	3,980	3,780	2,730	1,090	1,260
8	1,660	3,180	6,480	3,530	5,480	4,210	9,590	3,450	3,860	2,410	1,010	1,310
9	1,880	10,100	6,190	3,450	5,000	7,050	8,620	3,440	3,780	2,170	943	1,200
10	1,730	12,100	5,620	3,590	4,350	7,360	8,020	3,940	3,530	1,920	878	1,060
11	1,540	9,870	5,090	3,780	3,980	6,810	7,590	5,430	3,250	1,770	971	951
12	1,410	8,380	4,540	3,430	3,500	7,450	6,850	6,770	2,920	1,660	1,460	874
13	1,350	7,200	4,490	3,300	3,640	10,200	6,260	6,320	3,530	1,540	1,180	813
14	1,300	6,020	4,540	3,310	3,540	10,700	5,670	5,540	3,920	1,550	1,010	749
15	1,280	5,560	4,350	3,280	3,170	9,400	5,090	5,000	3,470	1,630	1,010	749
16	1,290	4,930	4,240	3,230	2,920	8,960	4,960	4,780	3,090	1,660	955	1,060
17	1,320	4,350	3,300	3,200	2,600	13,100	5,360	4,550	2,850	1,610	915	884
18	1,360	3,990	3,030	3,080	2,410	23,300	6,590	6,760	2,700	1,560	869	829
19	1,330	3,690	3,900	3,400	2,650	20,000	7,260	13,100	2,580	1,460	1,040	1,200
20	1,310	3,730	3,990	4,150	2,810	15,300	7,630	11,700	2,420	1,360	944	1,510
21	1,220	3,840	3,740	4,400	2,830	12,000	7,540	11,600	2,230	1,300	783	1,450
22	1,160	3,520	3,480	4,280	2,630	9,950	7,180	12,000	2,610	1,290	767	1,470
23	1,110	3,170	3,660	5,830	2,540	8,230	7,550	10,900	4,480	1,180	719	1,800
24	1,200	3,090	3,770	8,230	2,300	7,200	7,800	9,270	4,010	1,000	680	1,840
25	1,380	2,950	3,530	7,750	2,060	6,500	7,190	7,850	3,690	916	706	1,710
26	1,450	3,870	3,370	6,820	2,020	6,660	6,090	6,660	2,990	850	1,010	1,520
27	1,460	7,200	3,290	6,330	2,080	7,040	5,150	5,690	2,470	824	799	1,370
28	1,350	6,940	3,060	5,630	1,840	6,610	4,780	5,300	2,160	899	662	1,240
29	1,550	6,190	2,680	5,170	-----	6,290	4,820	5,470	2,110	1,270	786	1,330
30	2,200	5,380	2,570	4,130	-----	6,030	4,940	6,010	4,380	1,370	821	1,360
31	2,850	-----	2,860	4,090	-----	6,080	-----	5,960	-----	1,070	751	-----
TOTAL	42,800	150,170	127,790	150,350	107,070	242,680	241,030	197,890	103,880	62,049	29,539	34,646
MEAN	1,381	5,006	4,122	4,850	3,824	7,828	8,034	6,384	3,463	2,002	953	1,155
MAX	2,850	12,100	6,480	8,230	7,780	23,300	16,900	13,100	5,610	5,740	1,460	1,840
MIN	905	2,410	2,570	3,080	1,840	1,900	4,780	3,440	2,110	824	662	652

CAL YR 1972 TOTAL 1,490,754 MEAN 4,073 MAX 29,100 MIN 810
WTR YR 1973 TOTAL 1,489,894 MEAN 4,082 MAX 23,300 MIN 652

PEAK DISCHARGE (BASE, 15,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-28	1300	13.73	24,400	4-02	2400	11.05	17,900

01319000 EAST BRANCH SACANDAGA RIVER AT GRIFFIN, N.Y.

LOCATION.--Lat 43°28'25", long 74°13'25", Hamilton County, on left bank 300 ft (91 m) upstream from highway bridge on Teachout Road 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.

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.

AVERAGE DISCHARGE.--40 years, 210 ft³/s (5.947 m³/s) (25.02 in/yr (635.5 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 4,560 ft³/s (129 m³/s) Mar. 18 (gage height, 9.79 ft (2.984 m)); minimum, 7.4 ft³/s (0.21 m³/s) Aug. 27 (gage height, 0.74 ft (0.226 m)).

Period of record: Maximum discharge, 10,700 ft³/s (303 m³/s) Dec. 31, 1948 (gage height, 14.35 ft (4.374 m), from floodmark), 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)).

REMARKS.--Records fair except those for winter periods, which are poor. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1111: 1936(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	246	270	1,200	180	76	1,150	194	322	369	25	17
2	52	274	220	1,110	230	76	2,910	184	261	203	59	17
3	43	562	180	662	1,400	76	1,700	209	207	135	100	17
4	37	455	150	460	1,000	100	1,060	285	187	173	64	14
5	34	388	160	377	620	150	1,080	242	172	154	41	12
6	31	329	200	257	410	220	749	215	168	111	30	42
7	94	272	500	180	330	230	608	184	205	80	22	99
8	287	837	440	180	270	400	562	160	165	62	19	54
9	161	3,110	411	180	210	1,310	463	289	132	49	16	35
10	112	1,310	342	190	170	878	430	438	111	41	15	25
11	90	718	265	200	150	618	377	765	95	41	21	19
12	83	544	210	210	150	873	310	635	90	36	83	16
13	90	422	261	190	140	1,390	274	498	117	28	44	14
14	82	359	263	160	130	1,030	257	377	95	46	29	14
15	82	312	212	130	120	695	287	315	76	72	22	29
16	79	240	200	110	110	815	375	317	67	58	19	37
17	78	200	150	100	110	2,420	595	274	72	49	18	27
18	75	180	140	130	110	3,040	718	1,530	64	38	16	108
19	69	160	140	200	110	1,190	669	1,550	62	29	14	157
20	64	150	140	300	100	669	547	829	57	24	15	91
21	57	140	130	400	96	463	433	1,070	51	24	14	65
22	60	130	130	440	90	364	385	829	49	24	12	56
23	62	120	130	1,000	88	296	357	550	46	21	11	218
24	75	110	120	1,370	90	287	287	408	53	16	9.4	141
25	75	110	120	794	84	308	238	312	61	15	8.6	99
26	69	450	120	566	78	504	205	255	48	14	8.2	77
27	65	1,040	110	370	78	648	187	216	40	14	7.8	60
28	67	638	110	342	78	541	242	220	35	17	9.1	50
29	411	452	100	280	-----	489	259	501	62	75	54	42
30	507	327	110	160	-----	472	224	481	519	54	33	35
31	337	-----	150	170	-----	588	-----	369	-----	35	19	-----
TOTAL	3,506	14,585	6,184	12,418	6,732	21,216	17,938	14,701	3,689	2,107	858.1	1,687
MEAN	113	486	199	401	240	684	598	474	123	68.0	27.7	56.2
MAX	507	3,110	500	1,370	1,400	3,040	2,910	1,550	519	369	100	218
MIN	31	110	100	100	78	76	187	160	35	14	7.8	12
CFSM	.99	4.26	1.75	3.52	2.11	6.00	5.25	4.16	1.08	.60	.24	.49
IN.	1.14	4.76	2.02	4.05	2.20	6.92	5.85	4.80	1.20	.69	.28	.55

CAL YR 1972 TOTAL 115,773.0 MEAN 316 MAX 3,850 MIN 21 CFSM 2.77 IN 37.78
WTR YR 1973 TOTAL 105,621.1 MEAN 289 MAX 3,110 MIN 7.8 CFSM 2.54 IN 34.47

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	0630	9.15	3,860	4-02	0430	8.53	3,240
3-18	0130	9.79	4,560				

HUDSON RIVER BASIN

01321000 SACANDAGA RIVER NEAR HOPE, N.Y.

LOCATION.--Lat 43°21'10", long 74°16'15", Hamilton County, on left bank 1.5 mi (2.4 km) downstream from West Branch Sacandaga River 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.

AVERAGE DISCHARGE.--62 years, 1,085 ft³/s (30.73 m³/s).

EXTREMES.--Current year: Maximum discharge, 15,800 ft³/s (447 m³/s) Mar. 18 (gage height, 8.09 ft (2.466 m)); minimum, 82 ft³/s (2.32 m³/s) Aug. 29 (gage height, 1.45 ft (0.442 m)); minimum daily, 85 ft³/s (2.41 m³/s) Aug. 27.
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.

REMARKS.--Records fair 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	362	973	1,500	4,940	903	448	4,810	1,300	1,660	1,930	164	90
2	302	1,060	1,300	4,070	1,110	446	10,400	1,160	1,440	1,320	299	162
3	267	1,900	1,200	2,840	3,860	464	7,380	1,230	1,260	1,120	443	160
4	244	1,740	1,070	2,370	3,230	629	5,320	1,370	1,130	1,070	300	108
5	229	1,630	963	1,990	2,130	938	5,580	1,250	1,030	930	223	190
6	216	1,520	1,410	1,630	1,820	1,090	4,560	1,140	1,200	597	182	244
7	310	1,340	2,780	1,250	1,670	1,090	3,630	1,020	1,330	425	157	332
8	759	2,550	2,020	1,160	1,460	3,170	3,310	920	1,040	351	141	256
9	591	9,150	2,000	1,080	1,200	4,630	2,940	1,250	822	294	126	206
10	478	5,250	1,880	1,000	1,010	3,540	2,720	1,840	741	252	124	176
11	415	3,490	1,620	1,000	894	2,770	2,470	2,510	654	234	147	155
12	388	2,940	1,340	1,000	809	3,740	1,980	2,520	600	210	185	138
13	390	2,410	1,590	1,000	800	5,310	1,630	2,290	665	183	192	122
14	367	2,140	1,600	940	760	4,340	1,650	1,950	606	245	161	130
15	361	1,690	1,350	900	740	3,360	1,560	1,700	524	323	159	201
16	349	1,610	1,220	820	700	3,570	1,850	1,760	474	295	153	198
17	348	1,290	1,070	790	677	8,500	2,510	1,540	438	268	129	169
18	340	1,200	1,020	846	648	10,500	3,110	7,090	368	237	109	443
19	328	1,080	1,000	1,030	634	5,620	2,980	6,710	406	212	101	587
20	317	1,000	960	1,200	645	4,320	2,640	4,480	384	175	99	396
21	300	1,000	880	1,400	621	3,510	2,290	4,870	349	156	108	314
22	293	900	840	1,470	587	2,940	2,200	3,980	336	151	107	325
23	309	860	840	4,140	553	2,060	2,120	2,970	280	140	99	613
24	348	840	820	3,690	518	1,550	1,820	2,520	338	126	94	532
25	357	839	780	2,350	491	1,940	1,580	1,990	415	119	93	426
26	338	2,560	740	2,000	485	2,710	1,380	1,730	324	114	88	361
27	324	4,140	720	1,800	459	3,140	1,250	1,460	282	118	85	310
28	339	2,540	680	1,600	453	2,850	1,460	1,410	251	160	86	275
29	1,190	2,100	638	1,400	-----	2,630	1,660	2,030	686	279	96	242
30	1,750	1,560	674	1,110	-----	2,450	1,460	2,200	3,090	234	113	213
31	1,300	-----	1,040	1,010	-----	2,690	-----	1,900	-----	187	96	-----
TOTAL	14,209	63,502	37,545	53,826	29,867	96,945	90,250	72,090	23,123	12,455	4,659	8,074
MEAN	458	2,117	1,211	1,736	1,067	3,127	3,008	2,325	771	402	150	269
MAX	1,750	9,150	2,780	4,940	3,860	10,500	10,400	7,090	3,090	1,930	443	613
MIN	216	839	638	790	453	446	1,250	920	251	114	85	90

CAL YR 1972 TOTAL 559,811 MEAN 1,530 MAX 12,400 MIN 176
WTR YR 1973 TOTAL 506,545 MEAN 1,388 MAX 10,500 MIN 85

PEAK DISCHARGE (BASE, 9,100 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-9	0900	7.13	11,300	4-02	0500	7.25	11,800
3-18	0100	8.09	15,800	5-18	1500	7.08	11,100

01323500 GREAT SACANDAGA LAKE AT CONKLINGVILLE, N.Y.

LOCATION.--Lat 43°18'57", long 73°55'39", Saratoga County, 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.

EXTREMES.--Current year: Maximum elevation, 770.45 ft (234.833 m) May 22 (contents, 37,080 mil ft³ (1,050 hm³)); minimum, 746.43 ft (227.512 m) Mar. 7 (contents, 12,830 mil ft³ (363.3 hm³)).
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)).

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.

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

745	11.64	765	30.94
750	15.94	770	35.56
755	20.61	775	42.46
760	25.61		

ELEVATION, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	756.25	752.64	759.62	756.95	755.16	748.12	763.09	767.53	767.94	766.12	762.32	757.60
2	756.18	752.61	759.63	757.50	754.90	747.74	764.47	767.46	767.83	766.29	762.14	757.53
3	755.94	752.71	759.59	757.72	754.95	747.37	765.70	767.40	767.70	766.26	762.00	757.56
4	755.72	752.86	759.48	757.85	755.22	747.10	766.25	767.38	767.55	766.22	761.83	757.52
5	755.48	753.10	759.48	757.92	755.29	746.86	766.89	767.34	767.37	766.18	761.73	757.38
6	755.25	753.32	759.46	757.86	755.18	746.69	767.26	767.35	767.28	766.08	761.67	757.38
7	755.11	753.32	759.63	757.70	755.05	746.51	767.46	767.44	767.27	765.96	761.47	757.26
8	755.22	753.36	759.71	757.50	754.88	746.57	767.53	767.42	767.19	765.89	761.28	757.10
9	755.18	754.68	759.76	757.32	754.68	747.25	767.56	767.44	767.08	765.86	761.10	757.00
10	755.04	756.00	759.77	757.12	754.40	747.83	767.58	767.57	767.03	765.68	760.92	756.95
11	754.87	756.52	759.75	756.91	754.11	748.38	767.57	767.83	767.06	765.52	760.72	756.79
12	754.73	756.93	759.63	756.69	753.81	749.12	767.48	768.14	766.97	765.32	760.62	756.58
13	754.54	757.26	759.55	756.45	753.50	750.18	767.36	768.40	766.91	765.16	760.54	756.41
14	754.35	757.40	759.48	756.21	753.20	751.20	767.30	768.64	766.84	764.99	760.34	756.26
15	754.30	757.63	759.39	755.98	752.93	751.94	767.22	768.58	766.71	764.90	760.16	756.15
16	754.23	757.74	759.34	755.76	752.63	752.60	767.16	768.54	766.60	764.82	759.99	756.08
17	754.04	757.78	759.20	755.53	752.32	753.71	767.22	768.46	766.55	764.64	759.80	756.02
18	753.85	757.80	758.98	755.29	751.99	756.06	767.39	768.78	766.52	764.50	759.60	755.94
19	753.66	757.84	758.79	755.13	751.67	757.39	767.57	769.67	766.37	764.30	759.46	755.83
20	753.48	758.05	758.60	755.13	751.33	758.10	767.73	770.00	766.22	764.12	759.42	755.71
21	753.29	758.19	758.45	755.13	750.99	758.61	767.84	770.28	766.09	763.94	759.24	755.56
22	753.20	758.22	758.31	755.08	750.67	759.05	767.92	770.42	765.95	763.84	759.07	755.44
23	753.17	758.20	758.15	755.23	750.33	759.40	768.00	770.29	765.80	763.76	758.89	755.44
24	752.99	758.16	757.97	755.67	749.98	759.67	768.03	770.06	765.80	763.60	758.72	755.44
25	752.82	758.08	757.80	755.87	749.61	759.94	768.02	769.76	765.83	763.39	758.55	755.34
26	752.64	758.26	757.62	755.89	749.23	760.35	767.96	769.42	765.70	763.22	758.46	755.22
27	752.45	759.02	757.46	755.87	748.86	760.94	767.90	769.02	765.56	763.05	758.41	755.10
28	752.27	759.35	757.27	755.81	748.51	761.44	767.80	768.65	765.41	762.86	758.24	754.96
29	752.34	759.55	757.04	755.79	-----	761.87	767.72	768.30	765.35	762.76	758.07	754.81
30	752.64	759.57	756.80	755.64	-----	762.24	767.60	768.03	765.73	762.68	757.91	754.71
31	752.66	-----	756.66	755.43	-----	762.61	-----	767.99	-----	762.50	757.76	-----
MEAN	754.13	756.54	758.79	756.32	752.69	753.77	767.22	768.50	766.61	764.66	760.01	756.24
MAX	756.25	759.57	759.77	757.92	755.29	762.61	768.03	770.42	767.94	766.29	762.32	757.60
MIN	752.27	752.61	756.66	755.08	748.51	746.51	763.09	767.34	765.35	762.50	757.76	754.71
(*)	18.38	25.17	22.25	20.88	14.43	28.54	33.76	34.27	31.96	28.13	23.23	20.33
(*)	-1,281	+2,620	-1,090	-511	-2,666	+5,268	+2,014	+190	-891	-1,430	-1,829	-1,119

CAL YR 1972 MEAN 758.26 MAX 770.76 MIN 745.19 * +39.5
WTR YR 1973 MEAN 759.66 MAX 770.42 MIN 746.51 * -47.0

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

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

NOTE.--Eastern daylight time used Oct. 1-28 and Apr. 29 to Sept. 30 to conform to requirements of regulation at points downstream.

01325000 SACANDAGA RIVER AT STEWARTS BRIDGE, NEAR HADLEY, N.Y.

LOCATION.--Lat 43°18'41", long 73°52'04", Saratoga County, 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.

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.

AVERAGE DISCHARGE.--66 years, 2,106 ft³/s (59.64 m³/s) (adjusted for storage since 1930).

EXTREMES.--Current year: Maximum discharge, 8,390 ft³/s (238 m³/s) May 21 (gage height, 7.58 ft (2.310 m)); minimum, 11 ft³/s (0.31 m³/s) Mar. 21, 22; minimum daily, 11 ft³/s (0.31 m³/s) Mar. 21.

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)).

REMARKS.--Records good. 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. Water quality records published in Part 2 of this report for station 01325005 at Hadley, 1.3 mi (2.1 km) downstream.

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

REVISIONS (WATER YEARS).--WSP 1302: 1908. WSP 1432: 1910-12, 1916-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	2,560	3,020	4,150	4,920	4,700	31	3,040	4,040	47	2,620	2,020
2	2,900	2,580	3,060	4,150	5,000	4,620	2,130	3,080	4,070	2,480	2,550	48
3	3,030	2,540	3,040	4,160	5,130	4,660	5,040	3,050	4,050	2,500	2,780	23
4	3,040	2,580	3,060	4,070	5,000	4,600	5,410	3,000	4,080	2,480	2,520	2,030
5	3,020	48	3,060	4,110	5,060	4,690	5,550	3,020	4,070	2,480	45	2,060
6	3,030	2,540	3,090	4,120	5,140	4,580	5,470	127	3,020	2,480	2,510	2,040
7	3,080	2,550	3,060	4,140	4,950	4,640	5,500	2,020	3,030	2,510	2,550	2,030
8	186	2,590	4,060	4,150	5,000	4,920	5,490	2,050	3,160	39	2,550	2,010
9	2,520	2,060	4,050	4,130	5,080	5,440	5,320	2,030	2,980	2,460	2,550	42
10	2,550	2,060	4,040	4,150	4,960	4,910	5,480	1,980	152	2,480	2,600	2,040
11	2,550	2,050	4,090	4,170	5,000	134	5,530	2,080	2,000	2,510	2,570	2,090
12	2,580	45	4,090	4,110	5,010	15	5,480	2,010	2,220	2,520	55	2,050
13	2,660	1,990	4,100	4,170	4,910	15	4,640	45	2,000	2,500	2,510	2,080
14	2,610	2,080	4,060	4,160	4,940	14	3,970	2,760	1,980	2,470	2,530	2,080
15	45	2,060	4,130	4,100	4,940	13	4,100	4,010	2,180	42	2,530	2,080
16	2,560	2,030	4,100	4,110	4,940	12	4,080	4,040	2,160	2,530	2,520	60
17	2,540	2,040	4,110	4,120	4,890	36	2,700	4,030	43	2,530	2,500	1,990
18	2,540	2,050	4,140	4,130	4,850	23	2,540	5,000	2,510	2,570	2,530	2,070
19	2,550	43	4,140	4,030	4,840	13	2,520	5,710	2,540	2,580	51	2,090
20	2,530	2,050	4,140	4,110	4,780	12	2,550	5,710	2,540	2,500	1,990	2,070
21	2,530	2,100	4,110	4,140	4,790	11	2,520	7,060	2,510	2,500	2,050	2,070
22	47	2,590	4,110	4,130	4,800	18	2,510	8,310	2,500	78	2,040	2,070
23	2,440	2,590	4,120	4,120	4,830	26	2,520	8,050	2,520	2,490	2,080	46
24	2,520	2,600	4,160	4,120	4,790	27	2,540	8,020	43	2,520	2,060	2,060
25	2,530	2,570	4,120	4,130	4,760	26	2,790	8,100	2,500	2,530	2,070	2,100
26	2,560	113	4,120	4,080	4,730	29	3,100	8,160	2,530	2,440	50	2,090
27	2,550	2,950	4,060	4,120	4,770	27	3,090	8,020	2,470	2,540	2,150	2,050
28	2,570	3,060	4,120	4,120	4,680	26	4,120	8,030	2,520	2,510	2,100	2,110
29	112	3,060	4,070	4,140	-----	25	4,110	7,980	2,530	96	2,020	2,060
30	2,560	3,080	4,120	4,100	-----	25	4,110	6,680	2,490	2,470	1,990	47
31	2,600	-----	4,120	4,540	-----	25	-----	4,050	-----	2,500	2,010	-----
TOTAL	69,676	63,259	119,870	128,280	137,490	48,312	114,941	141,252	75,438	65,382	63,681	49,706
MEAN	2,248	2,109	3,867	4,138	4,910	1,558	3,831	4,557	2,515	2,109	2,054	1,657
MAX	3,080	3,080	4,160	4,540	5,140	5,440	5,550	8,310	4,080	2,580	2,780	2,110
MIN	45	43	3,020	4,030	4,680	11	31	45	43	39	45	23

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

MEAN	967	4,727	2,774	3,629	2,243	6,803	5,870	4,748	1,624	679	223	536
CFSM	0.92	4.48	2.63	3.44	2.13	6.45	5.56	4.50	1.54	0.64	0.21	0.51
IN	1.06	5.00	3.03	3.97	2.21	7.43	6.21	5.19	1.72	0.74	0.24	0.57

Observed

Adjusted

CAL YR 1972	TOTAL	1,182,718	MEAN	3,231	MAX	10,800	MIN	10	MEAN	3,273	CFSM	3.10	IN	42.22
WTR YR 1973	TOTAL	1,077,287	MEAN	2,951	MAX	8,310	MIN	11	MEAN	2,904	CFSM	2.75	IN	37.37

HUDSON RIVER BASIN

59

01327500 GLENS FALLS FEEDER AT DUNHAM BASIN, N.Y.

LOCATION.--Lat 43°18'15", long 73°32'49", Washington County, 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	130	113			-	8.9	108	89	159	189	135
2	122	146	137			-	17	86	82	65	186	137
3	100	189	133			-	10	86	80	124	186	135
4	108	144	130			-	13	91	78	135	184	135
5	102	184	133			-	20	95	86	128	196	126
6	104	139	144			-	10	89	117	102	168	113
7	180	135	226			-	6.7	63	104	144	181	108
8	160	230	184			-	5.9	62	102	224	181	102
9	104	320	54			-	29	73	104	170	172	113
10	97	214	46			-	124	91	104	122	172	113
11	119	166	33			-	75	157	82	179	184	104
12	113	148	14			-	117	144	130	189	206	111
13	106	133	3.5			-	115	137	141	204	166	113
14	113	133	6.3			-	106	104	146	196	148	119
15	119	126	-			-	102	122	159	209	163	117
16	117	93	-			-	100	122	150	209	166	130
17	106	80	-			-	93	67	126	189	159	128
18	108	73	-			-	95	84	161	186	146	126
19	111	65	-			-	100	95	130	189	170	117
20	102	199	-			-	100	93	124	201	159	122
21	97	82	-			-	100	90	119	184	146	126
22	115	54	-			-	100	70	133	201	141	115
23	108	60	-			-	100	67	166	179	161	119
24	102	62	-			-	100	113	179	179	166	122
25	106	95	-			-	100	104	170	172	159	117
26	102	260	-			-	100	102	189	179	172	113
27	106	210	-			-	95	95	159	181	155	113
28	111	144	-			5.5	100	95	95	174	157	108
29	128	144	-		-----	5.1	102	100	139	204	155	108
30	133	113	-		-----	4.7	102	97	210	201	146	122
31	124	-----	-		-----	4.3	-----	102	-----	196	139	-----
TOTAL	3,536	4,271	-	-	-	-	2,246.5	3,004	3,854	5,374	5,179	3,567
MEAN	114	142	-	-	-	-	74.9	96.9	128	173	167	119
MAX	180	320	-	-	-	-	124	157	210	224	206	137
MIN	97	54	-	-	-	-	5.9	62	78	65	139	102

HUDSON RIVER BASIN

01328000 BOND CREEK AT DUNHAM BASIN, N.Y.

LOCATION.--Lat 43°18'22", long 73°32'56", Washington County, 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.

AVERAGE DISCHARGE.--26 years, 16.4 ft³/s (0.464 m³/s) (15.15 in/yr (384.8 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 698 ft³/s (19.8 m³/s) Nov. 9 (gage height, 6.22 ft (1.896 m)); minimum, 0.64 ft³/s (0.018 m³/s) Aug. 9 (gage height, 1.57 ft (0.479 m)); minimum gage height, 1.55 ft (0.472 m) Oct. 5-7.
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.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	8.8	28	160	16	9.2	23	7.7	16	79	2.0	2.0
2	1.7	21	27	100	18	9.4	121	7.0	9.7	21	2.5	2.3
3	1.5	67	23	60	150	10	69	7.3	7.0	10	3.1	2.0
4	1.3	26	17	42	100	20	77	9.3	7.7	6.6	2.5	2.0
5	1.1	62	15	36	60	80	168	7.3	8.0	13	1.7	1.5
6	.84	39	43	32	35	54	58	6.6	7.0	6.6	1.3	1.7
7	174	23	96	26	25	70	33	5.9	5.5	4.5	2.5	2.0
8	136	92	61	22	21	274	23	5.2	4.5	6.2	1.7	2.0
9	31	382	41	14	15	149	17	11	4.0	4.0	1.3	1.7
10	20	81	39	13	13	92	43	23	3.7	3.7	1.1	1.3
11	13	51	41	13	11	78	46	77	3.1	4.0	1.5	1.3
12	8.8	42	28	13	11	117	23	47	3.4	4.0	2.8	1.3
13	8.0	29	37	13	11	105	17	41	4.0	4.5	1.5	1.3
14	7.0	29	38	13	11	66	13	20	3.7	8.4	.84	1.7
15	5.9	34	24	14	10	51	11	15	3.1	5.5	1.1	2.0
16	5.5	28	20	14	10	54	8.8	35	3.1	4.8	1.1	1.7
17	5.2	23	21	14	10	272	7.7	17	4.0	3.7	1.3	1.5
18	5.2	17	22	30	10	149	8.4	36	3.7	3.1	1.1	2.3
19	5.2	15	19	85	9.8	66	8.4	38	2.8	3.1	1.5	1.7
20	4.5	125	18	355	9.8	37	6.6	25	2.5	3.7	1.3	1.5
21	4.2	60	18	142	9.6	26	5.5	133	2.8	2.8	.84	1.5
22	4.2	32	24	106	9.4	21	5.2	123	2.3	2.5	.84	2.5
23	4.5	24	32	196	9.4	17	5.5	47	2.3	1.5	1.1	2.8
24	4.5	16	32	136	9.2	14	4.8	26	2.3	2.0	1.1	2.0
25	4.5	16	35	77	9.0	14	4.2	17	2.5	2.0	1.1	1.5
26	4.2	238	34	41	9.0	47	4.2	13	2.0	1.7	1.1	1.5
27	4.2	113	37	25	9.0	31	4.5	10	1.7	2.3	1.3	1.3
28	4.2	64	31	18	9.0	18	10	10	1.7	2.0	1.7	1.1
29	13	62	26	14	-----	16	18	13	3.7	3.1	2.0	1.1
30	26	37	25	14	-----	13	10	11	118	2.8	2.3	1.1
31	11	-----	56	15	-----	13	-----	26	-----	2.8	2.3	-----
TOTAL	521.94	1,856.8	1,008	1,853	630.2	1,992.6	853.8	870.3	245.8	224.9	49.42	51.2
MEAN	16.8	61.9	32.5	59.8	22.5	64.3	28.5	28.1	8.19	7.25	1.59	1.71
MAX	174	382	96	355	150	274	168	133	118	79	3.1	2.8
MIN	.84	8.6	15	13	9.0	9.2	4.2	5.2	1.7	1.5	.84	1.1
CFSM	1.14	4.21	2.21	4.07	1.53	4.37	1.94	1.91	.56	.49	.11	.12
IN.	1.32	4.70	2.55	4.69	1.59	5.04	2.16	2.20	.62	.57	.13	.13

CAL YR 1972 TOTAL 13,506.89 MEAN 36.9 MAX 670 MIN .15 CFSM 2.51 IN 34.18
WTR YR 1973 TOTAL 10,157.96 MEAN 27.8 MAX 382 MIN .84 CFSM 1.89 IN 25.71

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
10-07	1900	5.04	427	1-20	0200	5.97	633
11-09	0500	6.22	698	3-17	1730	5.61	548
11-26	1700	5.27	474				

01329000 Batten Kill at Arlington, Vt.

LOCATION.--Lat 43°04'38", long 73°09'26", Bennington County, 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.

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

AVERAGE DISCHARGE.--45 years, 330 ft³/s (9.346 m³/s), 29.48 in/yr (749 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,880 ft³/s (167 m³/s) June 30 (gage height, 9.31 ft or 2.838 m); minimum, 69 ft³/s (1.95 m³/s) Sept. 11, 13, 14.

Period of record: Maximum discharge, 11,100 ft³/s (314 m³/s) Mar. 18, 1936 (gage height, 11.3 ft or 3.44 m, from floodmarks, present site), from rating curve extended above 5,200 ft³/s (147 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.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Prior to 1949, diurnal fluctuation at low flow caused by mill above station.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 851: 1936 (maximum gage height). WSP 1302: 1929-34(M).

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	191	465	1,670	335	210	527	361	387	2,610	114	101
2	112	214	419	1,490	600	225	1,140	337	358	1,110	180	89
3	102	981	400	887	1,950	250	987	347	316	535	207	81
4	96	600	386	676	1,510	350	723	403	299	439	148	78
5	95	386	364	636	890	440	915	347	302	632	126	84
6	91	320	1,020	466	632	380	707	344	274	590	114	87
7	555	286	2,670	318	570	330	600	316	258	391	107	100
8	1,470	352	1,570	296	530	1,050	560	287	239	314	121	85
9	635	1,460	1,410	323	474	950	495	309	223	274	114	80
10	286	1,060	1,250	317	358	750	555	309	210	244	112	76
11	221	641	1,020	303	328	600	545	670	194	225	126	73
12	202	583	756	287	296	1,000	455	570	189	207	144	72
13	235	528	781	266	320	1,150	419	495	292	197	148	71
14	209	517	732	263	309	850	395	399	298	207	119	71
15	279	511	583	269	316	750	399	361	218	207	114	78
16	260	415	522	265	296	1,000	459	500	200	202	123	78
17	224	352	444	264	258	2,200	690	435	227	177	112	77
18	197	378	415	325	260	2,400	867	675	201	168	104	94
19	180	306	424	393	268	1,140	873	993	189	157	100	117
20	170	612	405	1,210	263	707	740	756	174	150	95	92
21	164	600	364	811	257	545	585	1,230	164	155	92	84
22	164	405	373	576	255	479	555	1,900	162	155	91	84
23	158	320	360	1,520	242	427	640	1,430	162	142	88	128
24	156	317	338	1,290	228	399	522	873	181	132	85	109
25	151	302	326	813	217	387	431	630	431	128	85	95
26	145	819	320	631	210	536	383	540	221	124	82	89
27	140	1,240	326	542	185	595	391	479	183	150	85	85
28	138	794	305	490	180	475	495	455	174	142	85	81
29	232	647	265	452	-----	435	513	545	361	128	84	78
30	302	496	266	369	-----	407	419	467	2,740	124	80	76
31	224	-----	456	346	-----	423	-----	435	-----	117	81	-----
TOTAL	7,724	16,583	19,735	18,764	12,537	21,840	17,985	18,198	9,827	10,533	3,466	2,593
MEAN	249	553	637	605	448	705	600	587	328	340	112	86.4
MAX	1,470	1,460	2,670	1,670	1,950	2,400	1,140	1,900	2,740	2,610	207	128
MIN	91	191	265	263	180	210	383	287	162	117	80	71
CFSM	1.64	3.64	4.19	3.98	2.95	4.64	3.95	3.86	2.16	2.24	.74	.57
IN.	1.89	4.06	4.83	4.59	3.07	5.35	4.40	4.45	2.41	2.58	.85	.63

CAL YR 1972 TOTAL 167,667 MEAN 458 MAX 3,160 MIN 80 CFSM 3.01 IN 41.03
WTR YR 1973 TOTAL 159,785 MEAN 438 MAX 2,740 MIN 71 CFSM 2.88 IN 39.11

PEAK DISCHARGE (BASE, 2,200 ft³/s)

NOTE.--No gage-height record Feb. 26 to Mar. 18.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	2130	7.45	3,040				
3-17	-	-	12,900				
6-30	1100	9.31	5,880				

† About.

HUDSON RIVER BASIN

01330500 KAYADEROSSERAS CREEK NEAR WEST MILTON, N.Y.

LOCATION.--Lat 43°02'18", long 73°54'35", Saratoga County, 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.

DRAINAGE AREA.--90.1 mi² (233 km²).

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

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

AVERAGE DISCHARGE.--46 years, 132 ft³/s (3.738 m³/s) (19.92 in/yr (506.0 mm/yr)).

EXTREMES.--Current: Maximum discharge, 1,610 ft³/s (45.6 m³/s) Mar. 18 (gage height, 6.00 ft (1.829 m)); minimum, 18 ft³/s (0.51 m³/s) Aug. 30 (gage height, 1.18 ft (0.360 m)).

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); minimum, 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.

REMARKS.--Records good except those for winter periods, which are poor. Slight occasional diurnal fluctuation at low flow caused by mills above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 741: Drainage area. WSP 1202: 1935-40.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	96	205	513	150	106	302	148	215	570	34	24
2	50	145	190	500	160	103	977	139	168	264	63	34
3	47	401	175	400	350	109	760	162	138	167	61	29
4	45	226	158	300	320	210	574	202	134	148	47	26
5	43	325	160	240	288	311	1,050	156	129	153	41	25
6	42	258	253	191	225	281	624	142	147	112	37	52
7	271	178	411	180	188	268	424	127	226	91	37	56
8	307	286	258	170	171	704	339	118	135	80	34	35
9	155	1,130	306	160	148	731	283	269	108	72	40	30
10	100	564	291	160	149	515	374	340	95	67	47	27
11	81	304	261	150	161	411	405	666	86	65	45	26
12	74	277	203	140	159	557	294	396	83	58	57	26
13	71	214	230	130	180	671	254	270	103	56	41	25
14	67	218	211	130	170	527	235	211	88	58	36	26
15	66	232	170	120	148	403	216	198	77	59	42	37
16	64	198	158	120	143	434	201	276	74	61	49	35
17	60	170	174	120	142	963	192	198	75	55	40	31
18	58	155	214	120	153	1,210	184	754	73	52	35	40
19	56	143	186	210	155	548	178	660	78	50	33	49
20	54	357	152	596	152	378	164	397	73	47	32	36
21	54	333	147	406	146	306	152	614	69	48	31	32
22	54	205	207	379	136	267	149	506	68	50	31	32
23	56	158	241	439	130	248	168	340	66	44	29	49
24	56	149	205	404	120	233	152	249	136	42	29	44
25	56	145	194	287	110	235	138	207	146	40	28	48
26	54	465	193	221	110	489	133	185	89	41	27	46
27	52	544	186	193	107	429	142	169	73	64	26	36
28	52	360	170	177	114	298	228	219	73	51	26	33
29	130	300	143	162	-----	251	237	297	308	45	26	31
30	220	223	154	158	-----	231	176	211	923	42	23	29
31	120	-----	268	150	-----	233	-----	269	-----	37	22	-----
TOTAL	2,671	8,759	6,474	7,626	4,685	12,660	9,705	9,095	4,256	2,789	1,149	1,049
MEAN	86.2	292	209	246	167	408	324	293	142	90.0	37.1	35.0
MAX	307	1,130	411	596	350	1,210	1,050	754	923	570	63	56
MIN	42	96	143	120	107	103	133	118	66	37	22	24
CFSM	.96	3.24	2.32	2.73	1.86	4.53	3.60	3.26	1.58	1.00	.41	.39
IN.	1.10	3.62	2.68	3.15	1.94	5.23	4.01	3.76	1.76	1.15	.47	.43

CAL YR 1972 TOTAL 73,505 MEAN 201 MAX 1,160 MIN 35 CFSM 2.23 IN 30.38
WTR YR 1973 TOTAL 70,918 MEAN 194 MAX 1,210 MIN 22 CFSM 2.16 IN 29.31

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-09	1000	5.51	1,360	4-05	0300	5.41	1,300
3-18	0230	6.00	1,610	5-18	1730	5.18	1,200

01332500 Hoosic River near Williamstown, Mass.

LOCATION.--Lat 42°42'21", long 73°10'50", Berkshire County, 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.--July 1940 to current year.

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

AVERAGE DISCHARGE.--33 years, 267 ft³/s (7.561 m³/s), 27.47 in/yr (698 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,570 ft³/s (186 m³/s) June 30 (gage height, 8.84 ft or 2.694 m), from rating curve extended above 1,600 ft³/s (45.3 m³/s) on basis of slope-area measurement at gage height 9.22 ft (2.810 m); minimum not determined; minimum daily, 62 ft³/s (1.76 m³/s) Sept. 14.

Period of record: Maximum discharge, 13,000 ft³/s (368 m³/s) Dec. 31, 1948 (gage height, 14.85 ft or 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.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Slight diurnal fluctuation at low flow prior to 1966 caused by mills above station. Some regulation by Cheshire Reservoir 17 mi (27 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	94	351	1,300	326	164	532	254	378	980	115	110
2	67	167	303	800	980	190	1,050	246	334	514	850	90
3	67	435	290	540	3,170	250	676	270	286	382	613	84
4	67	261	274	480	914	342	757	318	262	394	258	78
5	67	233	270	430	613	464	840	266	250	626	179	74
6	67	221	707	360	509	358	626	258	266	394	157	86
7	435	209	1,230	290	482	298	577	231	254	290	150	90
8	449	342	545	270	451	892	563	212	223	235	143	74
9	193	867	743	275	394	835	473	262	190	205	136	68
10	137	431	694	270	326	608	676	270	175	175	132	66
11	120	316	595	245	286	577	626	739	153	171	168	66
12	127	351	446	220	270	1,030	487	554	887	157	153	64
13	160	294	541	210	270	800	428	442	969	143	146	63
14	134	408	464	205	270	608	366	362	577	143	136	62
15	127	386	394	200	266	649	338	334	350	146	139	70
16	120	294	370	195	246	855	358	496	270	150	205	70
17	117	257	318	205	190	2,400	382	382	239	143	157	68
18	110	241	310	274	205	980	366	770	208	139	136	84
19	106	221	310	334	208	667	342	676	205	132	129	90
20	106	593	278	1,100	208	527	306	487	179	129	120	78
21	103	458	246	500	212	442	274	980	164	132	115	72
22	91	325	298	469	216	394	258	947	161	132	110	70
23	87	261	302	1,680	201	370	250	604	161	125	105	96
24	81	261	262	855	190	374	239	478	175	120	100	90
25	81	245	250	586	179	390	220	406	250	115	95	96
26	81	755	245	496	175	716	239	338	168	115	90	86
27	81	680	255	442	164	541	290	310	153	110	90	78
28	81	471	230	415	161	424	358	318	157	115	96	74
29	110	494	290	374	-----	390	362	491	227	115	100	70
30	127	360	300	338	-----	410	294	410	2,800	110	90	66
31	103	-----	450	330	-----	442	-----	442	-----	105	86	-----
TOTAL	3,871	10,931	12,561	14,688	12,082	18,387	13,553	13,553	11,071	6,942	5,299	2,333
MEAN	125	364	405	474	432	593	452	437	369	224	171	77.8
MAX	449	867	1,230	1,680	3,170	2,400	1,050	980	2,800	980	850	110
MIN	67	94	230	195	161	164	220	212	153	105	86	62
CFSM	.95	2.76	3.07	3.59	3.27	4.49	3.42	3.31	2.80	1.70	1.30	.59
IN.	1.09	3.08	3.54	4.14	3.40	5.18	3.82	3.82	3.12	1.96	1.49	.66

CAL YR 1972 TOTAL 137,667 MEAN 376 MAX 3,290 MIN 62 CFSM 2.85 IN 38.80
WTR YR 1973 TOTAL 125,271 MEAN 343 MAX 3,170 MIN 62 CFSM 2.60 IN 35.30

PEAK DISCHARGE (BASE, 2,400 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-3	0345	8.03	5,300				
3-17	0745	7.13	4,050				
6-12	2130	7.49	4,530				
6-30	1230	8.84	6,570				

NOTE.--No gage-height record Dec. 26 to Jan. 16, Aug. 20 to Sept. 30. Discharge in cubic feet per second per square mile and runoff in inches may not represent natural flow because of regulation.

HUDSON RIVER BASIN

01333000 Green River at Williamstown, Mass.

LOCATION.--Lat 42°42'32", long 75°11'50", Berkshire County, 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.--September 1949 to current year.

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

AVERAGE DISCHARGE.--24 years, 78.8 ft³/s (2.232 m³/s), 25.12 in/yr (638 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,280 ft³/s (64.6 m³/s) Feb. 2 (gage height, 4.67 ft or 1.423 m), from rating curve extended as explained below; minimum, 7.8 ft³/s (0.221 m³/s) Oct. 5-7.

Period of record: Maximum discharge, 2,730 ft³/s (77.3 m³/s) June 15, 1969 (gage height, 4.94 ft or 1.506 m), 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, 5.94 ft (1.811 m) Sept. 12, 1960; minimum discharge, 3.1 ft³/s (0.088 m³/s) Sept. 20, 22, 24, 25, 1964.

Flood of Dec. 31, 1948, reached a stage of about 7.5 ft (2.3 m), from floodmarks.

REMARKS.--Records good. Slight diurnal fluctuation at times caused by mill above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	21	163	79+	73	43	126	53	96	407	17	14
2	3.9	43	133	372	600	70	240	51	87	229	117	12
3	5.6	104	128	248	918	76	190	58	75	171	61	11
4	8.3	6+	117	210	346	128	362	58	69	166	37	10
5	8.1	69	106	181	240	108	367	53	70	200	28	9.7
6	7.8	58	642	126	187	89	248	52	72	147	24	12
7	106	52	485	89	163	87	203	47	78	117	22	13
8	111	102	292	76	149	407	181	45	61	98	20	10
9	43	233	362	79	123	261	160	53	54	82	19	9.7
10	50	139	311	81	98	200	316	51	48	71	19	9.4
11	26	115	244	77	86	174	207	163	43	64	24	9.1
12	27	113	197	73	73	210	168	126	261	57	24	8.9
13	35	95	203	70	87	187	152	113	248	52	21	8.6
14	29	163	171	67	86	160	133	98	168	50	18	8.9
15	29	137	147	65	81	155	119	93	128	50	26	10
16	26	106	137	63	69	158	111	128	108	45	30	9.7
17	24	85	93	61	54	455	104	102	93	39	21	9.1
18	22	81	113	70	55	372	130	130	84	37	19	12
19	22	72	111	79	66	244	91	119	76	33	17	12
20	20	225	100	253	63	193	82	117	66	30	16	9.7
21	19	137	91	117	57	166	76	282	61	36	15	9.1
22	19	111	139	163	54	147	72	335	59	32	14	9.1
23	19	91	123	481	48	128	70	218	55	27	14	13
24	18	86	111	253	46	117	66	171	62	24	13	12
25	18	75	104	190	39	111	61	152	64	22	12	12
26	17	424	102	163	30	174	61	130	49	21	12	10
27	16	292	166	144	33	142	59	121	45	28	12	9.7
28	15	244	89	130	41	123	70	117	45	22	18	9.4
29	25	218	73	117	-----	117	63	137	86	20	17	8.9
30	24	171	73	91	-----	111	58	113	920	19	13	8.6
31	22	-----	214	73	-----	111	-----	111	-----	18	12	-----
TOTAL	875.7	3,934	5,487	5,056	3,965	5,224	4,316	3,597	3,431	2,414	732	310.6
MEAN	28.2	131	177	163	142	169	144	116	114	77.9	23.6	10.4
MAX	166	424	642	794	918	455	367	335	920	407	117	14
MIN	7.8	21	73	61	30	43	58	45	43	18	12	8.6
CFSM	.66	3.08	4.15	3.83	3.33	3.97	3.38	2.72	2.68	1.83	.55	.24
IN.	.76	3.44	4.79	4.42	3.46	4.56	3.77	3.14	3.00	2.11	.64	.27

CAL YR 1972 TOTAL 44,986.0 MEAN 123 MAX 642 MIN 3.0 CFSM 2.89 IN 39.28
 WTR YR 1973 TOTAL 39,342.3 MEAN 108 MAX 920 MIN 7.8 CFSM 2.54 IN 34.36

PEAK DISCHARGE (BASE, 850 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1815	4.47	1,980	3-17	1715	3.87	1,210
1-1	0730	4.11	1,480	4-4	2000	3.69	1,010
1-22	2245	3.65	970	6-12	1945	4.03	1,390
2-2	2245	4.67	2,280	6-30	1330	4.43	1,920
3-8	0945	3.55	875				

01333500 LITTLE HOOSIC RIVER AT PETERSBURG, N.Y.

LOCATION.--Lat 42°45'50", long 73°20'16", Rensselaer County, 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 km²).

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

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

AVERAGE DISCHARGE.--22 years, 90.5 ft³/s (2.563 m³/s) (21.91 in/yr (556.5 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 5,000 ft³/s (142 m³/s) June 30 (gage height, 9.20 ft (2.804 m)); minimum, 5.6 ft³/s (0.16 m³/s) Oct. 5-7 (gage height, 1.82 ft (0.555 m)).

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.

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).

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

REVISIONS (WATER YEARS).--WSP 1702: 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	22	238	701	120	37	120	59	103	630	16	15
2	6.3	45	199	451	584	55	268	55	94	358	86	10
3	6.0	120	186	306	760	76	235	59	81	259	61	8.6
4	6.0	80	163	271	390	161	323	61	76	216	33	8.6
5	5.6	96	161	230	290	135	404	55	70	208	25	8.1
6	5.6	83	680	170	224	107	309	54	65	166	21	8.1
7	83	73	680	140	191	116	263	51	70	138	18	8.1
8	120	126	424	130	175	324	233	48	61	118	16	7.5
9	51	290	455	110	146	256	202	51	52	103	15	7.5
10	34	202	354	90	135	207	291	51	47	88	14	7.0
11	26	163	286	80	100	183	233	191	41	78	15	7.0
12	25	149	235	70	90	188	197	156	163	71	15	7.0
13	35	124	244	60	86	168	173	163	244	61	14	7.0
14	28	221	199	50	82	149	151	139	175	53	13	6.4
15	25	202	170	45	70	146	134	137	131	53	16	6.4
16	23	158	158	40	62	142	120	188	107	49	19	6.4
17	22	137	130	40	60	247	111	142	94	43	15	6.4
18	21	124	120	42	58	253	103	230	83	39	14	7.5
19	20	114	118	52	54	216	96	210	75	33	13	7.5
20	19	331	107	90	50	188	85	202	65	31	12	6.4
21	18	218	98	100	43	166	78	437	59	33	11	6.4
22	17	178	170	199	41	149	74	522	56	31	11	7.0
23	17	149	146	424	38	131	72	354	52	27	10	8.6
24	17	135	131	247	36	118	68	268	47	24	10	8.1
25	16	124	124	191	34	111	64	213	43	22	9.5	7.0
26	15	650	126	166	31	173	60	175	39	21	8.6	6.4
27	14	474	133	146	31	144	60	156	36	27	8.6	6.4
28	14	382	111	135	30	126	76	142	34	21	13	7.0
29	27	339	94	124	-----	120	73	146	107	19	12	7.0
30	29	262	92	118	-----	114	64	124	1,490	18	10	6.4
31	24	-----	302	116	-----	111	-----	120	-----	17	12	-----
TOTAL	776.7	5,771	6,834	5,134	4,011	4,817	4,740	4,959	3,860	3,055	566.7	226.8
MEAN	25.1	192	220	166	143	155	158	160	129	98.5	18.3	7.56
MAX	120	650	680	701	760	324	404	522	1,490	630	86	15
MIN	5.6	22	92	40	30	37	60	48	34	17	8.6	6.4
CFSM	.45	3.42	3.92	2.96	2.55	2.76	2.82	2.85	2.30	1.76	.33	.13
IN.	.52	3.83	4.53	3.40	2.66	3.19	3.14	3.29	2.56	2.03	.38	.15

CAL YR 1972 TOTAL 52,738.1 MEAN 144 MAX 801 MIN 5.6 CFSM 2.57 IN 34.97
WTR YR 1973 TOTAL 44,751.2 MEAN 123 MAX 1,490 MIN 5.6 CFSM 2.19 IN 29.67

PEAK DISCHARGE (BASE, 1,250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-06	2000	5.97	1,810	6-30	1000	9.20	5,000
2-02	1900	5.89	1,740				

HUDSON RIVER BASIN

01334000 Walloomsac River near North Bennington, Vt.

LOCATION.--Lat 42°54'47", long 73°15'25", Bennington County, 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.--June 1931 to current year.

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

AVERAGE DISCHARGE.--42 years, 214 ft³/s (6.060 m³/s), 26.18 in/yr (665 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,540 ft³/s (214 m³/s) June 30 (gage height, 11.28 ft or 3.438 m), from rating curve extended as explained below; minimum, 43 ft³/s (1.22 m³/s) Sept. 13, 14; minimum daily, 45 ft³/s (1.27 m³/s) Sept. 13, 14, 30.

Period of record: Maximum discharge, 8,450 ft³/s (239 m³/s) Sept. 21, 1938 (gage height, 12.04 ft or 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, 10.49, 11.50, and 12.04 ft (3.088, 3.197, 3.505 and 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.

REMARKS.--Records good. Occasional diurnal fluctuation at low flow caused by mills above station; diurnal fluctuation greater prior to 1960. Diversion above station for municipal supply of Bennington and North Bennington since 1961. See table below for figures of diversion.

REVISIONS (WATER YEARS).--WSP 781: 1933(H).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	104	304	1,020	220	130	352	220	237	1,180	70	130
2	59	180	270	633	495	150	797	210	213	532	352	76
3	54	523	259	415	1,660	193	551	223	190	369	304	61
4	52	274	248	369	714	252	571	281	177	352	155	54
5	51	234	237	344	486	296	758	237	174	556	109	51
6	49	203	802	274	385	244	513	234	193	381	91	51
7	432	186	1,130	195	352	216	454	210	180	281	82	59
8	472	285	537	195	332	692	437	190	170	227	78	52
9	213	602	622	200	300	649	377	216	144	196	76	49
10	135	348	556	205	241	450	490	216	135	170	74	48
11	112	270	490	200	216	369	428	602	119	158	82	46
12	114	296	381	190	200	559	344	437	174	147	102	46
13	150	259	415	180	210	775	308	369	528	138	80	45
14	122	324	381	174	200	542	289	296	381	135	72	45
15	138	332	320	180	220	463	289	270	223	135	74	48
16	122	262	296	170	203	612	316	415	174	135	93	48
17	112	223	255	167	180	1,220	381	324	170	119	82	48
18	102	206	259	196	185	1,170	415	481	150	112	70	54
19	98	190	252	234	185	571	381	638	144	102	64	64
20	91	454	241	907	180	437	328	459	127	95	61	52
21	88	369	223	424	180	365	293	824	117	102	58	48
22	88	262	274	360	177	324	277	1,120	114	104	56	48
23	88	206	262	1,190	164	293	281	633	119	91	56	63
24	88	203	237	654	152	274	262	468	112	82	54	61
25	84	190	223	437	135	270	234	389	125	78	52	59
26	82	659	227	365	138	490	220	336	112	78	51	54
27	78	617	248	324	125	454	227	300	100	130	54	49
28	82	415	216	304	125	356	266	289	100	102	70	48
29	161	389	177	280	-----	320	316	316	281	86	64	46
30	150	316	174	230	-----	300	252	277	3,210	82	54	45
31	114	-----	304	220	-----	320	-----	270	-----	74	70	-----
TOTAL	3,857	9,381	10,820	11,236	8,360	13,856	11,417	11,750	8,393	6,529	2,810	1,648
MEAN	124	313	349	362	299	447	381	379	280	211	90.6	54.9
MAX	472	659	1,130	1,190	1,660	1,220	797	1,120	3,210	1,180	352	130
MIN	49	104	174	167	125	130	220	190	100	74	51	45
CFSM	1.12	2.82	3.14	3.26	2.69	4.03	3.43	3.41	2.52	1.90	.82	.49
IN.	1.29	3.14	3.63	3.77	2.80	4.64	3.83	3.94	2.81	2.19	.94	.55
(†)	3.06	4.00	4.93	4.96	4.90	4.76	5.25	4.58	3.94	4.56	3.87	3.53
CAL YR 1972	TOTAL 102,546	MEAN 280	MAX 1,940	MIN 42	CFSM 2.52	IN 34.37	(†)	4.01				
WTR YR 1973	TOTAL 100,057	MEAN 274	MAX 3,210	MIN 45	CFSM 2.47	IN 33.53	(†)	4.36				

PEAK DISCHARGE (BASE, 2,000 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	2230	6.13	2,400	3-17	2115	6.04	2,340
2-3	0430	5.77	2,140	6-30	1130	11.28	7,540

† Diversion, in cubic feet per second, for municipal supply of Bennington and North Bennington; records furnished by town of Bennington.

01334500 HOOSIC RIVER NEAR EAGLE BRIDGE, N.Y.

LOCATION.--Lat 42°56'19", long 73°22'39", Rensselaer County, on right bank 0.5 mi (0.8 km) upstream from Case Brook, 1.2 mi (1.9 km) downstream from Wallcoonsac 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.

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.

AVERAGE DISCHARGE.--61 years (1910-21, 1923-73), 911 ft³/s (25.80 m³/s) (24.23 in/yr (615.4 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 19,200 ft³/s (544 m³/s) June 30 (gage height, 12.84 ft (3.914 m)); maximum gage height, 14.35 ft (4.374 m) Feb. 22 (ice jam); minimum discharge, 117 ft³/s (3.31 m³/s) Sept. 12 (gage height, 1.96 ft (0.597 m)); minimum daily, 137 ft³/s (3.88 m³/s) Sept. 12.

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 high-water 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.

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

REVISIONS (WATER YEARS).--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).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	303	1,880	5,560	1,400	520	1,490	808	1,350	6,200	222	238
2	147	357	1,640	4,000	4,200	595	3,140	742	1,200	2,820	997	227
3	147	1,570	1,530	2,590	9,500	880	2,730	742	1,020	2,030	1,950	195
4	147	1,110	1,470	2,250	4,080	1,230	2,440	1,020	907	1,710	710	202
5	145	949	1,370	2,000	2,740	1,600	4,140	835	844	2,520	460	170
6	149	869	3,250	1,500	2,170	1,300	2,860	808	835	1,880	365	168
7	786	770	6,660	1,000	1,960	1,100	2,430	718	853	1,380	318	176
8	2,040	854	3,170	900	1,800	2,830	2,330	634	734	1,110	294	182
9	808	2,760	3,570	800	1,500	3,190	2,010	696	627	916	275	168
10	468	1,840	3,260	740	1,200	2,350	2,590	758	575	766	260	178
11	382	1,370	2,850	660	1,100	1,980	2,550	2,210	499	682	269	162
12	354	1,380	2,170	620	1,000	2,430	2,000	2,060	799	614	345	137
13	452	1,230	2,310	600	1,200	3,100	1,800	1,770	3,810	539	297	146
14	415	1,540	2,100	580	1,200	2,440	1,590	1,430	2,240	499	278	142
15	394	1,880	1,790	580	1,000	2,060	1,460	1,270	1,440	493	263	146
16	380	1,390	1,650	600	900	2,360	1,420	1,890	1,080	510	341	152
17	357	1,170	1,350	640	720	3,910	1,510	1,560	943	430	322	168
18	333	1,060	1,270	800	720	5,400	1,510	2,060	790	401	275	160
19	316	973	1,350	1,100	800	2,920	1,410	2,640	742	361	252	185
20	303	2,360	1,260	3,330	880	2,310	1,240	1,990	640	337	243	172
21	293	2,160	1,120	1,860	880	1,930	1,100	3,640	569	341	230	146
22	284	1,540	1,380	1,570	800	1,720	1,020	4,910	620	365	212	156
23	275	1,230	1,470	5,060	680	1,500	1,020	3,220	610	315	178	166
24	271	1,160	1,290	3,350	620	1,410	925	2,350	620	287	197	200
25	259	1,070	1,200	2,270	600	1,370	835	2,040	640	266	187	182
26	250	3,530	1,220	1,920	540	2,090	766	1,750	493	257	185	197
27	244	3,990	1,330	1,700	520	2,130	862	1,530	420	322	202	142
28	241	2,580	1,170	1,570	500	1,670	1,040	1,470	410	315	210	158
29	323	2,620	973	1,400	-----	1,490	1,190	1,720	696	266	227	152
30	448	2,000	924	1,050	-----	1,410	961	1,630	8,880	254	225	148
31	368	-----	1,790	980	-----	1,490	-----	1,530	-----	230	200	-----
TOTAL	11,926	47,615	59,767	53,580	45,210	62,715	52,369	52,431	35,886	29,416	10,989	5,121
MEAN	385	1,587	1,928	1,728	1,615	2,023	1,746	1,691	1,196	949	354	171
MAX	2,040	3,990	6,660	5,560	9,500	5,400	4,140	4,910	8,880	6,200	1,950	238
MIN	145	303	924	580	500	520	766	634	410	230	178	137
CFSM	.75	3.11	3.78	3.39	3.17	3.97	3.42	3.32	2.35	1.86	.69	.34
IN.	.87	3.47	4.36	3.91	3.30	4.57	3.82	3.82	2.62	2.15	.80	.37

CAL YR 1972 TOTAL 528,651 MEAN 1,444 MAX 8,730 MIN 144 CFSM 2.83 IN 38.56
WTR YR 1973 TOTAL 467,025 MEAN 1,280 MAX 9,500 MIN 137 CFSM 2.51 IN 34.07

PEAK DISCHARGE (BASE, 7,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-07	0115	9.57	9,890	3-18	0045	8.75	8,120
2-03	0745	10.27	11,600	6-30	1715	12.84	19,200

HUDSON RIVER BASIN

01336000 MOHAWK RIVER BELOW DELTA DAM, NEAR ROME, N.Y.

LOCATION.--Lat 43°15'52", long 75°26'12", Oneida County, 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.

DRAINAGE AREA.--150 mi² (389 km²).

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

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.

AVERAGE DISCHARGE.--52 years, 374 ft³/s (10.59 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 2,480 ft³/s (70.2 m³/s) Apr. 5 (gage height, 6.27 ft (1.911 m)); minimum, 142 ft³/s (4.02 m³/s) Aug. 21-23 (gage height, 1.64 ft (0.500 m)); minimum daily 142 ft³/s (4.02 m³/s) Aug. 22.

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.

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 (79.0 hm³)) except for Mar. 19 to June 15 and June 22 to July 8 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.

REVISIONS.--WSP 851: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	237	235	267	553	441	186	436	363	616	345	240	193
2	234	262	248	488	333	184	1,350	335	466	295	240	193
3	233	357	248	474	324	170	1,710	378	341	236	284	193
4	232	367	248	482	253	207	1,450	454	278	237	348	193
5	232	378	248	482	242	183	2,280	398	249	317	306	181
6	239	363	329	471	240	181	1,550	337	461	292	275	175
7	243	359	445	530	240	198	1,030	284	931	239	243	174
8	243	444	388	861	240	231	739	283	787	220	226	174
9	242	466	388	1,020	660	190	544	337	509	231	218	174
10	242	440	388	1,020	902	183	504	504	351	244	210	174
11	242	1,000	344	1,020	898	183	554	514	268	243	200	172
12	242	1,190	304	1,000	888	197	498	652	268	243	200	189
13	240	1,180	316	1,000	884	183	458	657	251	242	200	196
14	238	1,180	316	995	879	171	430	497	245	259	200	197
15	240	1,180	381	985	869	169	431	399	247	270	171	198
16	238	1,160	449	980	869	282	400	348	240	270	156	196
17	239	1,130	449	974	860	1,020	351	307	232	259	156	195
18	238	1,100	449	971	846	225	318	602	229	253	154	199
19	237	1,100	445	986	842	278	291	927	228	253	154	197
20	228	1,060	445	1,010	837	381	266	761	214	253	154	195
21	226	316	444	992	832	404	241	807	226	253	148	195
22	226	281	467	990	823	377	248	691	413	251	142	196
23	231	281	468	1,030	815	359	258	506	379	236	148	198
24	232	281	478	1,000	489	339	237	385	321	229	150	197
25	229	281	486	1,050	293	340	233	312	259	229	152	195
26	227	313	489	1,090	290	434	241	264	212	229	152	209
27	228	310	492	1,080	290	450	238	239	246	229	152	221
28	235	296	485	1,080	259	377	378	272	227	229	177	221
29	264	293	479	1,080	-----	325	521	370	319	229	193	221
30	247	287	461	807	-----	293	450	439	415	234	193	221
31	238	-----	504	443	-----	273	-----	535	-----	240	193	-----
TOTAL	7,342	17,890	12,348	26,944	16,638	8,973	18,635	14,157	10,428	7,789	6,135	5,832
MEAN	237	596	398	869	594	289	621	457	348	251	198	194
MAX	264	1,190	504	1,090	902	1,020	2,280	927	931	345	348	221
MIN	226	235	248	443	240	169	233	239	212	220	142	172

CAL YR 1972 TOTAL 187,266 MEAN 512 MAX 4,560 MIN 151 MEAN \neq 504 CFSM \neq 3.36 IN \neq 45.74
WTR YR 1973 TOTAL 153,111 MEAN 419 MAX 2,280 MIN 142 MEAN \neq 412 CFSM \neq 2.75 IN \neq 37.31

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

01346000 WEST CANADA CREEK AT KAST BRIDGE, N.Y.

LOCATION(revised).--Lat 43°04'08", long 74°59'26", Herkimer County, 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 heights 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.

AVERAGE DISCHARGE.--53 years (1920-73), 1,295 ft³/s (36.67 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 13,700 ft³/s (388 m³/s) Nov. 9 (gage height, 6.60 ft (2.012 m)); minimum, 268 ft³/s (7.59 m³/s) Oct. 5, 19 (gage height, 1.54 ft (0.469 m)); minimum daily discharge, 319 ft³/s (9.03 m³/s) Aug. 5.
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.

REMARKS.--Records fair. Since March 1914, flow regulated by Hinckley Reservoir, 31 mi (50 km) above station (usable capacity, 3,320 mil ft³ (94.0 hm³)) except for Nov. 10-21, 29, 30, Dec. 7-21, Jan. 2-8, Apr. 5 to June 12, June 30 to July 9 when reservoir spilled. Diurnal fluctuation at low and medium flow caused by power-plants 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	696	1,100	1,510	5,660	2,600	1,080	1,580	1,340	2,420	1,870	520	344
2	625	1,700	1,560	4,200	2,850	992	3,290	1,250	1,860	2,460	580	364
3	615	2,500	1,310	3,820	5,690	1,340	4,800	1,290	1,350	1,820	544	330
4	538	2,200	1,430	2,980	2,980	2,200	5,530	1,400	1,140	1,150	430	385
5	625	1,900	1,460	2,440	2,580	1,840	5,990	1,500	1,030	1,000	319	430
6	625	1,600	2,780	1,840	2,400	1,580	4,560	1,320	1,110	896	496	508
7	686	1,500	3,000	1,380	2,380	2,090	3,760	1,170	1,610	684	502	502
8	458	4,030	3,110	1,420	2,360	3,270	2,760	1,000	1,500	800	478	405
9	665	7,110	3,180	1,730	2,310	2,200	2,440	1,370	1,320	770	448	352
10	707	2,980	2,620	1,820	2,420	2,200	2,520	2,000	1,110	720	676	348
11	511	3,610	2,230	2,130	2,270	2,230	2,480	2,420	1,020	628	599	496
12	675	3,520	1,580	2,050	2,050	2,870	2,230	2,780	1,290	720	390	352
13	625	2,680	2,070	1,730	2,110	3,310	1,780	2,830	1,350	514	372	322
14	576	2,870	1,820	1,750	2,220	3,160	1,560	2,360	1,290	750	454	508
15	493	2,320	1,840	1,710	2,040	3,130	1,480	2,050	1,050	636	502	526
16	625	1,780	1,380	1,680	1,980	3,180	1,400	1,870	848	550	420	376
17	665	1,500	1,190	1,580	1,960	4,870	1,560	1,730	800	599	395	472
18	675	1,340	908	1,820	2,090	4,930	2,020	4,140	884	628	442	720
19	615	1,510	1,220	2,380	1,960	3,590	2,480	8,430	896	544	360	660
20	585	2,230	1,260	3,160	1,640	3,330	2,620	7,240	896	606	385	532
21	538	1,890	1,450	2,180	1,780	3,220	2,360	6,220	730	660	436	496
22	576	1,580	2,000	2,400	1,350	3,180	2,140	4,500	1,070	532	390	564
23	707	1,450	1,930	3,890	1,250	3,090	2,050	3,520	790	532	430	520
24	818	1,290	1,780	2,560	1,280	3,070	2,000	3,110	750	606	395	684
25	860	1,380	1,840	2,220	1,190	2,890	1,910	2,850	872	578	420	740
26	600	2,870	1,710	2,740	1,190	3,540	1,320	1,930	824	620	380	760
27	700	2,440	1,680	2,520	1,240	2,940	1,260	2,400	652	599	330	700
28	600	1,750	1,590	2,640	1,020	2,460	1,310	2,050	812	571	385	620
29	900	1,540	1,590	2,560	-----	2,320	1,250	3,240	1,690	490	360	660
30	1,300	1,540	1,560	2,540	-----	1,950	1,220	3,240	1,320	600	364	800
31	1,000	-----	2,890	2,440	-----	1,350	-----	3,180	-----	560	395	-----
TOTAL	20,884	67,710	57,478	75,970	59,190	83,402	73,660	85,730	34,284	24,693	13,597	15,476
MEAN	674	2,257	1,854	2,451	2,114	2,690	2,455	2,765	1,143	797	439	516
MAX	1,300	7,110	3,180	5,660	5,690	4,930	5,990	8,430	2,420	2,460	676	800
MIN	458	1,100	908	1,380	1,020	992	1,220	1,000	652	490	319	322
CAL YR 1972	TOTAL 727,717	MEAN 1,988	MAX 13,000	MIN 458								
WTR YR 1973	TOTAL 612,074	MEAN 1,677	MAX 8,430	MIN 319								

HUDSON RIVER BASIN

01347000 MOHAWK RIVER NEAR LITTLE FALLS, N.Y.

LOCATION.--Lat 43°00'52", long 74°46'48", Herkimer County, 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.

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

AVERAGE DISCHARGE.--46 years, 2,728 ft³/s (77.26 m³/s).

EXTREMES.--Current year: Maximum discharge (river channel only), 22,300 ft³/s (632 m³/s) Nov. 9 (gage height, 16.19 ft (4.935 m)); minimum (river channel only), 550 ft³/s (15.6 m³/s) Sept. 13 (gage height, 4.55 ft (1.387 m)); minimum daily (river channel only), 605 ft³/s (17.1 m³/s) Aug. 27.

Period of record: Maximum discharge (river channel only), 27,200 ft³/s (770 m³/s) Mar. 5, 1964 (gage height, 18.33 ft (5.587 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 (1.143 m)); minimum daily (including canal), probably not less than 463 ft³/s (13.1 m³/s) Sept. 2, 1934.

REMARKS.--Records 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 (173 hm³)) (see Hudson River basin, Reservoirs in)

REVISIONS (WATER YEARS).--WSP 741: 1929(M), Drainage area. WSP 1302: 1901, 1932(M). WSP 1432: 1928-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,710	1,860	2,760	14,300	4,270	1,950	3,130	2,660	4,050	3,060	1,110	858
2	1,310	2,390	2,770	12,900	4,020	2,030	7,730	2,540	3,810	3,520	1,110	846
3	1,280	6,590	2,500	11,200	10,900	2,590	11,200	2,690	2,900	2,750	1,370	689
4	1,200	4,880	2,890	8,090	8,850	4,940	11,600	3,210	2,610	1,990	1,240	762
5	1,140	4,760	2,680	6,560	7,230	6,420	15,900	3,370	2,540	1,800	897	903
6	1,140	3,970	5,460	5,130	4,940	5,570	13,600	2,770	2,400	1,830	982	989
7	1,320	2,820	9,310	4,610	4,220	5,610	11,900	2,270	3,340	1,580	1,140	1,420
8	1,490	5,370	8,350	3,990	3,990	8,170	8,710	2,090	3,710	1,400	1,090	1,010
9	1,300	17,700	6,590	4,270	3,680	6,870	5,630	2,430	3,030	1,400	1,010	890
10	1,350	10,300	5,350	4,350	4,000	5,490	5,440	5,120	2,480	1,370	1,280	689
11	1,210	9,170	4,670	4,000	3,990	4,880	6,350	5,260	1,950	1,250	1,350	878
12	1,240	7,550	3,370	3,840	3,760	6,200	5,630	6,100	2,310	1,370	1,100	809
13	1,250	5,220	3,670	3,650	3,870	7,330	4,490	6,500	2,890	1,120	834	610
14	1,290	5,610	5,080	3,570	3,710	6,250	3,840	5,080	2,550	1,320	956	822
15	1,220	5,850	4,440	3,590	3,750	5,660	3,600	3,750	2,130	1,310	1,010	1,150
16	1,220	5,100	3,240	3,590	3,510	5,700	2,630	3,790	1,800	1,200	1,180	1,030
17	1,310	3,970	3,300	3,600	3,460	7,690	3,090	3,250	1,710	1,280	1,090	852
18	1,240	3,540	3,310	4,150	3,490	11,400	3,490	8,490	1,690	1,290	975	1,220
19	1,240	3,450	3,300	5,420	3,490	8,810	3,870	14,100	1,800	1,190	969	1,500
20	1,140	4,850	3,300	8,270	3,460	6,870	4,160	12,600	1,740	1,200	834	1,180
21	1,090	4,780	3,240	6,040	3,570	5,830	3,670	12,000	1,550	1,370	989	1,020
22	1,110	2,910	4,400	5,280	3,060	5,510	3,340	9,470	1,840	1,200	923	969
23	1,230	2,580	5,870	9,990	2,900	5,150	3,240	6,810	1,850	1,080	910	1,150
24	1,720	2,320	5,610	7,830	2,770	4,970	3,190	4,620	1,820	1,210	884	1,210
25	1,600	2,370	5,400	6,290	2,430	4,730	3,000	3,950	1,860	1,200	936	1,130
26	1,550	6,140	5,330	5,890	2,120	6,010	2,350	2,800	1,770	1,170	871	1,200
27	1,280	7,290	5,630	5,220	2,130	5,910	2,270	3,150	1,400	1,240	605	1,210
28	1,330	6,040	5,150	5,260	1,930	4,620	2,500	2,930	1,480	1,240	822	1,100
29	2,410	4,160	4,350	5,100	-----	4,110	3,010	6,140	3,940	1,120	846	1,070
30	3,480	3,190	3,790	4,660	-----	3,550	2,830	5,040	3,830	1,140	828	1,080
31	2,530	-----	5,550	4,270	-----	2,790	-----	4,950	-----	1,130	903	-----
TOTAL	44,930	156,730	140,660	184,910	113,500	173,610	165,390	159,930	72,780	46,330	31,044	30,246
MEAN	1,449	5,224	4,537	5,965	4,054	5,600	5,513	5,159	2,426	1,495	1,001	1,008
MAX	3,480	17,700	9,310	14,300	10,900	11,400	15,900	14,100	4,050	3,520	1,370	1,500
MIN	1,090	1,860	2,500	3,570	1,930	1,950	2,270	2,090	1,400	1,080	605	610
(#)	20.5	9.15	2.56	0	0	0	3.66	14.6	23.8	26.4	24.5	21.6

CAL YR 1972 TOTAL 1,435,281 MEAN 3,922 MAX 17,700 MIN 821 # 10.9
WTR YR 1973 TOTAL 1,320,060 MEAN 3,617 MAX 17,700 MIN 605 # 11.3

PEAK DISCHARGE (BASE, 16,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	0700	16.19	22,300	2-03	0530	13.61	16,200
1-01	0800	13.96	17,100	4-05	0030	14.84	19,200

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

01348000 EAST CANADA CREEK AT EAST CREEK, N.Y.

LOCATION.--Lat 43°01'00", long 74°44'28", Herkimer County, 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.

AVERAGE DISCHARGE.--27 years (1946-73), 654 ft³/s (18.52 m³/s).

EXTREMES.--Current year: Maximum discharge, 9,660 ft³/s (274 m³/s) Nov. 9 (gage height, 6.65 ft (2.027 m)); minimum, 0.72 ft³/s (0.020 m³/s) Sept. 23, 24 (gage height, 0.52 ft (0.158 m)); minimum daily, 0.87 ft³/s (0.025 m³/s) Sept. 23, 24.

Period of record: Maximum discharge, 12,200 ft³/s (346 m³/s) Mar. 30, 1951 (gage height, 7.03 ft (2.143 m)); minimum, 0.6 ft³/s (0.017 m³/s) Sept. 7, 1947; minimum gage height, 0.51 ft (0.155 m) Oct. 13, 14, 1968; minimum daily discharge, 0.7 ft³/s (0.020 m³/s) Oct. 13-16, 1968.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	335	737	993	3,250	448	351	1,550	605	936	2,040	138	46
2	324	803	821	3,330	778	480	5,690	448	753	1,160	267	31
3	473	1,040	590	2,000	1,290	392	4,600	533	527	803	32	30
4	271	1,460	704	1,560	1,610	38	3,190	448	554	534	29	149
5	173	1,210	562	1,340	1,610	1,110	4,760	398	554	350	29	30
6	242	1,250	605	1,000	1,070	955	2,940	416	650	299	29	85
7	500	909	1,730	658	918	1,070	2,070	507	642	271	29	76
8	34	1,010	1,810	704	838	2,430	1,730	612	533	40	40	33
9	228	6,150	1,520	507	821	3,710	1,520	712	242	317	125	32
10	256	3,150	1,270	340	363	2,680	1,420	1,360	34	274	51	32
11	291	1,890	1,110	533	242	1,920	1,640	1,350	467	92	30	32
12	324	1,380	936	665	753	2,890	1,280	1,550	513	31	30	65
13	398	1,130	1,040	533	173	4,110	1,020	1,690	527	30	109	34
14	215	1,090	1,080	261	500	2,820	955	1,470	392	30	74	39
15	161	1,080	1,180	513	467	1,870	821	1,060	410	30	93	76
16	296	927	829	576	448	1,960	918	1,200	34	31	133	132
17	193	688	569	329	435	3,650	945	1,070	34	33	115	188
18	423	612	650	569	35	6,600	1,310	4,060	256	185	30	435
19	493	612	576	696	386	2,920	1,200	5,110	286	147	31	429
20	467	873	665	1,220	423	1,960	1,030	2,800	302	152	133	817
21	307	945	673	983	346	1,580	900	2,560	177	176	132	707
22	276	688	803	1,130	410	1,240	642	1,870	486	37	111	271
23	410	520	1,230	1,990	291	964	778	1,410	27	30	177	.87
24	351	507	964	2,500	296	927	712	993	27	93	127	.87
25	392	533	1,000	1,800	423	900	540	864	154	212	30	199
26	467	864	882	1,340	486	1,350	435	821	189	254	30	142
27	473	1,720	745	1,080	233	1,720	688	778	76	108	78	134
28	351	1,740	864	864	256	1,690	605	864	318	29	83	128
29	712	1,320	704	945	-----	1,490	351	1,070	1,560	28	76	23
30	1,430	891	729	448	-----	1,220	500	1,760	3,130	155	188	53
31	1,020	-----	753	605	-----	1,120	-----	1,440	-----	77	155	-----
TOTAL	12,286	37,729	28,587	34,269	16,349	58,117	46,740	41,829	14,790	8,048	2,734	4,449.74
MEAN	396	1,258	922	1,105	584	1,875	1,558	1,349	493	260	88.2	148
MAX	1,430	6,150	1,810	3,330	1,610	6,600	5,690	5,110	3,130	2,040	267	817
MIN	34	507	562	261	35	38	351	398	27	28	29	.87

CAL YR 1972 TOTAL 329,848.40 MEAN 901 MAX 6,240 MIN 2.6
WTR YR 1973 TOTAL 305,927.74 MEAN 838 MAX 6,600 MIN .87

PEAK DISCHARGE (BASE, 7,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	1015	6.65	9,660	5-18	1900	6.33	8,390
3-18	0115	6.43	8,780				

01349000 OTSQUAGO CREEK AT FORT PLAIN, N.Y.

LOCATION.--Lat 42°55'46", long 74°37'35", Montgomery County, 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 303.16 ft (92.403 m) above mean sea level.

AVERAGE DISCHARGE.--24 years, 79.6 ft³/s (2.254 m³/s) (18.26 in/yr (463.8 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 5,470 ft³/s (155 m³/s) Nov. 9 (gage height, 7.17 ft (2.185 m)); minimum, 4.4 ft³/s (0.12 m³/s) Aug. 26-28 (gage height, 0.07 ft (0.021 m)).

Period of record: Maximum discharge, 9,030 ft³/s (256 m³/s) Aug. 31, 1950 (gage height, 8.24 ft (2.512 m)), from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of slope-area measurement of peak flow; maximum gage height, 8.62 ft (2.627 m) Nov. 28, 1959; minimum discharge, 0.6 ft³/s (0.017 m³/s) Nov. 30, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	12	80	1,330	50	16	458	37	107	117	6.0	5.6
2	5.6	100	76	402	100	130	1,270	41	101	55	10	5.2
3	5.4	453	78	150	420	470	810	63	61	38	11	5.2
4	5.4	85	84	120	130	410	1,080	71	71	31	6.9	4.8
5	5.1	268	96	120	78	561	1,030	52	68	25	5.6	4.4
6	5.1	103	709	70	60	404	482	42	61	20	5.2	7.4
7	17	51	543	43	50	532	293	34	66	17	5.2	8.2
8	24	487	120	35	46	917	192	30	41	16	5.2	5.2
9	13	2,190	140	30	43	359	135	64	32	14	5.6	4.8
10	9.5	253	275	35	43	242	335	124	26	13	7.8	4.8
11	7.9	153	238	39	40	247	250	148	22	12	5.6	4.8
12	7.3	181	86	41	56	475	137	135	24	11	5.6	5.2
13	7.3	107	210	38	90	321	107	105	53	11	5.2	4.4
14	7.0	288	140	35	110	220	87	67	29	10	5.2	6.5
15	9.5	250	86	34	100	249	77	58	20	11	8.2	8.7
16	9.5	160	80	42	70	257	67	59	19	11	9.6	8.2
17	9.2	140	74	100	60	759	56	70	18	9.1	6.5	5.2
18	8.6	110	70	700	64	370	53	1,100	19	8.2	5.6	12
19	8.6	90	72	96	56	160	50	325	20	7.8	6.5	8.7
20	8.3	140	70	200	52	100	46	297	16	7.4	5.6	5.2
21	7.9	197	70	122	45	64	41	645	14	7.8	7.4	4.8
22	8.3	103	240	269	35	45	39	205	14	7.8	5.6	4.3
23	10	64	345	740	30	44	47	122	13	6.9	5.6	5.6
24	13	56	250	235	26	47	41	88	12	6.5	5.2	5.6
25	12	58	235	122	22	58	34	70	12	6.0	4.7	4.7
26	10	1,170	262	84	19	277	33	58	11	6.5	4.7	4.3
27	9.5	460	278	76	15	146	35	63	10	8.2	4.8	3.8
28	9.9	312	130	64	13	87	80	94	9.6	6.9	4.8	3.8
29	33	150	90	50	-----	73	66	128	491	7.4	4.8	3.8
30	41	92	90	45	-----	67	45	183	360	6.5	4.4	3.8
31	17	-----	520	40	-----	72	-----	217	-----	5.6	5.2	-----
TOTAL	351.4	8,283	5,837	5,507	1,923	8,179	7,476	4,795	1,820.6	520.6	189.3	169.0
MEAN	11.3	276	188	178	68.7	264	249	155	60.7	16.8	6.11	5.63
MAX	41	2,190	709	1,330	420	917	1,270	1,100	491	117	11	12
MIN	5.1	12	70	30	13	16	33	30	9.6	5.6	4.4	3.8
CFSM	.19	4.66	3.18	3.01	1.16	4.46	4.21	2.62	1.03	.28	.10	.10
IN.	.22	5.20	3.67	3.46	1.21	5.14	4.70	3.01	1.14	.33	.12	.11

CAL YR 1972 TOTAL 49,961.0 MEAN 137 MAX 2,190 MIN 5.1 CFSM 2.31 IN 31.39
WTR YR 1973 TOTAL 45,050.9 MEAN 123 MAX 2,190 MIN 3.8 CFSM 2.08 IN 28.31

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	0400	7.17	5,470	1-01	0630	4.76	2,180
11-26	1500	5.20	2,650	4-04	2015	6.70	4,660

01350000 SCHOHARIE CREEK AT PRATTSVILLE, N.Y.

LOCATION.--Lat 42°19'15", long 74°26'10", Greene County, 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.

DRAINAGE AREA.--236 mi² (611 km²).

PERIOD OF RECORD.--November 1902 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 1,131.57 ft (344.902 m) above mean sea level. Prior to Oct. 1, 1915, nonrecording gage, and Oct. 1, 1915, to July 17, 1936, water-stage recorder, at old highway bridge 80 ft (24 m) upstream, and July 18, 1936 to July 15, 1954, water-stage recorder at site 0.2 mi (0.3 km) downstream, all at datum 1.56 ft (0.475 m) lower than present datum.

AVERAGE DISCHARGE.--70 years (1903-73), 451 ft³/s (12.77 m³/s) (25.95 in/yr (659.1 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 14,400 ft³/s (408 m³/s) June 30 (gage height, 10.41 ft (3.173 m)), from rating curve extended as explained below; maximum gage height, 10.76 ft (3.280 m) Jan. 23 (ice jam), minimum discharge, 16 ft³/s (0.45 m³/s) Oct. 4, 6; minimum gage height, 2.29 ft (0.698 m) Sept. 14.

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 8,800 ft³/s (249 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 4.8 ft³/s (0.14 m³/s) Sept. 22, 1964.

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

REVISIONS (WATER YEARS).--WSP 351: Drainage area. WSP 1432: 1937-38.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	134	904	4,230	2,200	300	634	584	489	3,030	54	30
2	19	174	739	2,070	2,500	280	3,420	524	456	1,460	412	46
3	18	452	711	1,260	1,500	310	2,060	489	380	965	390	38
4	17	345	676	1,100	1,210	340	2,020	451	370	732	198	32
5	19	370	832	929	848	360	2,710	407	345	1,040	141	27
6	17	330	3,750	800	641	345	1,550	370	345	655	105	38
7	513	271	3,970	780	572	305	1,200	325	1,360	484	86	56
8	739	2,450	1,920	740	530	965	1,000	290	648	385	76	38
9	271	7,780	2,550	720	434	808	816	320	462	320	67	32
10	174	2,440	1,780	700	400	584	1,410	365	365	268	60	27
11	130	1,460	1,390	680	380	506	1,220	1,650	295	229	67	24
12	113	1,160	1,060	660	420	627	912	938	288	198	74	23
13	113	920	1,150	660	500	641	753	704	544	175	67	23
14	98	965	929	680	470	627	641	584	500	154	56	23
15	98	965	760	700	480	880	572	560	330	154	102	33
16	91	768	690	800	430	956	512	938	272	158	137	33
17	84	662	660	1,200	350	2,310	473	662	254	131	111	29
18	76	572	620	1,800	430	2,230	462	3,460	254	117	89	30
19	72	512	580	3,000	480	1,190	484	1,920	263	102	81	46
20	68	1,290	560	2,800	490	864	572	1,540	213	94	67	40
21	64	1,040	540	2,300	430	697	462	3,260	190	105	60	32
22	62	732	1,100	2,400	410	602	418	1,980	213	108	56	29
23	60	602	904	5,000	390	512	390	1,320	190	86	50	50
24	60	536	697	739	410	462	375	1,030	187	74	46	56
25	58	484	627	484	380	423	345	808	201	67	44	44
26	54	3,480	608	434	340	590	340	669	198	63	40	38
27	52	2,580	560	390	300	584	467	718	154	83	38	35
28	52	1,600	495	370	290	462	1,320	614	434	81	36	32
29	164	1,470	401	390	-----	412	920	711	3,650	76	35	30
30	208	1,010	401	800	-----	380	690	608	8,520	65	30	27
31	160	-----	1,950	1,500	-----	370	-----	572	-----	58	27	-----
TOTAL	3,743	37,554	34,514	41,116	18,215	20,922	29,148	29,371	22,370	11,717	2,902	1,041
MEAN	121	1,252	1,113	1,326	651	675	972	947	746	378	93.6	34.7
MAX	739	7,780	3,970	5,000	2,500	2,310	3,420	3,460	8,520	3,030	412	56
MIN	17	134	401	370	290	280	340	290	154	58	27	23
CFSM	.51	5.31	4.72	5.62	2.76	2.86	4.12	4.01	3.16	1.60	.40	.15
IN.	.59	5.92	5.44	6.48	2.87	3.30	4.59	4.63	3.53	1.85	.46	.16

CAL YR 1972 TOTAL 253,116 MEAN 692 MAX 8,500 MIN 16 CFSM 2.93 IN 39.90
WTR YR 1973 TOTAL 252,613 MEAN 692 MAX 8,520 MIN 17 CFSM 2.93 IN 39.82

PEAK DISCHARGE (BASE, 4,400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-08	2345	9.87	11,600	4-02	0445	6.87	4,640
11-26	1600	8.49	7,820	4-04	2230	7.09	5,090
12-06	2045	8.98	9,050	5-18	0830	7.33	5,620
1-01	0730	7.20	5,090	6-30	0715	10.41	14,400
3-17	1830	7.17	5,270				

01350100 SCHOHARIE RESERVOIR NEAR GRAND GORGE, N.Y.

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

DRAINAGE AREA.--314 mi² (813 km²).

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

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

EXTREMES.--Current year: Maximum elevation observed, 1,132.22 ft (345.101 m) June 30 (contents, 20,446 mil gal (77.39 hm³)); minimum observed, 1,069.84 ft (326.087 m) Sept. 30 (contents, 2,822 mil gal (10.68 hm³)).

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)).

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 ft (320.040 m), 1,968 mil gal (7.449 hm³). Figures given herein represent total contents. Except for periods of spilling, reservoir impounds water for diversion through Shandaken Tunnel into Esopus Creek to Ashokan Reservoir, for New York City water supply.

COOPERATION.--Daily observations and capacity table furnished by City of New York, Department of Water Resources.

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

1,062.0	1,520	1,090.0	7,407
1,065.0	1,975	1,100.0	10,080
1,070.0	2,850	1,120.0	16,100
1,080.0	4,969	1,133.0	20,750

ELEVATION, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			1,130.34	1,130.15	1,130.09	1,130.35	1,130.35	1,130.23	1,131.04	1,120.73	1,101.51	
2			1,130.80	1,130.45	1,130.14	1,130.97	1,130.33	1,130.21	1,130.63	1,120.25	1,100.19	
3			1,130.55	1,131.07	1,130.19	1,130.79	1,130.31	1,130.17	1,130.50	1,120.60	1,098.87	
4			1,130.47	1,130.48	1,130.24	1,130.76	1,130.33	1,130.16	1,130.41	1,120.39	1,097.57	
5			1,130.49	1,130.37	1,130.33	1,130.99	1,130.31	1,130.16	1,130.52	1,119.95	1,096.28	
6			1,130.37	1,130.30	1,130.27	1,130.70	1,130.29	1,130.12	1,130.40	1,119.38	1,095.10	
7			1,130.23	1,130.28	1,130.20	1,130.60	1,130.26	1,130.41	1,130.32	1,118.78	1,093.85	
8			1,130.17	1,130.25	1,130.47	1,130.52	1,130.22	1,130.27	1,130.25	1,118.14	1,092.72	
9			1,130.15	1,130.22	1,130.49	1,130.49	1,130.20	1,130.21	1,130.11	1,117.48	1,091.56	
10			1,130.13	1,130.17	1,130.36	1,130.57	1,130.26	1,130.16	1,130.08	1,116.81	1,090.41	
11			1,130.12	1,130.16	1,130.32	1,130.60	1,130.60	1,130.12	1,130.07	1,116.16	1,089.22	
12			1,130.11	1,130.11	1,130.34	1,130.52	1,130.46	1,130.12	1,130.05	1,115.52	1,088.01	
13			1,130.10	1,130.10	1,130.34	1,130.45	1,130.40	1,130.24	1,130.04	1,114.84	1,086.92	
14			1,130.10	1,130.10	1,130.40	1,130.41	1,130.34	1,130.26	1,130.03	1,114.17	1,085.88	
15			1,130.12	1,130.13	1,130.48	1,130.35	1,130.37	1,130.17	1,130.03	1,113.58	1,084.90	
16			1,130.12	1,130.15	1,130.51	1,130.34	1,130.50	1,130.14	1,130.01	1,113.17	1,083.96	
17			1,130.12	1,130.11	1,130.73	1,130.32	1,130.39	1,130.12	1,129.73	1,112.64	1,082.98	
18			1,130.13	1,130.08	1,130.89	1,130.32	1,131.05	1,130.13	1,129.24	1,112.10	1,081.86	
19			1,130.14	1,130.08	1,130.74	1,130.34	1,130.79	1,130.14	1,128.68	1,111.82	1,080.67	
20			1,130.32	1,130.10	1,130.60	1,130.37	1,130.65	1,130.04	1,128.07	1,111.20	1,079.53	
21			1,130.16	1,130.13	1,130.59	1,130.35	1,131.06	1,129.83	1,127.52	1,110.83	1,078.31	
22			1,130.18	1,130.14	1,130.57	1,130.30	1,130.79	1,129.52	1,126.94	1,110.15	1,077.08	
23			1,130.56	1,130.12	1,130.52	1,130.30	1,130.60	1,129.18	1,126.37	1,110.16	1,075.89	
24			1,130.29	1,130.10	1,130.45	1,130.27	1,130.50	1,128.83	1,125.74	1,109.81	1,074.67	
25			1,130.19	1,130.09	1,130.36	1,130.25	1,130.41	1,128.47	1,125.08	1,109.44	1,073.93	
26			1,130.16	1,130.06	1,130.42	1,130.24	1,130.37	1,128.13	1,124.41	1,109.03	1,073.22	
27			1,130.15	1,130.08	1,130.44	1,130.27	1,130.35	1,127.86	1,123.88	1,108.62	1,072.50	
28			1,130.14	1,130.07	1,130.35	1,130.60	1,130.31	1,127.40	1,123.30	1,107.45	1,071.77	
29			1,130.17	-----	1,130.29	1,130.54	1,130.33	1,128.58	1,122.74	1,106.00	1,071.03	
30			1,130.15	-----	1,130.26	1,130.40	1,130.29	1,132.22	1,122.10	1,104.30	1,070.27	
31		-----	1,130.16	-----	1,130.27	-----	1,130.25	-----	1,121.42	1,102.89	-----	
MEAN	-	-	-	1,130.24	1,130.20	1,130.41	1,130.48	1,130.44	1,129.79	1,128.06	1,113.43	1,084.69
MAX	-	-	-	1,130.80	1,131.07	1,130.89	1,130.99	1,131.06	1,132.22	1,131.04	1,120.73	1,101.51
MIN	-	-	-	1,130.10	1,130.06	1,130.09	1,130.24	1,130.20	1,127.40	1,121.42	1,102.89	1,070.27
(#)	11,241	19,715	20,104	19,638	19,618	19,684	19,719	19,700	19,987	16,408	10,578	2,785
(#)	+16.4	+437	+19.4	-23.3	-1.10	+3.29	+1.80	-0.95	+14.8	-179	-291	-402

CAL YR 1972 MEAN - MAX - MIN - # +1.82
WTR YR 1973 MEAN - MAX - MIN - # -34.4

* Contents, in millions of gallons, at 2400 on last day of month, by interpolation.

Change in contents, equivalent in cubic feet per second.

NOTE.--Elevations for Jan. 1-18, Feb. 13 to Mar. 6, Mar. 11-13, Apr. 11 to May 1, June 27 to July 8, are daily wire-weight gage readings furnished by City of New York Department of Water Resources.

HUDSON RIVER BASIN

75

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, N.Y.

LOCATION.--Lat 42°27'57", long 74°27'45", Schoharie County, 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.

DRAINAGE AREA.--359 mi² (930 km²).

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.

EXTREMES.--Current year: Maximum discharge, 15,400 ft³/s (436 m³/s) June 30 (gage height, 10.77 ft (3.283 m)), from rating curve extended above 10,000 ft³/s (283 m³/s); no flow Oct. 21-28, Sept. 12-14.

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.

REMARKS.--Records fair. Frequent regulation of flow by Blenheim-Gilboa Pumped Storage Project immediately upstream from gage. Entire flow at Gilboa (drainage from 314 mi² (813 km²)) except for period of spill, Nov. 9 to June 21, June 29 to July 16, diverted from Schoharie Reservoir through Shandaken Tunnel and Esopus Creek into Ashokan Reservoir for water supply of City of New York. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	0	976	6,920	530	158	676	796	91	4,490	1.6	.18
2	.22	.4	936	3,580	1,140	311	5,180	724	4.0	2,100	4.0	1.2
3	.22	2.0	784	1,770	5,340	415	3,720	730	3.0	1,300	2.2	.78
4	.22	1.1	784	1,720	1,710	460	2,820	724	2.8	1,060	1.7	.11
5	.22	1.6	871	1,540	1,150	736	4,540	622	23	1,370	1.6	.04
6	.22	1.1	4,770	1,140	1,100	634	2,800	535	500	778	3.3	.18
7	.86	1.0	6,490	814	878	319	1,860	415	374	594	3.1	.18
8	.57	5.1	2,760	206	772	1,020	1,540	260	1,070	398	1.4	.07
9	.42	394	3,920	162	621	1,260	1,610	515	583	406	1.1	.04
10	.86	913	2,850	410	88	802	1,790	610	433	366	1.0	.02
11	.30	2,070	1,670	315	88	802	2,630	2,400	358	334	1.4	.02
12	.33	1,420	1,310	270	277	802	1,390	1,510	307	307	1.2	.02
13	.07	944	1,550	212	174	850	1,020	968	561	174	2.3	0
14	.04	1,210	1,410	230	164	906	1,020	960	892	2.6	7.7	.02
15	0	1,080	952	370	454	1,260	1,010	736	424	53	2.8	1.0
16	0	899	960	370	311	1,470	736	1,510	354	195	1.0	.69
17	0	730	784	303	290	2,180	525	1,100	374	58	.34	.18
18	0	490	588	279	178	3,550	646	4,900	52	2.3	.18	.78
19	0	495	760	186	146	1,720	700	3,130	2.8	1.0	.34	.52
20	0	1,530	885	1,260	192	1,160	814	2,540	96	.6	4.2	.18
21	0	1,390	634	588	303	864	778	5,380	47	1.1	.78	.11
22	0	588	1,180	209	273	906	622	2,970	2.8	1.0	.18	.07
23	0	540	1,590	2,360	181	742	540	2,340	1.7	.3	.07	.34
24	0	555	992	748	114	676	378	1,480	1.6	.2	.43	.24
25	0	437	992	480	137	455	424	1,490	2.0	.2	.69	.18
26	0	2,890	682	490	176	772	495	1,000	1.2	.1	.78	.11
27	0	2,210	928	364	178	920	572	1,020	2.9	.9	.78	.07
28	0	1,840	968	244	105	760	1,870	1,020	2.6	.3	.95	.07
29	0	2,230	555	342	-----	572	1,420	864	1,950	1.8	.34	.07
30	0	1,440	530	284	-----	460	850	952	11,600	4.6	.07	.04
31	0	-----	2,110	268	-----	460	-----	796	-----	3.3	.02	-----
TOTAL	4.78	26,307.3	47,171	28,434	17,070	28,402	44,976	44,997	20,116.4	14,003.3	47.55	7.51
MEAN	.15	877	1,522	917	610	916	1,499	1,452	671	452	1.53	.25
MAX	.86	2,890	6,490	6,920	5,340	3,550	5,180	5,380	11,600	4,490	7.7	1.2
MIN	0	0	530	162	88	158	378	260	1.2	.10	.02	0

CAL YR 1972 TOTAL 317,771.84 MEAN 868 MAX 6,490 MIN 0
WTR YR 1973 TOTAL 271,536.84 MEAN 744 MAX 11,600 MIN 0

01351500 SCHOHARIE CREEK AT BURTONSVILLE, N.Y.

LOCATION.--Lat 42°48'00", long 74°15'48", Schenectady County, 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.

AVERAGE DISCHARGE.--34 years, 934 ft³/s (26.45 m³/s).

EXTREMES.--Current year: Maximum discharge, 20,800 ft³/s (589 m³/s) Dec. 7 (gage height, 6.02 ft (1.835 m)); minimum, 18 ft³/s (0.51 m³/s) Sept. 12; minimum gage height, 0.59 ft (0.180 m) Oct. 5, 6.

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.

Floods of March 1936 and September 1938 reached stages of 10.5 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.

REMARKS.--Records good except those for winter periods, which are fair. Entire flow at Gilboa (drainage from 314 mi² (813 km²)) except for period of spill, Nov. 9 to June 21, June 29 to July 16, diverted from Schoharie Reservoir through Shandaken Tunnel and Esopus Creek into Ashokan Reservoir for water supply of City of New York. Frequent regulation of flow by Blenheim-Gilboa Pumped Storage Project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	125	2,610	12,300	857	288	1,520	1,340	1,500	9,020	56	24
2	21	125	2,330	8,990	1,580	500	10,400	1,190	1,300	3,810	61	28
3	20	241	2,300	4,790	9,630	1,110	10,900	1,210	1,100	2,390	170	31
4	20	375	2,120	3,470	4,690	1,400	7,360	1,400	940	1,830	198	25
5	20	327	2,250	3,910	2,720	1,970	13,400	1,270	840	1,610	125	22
6	19	375	5,710	2,490	2,280	1,790	7,090	1,030	800	1,710	90	26
7	47	297	17,000	1,650	2,040	1,440	4,980	941	3,000	972	70	26
8	246	327	6,320	1,170	1,700	3,190	3,600	667	2,700	701	61	24
9	257	9,250	5,950	752	1,490	3,750	3,330	670	2,500	650	54	23
10	153	5,440	6,580	839	987	2,350	3,410	1,110	2,300	560	49	22
11	107	3,530	4,970	900	857	2,000	4,650	2,010	2,100	560	49	21
12	87	3,160	3,370	980	803	2,200	3,180	3,250	1,900	450	47	20
13	78	2,550	3,780	840	752	2,260	2,430	1,970	1,700	438	43	21
14	75	2,140	4,140	839	605	2,060	2,170	1,870	1,600	288	40	23
15	76	3,160	2,720	940	515	2,370	2,010	1,590	927	164	42	26
16	69	2,020	2,440	1,000	700	2,920	1,850	2,470	626	153	68	29
17	64	2,120	1,990	940	680	4,180	1,310	2,390	587	271	134	28
18	59	1,580	1,650	931	660	6,890	1,240	9,440	519	187	90	30
19	56	1,400	1,720	1,190	640	3,620	1,350	9,010	333	121	68	34
20	52	2,470	1,940	4,270	600	2,900	1,300	5,040	233	96	59	36
21	47	3,850	1,720	2,780	580	1,980	1,400	10,200	271	87	49	36
22	47	2,090	2,040	1,230	560	1,960	1,130	7,830	253	80	43	34
23	45	1,420	3,000	3,810	540	1,640	1,110	4,770	173	77	40	33
24	47	1,510	2,600	3,650	488	1,510	914	3,200	162	70	36	33
25	45	1,230	2,200	1,770	375	1,330	796	2,900	174	61	31	33
26	42	4,010	2,000	1,510	317	1,650	823	2,400	157	54	30	31
27	40	11,300	1,900	1,400	370	2,370	855	2,500	133	68	28	31
28	43	4,040	2,200	1,130	400	1,750	1,670	2,100	118	80	26	30
29	59	4,340	1,920	1,050	-----	1,550	2,620	2,500	362	80	24	26
30	87	3,590	1,470	786	-----	1,230	1,420	2,000	11,200	68	23	23
31	138	-----	2,360	876	-----	1,260	-----	1,800	-----	61	21	-----
TOTAL	2,188	78,392	105,300	73,183	38,416	67,418	100,218	92,068	40,508	26,767	1,925	829
MEAN	70.6	2,613	3,397	2,361	1,372	2,175	3,341	2,970	1,350	863	62.1	27.6
MAX	257	11,300	17,000	12,300	9,630	6,890	13,400	10,200	11,200	9,020	198	36
MIN	19	125	1,470	752	317	288	796	667	118	54	21	20
CAL YR 1972	TOTAL	744,556	MEAN	2,034	MAX	19,100	MIN	19				
WTR YR 1973	TOTAL	627,212	MEAN	1,718	MAX	17,000	MIN	19				

01357500 MOHAWK RIVER AT COHOES, N.Y.

LOCATION.--Lat 42°47'07", long 73°42'29", Albany County, on right bank at Niagara Mohawk Power Corp. School Street powerplant in Cohoes, and 2.0 miles upstream from mouth.

DRAINAGE AREA.--3,456 mi² (8,951 km²). At site used 1918-25, 3,453 mi² (8,943 km²).

PERIOD OF RECORD.--December 1917 to current year. Monthly discharge only for some periods, published in WSP 1302. Published as "at Crescent Dam" prior to July 17, 1925.

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 (2.7 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.

AVERAGE DISCHARGE.--7 years (1918-25), 5,820 ft³/s (164.8 m³/s) (includes diversion at lock 6); 48 years (1925-73), 5,577 ft³/s (157.9 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 55,800 ft³/s (1,580 m³/s) Nov. 9 (gage height, 18.18 ft (5.541 m)); minimum, 148 ft³/s (4.19 m³/s) Oct. 14, 15 (gage height, 4.75 ft (1.448 m)); minimum daily, 384 ft³/s (10.9 m³/s) Sept. 2.
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. 28, 1941 (gage height, 3.40 ft (1.036 m)); minimum daily, 23 ft³/s (0.65 m³/s) Aug. 24, 1941.

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. Water-quality records for the current year are published in Part 2 of this report for station (01357000) at Crescent Dam, 1.7 mi (2.7 km) upstream.

COOPERATION.--Diversions through Barge Canal at lock 6 furnished by New York State Department of Transportation.

REVISIONS (WATER YEARS).--WSP 741: Drainage area. WSP 1032: 1919-23(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,130	4,160	9,320	26,400	5,100	3,370	7,460	6,730	8,480	20,200	1,670	949
2	2,510	3,010	7,700	33,900	4,420	3,750	22,900	4,990	7,660	10,900	1,750	384
3	1,790	11,100	7,910	22,200	12,500	4,390	39,200	4,090	6,040	7,830	1,700	810
4	1,790	9,190	7,800	16,900	21,100	7,170	27,700	6,660	4,870	6,800	1,860	1,030
5	1,530	7,660	7,720	14,300	15,500	12,400	48,100	6,380	5,000	5,000	1,080	981
6	1,370	7,200	9,500	11,400	12,300	14,500	35,100	6,040	5,370	4,240	1,380	1,300
7	2,370	5,710	35,400	6,380	9,490	12,000	25,000	5,600	6,020	4,280	1,240	1,610
8	3,940	6,400	20,500	6,150	8,250	17,500	19,300	4,550	5,390	3,470	1,520	1,040
9	2,630	41,600	16,300	5,110	7,360	21,500	15,100	4,030	6,630	3,100	1,390	1,080
10	1,840	34,300	16,600	5,360	6,380	17,200	11,900	7,530	4,770	2,360	1,060	1,100
11	2,130	16,300	16,700	5,510	5,330	13,400	14,000	11,600	4,740	2,820	1,030	1,010
12	1,920	16,300	13,800	5,740	5,190	13,200	13,400	13,500	3,360	2,800	701	1,000
13	1,770	11,000	11,400	5,810	4,760	17,300	11,000	12,600	5,140	1,750	1,390	938
14	1,580	10,600	14,900	5,310	4,700	16,400	9,430	9,930	5,080	1,100	1,250	896
15	2,080	14,400	13,500	5,230	5,280	13,900	7,710	8,750	5,220	1,860	1,360	908
16	2,200	11,000	10,900	5,460	5,350	13,200	7,540	8,610	3,840	2,080	1,630	824
17	1,870	9,480	6,830	5,740	4,390	15,900	5,110	9,090	3,070	1,590	1,630	1,240
18	1,980	8,910	5,870	5,630	4,030	28,400	6,920	28,400	2,720	1,870	1,330	1,250
19	1,730	7,290	6,810	7,040	4,260	23,300	8,000	38,000	2,780	2,110	989	1,940
20	2,170	12,800	6,920	14,500	4,550	16,600	7,160	24,300	3,170	2,030	1,380	2,400
21	2,090	14,200	6,870	15,000	5,210	13,200	7,070	31,600	2,930	1,590	907	2,530
22	1,670	9,000	7,370	10,300	5,260	11,600	7,040	26,000	2,670	1,050	1,270	2,030
23	1,340	6,270	12,100	12,300	4,960	10,700	6,330	16,500	2,670	1,830	1,130	1,470
24	1,800	6,460	13,200	18,900	4,620	9,620	6,370	11,700	2,970	990	1,120	1,350
25	2,580	5,790	11,800	14,300	4,270	9,070	5,540	9,890	2,540	1,760	911	1,590
26	2,550	13,200	11,400	11,400	4,030	10,300	5,420	9,090	3,010	1,750	529	1,350
27	2,470	29,000	11,500	10,000	3,900	12,500	4,330	6,980	2,630	2,080	1,220	1,400
28	2,110	16,700	11,000	8,880	3,510	10,400	4,770	8,050	2,360	813	1,140	1,790
29	2,600	14,600	9,740	8,260	-----	9,280	8,030	10,300	5,220	1,200	923	1,370
30	6,670	10,600	7,970	6,490	-----	7,930	7,180	11,300	25,600	1,940	840	920
31	4,880	-----	7,780	6,230	-----	7,530	-----	11,700	-----	1,530	802	-----
TOTAL	71,090	374,230	357,110	336,130	186,000	397,510	404,110	374,490	151,950	104,723	38,132	38,490
MEAN	2,293	12,470	11,520	10,840	6,643	12,820	13,470	12,080	5,065	3,378	1,230	1,283
MAX	6,670	41,600	35,400	33,900	21,100	28,400	48,100	38,000	25,600	20,200	1,860	2,530
MIN	1,130	3,010	5,870	5,110	3,510	3,370	4,330	4,030	2,360	813	529	384

CAL YR 1972 TOTAL 3,339,150 MEAN 9,123 MAX 50,900 MIN 310
WTR YR 1973 TOTAL 2,833,965 MEAN 7,764 MAX 48,100 MIN 384

PEAK DISCHARGE (BASE, 41,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	2130	18.18	55,800	4-05	1300	18.08	54,600
12-07	1000	16.98	41,900	5-18	1800	17.22	44,500
1-02	0045	16.97	41,800				

01357500 MOHAWK RIVER AT COHOES, N.Y.--CONTINUED

(01357499) Diversion, in cubic feet per second, from Mohawk River at Crescent Dam, N.Y., through Barge Canal at lock 6, water year October 1972 to September 1973

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	83	107	3.0	3.0	3.0	3.0	113	95	101	107	125
2	95	77	71	3.0	3.0	3.0	3.0	65	101	95	95	143
3	101	83	71	3.0	3.0	3.0	789	83	107	113	77	149
4	83	83	83	3.0	3.0	3.0	53	83	107	125	101	95
5	95	65	71	3.0	3.0	3.0	53	83	89	107	101	89
6	107	65	65	3.0	3.0	3.0	53	89	83	107	137	95
7	107	83	83	3.0	3.0	3.0	53	83	89	119	83	113
8	113	77	89	3.0	3.0	3.0	59	71	113	179	101	107
9	101	89	89	3.0	3.0	3.0	53	71	101	113	113	101
10	95	53	113	3.0	3.0	3.0	53	95	107	101	101	95
11	101	53	89	3.0	3.0	3.0	53	71	95	71	137	107
12	119	53	95	3.0	3.0	3.0	53	101	131	107	113	113
13	119	71	77	3.0	3.0	3.0	53	83	101	113	95	83
14	89	65	28	3.0	3.0	3.0	53	95	113	113	89	95
15	95	65	3.0	3.0	3.0	3.0	53	101	89	113	89	101
16	71	77	3.0	3.0	3.0	3.0	53	89	95	95	113	125
17	101	83	3.0	3.0	3.0	3.0	59	89	107	101	101	101
18	89	77	3.0	3.0	3.0	3.0	65	71	83	113	119	113
19	77	71	3.0	3.0	3.0	3.0	71	65	77	101	113	95
20	77	77	3.0	3.0	3.0	3.0	77	101	89	107	95	83
21	77	89	3.0	3.0	3.0	3.0	71	65	95	113	95	95
22	83	83	3.0	3.0	3.0	3.0	83	59	89	125	89	89
23	101	65	3.0	3.0	3.0	3.0	71	83	95	113	89	101
24	83	77	3.0	3.0	3.0	3.0	65	107	101	95	95	89
25	107	65	3.0	3.0	3.0	3.0	89	113	119	137	113	89
26	95	59	3.0	3.0	3.0	3.0	77	77	95	113	113	107
27	71	65	3.0	3.0	3.0	3.0	89	95	101	107	89	95
28	89	77	3.0	3.0	3.0	3.0	77	95	113	167	107	95
29	71	89	3.0	3.0	-----	3.0	83	83	95	113	113	89
30	95	65	3.0	3.0	-----	3.0	77	83	83	101	125	107
31	89	-----	3.0	3.0	-----	3.0	-----	71	-----	119	107	-----
TOTAL	2,897	2,184	1,182.0	93.0	84.0	93.0	2,544.0	2,633	2,958	3,497	3,215	3,084
MEAN	93.5	72.8	38.1	3.00	3.00	3.00	84.8	84.9	98.6	113	104	103
MAX	119	89	113	3.0	3.0	3.0	789	113	131	179	137	149
MIN	71	53	3.0	3.0	3.0	3.0	3.0	59	77	71	77	83

CAL YR 1972 TOTAL 25,178.0 MEAN 68.8 MAX 500 MIN 3.0
WTR YR 1973 TOTAL 24,464.0 MEAN 67.0 MAX 789 MIN 3.0

01357500 Mohawk River at Cohoes, N.Y.

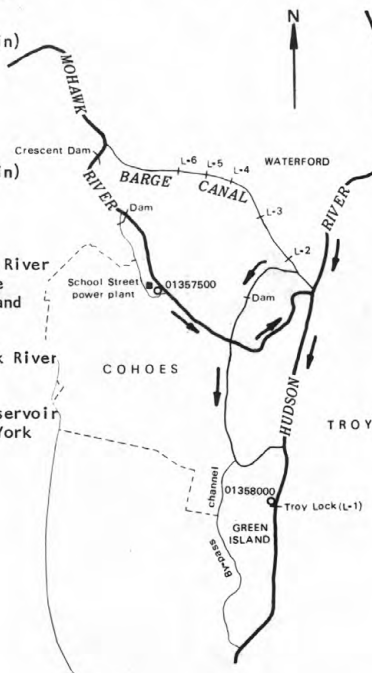
01358000 Hudson River at Green Island, N.Y.

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.



REGULATION

Great Sacandaga Lake at Conklingville, see sta. no. 01323500.
Indian Lake near Indian Lake, see sta. no. 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 sta. no. 01327500.
Bond Creek at Dunham Basin, see sta. no. 01328000.
Champlain (Barge) Canal, see sta. no. 01327500.
From St. Lawrence River basin through summit level of Champlain (Barge) Canal at Dunham Basin.
Bypass channel from Mohawk River estimated average flow of 15 cfs not included in record.

Figure 13.--Sketch showing gaging stations and diversions near mouth of Mohawk River.

HUDSON RIVER BASIN

79

01358000 HUDSON RIVER AT GREEN ISLAND, N.Y.

LOCATION.--Lat 42°45'08", long 73°41'22", Albany County, on right bank at Green Island, just upstream from Troy lock and dam, 0.5 mi (0.8 km) downstream from 5th branch Mohawk River.

DRAINAGE AREA.--8,090 mi² (20,953 km²), approximately (including that above site of former auxiliary gage).

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.

AVERAGE DISCHARGE.--27 years, 13,060 ft³/s (369.9 m³/s).

EXTREMES.--Current year: Maximum discharge, 88,100 ft³/s (2,490 m³/s) Apr. 5 (gage height, 21.94 ft (6.687 m)); minimum daily, 1,930 ft³/s (54.7 m³/s) Sept. 16; minimum gage height, 13.97 ft (4.258 m) Aug. 27.

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, 141,000 ft³/s (3,990 m³/s) Dec. 31, 1948, Jan. 1, 1949; minimum daily, 882 ft³/s (25.0 m³/s) Sept. 2, 1968; minimum gage height 13.92 ft (4.243 m) Sept. 2, 1946.

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 (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.

REMARKS.--Records fair except those for Aug. 27 to Sept. 30, which are poor. Records include flow over spillway, estimates of flow through lock, and flow through powerplant Power plant which is located on right bank just downstream from gage was inoperative from Nov. 30, 1960 to Feb. 23, 1971. See Diversions in Hudson River basin for regulation and diversions upstream from this station. Water-Quality records for current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,890	11,000	25,200	51,000	16,600	11,700	19,300	18,300	22,700	48,800	6,340	2,900
2	5,880	9,870	22,500	65,000	16,800	12,400	46,800	14,800	20,400	27,000	7,560	2,700
3	6,030	19,600	21,900	48,400	40,400	13,600	70,600	12,700	18,000	21,100	7,360	2,670
4	7,520	18,600	20,600	38,800	50,700	17,400	60,100	15,600	16,400	18,600	7,690	2,420
5	7,150	16,900	19,900	32,500	39,400	24,900	82,100	15,900	16,200	15,700	5,430	3,840
6	7,040	15,600	23,400	28,400	33,400	28,500	62,900	15,500	14,600	16,000	6,070	2,960
7	8,300	14,500	64,900	20,300	27,200	25,300	51,500	13,300	15,000	14,000	6,670	5,050
8	13,800	17,700	46,200	16,900	25,200	32,900	42,300	11,600	13,300	10,600	6,080	4,560
9	9,220	58,600	39,600	15,100	23,400	46,100	34,100	11,400	14,800	7,750	5,700	4,010
10	8,070	61,600	39,800	15,500	19,700	39,700	32,100	15,600	12,400	10,500	4,860	4,420
11	7,820	35,600	38,200	15,800	19,700	31,800	36,000	20,700	10,500	8,940	5,530	5,230
12	7,660	31,700	32,300	15,900	19,100	28,400	32,600	26,700	10,000	8,250	5,910	5,370
13	6,570	24,400	30,100	15,400	16,800	35,100	28,900	25,700	12,700	6,740	5,790	2,000
14	6,920	24,800	32,600	14,500	16,800	36,100	24,600	21,000	13,400	6,280	5,890	1,950
15	6,780	32,500	29,700	14,400	17,400	31,100	22,600	20,700	12,800	6,040	6,010	2,330
16	5,190	25,800	25,100	15,000	16,200	30,300	20,600	20,800	11,000	6,240	7,090	1,930
17	7,480	22,600	20,100	15,200	15,200	35,300	18,700	22,100	9,050	6,730	6,680	7,450
18	6,800	19,600	17,700	15,000	14,000	65,100	19,500	39,300	7,330	6,820	4,890	5,640
19	6,520	17,400	19,700	17,100	14,400	60,800	20,200	61,600	9,060	6,480	4,320	6,000
20	7,100	23,300	19,900	30,900	14,800	45,000	20,700	50,000	9,480	7,210	5,160	7,130
21	5,900	29,600	18,900	34,000	15,400	35,400	21,000	58,100	8,920	5,800	5,900	6,620
22	5,140	21,500	19,900	24,000	16,200	29,400	19,200	62,500	8,470	5,200	5,030	6,330
23	4,440	17,800	25,500	29,700	17,300	25,600	17,700	47,800	8,660	3,580	4,540	6,150
24	7,190	16,800	27,000	42,400	16,400	21,700	19,400	38,000	9,270	5,000	4,730	5,440
25	7,320	15,500	24,600	36,900	13,700	19,900	18,500	32,800	7,910	5,580	4,650	6,590
26	7,600	26,900	24,200	30,300	12,800	22,400	17,500	29,200	9,610	9,480	4,270	6,550
27	6,750	53,500	25,000	27,700	12,500	25,200	15,800	25,400	9,810	5,790	3,700	6,490
28	6,340	38,200	23,800	24,900	11,500	22,900	15,900	25,300	7,920	5,130	6,250	6,570
29	6,000	35,400	21,100	23,600	-----	20,800	18,600	27,400	10,800	5,160	5,180	6,310
30	9,910	27,700	19,000	18,400	-----	19,000	18,900	28,700	41,100	5,640	5,240	6,110
31	11,700	-----	18,900	19,600	-----	18,000	-----	27,200	-----	5,960	2,790	-----
TOTAL	226,030	784,570	837,300	812,600	573,000	911,800	928,700	855,700	391,590	322,100	173,310	143,720
MEAN	7,291	26,150	27,010	26,210	20,460	29,410	30,960	27,600	13,050	10,390	5,591	4,791
MAX	13,800	61,600	64,900	65,000	50,700	65,100	82,100	62,500	41,100	48,800	7,690	7,450
MIN	4,440	9,870	17,700	14,400	11,500	11,700	15,800	11,400	7,330	3,580	2,790	1,930
CAL YR 1972	TOTAL 7,692,400		MEAN 21,020		MAX 94,500		MIN 4,110					
WTR YR 1973	TOTAL 6,960,420		MEAN 19,070		MAX 82,100		MIN 1,930					

HUDSON RIVER BASIN

01359139 HUDSON RIVER AT ALBANY, N.Y.

LOCATION.--Lat 42°38'57", long 73°44'50", Albany County, on right bank, 0.5 mi (0.8 km) upstream from bridge on U.S. Highways 9 and 20 in Albany, and 0.5 mi (0.8 km) downstream from the Penn Central Transportation Company bridge.

DRAINAGE AREA.--About 8,288 mi² (21,466 km²).

PERIOD OF RECORD.--October 1972 to September 1973.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Gage-height record converted to elevation above or below (-) mean sea level for publication.

Summaries of tide elevations during period are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 72 TO SEPTEMBER 73

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MAXIMUM	<u>Elev</u>	5.37	6.88	6.57	7.37	6.58	8.03	8.77	6.41	6.86	8.14	5.00	5.12
HIGH TIDE	<u>Date</u>	23	26	22	1	3	18	5	19	30	1	21	15
MINIMUM	<u>Elev</u>	-2.85	-1.45	-3.24	-2.51	-2.04	-1.58	-1.34	-1.67	-2.01	-2.39	-2.34	-2.43
LOW TIDE	<u>Date</u>	15	25	17	7	11	2	17	7	17	23	27	24
MEAN HIGH TIDE		3.93	4.83	4.55	4.03	3.78	4.69	4.82	4.90	4.31	4.33	4.04	3.90
MEAN WATER LEVEL		1.28	2.49	2.45	1.96	1.85	2.56	2.74	2.66	1.78	1.70	1.37	1.32
MEAN LOW TIDE		-1.37	0.15	0.04	-0.07	-0.27	0.19	0.29	0.15	-1.17	-1.21	-1.63	-1.76

HUDSON RIVER BASIN

81

01359513 HUNGER KILL AT GUILDERLAND, N.Y.

LOCATION.--Lat 42°41'22", long 73°54'26", Albany County, on left bank, 100 ft (30 m) downstream from bridge on Nott Road, and 1.0 mi (1.6 km) south of Guilderland.

DRAINAGE AREA.--8.16 mi² (21.1 km²).

PERIOD OF RECORD.--September 1967 to current year. Occasional low-flow measurements, water years 1962-65.

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (40 m) (from topographic map).

AVERAGE DISCHARGE.--6 years, 11.8 ft³/s (0.334 m³/s) (19.64 in/yr (498.9 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 130 ft³/s (3.68 m³/s) June 29 (gage height, 6.26 ft (1.908 m)); minimum daily, 8.0 ft³/s (0.24 m³/s) Sept. 13; minimum gage height, 2.37 ft (0.722 m) Aug. 30.

Period of record: Maximum discharge, 132 ft³/s (3.74 m³/s) Aug. 28, 1971 (gage height, 6.31 ft (1.923 m)); minimum, 4.8 ft³/s (0.14 m³/s) Sept. 6, 1967 (gage height, 1.42 ft (0.433 m)).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	8.6	20	34	30	13	25	16	16	43	11	9.4
2	9.5	14	18	21	51	16	49	16	15	22	28	9.3
3	9.3	16	18	18	50	18	27	17	15	19	17	9.2
4	9.7	13	17	19	18	17	36	16	16	18	13	9.1
5	9.3	15	18	18	18	18	46	16	15	17	12	8.8
6	9.7	12	37	20	17	15	24	15	14	16	12	10
7	38	12	27	21	16	19	21	15	15	15	11	9.3
8	15	24	22	23	17	25	19	15	14	14	11	9.1
9	11	37	19	22	16	19	19	17	14	14	11	8.6
10	11	18	20	20	13	17	29	16	13	13	11	8.7
11	11	17	18	19	11	17	21	21	13	13	12	8.6
12	12	17	18	19	12	18	20	17	14	13	12	8.3
13	11	16	19	18	14	18	19	17	19	13	12	8.0
14	11	21	17	17	12	17	19	15	15	15	11	8.6
15	11	21	17	16	13	18	18	17	13	14	14	8.9
16	11	19	19	15	15	18	18	18	13	13	12	8.7
17	11	18	20	15	12	31	18	15	14	13	12	8.6
18	11	17	21	16	12	23	18	45	14	13	11	10
19	11	17	18	17	12	19	17	22	14	12	11	9.1
20	11	33	16	31	11	19	17	23	13	12	11	8.7
21	11	20	16	24	16	18	17	33	13	13	11	8.4
22	11	17	27	25	15	18	17	24	13	12	11	8.6
23	11	17	20	21	14	17	18	19	12	12	10	9.5
24	11	17	18	17	15	17	17	18	12	13	10	9.5
25	11	17	18	17	14	17	16	17	12	16	10	9.1
26	11	45	18	17	14	24	16	17	12	14	10	8.5
27	10	25	18	16	16	19	18	18	11	17	10	8.6
28	11	25	17	16	11	17	24	19	27	13	10	8.6
29	12	23	18	18	-----	17	19	20	56	12	9.8	8.4
30	13	19	16	20	-----	18	17	17	71	13	9.8	8.9
31	9.9	-----	22	25	-----	18	-----	18	-----	11	9.3	-----
TOTAL	365.2	590.6	607	615	485	575	659	589	528	468	365.9	267.1
MEAN	11.8	19.7	19.6	19.8	17.3	18.5	22.0	19.0	17.6	15.1	11.8	8.90
MAX	38	45	37	34	51	31	49	45	71	43	28	10
MIN	9.3	8.6	16	15	11	13	16	15	11	11	9.3	8.0
CFSM	1.45	2.41	2.40	2.43	2.12	2.27	2.70	2.33	2.16	1.85	1.45	1.09
IN.	1.66	2.69	2.77	2.80	2.21	2.62	3.00	2.69	2.41	2.13	1.67	1.22

CAL YR 1972 TOTAL 5.364.8 MEAN 14.7 MAX 52 MIN 8.1 CFSM 1.80 IN 24.46
WTR YR 1973 TOTAL 6.114.8 MEAN 16.8 MAX 71 MIN 8.0 CFSM 2.06 IN 27.88

PEAK DISCHARGE (BASE, 60 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-09	0030	4.71	65	2-03	0400	4.77	67	5-18	1130	4.76	67
11-26	1400	4.81	69	4-02	0100	4.81	69	6-29	0130	6.26	130
12-06	2030	4.75	67	4-05	0030	5.14	82				

HUDSON RIVER BASIN

01359519 NORMANS KILL NEAR WESTMERE, N.Y.

LOCATION.--Lat 42°40'43", long 73°54'25", Albany County, 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.

DRAINAGE AREA.--131 mi² (339 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (40 m) (from topographic map).

AVERAGE DISCHARGE.--6 years, 168 ft³/s (4.758 m³/s).

EXTREMES.--Current year: Maximum discharge, 4,390 ft³/s (124 m³/s) Nov. 9 (gage height, 10.43 ft (3.179 m)); minimum 15 ft³/s (0.42 m³/s) Oct. 5, 6 (gage height, 1.46 ft (0.445 m)).

Period of record: Maximum discharge, 4,390 ft³/s (124 m³/s) Nov. 9, 1972 (gage height, 10.43 ft (3.179 m)); maximum gage height 10.65 ft (3.246 m) Apr. 23, 1969; minimum discharge, 5.0 ft³/s (0.14 m³/s) July 29, 1968.

REMARKS.--Records good except those for winter periods, which are fair. Diversion above station for municipal supply by city of Watervliet.

REVISIONS (WATER YEARS).--WRD N.Y. 1972: 1968(P), 1969(M), 1970(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	24	335	1,980	100	43	284	112	159	1,760	29	23
2	37	37	288	1,180	94	60	2,830	103	124	493	90	23
3	24	45	267	485	600	116	1,550	106	101	288	103	22
4	18	66	264	342	565	247	918	208	87	191	59	22
5	16	193	240	331	349	505	2,670	159	87	137	48	22
6	15	191	621	221	258	437	977	118	80	95	39	25
7	130	130	1,730	130	206	349	525	95	75	75	34	24
8	49	214	581	141	168	986	328	83	66	65	31	23
9	47	3,220	429	150	143	765	242	92	62	52	30	22
10	33	954	469	140	118	417	393	118	55	43	30	21
11	32	485	485	150	104	307	465	335	46	44	33	22
12	34	373	272	140	90	353	278	247	43	38	34	20
13	34	258	294	130	80	405	216	258	97	34	33	20
14	33	331	342	80	70	288	173	183	122	39	30	22
15	32	429	250	54	60	253	148	146	73	39	35	27
16	36	349	211	55	57	304	128	291	58	38	34	27
17	48	300	176	57	54	833	116	219	57	34	49	27
18	42	264	183	75	54	977	108	1,860	53	30	44	30
19	32	237	162	155	52	417	126	1,220	52	25	39	26
20	20	725	152	1,280	50	267	227	537	49	27	34	25
21	20	707	148	331	52	203	224	1,390	48	30	26	24
22	20	365	300	250	53	171	221	887	49	31	26	24
23	20	253	553	477	53	141	191	481	49	28	24	26
24	21	216	417	481	53	124	51	304	48	27	24	24
25	21	198	385	258	49	116	42	221	47	31	24	24
26	20	1,130	373	193	48	342	27	173	47	34	24	22
27	20	1,510	377	160	46	385	45	152	44	43	24	22
28	21	797	317	130	45	227	49	148	88	34	23	22
29	34	720	232	110	-----	176	42	224	234	34	24	22
30	30	433	203	94	-----	155	95	203	2,570	31	23	22
31	25	-----	291	100	-----	166	-----	183	-----	29	23	-----
TOTAL	1,004	15,154	11,347	9,860	3,671	10,535	13,689	10,856	4,770	3,899	1,123	705
MEAN	32.4	505	366	318	131	340	456	350	159	126	36.2	23.5
MAX	130	3,220	1,730	1,980	600	986	2,830	1,860	2,570	1,760	103	30
MIN	15	24	148	54	45	43	27	83	43	25	23	20
(\bar{x})	6.00	6.59	6.33	6.76	7.08	6.37	5.34	5.49	5.42	5.38	5.56	6.17

CAL YR 1972 TOTAL 108,431 MEAN 296 MAX 3,220 MIN 15 \bar{x} 6.42
WTR YR 1973 TOTAL 86,613 MEAN 237 MAX 3,220 MIN 15 \bar{x} 6.03

PEAK DISCHARGE (BASE, 2,200 CFS REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	\bar{x} Diversion equivalent in cubic feet per second, by city of Watervliet for water supply (figures furnished by Watervliet Water Department).
11-09	1115	10.43	4,390	4-02	0800	8.99	3,240	
11-26	2315	8.05	2,650	4-05	0415	10.09	4,120	
12-07	0315	8.11	2,690	5-18	1830	9.66	3,780	
1-01	1500	7.89	2,550	7-01	0230	9.51	3,660	

HUDSON RIVER BASIN

83

01359750 MOORDENER KILL AT CASTLETON-ON-HUDSON, N.Y.

LOCATION.--Lat 42°32'02", long 73°44'15", Rensselaer County, 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.

AVERAGE DISCHARGE.--16 years, 33.9 ft³/s (0.960 m³/s) (14.12 in/yr (358.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 535 ft³/s (15.2 m³/s) June 30 (gage height, 2.56 ft (0.780 m)); minimum, 5.1 ft³/s (0.14 m³/s) Sept. 3 (gage height, 0.62 ft (0.189 m)); minimum daily, 6.4 ft³/s (0.18 m³/s) Sept. 13.
Period of record: Maximum discharge, 1,350 ft³/s (38.2 m³/s) Jan. 22, 1959 (gage height, 3.63 ft (1.106 m)); 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.

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	13	93	370	50	22	54	28	49	154	7.8	10
2	8.1	20	82	210	70	36	331	26	47	67	65	8.4
3	7.5	44	80	129	230	51	220	26	39	42	71	7.5
4	7.5	36	75	105	110	68	181	28	36	36	29	7.3
5	7.5	40	69	103	90	71	298	26	35	42	18	7.0
6	7.5	42	176	85	78	57	165	24	30	34	14	7.6
7	50	35	314	90	62	52	118	23	34	26	12	7.8
8	83	49	155	110	58	99	93	21	30	22	11	7.6
9	44	113	155	100	56	89	76	25	27	19	10	7.1
10	27	76	155	90	70	66	122	27	24	17	9.9	6.7
11	19	58	131	60	64	60	109	124	21	16	12	6.6
12	19	55	91	51	56	65	76	91	22	14	13	6.5
13	20	47	84	44	54	65	63	71	39	13	13	6.4
14	18	75	78	38	52	57	55	54	37	14	11	6.9
15	15	103	72	37	50	58	49	49	25	17	16	8.1
16	14	80	68	36	45	66	45	93	22	15	26	7.8
17	14	65	62	35	40	171	41	57	21	13	18	7.1
18	12	57	56	39	37	223	40	240	21	12	21	8.0
19	11	51	54	42	35	118	39	155	21	11	20	8.4
20	11	120	50	131	30	85	36	124	19	11	13	7.6
21	10	124	47	90	25	69	33	239	18	12	11	7.1
22	9.5	75	78	94	23	60	31	271	18	12	9.8	7.2
23	9.5	58	101	145	22	52	30	153	19	10	9.1	8.7
24	9.5	55	84	85	21	47	30	107	18	9.0	8.6	8.4
25	9.5	54	82	60	20	44	28	91	17	8.7	8.8	7.9
26	8.9	274	87	55	19	68	27	73	15	8.5	8.6	7.6
27	8.9	267	107	49	20	60	29	78	14	11	8.1	7.2
28	8.9	158	84	49	22	47	37	75	14	10	8.3	7.0
29	11	143	71	40	-----	42	40	73	34	10	8.2	6.8
30	15	103	75	64	-----	40	33	60	361	8.4	7.6	6.8
31	14	-----	133	50	-----	42	-----	60	-----	8.0	7.8	-----
TOTAL	518.5	2,490	3,049	2,686	1,509	2,150	2,529	2,592	1,127	702.6	506.6	225.1
MEAN	16.7	83.0	98.4	86.6	53.9	69.4	84.3	83.6	37.6	22.7	16.3	7.50
MAX	83	274	314	370	230	223	331	271	361	154	71	10
MIN	7.5	13	47	35	19	22	27	21	14	8.0	7.6	6.4
CFSM	.51	2.55	3.02	2.66	1.65	2.13	2.59	2.56	1.15	.70	.50	.23
IN.	.59	2.84	3.48	3.07	1.72	2.45	2.89	2.96	1.29	.80	.58	.26

CAL YR 1972 TOTAL 21,099.2 MEAN 57.6 MAX 565 MIN 5.9 CFSM 1.77 IN 24.08
WTR YR 1973 TOTAL 20,084.8 MEAN 55.0 MAX 370 MIN 6.4 CFSM 1.69 IN 22.92

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1930	2.41	460	4-02	0930	2.38	436
12-07	0330	2.41	460	6-30	1630	2.56	535
1-01	1300	2.36	436				

01359902 COEYMANS CREEK NEAR SELKIRK, N.Y.

LOCATION.--Lat 42°31'38", long 73°49'14", Albany County, on left bank, 40 ft (12 m) downstream from bridge on Pictus Road, and 1.2 mi (1.9 km) southwest of Selkirk.

DRAINAGE AREA.--35.1 mi² (90.9 km²).

PERIOD OF RECORD.--August 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 80 ft (24 m) (from topographic map).

AVERAGE DISCHARGE.--6 years, 52.8 ft³/s (1.609 m³/s).

EXTREMES.--Current year: Maximum discharge, 3,240 ft³/s (91.8 m³/s) June 30 (gage height, 9.89 ft (3.014 m)); minimum, 1.6 ft³/s (0.045 m³/s) Oct. 5 (gage height, 2.19 ft (0.668 m)).

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); minimum, 1.0 ft³/s (0.028 m³/s) Aug. 28, 1968 (gage height, 1.71 ft (0.521 m)).

REMARKS.--Records fair except those for winter periods, which are poor. Diversion from Onewquethaw Creek, a tributary above station, for municipal supply of Town of Bethlehem. Water discharged to Onewquethaw Creek from city of Albany filtration plant at point 4 miles (6.4 km) upstream from station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	11	123	605	47	10	144	42	41	740	7.4	14
2	3.0	15	106	257	60	14	848	38	35	228	96	5.7
3	2.8	27	97	150	337	18	365	36	31	152	180	3.9
4	2.8	22	90	130	150	23	399	34	28	122	53	3.2
5	2.7	33	85	100	130	29	696	33	29	154	30	2.9
6	2.7	32	449	80	110	27	282	30	25	110	18	2.7
7	57	23	396	70	94	25	173	26	26	82	14	2.8
8	64	121	154	58	80	40	133	25	23	64	11	2.5
9	27	653	150	56	68	74	112	28	20	52	9.4	2.4
10	16	147	159	54	60	64	183	30	18	40	9.0	2.3
11	10	94	141	52	40	58	147	120	16	37	10	2.4
12	8.1	76	106	50	32	82	112	96	15	31	11	2.2
13	8.4	61	114	45	26	82	94	75	19	26	8.4	2.2
14	6.4	93	106	30	23	69	82	57	20	24	8.1	2.3
15	6.1	114	90	20	22	69	73	50	16	23	13	2.4
16	5.9	99	85	20	21	75	65	91	14	22	27	2.3
17	5.3	87	79	21	21	247	58	64	14	20	16	2.3
18	5.3	75	70	60	20	220	55	590	14	16	13	3.3
19	4.4	69	62	150	19	114	50	262	13	15	9.7	2.8
20	4.4	210	58	400	18	87	44	160	12	14	11	2.5
21	4.0	157	55	170	17	69	41	416	11	14	7.4	2.4
22	4.0	105	120	80	16	60	39	290	11	14	7.8	2.4
23	4.2	81	141	110	15	50	37	150	11	12	8.1	2.7
24	3.7	72	123	130	14	45	34	114	13	11	7.4	2.4
25	3.8	69	118	80	13	43	32	90	13	9.4	8.1	2.7
26	3.7	736	120	54	12	84	29	72	9.5	9.4	7.8	2.4
27	5.3	377	120	52	11	81	31	69	9.1	13	6.8	2.5
28	8.8	197	100	48	11	58	64	64	14	11	5.1	2.2
29	13	188	76	45	-----	50	81	67	181	9.0	4.6	2.5
30	19	135	69	43	-----	47	53	53	1,490	8.7	4.3	2.7
31	14	-----	197	45	-----	49	-----	47	-----	8.4	13	-----
TOTAL	328.6	4,179	3,959	3,265	1,487	2,063	4,556	3,319	2,191.6	2,091.9	635.4	92.0
MEAN	10.6	139	128	105	53.1	66.5	152	107	73.1	67.5	20.5	3.07
MAX	64	736	449	605	337	247	848	590	1,490	740	180	14
MIN	2.7	11	55	20	11	10	29	25	9.1	8.4	4.3	2.2

CAL YR 1972 TOTAL 29,242.2 MEAN 79.9 MAX 736 MIN 2.7
WTR YR 1973 TOTAL 28,167.5 MEAN 77.2 MAX 1,490 MIN 2.2

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-09	0430	6.86	1,130	4-02	0600	6.87	1,140
11-26	1500	7.50	1,460	4-04	2330	7.41	1,410
12-06	2030	7.10	1,250	5-18	1300	7.14	1,270
1-01	0900	6.39	916	6-30	0800	9.74	3,240

NOTE.--No gage-height record Jan. 3 to Feb. 2

HUDSON RIVER BASIN

85

01359924 HANNACROIS CREEK NEAR NEW BALTIMORE, N.Y.

LOCATION.--Lat 42°26'22", long 73°48'41", Greene County, on left bank, 1,200 ft (366 m) downstream from bridge on U.S. Route 9W, 1.2 mi (1.9 km) southwest of New Baltimore, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.-- 61.6 mi² (160 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 140 ft (43 m) (from topographic map).

AVERAGE DISCHARGE.--6 years, 56.2 ft³/s (1.592 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,780 ft³/s (50.4 m³/s) July 1 (gage height, 5.43 ft (1.655 m)); minimum, 0.10 ft³/s (0.003 m³/s) Oct. 5, 6 (gage height, 0.60 ft (0.183 m)).

Period of record: Maximum discharge, 1,780 ft³/s (50.4 m³/s) July 1, 1973 (gage height, 5.43 ft (1.655 m)); minimum, 0.02 ft³/s (0.001 m³/s) Aug. 19-21, 1970 (gage height, 0.52 ft (0.158 m)).

REMARKS.--Records fair. Diversion above station for Albany municipal water supply from Alcove Reservoir which includes diversion from Catskill Creek basin through Basic Reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	6.0	139	520	38	13	78	37	64	1,360	3.7	2.3
2	.24	6.0	110	512	33	16	765	31	67	630	34	1.4
3	.14	8.0	96	317	300	29	760	30	47	318	72	1.6
4	.11	7.6	102	255	250	36	568	35	36	198	29	.76
5	.10	12	105	200	194	43	1,040	33	36	178	19	.20
6	.09	14	258	150	148	40	586	36	31	138	15	1.2
7	3.9	11	560	107	122	37	357	22	33	85	11	.76
8	5.5	34	329	60	106	53	253	19	26	61	9.6	.97
9	1.1	287	287	64	70	55	178	20	22	42	8.3	.58
10	.52	146	270	62	60	47	238	22	23	33	6.8	.35
11	.39	96	255	64	45	44	276	99	17	31	6.5	.23
12	.34	75	175	62	40	46	194	93	13	41	7.6	.64
13	.75	58	160	54	37	47	162	87	18	25	6.1	.32
14	.45	73	146	40	35	44	108	94	20	17	5.2	.26
15	.52	87	122	15	33	47	77	94	16	17	6.8	.76
16	1.5	79	130	15	32	61	68	103	12	16	12	.43
17	.69	70	140	16	30	196	61	85	11	14	8.7	.26
18	1.3	63	76	35	29	423	55	477	11	11	6.8	.47
19	1.4	55	56	100	27	348	49	545	10	9.7	6.5	.58
20	.88	129	50	430	26	223	46	367	8.8	8.8	5.5	.43
21	.75	144	45	150	25	134	37	563	7.2	8.8	4.5	.23
22	.88	102	113	100	23	120	33	572	7.9	11	4.2	.20
23	.75	80	196	130	22	112	44	348	7.6	7.6	4.0	.35
24	1.4	67	179	140	20	62	33	243	7.2	5.8	2.7	.39
25	1.6	59	162	64	18	48	42	178	17	5.2	2.3	.26
26	1.3	476	157	54	17	75	27	133	11	5.2	2.7	.35
27	.64	413	155	47	17	117	30	125	8.8	5.8	1.8	.23
28	1.1	243	137	42	15	60	48	115	7.9	5.2	1.6	.26
29	4.7	211	108	37	-----	49	66	115	46	5.5	1.6	.26
30	5.5	155	87	33	-----	48	51	85	1,060	4.3	1.4	.10
31	3.6	-----	134	36	-----	49	-----	90	-----	4.0	1.6	-----
TOTAL	42.41	3,266.6	5,039	3,911	1,812	2,722	6,330	4,896	1,702.4	3,301.9	308.5	17.13
MEAN	1.37	109	163	126	64.7	87.8	211	158	56.7	107	9.95	.57
MAX	5.5	476	560	520	300	423	1,040	572	1,060	1,360	72	2.3
MIN	.09	6.0	45	15	15	13	27	19	7.2	4.0	1.4	.10

CAL YR 1972 TOTAL 32,338.97 MEAN 88.4 MAX 825 MIN .09
WTR YR 1973 TOTAL 33,348.94 MEAN 91.4 MAX 1,360 MIN .09

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	0645	3.18	359	4-02	2200	4.42	982
11-26	1715	4.46	926	4-05	0345	4.73	1,180
12-07	0100	4.08	730	5-18	1715	4.01	735
1-01	1700	3.88	630	5-22	0115	3.84	660
3-18	1100	3.31	434	7-01	0345	5.43	1,780

01361500 CATSKILL CREEK AT OAK HILL, N.Y.

LOCATION.--Lat 42°24'16", long 74°09'07", Greene County, 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.

DRAINAGE AREA.--98 mi² (254 km²), approximately.

PERIOD OF RECORD.--May 1910 to current year. Monthly discharge only for some periods, published in WSP 1302.

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.

AVERAGE DISCHARGE.--63 years, 124 ft³/s (3.512 m³/s) (17.19 in/yr (436.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 3,540 ft³/s (100 m³/s) Dec. 6, Apr. 4 (gage height, 7.05 ft (2.149 m)), from rating curve extended above 1600 ft³/s (45.3 m³/s); minimum, 0.33 ft³/s (0.009 m³/s) Oct. 7 (gage height, 1.59 ft (0.485 m)).

Period of record: Maximum discharge, 12,500 ft³/s (354 m³/s) Nov. 25, 1950 (gage height, 14.08 at site and datum then in use, from floodmarks in gage house), from rating curve extended above 6,100 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 at site and datum then in use.

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

REVISIONS.--WSP 756: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	14	271	1,130	113	33	478	104	134	560	11	3.4
2	1.2	16	237	585	301	57	1,770	100	115	305	74	3.4
3	.70	42	234	368	856	107	908	98	129	208	78	2.8
4	.70	41	240	322	341	156	1,190	102	124	186	37	2.8
5	.70	46	217	290	255	203	1,170	98	124	258	26	2.8
6	.70	42	1,150	192	189	156	607	92	102	141	20	3.4
7	17	42	894	118	170	144	451	84	118	102	16	4.0
8	50	378	460	115	156	380	341	76	88	90	14	3.4
9	30	1,960	530	113	98	294	274	76	74	73	11	3.4
10	21	664	575	136	86	231	384	92	60	54	11	2.8
11	16	404	474	136	86	203	345	308	51	43	9.9	2.5
12	13	308	319	160	86	268	277	214	45	34	9.9	2.5
13	17	237	442	173	86	265	237	184	67	29	9.2	2.5
14	16	265	349	181	86	249	203	153	62	26	8.6	2.0
15	14	291	274	186	78	294	184	146	40	24	12	2.5
16	12	258	249	153	71	298	163	265	33	24	30	2.5
17	11	231	203	132	60	602	148	192	30	22	21	2.5
18	9.9	208	203	148	60	511	136	1,270	29	19	16	2.5
19	9.2	192	184	214	60	305	127	635	32	18	14	2.5
20	9.2	421	168	640	60	246	113	560	27	15	12	2.0
21	8.6	315	153	208	57	205	102	1,490	76	15	11	2.0
22	8.6	231	330	197	54	186	96	718	62	15	9.2	1.6
23	8.6	178	319	408	51	158	92	434	39	13	8.6	2.5
24	8.6	170	265	261	45	139	86	322	48	11	8.6	2.5
25	7.9	160	249	197	40	129	80	255	46	9.9	7.9	2.0
26	7.9	802	246	181	37	197	74	211	39	7.9	7.2	2.0
27	7.2	591	225	170	33	186	90	214	30	11	6.5	2.0
28	7.2	451	203	160	32	146	192	194	40	14	6.5	2.5
29	7.2	392	163	148	-----	132	148	205	978	13	4.0	2.0
30	12	287	158	120	-----	124	120	168	1,510	14	3.4	2.0
31	14	-----	404	129	-----	122	-----	163	-----	11	3.4	-----
TOTAL	348.30	9,637	10,388	7,671	3,647	6,726	10,586	9,223	4,352	2,365.8	516.9	77.3
MEAN	11.2	321	335	247	130	217	353	298	145	76.3	16.7	2.58
MAX	50	1,960	1,150	1,130	856	602	1,770	1,490	1,510	560	78	4.0
MIN	.70	14	153	113	32	33	74	76	27	7.9	3.4	1.6
CFSM	.11	3.28	3.42	2.52	1.33	2.21	3.60	3.04	1.48	.78	.17	.03
IN.	.13	3.66	3.94	2.91	1.38	2.55	4.02	3.50	1.65	.90	.20	.03

CAL YR 1972 TOTAL 72,871.80 MEAN 199 MAX 1,960 MIN .40 CFSM 2.03 IN 27.66
WTR YR 1973 TOTAL 65,538.30 MEAN 180 MAX 1,960 MIN .70 CFSM 1.84 IN 24.88

PEAK DISCHARGE (BASE, 2,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-29	0800	6.34	2,740	4-04	2030	7.05	3,540
12-06	1800	7.05	3,540	6-29	1830	6.75	3,160

01361570 TENMILE CREEK AT OAK HILL, N.Y.

LOCATION.-- Lat 42°24'26", long 74°08'06", Greene County, 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.

DRAINAGE AREA.--35.3 mi² (91.4 km²).

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.

AVERAGE DISCHARGE.--5 years, 53.3 ft³/s (1.509 m³/s) (20.50 in/yr (520.7 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 2,540 ft³/s (71.9 m³/s) June 30 (gage height, 6.43 ft (1.960 m)), from rating curve extended as explained below; minimum, 1.0 ft³/s (0.028 m³/s) Sept. 27; minimum gage height, 2.30 ft (0.701 m) Sept. 25, 27.
Period of record: Maximum discharge, 2,540 ft³/s (71.9 m³/s) June 30, 1973 (gage height, 6.43 ft (1.960 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.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	3.9	91	495	34	44	127	46	44	292	10	8.0
2	3.9	5.0	81	260	160	41	683	40	38	127	51	5.8
3	4.0	8.8	75	127	350	51	383	39	33	81	61	5.4
4	3.9	8.0	73	98	170	58	401	37	34	64	38	5.0
5	3.3	12	70	91	90	64	550	36	32	70	27	4.8
6	3.0	12	224	70	79	57	248	33	29	54	19	5.2
7	15	9.6	334	68	64	55	145	30	36	44	16	3.0
8	14	100	142	66	58	87	103	29	31	36	14	2.2
9	7.2	485	157	64	51	118	82	30	27	31	13	2.0
10	5.4	204	192	60	50	93	130	31	23	27	12	1.8
11	4.8	109	168	58	45	78	130	89	21	24	13	1.7
12	6.0	84	96	58	54	87	93	82	19	21	12	1.7
13	6.0	69	118	63	72	96	78	66	26	19	11	1.6
14	5.0	82	106	70	66	86	67	54	24	18	11	1.6
15	4.6	93	82	75	66	89	60	50	19	19	15	1.8
16	4.2	82	78	72	51	93	55	73	16	18	16	1.7
17	4.6	73	72	67	47	200	50	63	15	16	14	1.6
18	3.9	66	80	70	61	232	47	465	15	15	12	1.6
19	3.6	60	72	84	69	112	46	256	14	14	11	1.5
20	3.4	160	58	208	69	84	42	154	13	13	10	1.4
21	3.3	127	55	127	55	69	39	480	28	15	9.2	1.4
22	3.1	82	127	127	48	61	37	284	41	14	8.4	1.3
23	3.1	64	148	176	47	54	36	139	27	12	8.4	1.4
24	3.1	58	109	121	47	50	35	96	23	11	8.0	1.3
25	3.1	55	96	95	45	47	31	78	21	11	7.2	1.3
26	3.0	397	93	80	36	66	31	64	18	11	6.8	1.2
27	3.0	329	87	70	31	70	36	66	15	15	6.4	1.1
28	3.0	200	78	56	41	58	78	61	46	12	6.0	1.1
29	3.7	176	67	46	-----	52	66	67	480	13	5.8	1.1
30	4.6	100	63	41	-----	50	54	57	1,040	11	5.4	1.1
31	4.0	-----	180	38	-----	48	-----	50	-----	10	5.8	-----
TOTAL	146.8	3,314.3	3,472	3,201	2,056	2,450	3,963	3,145	2,248	1,138	463.4	71.7
MEAN	4.74	110	112	103	73.4	79.0	132	101	74.9	36.7	14.9	2.39
MAX	15	485	334	495	350	232	683	480	1,040	292	61	8.0
MIN	3.0	3.9	55	38	31	41	31	29	13	10	5.4	1.1
CFSM	.13	3.12	3.17	2.92	2.08	2.24	3.74	2.86	2.12	1.04	.42	.07
IN.	.15	3.49	3.66	3.37	2.17	2.58	4.18	3.31	2.37	1.20	.49	.08

CAL YR 1972 TOTAL 27,803.3 MEAN 76.0 MAX 735 MIN 3.0 CFSM 2.15 IN 29.30
WTR YR 1973 TOTAL 25,669.2 MEAN 70.3 MAX 1,040 MIN 1.1 CFSM 1.99 IN 27.05

PEAK DISCHARGE (BASE, 650 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-26	1630	4.79	742	4-04	2100	5.24	1,120
1-20	0300	4.70	675	5-18	1100	4.85	790
4-02	0430	4.79	742	6-30	0600	6.43	2,540

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.
(HYDROLOGIC BENCH-MARK STATION)

LOCATION.--Lat 42°06'59", long 74°23'20", Ulster County, 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 Bushnellville Creek, 0.5 mi (0.8 km) upstream from Fox Hollow Creek, and 5.2 mi (8.4 km) northwest of Phenicia.

DRAINAGE AREA.--59.5 mi² (154 km²).

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.

AVERAGE DISCHARGE.--10 years, 129 ft³/s (3.653 m³/s) (29.44 in/yr (747.8 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 5,210 ft³/s (148 m³/s) June 29 (gage height, 9.43 ft (2.874 m)); minimum, 8.1 ft³/s (0.23 m³/s) Oct. 6 (gage height, 4.59 ft (1.399 m)).

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 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)).

REMARKS.--Records poor. Occasional slight regulation when filling or draining swimming pools or small ponds above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	34	316	1,650	146	50	190	198	198	1,050	25	17
2	10	40	260	840	820	52	506	186	194	648	84	17
3	9.8	98	232	548	1,240	58	590	178	182	452	90	17
4	9.3	95	214	452	604	80	714	156	166	349	50	16
5	8.9	105	190	344	402	82	788	146	149	322	40	15
6	8.5	100	770	260	295	76	597	129	340	260	35	24
7	63	95	1,150	200	265	80	472	117	1,460	220	32	23
8	85	1,000	708	180	255	236	402	108	724	178	30	19
9	50	1,830	748	150	224	237	344	108	499	152	27	17
10	42	700	611	130	198	210	396	105	390	135	25	14
11	38	459	499	120	170	202	372	270	305	111	24	13
12	34	344	402	110	150	219	322	242	250	100	23	12
13	34	275	372	100	130	232	305	250	246	88	23	11
14	32	349	310	92	120	237	260	228	214	73	22	14
15	31	349	275	88	110	270	224	228	182	71	62	19
16	29	290	232	84	100	295	202	300	163	65	70	16
17	29	250	194	82	94	724	182	285	149	60	45	13
18	28	219	170	82	90	848	170	916	138	48	36	19
19	28	190	152	88	86	576	174	848	129	42	37	21
20	26	295	142	123	86	414	186	732	114	40	35	17
21	25	260	132	102	74	349	174	822	78	42	32	14
22	25	237	194	126	66	285	166	670	73	36	29	14
23	24	214	194	255	68	219	163	534	69	34	28	25
24	24	194	186	214	68	190	152	440	80	31	28	22
25	23	178	174	170	60	178	138	360	67	29	26	19
26	23	443	166	150	54	190	135	285	60	28	25	17
27	22	499	160	130	50	178	142	224	56	34	22	16
28	23	466	149	120	50	166	206	206	157	33	21	15
29	36	420	135	110	-----	156	202	295	1,630	31	21	14
30	35	360	126	100	-----	149	202	228	2,430	29	20	13
31	34	-----	623	110	-----	142	-----	224	-----	27	18	-----
TOTAL	900.5	10,388	10,186	7,310	6,075	7,380	9,076	10,018	10,892	4,818	1,085	503
MEAN	29.0	346	329	236	217	238	303	323	363	155	35.0	16.8
MAX	85	1,830	1,150	1,650	1,240	848	788	916	2,430	1,050	90	25
MIN	8.5	34	126	82	50	50	135	105	56	27	18	11
CFSM	.49	5.82	5.53	3.97	3.65	4.00	5.09	5.43	6.10	2.61	.59	.28
IN.	.56	6.49	6.37	4.57	3.80	4.61	5.67	6.26	6.81	3.01	.68	.31

CAL YR 1972 TOTAL 73,959.1 MEAN 202 MAX 1,980 MIN 8.5 CFSM 3.40 IN 46.24
WTR YR 1973 TOTAL 78,631.5 MEAN 215 MAX 2,430 MIN 8.5 CFSM 3.61 IN 49.16

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-08	2030	8.68	3,860	4-04	2000	6.76	1,110
12-06	1900	7.75	2,380	6-07	0430	7.55	2,080
1-01	0730	7.55	2,080	6-29	1830	9.43	5,210
2-03	2330	7.83	2,500				

HUDSON RIVER BASIN

89

01362500 ESOPUS CREEK AT COLD BROOK, N.Y.

LOCATION.--Lat 42°00'51", long 74°16'16", Ulster County, on left bank at downstream side of bridge on Coldbrook Road, in Coldbrook, 1.5 mi (2.4 km) upstream from Ashokan Reservoir and 2.5 mi (4.0 km) south of Mount Tremper.

DRAINAGE AREA.--192 mi² (497 km²).

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.

EXTREMES.--Current year: Maximum discharge, 12,400 ft³/s (351 m³/s) June 30 (gage height, 11.84 ft (3.609 m)); minimum daily, 120 ft³/s (3.40 m³/s) Feb. 27, 28; minimum gage height, 4.28 ft (1.305 m) Feb. 28.

Period of record: Maximum discharge, 59,600 ft³/s (1,690 m³/s) May 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, 15.15 and 20.70 ft (6.309 m); minimum daily, 8 ft³/s (0.23 m³/s) Oct. 14, 1914.

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	263	1,270	5,270	300	130	1,030	746	573	3,530	538	691
2	179	300	1,070	2,920	3,500	140	3,110	658	504	1,870	834	668
3	176	474	998	1,800	5,240	170	2,200	594	432	1,240	691	638
4	176	462	935	1,430	2,240	325	2,570	524	402	980	602	623
5	172	510	866	1,000	1,460	335	3,040	462	396	866	552	602
6	172	480	2,600	700	1,100	285	1,940	402	1,210	650	539	631
7	432	444	3,640	560	890	310	1,440	352	3,320	517	519	594
8	408	3,470	2,340	500	770	1,120	1,220	315	1,750	432	506	566
9	305	5,870	2,680	450	500	989	1,010	432	1,180	363	506	552
10	272	2,710	2,250	410	400	810	1,440	510	874	335	539	539
11	254	1,800	1,870	380	290	762	1,220	2,200	674	310	587	519
12	249	1,430	1,520	350	250	890	1,030	1,330	538	272	546	500
13	245	1,150	1,410	330	220	826	890	1,060	545	236	494	487
14	236	1,670	1,210	310	200	866	778	858	468	216	475	500
15	232	1,640	1,020	290	180	998	666	786	357	216	526	500
16	232	1,240	802	280	170	1,030	587	944	305	249	559	469
17	228	1,070	601	270	160	3,580	524	786	276	566	526	481
18	224	935	559	260	160	3,160	480	2,560	263	682	500	587
19	220	834	504	285	180	1,820	524	1,930	236	658	469	580
20	216	1,780	468	517	170	1,280	601	1,960	232	608	402	552
21	212	1,340	432	305	150	980	517	2,750	531	629	315	519
22	212	1,150	818	674	140	818	480	1,910	666	615	325	519
23	212	1,010	778	1,580	130	666	450	1,430	643	594	320	559
24	212	899	674	1,000	130	566	432	1,140	818	573	305	475
25	208	810	629	900	130	498	385	917	746	559	301	325
26	208	3,130	615	800	130	615	402	746	650	559	296	320
27	204	2,660	566	700	120	510	524	682	615	587	402	305
28	232	2,030	504	500	120	438	1,140	650	944	566	738	296
29	330	1,730	432	410	-----	396	989	762	4,180	552	714	286
30	285	1,410	390	350	-----	374	850	650	7,700	545	699	282
31	272	-----	2,380	320	-----	368	-----	666	-----	538	683	-----
TOTAL	7,398	44,701	36,831	25,851	19,430	26,055	32,469	31,712	32,028	21,113	16,008	15,165
MEAN	239	1,490	1,188	834	694	840	1,082	1,023	1,068	681	516	506
MAX	432	5,870	3,640	5,270	5,240	3,580	3,110	2,750	7,700	3,530	834	691
MIN	172	263	390	260	120	130	385	315	232	216	296	282

CAL YR 1972 TOTAL 275,328 MEAN 752 MAX 6,420 MIN 172
WTR YR 1973 TOTAL 308,761 MEAN 846 MAX 7,700 MIN 120

HUDSON RIVER BASIN

01364500 ESOPUS CREEK AT MOUNT MARION, N.Y.

LOCATION.--Lat 42°02'16", long 73°58'21", Ulster County, 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).

EXTREMES.--Current year: Maximum discharge, 7,720 ft³/s (219 m³/s) June 30 (gage height, 20.25 ft (6.172 m)); minimum daily, 20 ft³/s (0.57 m³/s) Oct. 5, 6; minimum gage height, 12.00 ft (3.658 m) Oct. 6.

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)).

REMARKS.--Records good 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 Hudson River basin, Reservoirs in) since Feb. 3, 1924, enters Esopus Creek about 12.2 mi (19.6 km) above Ashokan Reservoir. Large diversions from 33 mi² (85.5 km²) of Saw Kill and 17 mi² (44.0 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 Hudson River basin, Reservoirs in). 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	82	669	4,120	600	110	652	674	602	7,180	67	60
2	23	93	581	5,140	1,500	130	3,730	647	450	4,880	979	75
3	22	182	488	4,250	6,000	166	4,260	598	353	2,730	1,570	61
4	21	178	455	3,070	5,200	228	3,870	545	281	1,860	717	52
5	20	220	435	2,510	3,840	321	5,360	443	253	1,370	401	46
6	20	232	790	1,910	2,620	306	4,500	381	225	965	277	58
7	76	202	1,920	1,300	1,870	321	3,220	290	308	652	213	69
8	137	652	1,230	834	1,430	672	2,470	230	1,020	463	174	54
9	88	2,930	1,690	680	1,180	902	1,990	255	1,400	336	152	46
10	58	1,320	1,470	614	834	686	2,280	364	1,020	260	131	42
11	50	759	1,170	506	600	560	2,510	2,440	608	210	148	40
12	43	608	854	431	450	603	2,060	2,740	377	180	140	38
13	41	459	730	360	350	525	1,600	2,360	280	160	134	35
14	37	856	647	315	300	488	1,270	1,700	225	150	113	38
15	33	2,000	520	300	260	598	979	1,240	176	130	129	69
16	31	1,140	484	280	250	608	802	1,300	143	120	272	66
17	29	741	460	265	230	1,740	669	1,100	123	110	213	54
18	28	535	400	252	210	2,840	581	1,600	116	106	161	59
19	28	423	400	250	190	3,580	506	2,370	117	95	132	78
20	27	1,110	450	374	170	2,810	516	2,500	109	87	117	62
21	27	1,140	506	350	150	2,110	447	3,720	107	103	105	53
22	27	783	890	330	140	1,460	395	3,640	232	112	94	48
23	27	555	1,260	1,900	130	1,140	354	2,840	262	94	85	63
24	27	447	1,030	1,600	120	847	321	2,200	192	79	77	68
25	25	381	895	900	120	652	265	1,660	252	71	71	60
26	24	1,850	834	800	110	759	252	1,260	192	67	65	55
27	23	2,260	821	640	100	860	280	983	150	127	62	49
28	22	1,290	724	680	100	730	636	853	132	178	62	45
29	89	993	608	600	-----	614	625	893	452	118	57	42
30	107	713	467	580	-----	525	647	769	6,170	90	53	39
31	93	-----	1,610	600	-----	498	-----	783	-----	75	50	-----
TOTAL	1,326	25,134	25,488	36,741	29,054	28,389	48,047	43,378	16,327	23,158	7,021	1,624
MEAN	42.8	838	822	1,185	1,038	916	1,602	1,399	544	747	226	54.1
MAX	137	2,930	1,920	5,140	6,000	3,580	5,360	3,720	6,170	7,180	1,570	78
MIN	20	82	400	250	100	110	252	230	107	67	50	35
CAL YR 1972	TOTAL 265,903	MEAN 727	MAX 7,400	MIN 17								
WTR YR 1973	TOTAL 285,687	MEAN 783	MAX 7,180	MIN 20								

01365000 RONDOUT CREEK NEAR LOWES CORNERS, N.Y.

LOCATION.--Lat 41°52'00", long 74°29'12", Sullivan County, on left bank 100 ft (30 m) downstream from small tributary, 350 ft (107 m) upstream from county road bridge, 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.

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 (258.17 m), above mean seal 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; datum 847.00 ft (258.17 m) Oct. 4, 1938 to July 3, 1949 and 846.00 ft (257.86 m) July 3, 1949 to July 5, 1951, above mean sea level (levels by Board of Water Supply, City of New York).

AVERAGE DISCHARGE.--36 years, 96 ft³/s (2.719 m³/s) (33.86 in/yr (860.0 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 2,790 ft³/s (79.0 m³/s) Nov. 8 (gage height, 6.29 ft (1.917 m)); minimum, 13 ft³/s (0.37 m³/s) Oct. 4-7 (gage height, 1.80 ft (0.549 m)).

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.

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

REVISIONS (WATER YEAR).--WSP 1702: 1952.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	35	210	1,070	72	48	272	115	120	338	28	26
2	16	76	190	488	509	56	562	112	115	223	234	24
3	15	145	183	293	706	62	350	107	102	175	97	23
4	14	112	176	254	286	112	570	102	102	146	67	21
5	13	130	183	213	216	100	618	96	92	128	52	22
6	13	112	528	160	177	83	355	89	110	108	45	29
7	108	106	502	120	156	86	269	83	172	94	41	24
8	76	848	365	110	144	232	242	80	115	84	40	21
9	41	1,150	674	110	110	172	204	132	104	76	37	19
10	32	450	454	100	100	146	266	170	96	68	46	18
11	29	310	322	94	94	148	218	738	86	64	80	17
12	27	255	251	89	92	196	189	346	80	56	48	17
13	27	217	232	83	92	168	168	254	81	52	42	17
14	25	600	196	78	92	170	151	208	72	51	38	20
15	25	445	175	75	94	189	136	199	64	54	59	33
16	23	294	158	72	74	184	126	213	60	49	65	21
17	23	238	126	70	72	642	120	182	56	43	49	18
18	22	210	123	70	74	481	112	360	57	41	45	38
19	22	194	115	76	70	282	116	245	54	37	45	26
20	21	390	110	105	72	221	115	338	49	34	65	20
21	21	253	107	70	67	187	104	481	60	42	48	17
22	21	221	234	86	65	160	99	307	72	37	42	18
23	21	199	177	170	60	142	96	245	52	31	40	43
24	21	189	148	105	56	128	94	208	64	28	37	24
25	21	176	140	92	54	120	88	180	65	27	34	21
26	21	450	138	89	52	177	92	158	48	30	33	19
27	20	306	128	88	42	138	100	153	42	107	31	18
28	36	266	118	89	40	123	168	172	60	48	30	17
29	74	245	107	86	-----	116	136	156	488	33	28	16
30	44	219	100	72	-----	116	123	132	802	29	26	32
31	37	-----	594	70	-----	116	-----	128	-----	27	26	-----
TOTAL	930	8,841	7,264	4,747	3,738	5,301	6,259	6,489	3,540	2,360	1,598	679
MEAN	30.0	295	234	153	134	171	209	209	118	76.1	51.5	22.6
MAX	108	1,150	674	1,070	706	642	618	738	802	338	234	43
MIN	13	35	100	70	40	48	88	80	42	27	26	16
CFSM	.78	7.66	6.08	3.97	3.48	4.44	5.43	5.43	3.06	1.98	1.34	.59
IN.	.90	8.54	7.02	4.59	3.61	5.12	6.05	6.27	3.42	2.28	1.54	.66

CAL YR 1972 TOTAL 55,536.00 MEAN 152 MAX 2,000 MIN 0 CFSM 3.95 IN 53.66
WTR YR 1973 TOTAL 51,746.00 MEAN 142 MAX 1,150 MIN 13 CFSM 3.69 IN 50.00

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-08	2030	6.29	2,790	3-17	1630	4.76	1,260
12-06	1730	5.02	1,520	4-04	1830	4.88	1,380
1-01	0630	4.91	1,410	6-30	0445	4.79	1,290
2-02	2100	5.07	1,570				

HUDSON RIVER BASIN

01365500 CHESTNUT CREEK AT GRAHAMSVILLE, N.Y.

LOCATION.--Lat 41°50'42", long 74°32'27", Sullivan County, 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 highway 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.

AVERAGE DISCHARGE.--35 years, 38.0 ft³/s (1.076 m³/s) (24.69 in/yr (627.1 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 3,560 ft³/s (101 m³/s) June 29 (gage height, 4.57 ft (1.393 m), from rating curve extended as explained below); minimum, 3.8 ft³/s (0.11 m³/s) Oct. 2 (gage height, 0.60 ft (0.183 m)).
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.

REMARKS.--Records fair. Slight seasonal regulation caused by Beaverdam Pond on Red Brook.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	12	61	283	18	22	166	46	47	155	24	14
2	5.0	26	53	144	82	28	268	43	48	106	323	12
3	7.6	49	50	95	190	30	150	40	40	90	152	12
4	7.0	29	48	84	90	81	253	38	44	120	110	11
5	6.4	36	51	54	68	54	225	35	38	80	97	10
6	5.9	27	199	44	52	45	126	33	69	66	66	14
7	44	23	141	42	48	46	95	31	147	54	30	12
8	24	282	114	40	44	90	93	30	69	46	25	12
9	18	184	206	37	36	75	77	39	54	42	24	10
10	14	87	147	34	33	59	126	93	44	38	24	10
11	11	67	100	35	32	54	93	236	37	35	44	10
12	11	60	80	32	31	61	75	114	33	32	30	9.5
13	10	50	77	30	30	54	59	87	37	29	23	8.8
14	9.9	330	66	30	29	60	47	69	32	26	19	13
15	9.7	180	57	30	28	76	51	69	29	25	29	19
16	9.3	100	54	29	27	70	48	85	26	24	30	12
17	9.0	79	44	30	26	120	44	69	25	22	22	11
18	8.8	64	44	30	25	130	40	215	26	20	18	26
19	8.8	56	41	38	24	93	44	106	26	18	19	18
20	8.8	152	41	52	23	73	40	136	24	21	26	14
21	8.8	86	41	32	24	61	37	163	99	200	17	12
22	9.2	67	150	54	22	54	37	101	91	40	13	12
23	11	54	99	64	21	50	37	81	50	21	12	33
24	10	47	81	44	21	46	34	68	158	19	11	18
25	9.5	43	75	37	20	44	31	61	106	18	10	15
26	9.2	158	73	34	21	83	33	54	56	21	8.8	12
27	8.9	95	66	32	20	59	53	59	46	106	10	11
28	15	89	57	30	20	50	83	79	199	44	10	11
29	21	81	48	28	-----	46	63	66	1,050	38	9.0	12
30	16	64	46	25	-----	47	51	53	430	26	11	13
31	13	-----	294	22	-----	48	-----	51	-----	22	13	-----
TOTAL	365.7	2,677	2,704	1,595	1,105	1,909	2,579	2,450	3,180	1,604	1,259.8	407.3
MEAN	11.8	89.2	87.2	51.5	39.5	61.6	86.0	79.0	106	51.7	40.6	13.6
MAX	44	330	294	283	190	130	268	236	1,050	200	323	33
MIN	5.0	12	41	22	18	22	31	30	24	18	8.8	8.8
CFSM	.56	4.27	4.17	2.46	1.89	2.95	4.11	3.78	5.07	2.47	1.94	.65
IN.	.65	4.76	4.81	2.84	1.97	3.40	4.59	4.36	5.66	2.85	2.24	.72

CAL YR 1972 TOTAL 19,513.8 MEAN 53.3 MAX 354 MIN 5.0 CFSM 2.55 IN 34.73
WTR YR 1973 TOTAL 21,835.8 MEAN 59.8 MAX 1,050 MIN 5.0 CFSM 2.86 IN 38.87

PEAK DISCHARGE BASE, 500 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-08	1800	2.90	880	5-10	2245	2.57	599
11-14	1130	2.70	709	6-21	1615	2.45	520
12-06	1700	2.66	668	6-24	1715	2.70	700
12-31	1415	2.72	718	6-28	2115	3.04	1,020
4-01	2115	2.47	532	6-29	1730	4.57	3,560
4-04	1900	2.67	676	8-02	0915	2.79	826

01366650 SANDBURG CREEK AT ELLENVILLE, N.Y.

LOCATION.--Lat 41°42'54", long 74°23'21", Ulster County, 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, 1955-57. April 1957 to current year.

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.

AVERAGE DISCHARGE.--16 years, 95.9 ft³/s (2.716 m³/s) (22.97 in/yr (583.4 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 2,360 ft³/s (66.8 m³/s) June 29 (gage height, 6.11 ft (1.862 m)); minimum, 15 ft³/s (0.42 m³/s) Oct. 6 (gage height, 0.71 ft (0.216 m)).

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.

REMARKS.--Records fair except those for winter periods, which are poor. Occasional regulation when filling swimming pools or small ponds upstream from station.

REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1969(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	34	268	686	150	62	369	196	218	606	38	22
2	17	46	230	492	302	72	886	178	198	354	483	22
3	16	92	210	369	753	92	569	171	162	256	342	22
4	16	62	213	339	462	188	702	163	162	201	167	22
5	16	81	198	312	362	228	938	147	149	190	100	19
6	16	98	369	256	301	199	534	133	147	149	73	22
7	87	60	507	230	261	177	412	118	230	122	60	24
8	53	498	378	170	246	378	369	107	162	102	55	22
9	28	706	537	130	210	331	327	175	127	87	50	20
10	24	336	498	120	150	268	525	263	109	81	50	19
11	22	233	414	130	140	243	434	830	92	73	71	18
12	21	213	333	150	98	249	350	447	85	65	59	19
13	20	167	312	180	100	232	301	321	85	59	51	18
14	19	531	276	200	100	218	261	227	81	55	46	21
15	19	602	244	210	120	233	235	198	68	69	48	53
16	22	375	233	215	118	217	211	271	62	69	55	30
17	26	279	215	152	74	424	193	204	59	59	48	25
18	30	227	215	94	72	454	162	594	58	51	44	34
19	27	192	213	96	80	334	166	387	60	48	40	34
20	27	450	165	187	90	272	159	393	54	45	45	26
21	27	366	165	125	89	233	144	531	55	68	40	23
22	27	285	399	162	90	208	139	366	85	63	36	22
23	27	230	408	342	86	185	131	291	66	50	33	37
24	28	195	342	224	68	165	137	250	105	44	31	30
25	28	173	309	170	62	152	117	215	118	39	29	26
26	28	618	294	147	62	275	121	184	74	54	28	24
27	27	510	279	139	60	247	157	207	60	89	27	22
28	31	381	247	150	52	201	409	268	244	71	26	22
29	53	348	210	130	-----	177	306	441	1,850	50	24	21
30	43	282	187	100	-----	171	234	306	1,600	43	22	20
31	37	-----	441	90	-----	195	-----	271	-----	39	22	-----
TOTAL	880	8,670	9,309	6,497	4,758	7,080	9,998	8,853	6,625	3,351	2,243	739
MEAN	28.4	289	300	210	170	228	333	286	221	108	72.4	24.6
MAX	87	706	537	686	753	454	938	830	1,850	606	483	53
MIN	16	34	165	90	52	62	117	107	54	39	22	18
CFSM	.50	5.10	5.29	3.70	3.00	4.02	5.87	5.04	3.90	1.90	1.28	.43
IN.	.58	5.69	6.11	4.26	3.12	4.65	6.56	5.81	4.35	2.20	1.47	.48

CAL YR 1972 TOTAL 62,821 MEAN 172 MAX 1,640 MIN 14 CFSM 3.03 IN 41.22
WTR YR 1973 TOTAL 69,003 MEAN 189 MAX 1,850 MIN 16 CFSM 3.33 IN 45.27

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-08	2145	4.82	1,440	4-04	2215	4.89	1,480
11-14	2045	3.92	960	5-11	0500	4.33	1,160
11-26	1315	4.07	1,040	5-18	0530	3.76	870
2-03	0115	4.02	1,010	6-29	1615	6.11	2,360
4-02	0215	4.20	1,100	8-02	1230	4.11	1,060

HUDSON RIVER BASIN

01367500 RONDOUT CREEK AT ROSENDALE, N.Y.

LOCATION.--Lat 41°50'35", long 74°05'11", Ulster County, 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 (1000 km²).

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 N.Y. 1970.

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.

EXTREMES.--Current year: Maximum discharge, 14,100 ft³/s (399 m³/s) June 30 (gage height, 18.60 ft (5.669 m)); minimum, 46 ft³/s (1.30 m³/s) Oct. 6 (gage height, 8.84 ft (2.694 m)).
Period of record: Maximum discharge, 35,800 ft³/s (1,010 m³/s) Oct. 16, 1955 (gage height, 36.8 ft (11.22 m), 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.

REMARKS.--Records good except those for winter periods, which are fair. 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. Flow regulated by Rondout Reservoir (see Hudson River Basin, Reservoirs in) since October 1950. 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 (704.5 km²), together with spillage during high flow from Rondout Reservoir.

REVISIONS.--WRD N.Y. 1966: Drainage Area

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	109	1,090	4,670	400	240	1,240	736	815	4,170	164	83
2	54	109	943	2,950	1,200	292	5,690	601	713	1,750	3,430	163
3	53	256	800	1,800	5,380	395	3,200	554	591	1,140	3,400	106
4	50	283	840	1,480	2,730	636	3,050	548	495	873	1,410	90
5	48	301	744	1,360	1,830	925	6,030	473	475	706	791	84
6	48	305	1,300	880	1,460	784	2,900	428	466	582	487	88
7	149	256	3,220	680	1,190	671	1,900	390	940	456	346	103
8	341	1,470	1,740	660	880	1,530	1,590	360	748	402	295	96
9	182	5,450	3,050	600	800	1,530	1,380	467	578	349	262	83
10	133	1,890	2,800	580	520	1,140	2,720	792	494	303	230	77
11	116	1,070	2,150	480	500	970	2,150	4,780	406	267	248	73
12	105	916	1,500	420	480	1,010	1,490	2,530	316	235	299	71
13	86	615	1,310	350	460	916	1,150	1,650	297	209	248	69
14	79	2,520	1,190	310	420	752	907	1,190	314	204	204	72
15	72	4,190	898	320	420	889	784	987	268	253	197	151
16	66	1,980	820	310	380	889	692	1,440	241	277	242	155
17	65	1,300	720	320	340	1,850	615	968	217	227	229	113
18	62	988	700	332	300	2,440	567	2,200	201	203	197	112
19	63	706	700	328	280	1,480	522	1,750	208	189	178	182
20	62	2,240	535	587	320	1,120	561	1,680	196	176	171	139
21	60	1,790	535	440	320	925	479	3,710	228	184	182	109
22	60	1,180	1,640	420	300	720	461	2,040	431	224	167	99
23	60	898	2,010	1,780	280	615	444	1,420	391	181	142	121
24	60	752	1,410	997	260	548	497	1,170	330	155	132	170
25	60	657	1,190	736	260	479	450	918	591	140	126	139
26	59	3,610	1,240	629	260	943	400	693	364	140	118	124
27	59	3,190	1,200	574	240	1,020	497	661	268	297	113	113
28	68	1,790	1,010	528	220	768	1,720	847	243	472	105	103
29	166	1,660	744	540	-----	594	1,260	1,900	5,230	285	99	95
30	185	1,200	629	440	-----	535	880	1,140	11,000	245	91	84
31	133	-----	2,130	440	-----	601	-----	1,070	-----	211	86	-----
TOTAL	2,857	43,681	40,788	26,941	22,430	28,207	46,226	40,093	28,055	15,505	14,389	3,267
MEAN	92.2	1,456	1,316	869	801	910	1,541	1,293	935	500	464	109
MAX	341	5,450	3,220	4,670	5,380	2,440	6,030	4,780	11,000	4,170	3,430	182
MIN	48	109	535	310	220	240	400	360	196	140	86	69
CAL YR 1972	TOTAL 331,622	MEAN 906	MAX 12,200	MIN 48								
WTR YR 1973	TOTAL 312,439	MEAN 856	MAX 11,000	MIN 48								

HUDSON RIVER BASIN

95

01368000 WALLKILL RIVER NEAR UNIONVILLE, N.Y.

LOCATION.--Lat 41°15'36", long 74°32'56", Sussex County, New Jersey, 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.

DRAINAGE AREA.--140 mi² (363 km²).

PERIOD OF RECORD.--September 1937 to current year.

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.

AVERAGE DISCHARGE.--36 years, 212 ft³/s (6.004 m³/s) (20.56 in/yr (522.2 mm/yr)).

EXTREMES.--Current year: maximum discharge 1,440 ft³/s (40.8 m³/s) Feb. 4 (gage height, 8.86 ft (2.701 m)); minimum, 35 ft³/s (0.99 m³/s) Oct. 5, 6, Sept. 13, 14 (gage height, 3.13 ft (0.954 m)).

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.

REMARKS.--Records fair, except those above 600 ft³/s (17 m³/s), which are poor. Water diverted from Morris Lake, upstream from station, by the Newton Water and Sewer Authority for municipal use. After use, the water is released into the Paulinskill (Delaware River basin); records furnished by the Delaware River Basin Commission (see Sta. 01367630).

REVISIONS.--WRD N.Y. 1966: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	68	362	661	170	130	318	432	461	1,200	81	47
2	51	80	384	725	400	150	681	353	450	969	241	49
3	42	143	377	632	906	180	903	329	388	806	355	45
4	39	137	388	500	1,360	226	974	419	342	546	313	55
5	36	146	373	450	1,310	278	995	384	397	434	212	54
6	35	145	417	400	1,070	260	1,020	315	353	520	142	56
7	124	116	641	330	872	249	903	269	452	408	113	76
8	239	236	740	290	716	293	764	238	469	258	97	54
9	170	792	764	250	500	359	698	280	342	204	104	44
10	99	1,110	813	190	350	318	663	364	278	178	91	41
11	72	1,070	806	170	300	276	703	656	230	161	81	39
12	62	860	705	170	290	278	667	846	200	149	94	38
13	64	612	575	160	260	269	542	848	190	136	113	37
14	66	535	509	150	250	243	445	685	214	142	83	39
15	59	791	447	150	260	249	386	478	165	127	81	145
16	56	930	400	150	220	254	351	456	145	136	238	125
17	51	864	360	150	180	337	315	432	145	120	182	75
18	48	685	340	170	170	511	304	637	134	104	124	64
19	47	480	320	210	180	472	285	766	143	94	100	91
20	56	573	300	302	190	373	274	742	133	88	96	72
21	53	698	384	240	190	309	247	672	124	241	125	55
22	51	667	502	200	190	280	230	623	154	425	94	49
23	51	511	711	399	180	260	218	516	161	359	78	76
24	51	399	786	408	180	234	243	498	152	216	69	97
25	49	346	725	307	170	218	230	463	143	143	63	72
26	47	399	606	254	160	329	260	403	127	124	59	60
27	44	544	527	254	140	423	304	348	109	120	54	54
28	44	518	469	260	130	335	533	357	100	111	52	49
29	77	445	350	230	-----	269	676	542	414	99	49	45
30	97	377	320	200	-----	245	597	564	921	96	45	42
31	81	-----	434	190	-----	254	-----	489	-----	86	44	-----
TOTAL	2,117	15,277	15,835	9,152	11,294	8,861	15,729	15,404	8,036	8,800	3,673	1,845
MEAN	68.3	509	511	295	403	286	524	497	268	284	118	61.5
MAX	239	1,110	813	725	1,360	511	1,020	848	921	1,200	355	145
MIN	35	68	300	150	130	130	218	238	100	86	44	37
CFSM	1.71	12.7	12.8	7.38	10.1	7.15	13.1	12.4	6.70	7.10	2.95	1.54
IN.	1.97	14.21	14.73	8.51	10.50	8.24	14.63	14.33	7.47	8.18	3.42	1.72

CAL YR 1972 TOTAL 116,675 MEAN 319 MAX 1,600 MIN 31 CFSM 7.98 IN 108.51
WTR YR 1973 TOTAL 116,023 MEAN 318 MAX 1,360 MIN 35 CFSM 7.95 IN 107.90

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-04	1800	8.86	1,440	7-01	1945	8.39	1,260

01369000 POCHUCK CREEK NEAR PINE ISLAND, N.Y.

LOCATION.--Lat 41°16'32", long 74°28'18", Orange County, 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.

AVERAGE DISCHARGE.--36 years, 163 ft³/s (4.616 m³/s) (22.59 in/yr (573.8 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 1,210 ft³/s (34.3 m³/s) Nov. 10; maximum gage height, 5.16 ft (1.573 m) July 2; minimum discharge, 19 ft³/s (0.54 m³/s) Oct. 5, 6; minimum gage height, 1.47 ft (0.448 m) Sept. 13-14.

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.

REMARKS.--Records fair except those for winter periods and discharges above 300 ft³/s (8.50 m³/s), which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	50	469	387	200	94	212	300	332	920	51	30
2	26	52	447	423	300	109	411	265	328	1,090	120	29
3	23	70	423	411	500	120	700	237	321	905	155	28
4	21	70	399	403	900	140	760	234	297	700	115	31
5	20	79	387	390	1,000	173	870	224	279	610	87	30
6	20	78	391	360	1,000	173	845	203	269	565	73	33
7	78	66	500	340	900	173	715	179	248	469	63	36
8	140	138	645	300	800	194	630	155	227	383	56	30
9	92	580	715	260	580	237	575	158	206	307	52	28
10	71	1,180	750	260	420	244	555	188	185	234	48	27
11	56	1,050	695	240	350	227	590	297	155	182	45	26
12	48	825	605	230	300	212	555	395	120	140	48	25
13	44	640	535	170	260	206	496	407	103	115	118	23
14	40	590	482	140	230	191	435	375	99	105	84	24
15	37	770	435	130	230	185	391	332	89	95	67	54
16	34	845	380	140	272	179	347	314	82	97	64	49
17	33	740	350	158	230	197	318	307	76	89	59	39
18	31	620	310	164	220	325	286	343	71	81	54	36
19	31	520	280	164	200	395	265	395	70	74	52	40
20	33	530	260	218	170	367	237	391	66	67	49	34
21	31	590	280	230	176	325	212	391	62	113	46	31
22	30	555	320	200	170	279	191	391	65	164	43	29
23	30	496	469	300	158	244	176	371	66	135	41	43
24	30	439	505	350	143	212	164	359	66	111	39	48
25	30	391	478	300	128	188	149	343	66	87	36	41
26	28	387	447	250	123	212	158	321	62	75	35	35
27	27	510	427	250	111	265	182	293	57	71	34	31
28	28	585	403	300	86	262	255	276	55	64	34	30
29	60	555	371	270	-----	237	325	311	111	60	30	27
30	62	496	339	240	-----	212	328	314	395	56	28	26
31	55	-----	343	220	-----	200	-----	311	-----	52	27	-----
TOTAL	1,317	14,497	13,840	8,198	10,157	6,777	12,333	9,380	4,628	8,216	1,853	993
MEAN	42.5	483	446	264	363	219	411	303	154	265	59.8	33.1
MAX	140	1,180	750	423	1,000	395	870	407	395	1,090	155	54
MIN	20	50	260	130	86	94	149	155	55	52	27	23
CFSM	.43	4.93	4.55	2.69	3.70	2.23	4.19	3.09	1.57	2.70	.61	.34
IN.	.50	5.50	5.25	3.11	3.86	2.57	4.68	3.56	1.76	3.12	.70	.38

CAL YR 1972 TOTAL 99,358 MEAN 271 MAX 1,790 MIN 17 CFSM 2.77 IN 37.72
WTR YR 1973 TOTAL 92,189 MEAN 253 MAX 1,180 MIN 20 CFSM 2.58 IN 34.99

PEAK DISCHARGE (BASE, 840 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-10	1530	4.92	1,210	4-05	1815	4.31	905
11-16	0130	4.24	870	7-02	0215	5.16	1,130
2-05	-	-	about 1,050				

01369500 QUAKER CREEK AT FLORIDA, N.Y.

LOCATION.--Lat 41°20'21", long 74°21'45", Orange County, 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.

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.

AVERAGE DISCHARGE.--36 years, 12.5 ft³/s (0.354 m³/s) (17.43 in/yr (442.7 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 802 ft³/s (22.7 m³/s) June 30 (gage height, 5.46 ft (1.664 m), from flood mark in well); minimum, 0.49 ft³/s (0.014 m³/s) Oct. 4, 5, 6 (gage height, 1.34 ft (0.408 m)).

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.

REMARKS.--Records good except those for winter periods, which are fair. Minor amount of diversion upstream during low flow periods for irrigation purposes. Some diversion from Glenmore Lake for village of Florida water supply.

REVISIONS (WATER YEARS).--WSP 951: 1938(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.74	1.5	45	65	7.0	4.2	70	13	21	113	2.7	.84
2	.57	3.4	33	39	14.0	5.2	188	11	18	54	32	.74
3	.53	5.0	35	30	221	5.7	79	17	14	39	11	.68
4	.53	3.1	31	27	80	16	130	17	18	34	5.7	.68
5	.53	6.1	37	23	58	12	110	12	15	48	4.2	.68
6	.53	3.7	86	18	45	12	62	9.4	12	29	3.1	3.4
7	19	2.9	71	15	42	13	48	7.9	11	21	2.4	1.4
8	6.5	109	52	13	41	33	61	7.2	8.7	16	2.1	.84
9	2.3	77	82	12	30	23	43	16	7.8	14	1.7	.68
10	1.5	26	62	11	20	19	74	20	7.2	11	1.2	.68
11	1.2	22	45	9.0	16	18	45	160	5.2	9.2	1.2	.62
12	1.4	22	35	8.6	13	22	35	50	4.6	7.2	1.2	.62
13	1.4	16	39	8.0	12	18	30	37	4.3	6.0	1.2	.57
14	1.2	110	30	6.9	11	15	25	28	3.7	5.2	1.0	1.8
15	1.2	76	26	7.8	20	16	22	29	2.7	4.8	1.2	4.8
16	1.0	46	29	8.2	16	15	19	37	2.5	4.7	1.5	1.5
17	1.5	37	21	8.6	10	81	17	24	2.3	3.7	1.4	1.0
18	1.0	29	18	8.6	8.0	48	16	65	2.5	3.0	1.2	1.4
19	1.5	26	17	11	7.8	31	14	31	2.5	2.5	1.0	1.2
20	1.5	109	27	19	8.6	25	12	34	2.2	3.4	1.0	.84
21	1.2	50	25	8.8	8.8	21	10	41	2.1	28	.94	.74
22	1.0	36	96	16	9.4	18	9.6	28	2.4	11	.94	.74
23	1.2	27	62	22	7.8	16	9.7	26	2.5	5.5	.84	2.3
24	1.0	24	47	13	6.6	14	13	26	7.4	4.2	.84	1.2
25	1.0	21	44	11	5.4	13	8.4	21	6.3	3.6	.74	1.0
26	1.0	83	40	10	5.2	43	15	18	3.1	4.5	.74	.94
27	1.2	42	41	9.8	4.6	20	22	16	2.4	3.9	.74	.84
28	2.9	32	30	9.4	4.2	15	42	30	2.8	3.0	.74	.74
29	4.0	28	24	9.0	-----	14	21	54	88	2.4	.74	.74
30	2.4	23	21	8.8	-----	13	16	23	395	2.0	.68	.74
31	1.7	-----	65	8.0	-----	13	-----	34	-----	1.7	.84	-----
TOTAL	64.23	1,096.7	1,316	474.5	858.4	632.1	1,266.7	942.5	677.2	498.5	86.78	34.95
MEAN	2.07	36.6	42.5	15.3	30.7	20.4	42.2	30.4	22.6	16.1	2.80	1.17
MAX	19	110	96	65	221	81	188	160	395	113	32	4.8
MIN	.53	1.5	17	6.9	4.2	4.2	8.4	7.2	2.1	1.7	.68	.57
CFSM	.21	3.76	4.36	1.57	3.15	2.09	4.33	3.12	2.32	1.65	.29	.12
IN.	.25	4.19	5.03	1.81	3.28	2.41	4.84	3.60	2.59	1.90	.33	.13

CAL YR 1972 TOTAL 8,155.88 MEAN 22.3 MAX 197 MIN .45 CFSM 2.29 IN 31.15
WTR YR 1973 TOTAL 7,948.56 MEAN 21.8 MAX 395 MIN .53 CFSM 2.24 TN 30.36

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-08	1945	3.70	304	4-02	0015	3.99	374
11-14	1415	3.27	209	4-04	1930	3.86	342
12-06	1930	3.30	215	5-11	0415	3.92	357
2-03	0230	4.03	384	6-30	0500	5.46	802
3-17	1615	3.38	232				

HUDSON RIVER BASIN

01371500 WALLKILL RIVER AT GARDINER, N.Y.

LOCATION.--Lat 41°41'10", long 74°09'56", Ulster County, on left bank 400 ft (122 m) upstream from bridge on US 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.

GAGE.--Water-stage recorder. Datum of gage is 185.70 ft (56.601 m) above mean sea level.

AVERAGE DISCHARGE.--49 years, 1,035 ft³/s (29.31 m³/s) (19.76 in/yr (501.9 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 13,900 ft³/s (394 m³/s) June 30 (gage height 12.43 ft (3.789 m)); minimum, 112 ft³/s (3.17 m³/s), Sept. 14 (gage height, 2.33 ft (0.710 m)). ft).

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.

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

REVISIONS.--WSP 756: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	298	2,160	5,430	1,200	520	2,160	1,930	1,970	8,290	285	157
2	133	294	2,290	4,240	1,500	658	7,440	1,570	1,750	5,820	2,100	171
3	145	472	2,140	3,030	3,500	847	6,060	1,410	1,550	4,360	2,500	157
4	133	538	2,220	2,680	6,410	1,370	5,890	1,670	1,390	3,400	1,420	148
5	123	556	2,060	3,140	5,570	1,770	8,010	1,580	1,430	2,630	910	148
6	120	598	2,540	2,630	4,920	1,640	5,850	1,310	1,390	2,510	628	157
7	307	532	4,530	1,750	4,210	1,510	4,570	1,060	2,050	2,070	478	294
8	874	1,510	3,560	955	3,000	2,090	3,820	892	1,950	1,590	397	258
9	719	5,680	5,330	860	2,000	2,290	3,480	1,070	1,480	1,160	350	188
10	502	4,420	4,960	820	1,500	1,980	4,600	1,680	1,080	892	321	154
11	355	3,720	4,170	780	1,100	1,710	4,150	5,540	856	726	294	139
12	276	3,440	2,800	740	1,000	1,700	3,140	4,850	726	628	271	151
13	240	2,850	2,400	720	900	1,640	2,640	3,680	1,220	556	258	125
14	227	3,820	2,000	700	860	1,470	2,260	2,880	955	502	345	120
15	211	5,800	1,700	700	840	1,460	1,970	2,370	726	484	325	235
16	192	4,520	1,500	720	780	1,390	1,740	2,710	586	484	307	392
17	181	3,580	1,300	720	740	2,320	1,530	2,250	514	472	403	330
18	171	2,960	1,200	800	720	3,440	1,410	3,150	484	425	397	253
19	167	2,430	1,300	800	700	2,580	1,310	3,340	466	375	350	227
20	164	4,290	1,300	900	680	2,130	1,200	3,100	466	345	397	227
21	164	4,080	1,830	1,000	660	1,760	1,070	4,710	454	330	303	203
22	171	3,000	3,760	1,060	640	1,510	955	3,370	740	330	289	174
23	167	2,430	4,940	2,230	620	1,330	892	2,570	574	330	253	215
24	164	2,040	4,010	2,070	600	1,150	1,020	2,280	544	430	219	240
25	157	1,720	3,410	1,650	580	1,020	982	2,090	733	526	199	262
26	151	3,330	3,090	1,320	560	1,890	919	1,860	592	526	185	223
27	151	3,870	2,910	1,140	540	2,200	1,270	1,800	466	712	178	188
28	160	2,800	2,500	1,000	500	1,780	2,770	2,110	403	610	171	167
29	316	2,530	2,120	1,100	-----	1,440	2,820	4,380	2,610	430	171	154
30	355	2,180	1,810	900	-----	1,250	2,320	3,130	12,000	350	154	142
31	345	-----	3,080	1,000	-----	1,330	-----	2,360	-----	312	145	-----
TOTAL	7,666	80,288	84,920	47,585	46,830	51,175	88,248	78,702	42,155	42,605	15,003	5,999
MEAN	247	2,676	2,739	1,535	1,673	1,651	2,942	2,539	1,405	1,374	484	200
MAX	874	5,800	5,330	5,430	6,410	3,440	8,010	5,540	12,000	8,290	2,500	392
MIN	120	294	1,200	700	500	520	892	892	403	312	145	120
CFSM	.35	3.76	3.85	2.16	2.35	2.32	4.14	3.57	1.98	1.93	.68	.28
IN.	.40	2.40	4.44	2.49	2.45	2.68	4.62	4.12	2.21	2.23	.78	.31

CAL YR 1972 TOTAL 608,293 MEAN 1,662 MAX 10,100 MIN 120 CFSM 2.34 IN 31.83
WTR YR 1973 TOTAL 591,176 MEAN 1,620 MAX 12,000 MIN 120 CFSM 2.28 IN 30.93

PEAK DISCHARGE (BASE, 6,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	0530	8.44	6,660	4-05	0315	9.94	9,100
11-15	0130	8.27	6,400	5-11	1215	8.54	6,810
2-03	2000	8.81	7,250	6-30	1330	12.43	13,900
4-02	0830	9.39	8,170				

HUDSON RIVER BASIN

99

01372035 HUDSON RIVER AT STAATSBURG, N.Y.

LOCATION.--Lat 41°50'06", long 73°56'34", Dutchess County, on east side of main pier at Norrie Yacht Basin, in Norrie State Park, at mouth of Indian Kill, 1.1 mi (1.8 km) southwest of Staatsburg, and 3.5 mi (5.6 km) north of Hyde Park.

DRAINAGE AREA.--11,629 mi² (30,119 km²).

PERIOD OF RECORD.--July 1972 to current year.

GAGE.--Water-stage recorder. Gage-height record converted to elevation above or below (-) mean sea level for publication.

Summaries of tide elevations during year are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 72 TO SEPTEMBER 73

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MAXIMUM	<u>Elev</u>	3.78	4.90	4.86	4.25	4.34	5.23	5.74	4.10	4.43	5.35	3.87	4.07
HIGH TIDE	<u>Date</u>	23	8	15	3, 29	3	17	5	18	30	1	21	15
MINIMUM	<u>Elev</u>	-2.02	-1.19	-4.02	-2.72	-1.75	-1.35	-1.75	-1.26	-1.21	-1.31	-1.21	-1.22
LOW TIDE	<u>Date</u>	15	24	16	30	17	19	11	5	27	24	26	28
MEAN HIGH TIDE		2.64	3.13	2.67	2.31	2.61	2.99	2.95	3.09	2.85	2.98	2.90	2.83
MEAN WATER LEVEL		0.97	1.45	1.20	0.96	1.04	1.36	1.39	1.40	1.16	1.25	1.20	1.18
MEAN LOW TIDE		-0.79	-0.24	-0.41	-0.48	-0.53	-0.29	-0.29	-0.37	-0.64	-0.65	-0.61	-0.65

HUDSON RIVER BASIN

01372065 CASPER CREEK NEAR WAPPINGERS FALLS, N.Y.

LOCATION.--Lat 41°37'53", long 73°55'40", Dutchess County, on left bank 40 ft (12 m) downstream from bridge on Camelot Road, 1.6 mi (2.6 km) upstream from mouth, and 2.4 mi (3.9 km) north of Wappingers Falls.

DRAINAGE AREA.--10.1 mi² (26.2 km²).

PERIOD OF RECORD.--Occasional miscellaneous measurements 1960-62. Jan. 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (12 m) (from topographic map).

EXTREMES.--Current year: Maximum discharge, 360 ft³/s (10.2 m³/s) June 30 (gage height, 4.56 ft (1.390 m)), from rating curve extended above 250 ft³/s (7.08 m³/s); minimum 2.4 ft³/s (0.068 m³/s) Sept. 22, 27.

Period of record: Maximum discharge 946 ft³/s (26.8 m³/s) Aug. 28, 1971 (gage height, 5.79 ft (1.765 m)), from rating curve extended above 410 ft³/s (11.6 m³/s); minimum 0.9 ft³/s (0.025 m³/s) Sept. 27, 1969 (gage height, 1.80 ft (0.549 m)).

REMARKS.--Records fair except those for winter periods, which are poor. Occasional regulation by lakes and irrigation pumping above station.

REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1970(M,P). WRD N.Y. 1972: 1971(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	5.5	37	118	20	12	92	14	21	113	6.8	3.6
2	3.5	9.0	30	70	54	14	182	13	19	54	26	3.4
3	3.4	15	25	46	168	14	88	16	16	37	12	3.4
4	3.4	6.7	24	48	103	36	85	20	17	38	9.1	3.4
5	3.4	10	26	49	67	26	113	14	14	33	7.7	3.6
6	3.5	7.5	67	37	51	24	66	12	12	27	6.8	4.4
7	38	6.7	100	26	43	23	49	10	12	24	5.4	3.4
8	23	33	58	21	40	47	50	9.1	10	21	5.2	3.0
9	6.7	61	122	18	35	35	41	21	8.6	18	5.0	3.0
10	5.5	18	76	16	28	29	51	16	7.7	16	4.8	3.0
11	4.6	14	52	15	24	26	40	73	6.8	16	4.6	3.0
12	4.6	13	38	14	21	26	34	40	6.3	15	4.6	3.0
13	4.6	11	36	13	17	23	30	29	11	13	4.4	2.8
14	3.9	89	31	12	16	24	28	22	9.5	13	4.4	3.3
15	4.0	87	27	12	28	26	26	21	6.3	15	4.6	9.1
16	3.9	41	27	12	22	23	24	36	5.9	13	4.4	3.8
17	3.9	26	22	13	19	33	22	23	5.4	11	4.4	3.0
18	3.8	20	19	14	16	45	20	38	5.2	11	4.2	3.8
19	4.0	17	18	16	14	37	20	27	5.2	10	4.2	3.4
20	3.9	80	20	37	14	32	18	31	5.0	9.1	4.2	2.8
21	3.6	41	23	21	14	28	16	49	5.4	21	3.8	2.7
22	3.8	27	82	27	17	25	16	34	21	14	3.8	2.5
23	3.9	20	67	54	20	22	17	27	15	9.5	3.8	4.4
24	6.1	17	49	30	17	19	24	24	9.1	9.1	3.6	3.0
25	4.9	15	42	22	15	18	16	21	8.6	8.6	3.6	2.8
26	4.6	62	40	18	14	28	18	19	7.2	16	3.6	2.5
27	4.3	37	42	18	13	32	23	23	6.8	11	3.4	2.5
28	5.5	27	34	19	12	23	31	31	7.2	9.1	3.4	2.5
29	17	23	28	18	-----	20	20	75	61	8.6	3.4	2.5
30	12	19	24	19	-----	20	16	39	234	7.7	3.4	2.3
31	6.1	-----	83	17	-----	20	-----	30	-----	7.2	3.6	-----
TOTAL	208.3	858.4	1,369	870	922	810	1,276	857.1	579.2	628.9	172.2	99.9
MEAN	6.72	28.6	44.2	28.1	32.9	26.1	42.5	27.6	19.3	20.3	5.55	3.33
MAX	38	89	122	118	168	47	182	75	234	113	26	9.1
MIN	3.4	5.5	18	12	12	12	16	9.1	5.0	7.2	3.4	2.3
CFSM	.67	2.83	4.38	2.78	3.26	2.58	4.21	2.73	1.91	2.01	.55	.33
IN.	.77	3.16	5.04	3.20	3.40	2.98	4.70	3.16	2.13	2.32	.63	.37
CAL YR 1972	TOTAL 9,105.8	MEAN 24.9	MAX 186	MIN 3.4	CFSM 2.47	IN 33.54						
WTR YR 1973	TOTAL 8,651.0	MEAN 23.7	MAX 234	MIN 2.3	CFSM 2.35	IN 31.86						

PEAK DISCHARGE (BASE, 120 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-14	1830	3.62	185	2-03	0330	3.71	209
12-06	2115	3.51	158	4-02	0500	4.07	262
12-09	0715	3.48	152	4-05	0100	3.78	149
12-31	2215	3.48	152	6-30	0545	4.56	360

01372200 WAPPINGER CREEK NEAR CLINTON CORNERS, N.Y.

LOCATION.--Lat 41°48'53", long 73°45'48", Dutchess County, on left bank 15 ft (5 m) downstream from bridge on County Highway 13, 850 ft (259 m) downstream from abandoned railroad bridge abutment, 1,900 ft (579 m) downstream from East Branch Wappinger Creek, and 1 mi (2 km) south of Clinton Corners.

DRAINAGE AREA.--92.4 mi² (239 km²).

PERIOD OF RECORD.--January 1956 to current year. Monthly discharge only for some periods, published in WSP 1722.

GAGE.--Water-stage recorder. Datum of gage is 234.10 ft (71.354 m) above mean sea level. Prior to Sept. 9, 1957, nonrecording gage and crest-stage gage at upstream side of bridge, at same datum. Sept. 9, 1957 to Oct. 24, 1968 water stage recorder at site 15 ft (5 m) upstream on bridge abutment on right bank at same datum.

AVERAGE DISCHARGE.--17 years, 119 ft³/s (3.370 m³/s) (17.49 in/yr (444.2 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 8,510 ft³/s (241 m³/s) June 30 (gage height, 16.13 ft (4.916 m)); minimum, 17 ft³/s (0.48 m³/s) Oct. 4, 5 (gage height, 4.62 ft (1.408 m)).

Period of record: Maximum discharge, 8,510 ft³/s (241 m³/s) June 30, 1973 (gage height, 16.13 ft (4.916 m)); minimum, 2.0 ft³/s (0.057 m³/s) Aug. 2, 1965; minimum daily, 2.2 ft³/s (0.062 m³/s) Sept. 17, 1964, July 31, Aug. 1, 1965.

REMARKS.--Records good except those for winter periods and period of no gage-height record, which are fair.

REVISIONS.--WSP 1902: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	33	240	753	150	96	206	113	224	1,900	98	46
2	22	40	250	585	423	107	849	109	214	1,040	513	40
3	18	75	230	447	1,660	124	666	118	182	714	495	37
4	17	55	230	432	937	203	609	144	180	848	302	33
5	17	53	230	420	690	190	933	122	169	942	229	34
6	18	50	300	336	540	169	660	111	146	579	185	34
7	107	42	620	237	468	159	543	100	141	444	159	31
8	169	83	560	180	426	276	489	94	127	363	141	28
9	70	216	660	170	381	268	417	111	113	308	127	27
10	48	124	620	150	260	227	435	120	102	268	118	25
11	33	98	540	140	220	208	381	411	92	247	111	25
12	27	85	440	130	190	214	322	308	90	219	109	24
13	27	73	400	120	180	201	284	268	111	195	102	26
14	25	240	370	120	170	201	255	214	107	182	94	58
15	26	399	320	122	211	234	234	190	85	211	94	42
16	25	240	290	124	208	214	214	286	77	195	92	37
17	25	188	230	127	140	322	198	219	73	167	90	34
18	23	159	210	129	130	396	188	322	70	149	81	39
19	23	141	200	134	130	305	185	302	70	134	75	40
20	23	350	200	310	134	263	175	268	64	124	68	31
21	22	400	210	170	141	232	154	441	83	164	64	27
22	23	300	363	172	156	214	144	384	245	156	60	26
23	22	230	372	519	159	195	139	313	136	127	55	52
24	22	200	319	319	134	177	156	279	96	111	52	43
25	22	170	289	253	118	169	134	245	92	100	48	36
26	21	230	281	219	113	297	141	216	77	118	46	30
27	21	330	299	203	104	255	162	208	68	190	46	25
28	22	250	266	219	94	206	159	216	68	201	45	24
29	42	230	229	198	-----	185	141	456	444	151	40	23
30	50	200	211	170	-----	177	124	310	4,680	124	37	23
31	39	-----	393	160	-----	185	-----	268	-----	107	50	-----
TOTAL	1,078	5,284	10,372	7,768	8,667	6,669	9,697	7,266	8,426	10,778	3,826	1,000
MEAN	34.8	176	335	251	310	215	323	234	281	348	123	33.3
MAX	169	400	660	753	1,660	396	933	456	4,680	1,900	513	58
MIN	17	33	200	120	94	96	124	94	64	100	37	23
CFSM	.38	1.90	3.63	2.72	3.36	2.33	3.50	2.53	3.04	3.77	1.33	.36
IN.	.43	2.13	4.18	3.13	3.49	2.68	3.90	2.93	3.39	4.34	1.54	.40

CAL YR 1972 TOTAL 73,337 MEAN 200 MAX 1,140 MIN 17 CFSM 2.16 IN 29.53
WTR YR 1973 TOTAL 80,831 MEAN 221 MAX 4,680 MIN 17 CFSM 2.39 IN 32.54

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
2-03	0600	10.73	1,960	6-30	1245	16.13	8,510
4-02	0715	8.14	989	7-05	0245	9.15	1,370
4-05	0300	8.42	1,090				

NOTE.--No gage-height record Nov. 20 to Dec. 21.

HUDSON RIVER BASIN

01372300 LITTLE WAPPINGER CREEK AT SALT POINT, N.Y.

LOCATION.--Lat 41°48'20", long 73°47'38", Dutchess County, on right bank 200 ft (61 m) downstream from abandoned railroad bridge abutment at Salt Point, and 0.6 mi (1.0 km) upstream from Wappinger Creek.

DRAINAGE AREA.--32.9 mi² (85.2 km²).

PERIOD OF RECORD.--January 1956 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 235 ft (72 m) (from topographic map). Prior to June 19, 1958 nonrecording gage and crest-stage gage at site 400 ft (122 m) upstream at datum 1.73 ft (0.527 m) higher.

AVERAGE DISCHARGE.--17 years, 42.1 ft³/s (1.192 m³/s) (17.38 in/yr (441.5 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 1,200 ft³/s (34.0 m³/s) June 30 (gage height, 6.97 ft (2.124 m)); minimum, 1.3 ft³/s (0.037 m³/s) Oct. 2-5 (gage height, 2.37 ft (0.722 m)).

Period of record: Maximum discharge, 1,200 ft³/s (34.0 m³/s) June 30, 1973 (gage height, 6.97 ft (2.124 m)); minimum, 0.04 ft³/s (0.001 m³/s) Sept. 13, 14, 16, 1964.

REMARKS.--Records fair. Occasional regulation by small ponds above station.

REVISIONS.--WSP 1902: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	4.5	72	277	52	32	90	39	79	690	16	12
2	1.5	5.1	68	269	126	38	380	36	75	345	93	11
3	1.3	17	59	193	607	45	348	40	65	197	121	8.4
4	1.3	14	58	171	445	69	283	62	61	170	68	7.2
5	1.6	14	58	162	287	77	413	53	59	171	46	6.6
6	1.9	13	91	133	209	68	300	45	51	130	34	6.0
7	4.8	10	255	90	174	63	221	38	49	97	27	5.7
8	11	14	213	75	156	100	180	36	41	73	24	5.1
9	6.9	40	255	62	138	112	153	46	35	59	21	5.1
10	4.8	34	253	56	108	96	154	53	28	50	19	4.8
11	3.4	23	203	51	80	87	147	168	25	43	17	5.7
12	3.1	19	159	46	68	90	120	171	25	37	19	6.0
13	2.7	15	145	40	58	85	103	141	33	32	18	5.7
14	2.3	46	133	38	60	84	91	111	32	29	16	5.7
15	2.7	102	117	38	74	100	84	94	25	37	14	8.9
16	3.8	77	108	38	75	93	75	111	20	37	17	8.9
17	3.3	50	88	39	54	123	68	93	19	28	16	6.9
18	3.6	37	79	40	45	159	66	129	17	24	14	6.6
19	4.5	30	73	43	46	132	61	145	18	22	12	6.9
20	4.0	90	71	99	47	111	57	130	16	18	12	6.6
21	4.0	106	69	63	51	94	50	197	18	25	11	5.7
22	4.0	77	112	62	59	85	47	209	41	34	9.5	5.1
23	4.0	53	136	145	62	75	43	162	28	25	7.8	6.9
24	5.1	41	120	118	50	68	48	135	22	19	6.9	8.9
25	5.7	36	108	88	42	63	42	112	21	15	6.3	6.9
26	5.4	74	103	77	41	105	45	94	18	14	6.0	6.0
27	5.1	112	109	72	35	105	58	85	16	48	6.0	5.1
28	5.7	85	100	74	32	81	60	85	14	66	6.0	4.8
29	8.9	73	84	64	-----	73	52	153	69	34	6.3	4.5
30	11	66	75	60	-----	69	45	121	800	24	6.9	3.6
31	6.0	-----	135	56	-----	69	-----	96	-----	18	6.6	-----
TOTAL	135.0	1,377.6	3,709	2,839	3,281	2,651	3,884	3,190	1,820	2,611	703.3	197.3
MEAN	4.35	45.9	120	91.6	117	85.5	129	103	60.7	84.2	22.7	6.58
MAX	11	112	255	277	607	159	413	209	800	690	121	12
MIN	1.3	4.5	58	38	32	32	42	36	14	14	6.0	3.6
CFSM	.13	1.40	3.65	2.78	3.56	2.60	3.92	3.13	1.85	2.56	.69	.20
IN.	.15	1.56	4.19	3.21	3.71	3.00	4.39	3.61	2.06	2.95	.80	.22

CAL YR 1972 TOTAL 23,779.8 MEAN 65.0 MAX 490 MIN 1.3 CFSM 1.98 IN 26.89
WTR YR 1973 TOTAL 26,398.2 MEAN 72.3 MAX 800 MIN 1.3 CFSM 2.20 IN 29.85

PEAK DISCHARGE (BASE, 260 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-07	1700	4.40	275	4-02	1945	5.10	445
12-09	2300	4.37	269	4-05	0515	5.06	435
1-01	1915	4.57	312	6-30	1445	6.97	1,200
2-03	1400	5.90	670				

01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, N.Y.

LOCATION.--Lat 41°39'11", long 73°52'23", Dutchess County, 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.

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.

AVERAGE DISCHARGE.--45 years (1928-73), 245 ft³/s (6.938 m³/s) (18.38 in/yr (466.9 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 10,400 ft³/s (295 m³/s) June 30 (gage height, 14.12 ft (4.304 m)); minimum, 22 ft³/s (0.62 m³/s) Oct. 6 (gage height, 2.61 ft (0.796 m)).

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)).

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 741: 1932. WSP 1902: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	61	521	1,460	290	193	441	234	516	5,180	116	60
2	33	62	552	1,380	503	205	1,690	218	468	2,250	420	62
3	29	106	480	1,090	2,830	248	1,660	218	410	1,410	869	56
4	27	113	491	967	2,390	371	1,300	303	375	1,220	491	50
5	25	104	491	981	1,590	447	1,960	273	371	1,530	344	46
6	24	104	638	813	1,230	395	1,510	238	319	1,030	262	45
7	75	94	1,370	500	1,040	362	1,150	209	295	750	215	43
8	277	118	1,150	400	939	545	981	190	269	578	182	41
9	148	395	1,440	350	883	659	855	218	238	463	163	39
10	99	307	1,390	320	560	552	834	265	205	380	143	36
11	76	238	1,170	290	470	491	820	778	179	335	133	35
12	62	209	946	270	380	485	666	848	163	291	131	35
13	58	179	848	250	370	474	565	708	208	258	122	34
14	56	380	799	250	340	441	503	539	224	241	113	36
15	52	953	680	248	410	521	463	452	176	288	107	66
16	52	673	645	248	458	485	425	584	151	288	109	68
17	51	503	500	251	290	597	400	503	139	221	106	56
18	47	415	450	258	270	890	376	604	128	193	107	55
19	46	353	430	269	260	715	353	722	126	171	94	61
20	44	750	425	545	265	604	340	604	118	153	86	56
21	44	862	441	380	284	527	299	883	113	187	79	48
22	42	652	680	340	303	474	284	897	362	224	75	44
23	42	497	911	918	344	430	269	736	303	168	70	57
24	41	410	778	757	284	390	303	631	205	139	65	75
25	40	371	687	571	248	358	269	533	168	122	62	64
26	40	521	652	480	238	578	262	463	151	131	60	55
27	39	708	687	436	200	624	327	430	128	182	57	49
28	40	552	638	463	187	485	340	441	122	335	58	44
29	56	497	545	436	-----	425	307	904	331	215	56	40
30	73	436	480	320	-----	395	262	785	5,530	165	55	37
31	70	-----	701	310	-----	405	-----	631	-----	135	51	-----
TOTAL	1,842	11,623	22,616	16,551	17,856	14,771	20,214	16,042	12,491	19,233	5,001	1,493
MEAN	59.4	387	730	534	638	476	674	517	416	620	161	49.8
MAX	277	953	1,440	1,460	2,830	890	1,960	904	5,530	5,180	869	75
MIN	24	61	425	248	187	193	262	190	113	122	51	34
CFSM	.33	2.14	4.03	2.95	3.52	2.63	3.72	2.86	2.30	3.43	.89	.28
IN.	.38	2.39	4.65	3.40	3.67	3.04	4.15	3.30	2.57	3.95	1.03	.31

CAL YR 1972 TOTAL 155,688 MEAN 425 MAX 2,400 MIN 24 CFSM 2.35 IN 32.00
WTR YR 1973 TOTAL 159,733 MEAN 438 MAX 5,530 MIN 24 CFSM 2.42 IN 32.83

PEAK DISCHARGE (BASE 1,500 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-09	1615	5.98	1,580	4-02	1815	6.73	2,070
1-01	1830	5.98	1,580	4-05	1045	6.97	2,170
2-03	1430	8.42	3,550	6-30	2100	14.12	10,400

01372800 FISHKILL CREEK AT HOPEWELL JUNCTION, N.Y.

LOCATION.--Lat 41°34'22", long 73°48'25", Dutchess County, on right bank 400 ft (122 m) upstream from bridge on State Highway 376, 500 ft (152 m) upstream from small tributary, 0.6 mi (1.0 km) south of State Highway 82, at Hopewell Junction.

DRAINAGE AREA.--57.3 mi² (148 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1956-57. October 1957 to current year (prior to March 1963, no winter records).

GAGE.--Water-stage recorder. Datum of gage is 229.53 ft (69.961 m) above mean sea level. Prior to October 1963 water-stage recorder at site 400 ft (122 m) downstream at datum 0.17 ft (0.052 m) lower.

AVERAGE DISCHARGE.--10 years (1964-73), 84.2 ft³/s (2.385 m³/s) (19.96 in/yr (507.0 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 1,990 ft³/s (56.4 m³/s) Feb. 3 (gage height, 8.20 ft (2.499 m)), from rating curve extended as explained below; minimum, 7.7 ft³/s (0.22 m³/s) Sept. 14; minimum gage height, 1.14 ft (0.347 m) Oct. 6.

Period of record: Maximum discharge, 1,990 ft³/s (56.4 m³/s) Feb. 3, 1973 (gage height, 8.20 ft (2.499 m)), from rating curve extended above 1,100 ft³/s (31.2 m³/s); minimum, 0.92 ft³/s (0.026 m³/s) Sept. 2, 3, 1966 (gage height, 0.75 ft (0.229 m)).

REMARKS.--Records fair. Occasional regulation during low flow from unknown source. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1902: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	21	247	324	90	76	132	86	127	661	41	9.2
2	15	20	247	301	232	86	443	84	111	289	111	9.7
3	13	34	191	223	1,630	95	451	88	99	159	134	9.2
4	12	34	183	222	1,130	141	385	117	100	286	77	8.8
5	12	30	203	255	685	144	652	97	101	640	58	8.5
6	11	28	253	197	490	123	495	87	89	570	49	34
7	62	25	493	144	383	113	371	79	83	321	43	31
8	167	51	373	120	327	151	345	73	77	225	38	17
9	53	285	553	110	324	171	319	83	70	172	35	12
10	33	157	503	96	229	137	371	98	63	161	35	9.7
11	25	99	393	90	185	125	381	279	57	145	32	9.2
12	23	80	306	88	161	125	283	262	53	131	29	8.8
13	22	68	283	86	152	121	236	192	61	112	27	8.1
14	21	150	261	85	126	121	204	153	68	102	25	8.1
15	19	435	218	84	157	135	182	137	53	105	24	20
16	20	291	214	84	161	120	166	218	49	106	24	19
17	19	205	182	85	118	186	154	172	46	92	24	15
18	18	162	176	86	116	347	145	196	43	75	22	14
19	17	134	137	87	104	226	134	192	43	68	21	16
20	18	264	140	144	97	180	122	160	41	64	20	14
21	17	253	152	104	102	158	113	254	38	78	17	13
22	19	180	232	96	109	146	109	213	38	84	16	11
23	17	146	285	264	111	133	105	168	42	65	15	17
24	17	125	221	168	96	121	116	156	38	55	14	18
25	16	117	194	124	87	116	103	140	35	50	14	14
26	16	248	182	111	85	186	105	128	33	85	13	12
27	15	359	194	107	81	183	116	127	31	93	13	10
28	14	229	176	100	76	137	130	136	34	65	13	8.8
29	22	185	153	96	-----	124	108	173	112	55	14	8.8
30	31	158	139	94	-----	117	95	132	767	50	11	9.7
31	25	-----	188	92	-----	123	-----	156	-----	49	10	-----
TOTAL	808	4,573	7,672	4,267	7,644	4,467	7,071	4,636	2,602	5,213	1,019	403.6
MEAN	26.1	152	247	138	273	144	236	150	86.7	168	32.9	13.5
MAX	167	435	553	324	1,630	347	652	279	767	661	134	34
MIN	11	20	137	84	76	76	95	73	31	49	10	8.1
CFSM	.46	2.65	4.31	2.41	4.76	2.51	4.12	2.62	1.51	2.93	.57	.24
IN.	.52	2.97	4.98	2.77	4.96	2.90	4.59	3.01	1.69	3.38	.66	.26

CAL YR 1972 TOTAL 51,241.1 MEAN 140 MAX 836 MIN 8.1 CFSM 2.44 IN 33.27
WTR YR 1973 TOTAL 50,375.6 MEAN 138 MAX 1,630 MIN 8.1 CFSM 2.41 IN 32.70

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-15	0615	4.91	467	4-05	0600	5.82	707
11-26	2245	4.80	445	4-10	1915	5.02	490
12-09	1315	5.51	613	5-11	1715	4.58	401
2-03	0900	8.20	1,990	6-30	1930	7.10	1,000
3-18	0100	4.68	421	7-05	2130	6.38	688

HUDSON RIVER BASIN

105

01375000 CROTON RIVER AT NEW CROTON DAM, NEAR CROTON-ON-HUDSON, N.Y.

LOCATION.--Lat 41°13'32", long 73°51'32", Westchester County, 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 due to well pumpage upstream. Fragmentary records published during August 1933 to September 1941 at "Cornell Dam near Croton" and "at New Croton Dam near Croton" are equivalent. Oct. 1, 1941 to Sept. 30, 1955 published as "at New Croton Dam near Croton".

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.

EXTREMES.--Current year: Maximum discharge, 11,900 ft³/s (337 m³/s) Feb. 3 (gage height, 9.82 ft (2.993 m)); minimum, 0.56 ft³/s (0.016 m³/s) Oct. 24, 25, 27 (gage height, 0.25 ft (0.076 m)).

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.

REMARKS.--Records fair. 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.

REVISIONS (WATER YEARS).--WRD N.Y. 1969: 1968(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.93	1.0	1,590	1,380	583	170	504	598	546	1,160	1.9	1.7
2	.89	1.2	1,460	1,170	2,320	140	1,350	525	455	785	90	1.8
3	.85	1.2	1,260	935	8,980	180	1,270	490	344	568	290	1.8
4	.85	.9	1,180	1,070	4,170	364	1,230	598	332	1,620	188	1.7
5	.82	.7	1,240	1,360	2,770	420	1,910	518	350	2,090	99	1.8
6	.82	.6	1,530	1,260	2,040	364	1,460	441	290	1,710	43	1.8
7	1.5	.6	2,240	1,090	1,580	332	1,380	371	260	1,590	12	1.7
8	.89	15	1,740	973	1,380	598	1,570	320	224	1,300	2.3	1.7
9	.82	613	2,320	883	1,350	770	1,610	613	168	928	1.9	1.7
10	.75	740	2,020	680	1,110	546	2,160	860	132	650	2.6	1.7
11	.75	583	1,770	560	950	434	2,220	1,100	60	490	7.5	1.7
12	.75	568	1,620	525	900	406	1,690	1,050	9.9	371	7.2	1.6
13	.71	539	1,570	399	700	378	1,410	913	1.6	265	7.2	1.5
14	.78	1,220	1,480	296	800	338	1,180	785	9.7	220	4.5	1.6
15	1.6	1,780	1,420	265	1,600	332	1,000	695	18	255	3.7	1.6
16	1.6	1,220	1,540	260	1,100	314	875	763	9.1	228	2.6	1.5
17	1.8	1,030	1,390	255	900	575	793	665	32	168	1.9	1.4
18	1.7	928	1,180	204	800	868	748	680	1.9	111	1.9	1.5
19	1.8	800	1,010	192	600	620	725	650	1.2	68	2.0	1.4
20	1.7	1,300	1,030	314	450	483	763	680	2.0	47	2.2	1.4
21	1.7	1,210	1,090	270	380	413	620	1,060	.96	275	4.1	1.4
22	1.6	1,030	1,460	245	350	392	539	928	1.0	344	3.0	1.3
23	.96	928	1,580	755	310	357	518	755	.96	204	1.7	1.4
24	.59	905	1,270	688	280	270	583	763	1.1	108	1.7	1.4
25	.59	943	1,090	511	260	265	518	658	1.3	50	1.6	1.3
26	.59	1,650	1,000	476	230	740	688	525	1.2	22	1.6	1.2
27	.59	1,710	1,010	532	220	860	965	448	1.0	19	1.6	1.2
28	.93	1,300	920	965	200	583	1,150	553	1.0	16	1.8	1.2
29	1.4	1,130	830	1,060	-----	462	935	1,170	30	13	1.8	1.2
30	1.2	1,090	748	785	-----	392	733	875	1,080	11	2.0	1.2
31	1.1	-----	935	680	-----	371	-----	658	-----	5.5	1.7	-----
TOTAL	33.56	23,238.2	42,523	21,038	37,313	13,737	33,097	21,708	4,364.92	15,691.5	794.0	45.4
MEAN	1.08	775	1,372	679	1,333	443	1,103	700	145	506	25.6	1.51
MAX	1.8	1,780	2,320	1,380	8,980	868	2,220	1,170	1,080	2,090	290	1.8
MIN	.59	.60	748	192	200	140	504	320	.96	5.5	1.6	1.2

CAL YR 1972 TOTAL 257,366.90 MEAN 703 MAX 4,480 MIN .59
WTR YR 1973 TOTAL 213,583.58 MEAN 585 MAX 8,980 MIN .59

01376500 SAW MILL RIVER AT YONKERS, N.Y.

LOCATION.--Lat 40°56'11", long 73°53'12", Westchester County, 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.

DRAINAGE AREA.--25.6 mi² (66.3 km²).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 90.99 ft (27.734 m) above mean sea level.

AVERAGE DISCHARGE.--29 years (1944-73) 30.6 ft³/s (0.867 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 633 ft³/s (17.9 m³/s) Feb. 3 (gage height, 5.34 ft (1.628 m)); minimum daily, 4.4 ft³/s (0.12 m³/s) Nov. 7.

Period of record: Maximum discharge, 890 ft³/s (25.2 m³/s) Oct. 16, 1955; maximum gage height, 5.55 ft (1.692 m) June 20, 1972; 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.

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.

REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1965, 1966.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	5.5	160	109	60	24	75	67	49	53	18	16
2	7.6	25	72	75	191	31	158	63	50	32	129	7.6
3	8.0	18	57	65	581	31	79	83	40	25	75	6.1
4	8.0	9.3	51	114	234	62	118	96	45	79	32	8.8
5	8.4	13	58	93	176	48	194	63	43	71	24	18
6	9.3	10	89	74	166	45	96	56	37	43	21	12
7	173	4.4	144	62	116	45	81	53	38	24	21	11
8	58	203	92	61	102	96	134	52	56	18	18	9.3
9	17	354	179	57	107	72	107	127	35	18	17	8.4
10	15	74	119	54	87	53	219	91	63	17	18	8.0
11	10	53	95	54	80	48	162	83	37	17	15	16
12	8.8	51	76	52	73	49	104	73	32	17	22	8.4
13	13	45	78	52	69	49	93	68	38	16	43	10
14	13	187	67	53	65	46	83	59	36	15	18	27
15	8.4	235	76	54	102	46	76	57	28	52	17	60
16	6.8	90	136	56	76	43	73	61	26	23	23	21
17	10	72	70	57	63	60	71	51	24	15	23	11
18	14	62	54	56	56	73	67	68	24	13	20	16
19	15	59	53	60	57	51	74	50	24	12	24	12
20	17	183	69	75	51	46	65	75	24	17	21	10
21	17	83	74	57	41	34	59	96	23	286	16	8.2
22	17	67	187	62	40	34	54	57	35	86	18	8.2
23	17	59	127	106	40	31	60	52	32	45	15	25
24	17	51	91	64	32	30	68	72	23	28	12	13
25	17	45	73	56	28	28	53	48	18	24	13	10
26	15	167	69	53	26	123	139	45	21	53	11	11
27	11	117	76	76	24	53	129	40	20	34	11	10
28	33	68	69	126	22	39	163	87	24	24	13	8.0
29	49	58	63	169	-----	36	86	85	78	21	13	9.0
30	17	62	59	87	-----	35	74	53	167	19	13	8.0
31	7.6	-----	86	69	-----	37	-----	57	-----	18	14	-----
TOTAL	651.9	2,530.2	2,769	2,258	2,765	1,498	3,014	2,088	1,190	1,215	748	407.0
MEAN	21.0	84.3	89.3	72.8	98.8	48.3	100	67.4	39.7	39.2	24.1	13.6
MAX	173	354	187	169	581	123	219	127	167	286	129	60
MIN	6.8	4.4	51	52	22	24	53	40	18	12	11	6.1
Δ	5.94	6.04	1.65	3.12	7.16	5.84	2.17	4.84	10.8	8.82	8.30	5.32

CAL YR 1972 TOTAL 21,871.7 MEAN 59.8 MAX 496 MIN 4.4 Δ 5.74
WTR YR 1973 TOTAL 21,134.1 MEAN 57.9 MAX 581 MIN 4.4 Δ 3.76

Δ Indicated net diversion, in cubic feet per second, for diversion and return in upstream supply.

Reservoirs in Hudson River basin

- 01335900 Delta Reservoir.--Lat 43°16'20", long 75°25'50", Oneida County, on superstructure of gatehouse at Delta Dam on Mohawk River 4 mi (6 km) upstream from Rome. Drainage area 145 mi² (376 km²). Period of record May 1913 to current year. Nonrecording gage read daily at 0800. Datum of gage is at mean sea level, Barge Canal datum. Extremes for current year: Maximum contents observed, 3,028 mil ft³ (85.8 hm³) Apr. 5 (elevation, 551.9 ft (168.22 m)); minimum contents observed, 1,152 mil ft³ (32.6 hm³); Mar. 2, 3 (elevation, 532.6 ft (162.34 m)). 1951-1972: maximum contents observed, 3,136 mil ft³ (88.8 hm³) June 22, 1972 (elevation, 552.8 ft (168.49 m)); minimum contents 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)). 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.
- 01343900 Hinckley Reservoir.--Lat 43°18'45", long 75°06'25", Oneida County, on south side of north gatehouse at Hinckley Dam on West Canada Creek at Hinckley, 2.2 mi (3.5 km) east of Prospect. Drainage area 374 mi² (969 km²). Period of record March 1914 to current year. Non-recording gage read once daily at 0800. Datum of gage is at mean sea level, Barge Canal datum. Extremes for current year: Maximum contents observed, 3,706 mil ft³ (105 hm³) May 19 (elevation, 1,227.9 ft (374.26 m)); minimum observed, 476 mil ft³ (13.5 hm³) Mar. 4 (elevation, 1,189.0 ft (362.41 m)). 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. 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 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.
- 01350100 Schoharie 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, at gatehouse located at Dividing Weir Dyke and 1.6 mi (2.6 km) south of Shokan, N. Y. Drainage area, 256 mi² (663 km²). Period of record: September 1913 to current year. Nonrecording gage read daily at 0900. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York). Extremes for current year: Maximum contents observed, in (01363398) West basin, 51,725 mil gal (195.8 hm³) June 30 (elevation, 592.18 ft (180.496 m)), in (01363399) East basin, 83,111 mil gal (314.6 hm³) July 1 (elevation, 588.55 ft (179.390 m)); minimum observed, in West basin, 35,283 mil gal (133.5 hm³) Nov. 4 (elevation, 574.81 ft (175.202 m)), in East basin, 54,377 mil gal (205.8 hm³) Nov. 8 (elevation, 570.14 ft (173.779 m)). 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)). 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 operations 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) 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.
- REVISIONS (WATER YEARS).--WRD New York 1970 Drainage Area. WRD New York 1972: 1968.
- 01366400 Rondout Reservoir.--Lat 41°47'57", long 74°25'48", Ulster County, 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). Extremes for current year: Maximum contents observed, 52,915 mil gal (200.3 hm³) June 30 (elevation 840.70 ft (256.245 m)); minimum observed 43,571 mil gal (164.9 hm³) Sept. 30 (elevation 826.42 ft (251.893 m)). 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)). Reservoir is formed by an earth-fill rock faced 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, Department of Water Resources.

HUDSON RIVER BASIN

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	Elevation (feet)	Contents (cubic feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (cubic feet)	Change in contents (equivalent in cfs)
	01335900 Delta reservoir †			01343900 Hinckley Reservoir ‡		
Sept.	543.3	2,070		1,209.0	1,750	
Oct.	540.3	1,777	-109	1,210.5	1,870	+ 44.8
Nov.	541.8	1,920	+ 55.2	1,225.0	3,320	+559
Dec.	546.3	2,383	+173	1,223.0	3,085	- 87.7
CAL YR 1972			- 4.52			+ 31.4
Jan.	538.0	1,570	-304	1,215.5	2,305	-291
Feb.	532.7	1,159	-170	1,192.1	630	-692
Mar.	550.3	2,836	+626	1,217.1	2,460	+683
Apr.	550.5	2,860	+ 9.27	1,225.9	3,437	+377
May	550.8	2,896	+ 13.5	1,226.2	3,477	+ 14.9
June	550.4	2,848	- 18.5	1,226.0	3,450	- 10.4
July	547.7	2,537	-116	1,219.5	2,700	-280
Aug.	545.5	2,295	- 90.4	1,211.1	1,919	-292
Sept.	544.7	2,210	- 32.8	1,208.7	1,726	- 74.5
WTR YR 1973			- 4.44			- 0.76

	Elevation (feet)	Contents (gallons)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (gallons)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (gallons)	Change in contents (equivalent in cfs)
	01363398 Ashokan Reservoir † West Basin			01363399 Ashokan Reservoir † East Basin			01366400 Rondout Reservoir ‡		
Sept.	580.15	39,939		576.23	63,272		830.87	46,387	
Oct.	574.95	35,398	-227	571.11	55,774	-374	832.78	47,622	+ 61.6
Nov.	584.77	44,225	+455	580.50	69,892	+728	836.18	49,860	+115
Dec.	591.10	50,582	+317	587.65	81,601	+584	834.09	48,473	- 68.8
CAL YR 1972			+ 3.44			+ 3.76			- 2.87
Jan.	589.60	49,020	- 77.9	587.25	80,930	- 33.5	828.85	45,099	-169
Feb.	587.24	46,669	-130	586.55	79,755	- 64.9	832.13	47,201	+116
Mar.	590.28	49,714	+152	587.22	80,879	+ 56.1	835.86	49,648	+122
Apr.	590.43	49,873	+ 8.20	587.30	81,014	+ 6.96	839.42	52,040	+123
May	590.35	49,789	- 4.19	587.20	80,846	- 8.38	839.23	51,910	- 6.50
June	591.34	50,837	+ 54.0	588.55	83,111	+117	840.08	52,489	+ 29.9
July	590.28	49,714	- 56.0	583.72	75,089	-400	838.55	51,450	- 51.7
Aug.	588.23	47,655	-103	581.52	71,538	-177	835.51	49,416	- 97.5
Sept.	585.03	44,468	-164	479.18	67,821	-192	826.42	43,571	-301
WTR YR 1973			+ 19.2			+ 19.3			- 11.9

† Elevation at 2400 by interpolation

‡ Elevation at 0900 on first day of following month.

Note.--All figures of total contents expressed in millions.

HUDSON RIVER BASIN

109

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, N.Y. (see Reservoirs in Hudson River basin) for municipal supply of Utica. Diversion began prior to 1921. Records furnished by Utica Board of Water Supply.

Diversion from Schoharie Reservoir, N.Y. (see Reservoirs in Hudson River basin) 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 for municipal supply of Watervliet (see station 01359519).

01363401 Diversion from Ashokan Reservoir, N.Y. (see Reservoirs in Hudson River Basin) 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, N.Y. 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 and Department of Water Resources, City of New York.

Diversion, in cubic feet per second, water year October 1972 to September 1973

Month	01343899 Hinckley Reservoir	01362230 Schoharie Reservoir	01363401 Ashokan Reservoir	01366399 Rondout Reservoir
Oct.	29.7	117	891	1,030
Nov.	28.5	151	676	1,160
Dec.	28.3	75.8	554	1,210
CAL YR 1972	30.3	110	731	1,180
Jan.	29.2	33.0	591	1,360
Feb.	31.3	0	619	1,130
Mar.	32.3	0	586	1,270
Apr.	28.9	0	605	1,080
May.	30.6	0	693	1,080
June	33.6	136	887	1,380
July	36.2	230	848	1,310
Aug.	36.8	426	866	1,360
Sept.	34.1	438	879	1,370
WTR YR 1973	31.6	134	725	1,230

HACKENSACK RIVER BASIN

01376800 HACKENSACK RIVER AT WEST NYACK, N.Y.

LOCATION.--Lat 41°05'44", long 73°57'52", Rockland County, on right bank 20 ft (6 m) downstream from Penn Central Transportation Company 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.).

EXTREMES.--Current year: Maximum discharge 1,550 ft³/s (43.9 m³/s) Feb. 3 (gage height, 9.38 ft (2.859 m), from floodmarks), from rating curve extended as explained below; minimum 11 ft³/s (0.31 m³/s) Sept. 15 (gage height, 2.57 ft (0.783 m)).

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.

REMARKS.--Records fair. Flow regulated by DeForest Lake (see Hackensack River basin, Reservoirs in). Diversion from gaging station pool for municipal supply for village of Nyack (see Hackensack River basin, Reservoirs in). Discharge given for this station represents the flow of Hackensack River downstream from this diversion.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	20	123	127	76	32	66	44	49	351	24	23
2	20	25	120	119	306	31	230	30	49	87	38	23
3	20	22	74	91	1,320	32	205	30	38	22	21	23
4	20	21	60	109	726	60	229	38	33	29	20	22
5	20	25	63	121	282	67	373	38	40	41	24	23
6	20	22	153	107	192	59	171	37	43	38	23	23
7	74	21	378	87	118	56	80	31	55	29	22	22
8	25	108	156	89	68	88	108	27	59	25	22	22
9	23	51	211	51	86	104	105	83	52	20	22	22
10	20	21	195	45	75	82	258	125	54	21	22	22
11	20	23	166	41	77	70	263	130	35	22	22	21
12	20	20	128	39	61	65	149	106	25	21	32	20
13	20	20	113	37	49	58	110	84	25	17	26	18
14	20	77	48	36	57	50	84	58	24	22	23	20
15	19	101	58	35	85	46	70	40	19	25	23	19
16	19	89	131	35	96	43	48	44	20	25	22	20
17	19	79	137	35	86	82	30	41	29	23	23	19
18	19	67	97	35	65	108	36	55	19	23	25	20
19	21	56	82	37	56	87	37	50	18	23	24	19
20	20	153	61	53	48	65	41	58	17	23	25	19
21	20	195	63	50	44	53	39	139	18	28	25	19
22	20	144	160	51	47	63	36	106	22	22	25	19
23	20	53	185	109	46	53	37	82	22	21	24	21
24	19	31	145	96	44	26	44	86	21	23	23	19
25	20	29	119	75	40	25	41	67	20	23	23	19
26	20	121	102	62	39	117	87	48	20	25	24	19
27	20	201	101	67	39	145	131	38	21	24	23	19
28	31	119	88	137	32	63	222	61	21	23	23	19
29	28	65	74	164	-----	39	149	341	44	24	23	19
30	19	60	65	131	-----	39	83	189	409	23	23	19
31	21	-----	82	101	-----	40	-----	72	-----	23	23	-----
TOTAL	698	2,039	3,738	2,372	4,260	1,948	3,562	2,378	1,321	1,146	742	612
MEAN	22.5	68.0	121	76.5	152	62.8	119	76.7	44.0	37.0	23.9	20.4
MAX	74	201	378	164	1,320	145	373	341	409	351	38	23
MIN	19	20	48	35	32	25	30	27	17	17	20	18
CAL YR 1972	TOTAL 28,503	MEAN 77.9	MAX 555	MIN 17								
WTR YR 1973	TOTAL 24,816	MEAN 68.0	MAX 1,320	MIN 17								

HACKENSACK RIVER BASIN

111

01377000 Hackensack River at Rivervale, N. J.

LOCATION.--Lat 40°59'55", long 73°59'27", Bergen County, on right bank at 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.--October 1941 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 22.51 ft (6.861 m) above mean sea level.

AVERAGE DISCHARGE.--32 years, 90.1 ft³/s (2.552 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 840 ft³/s (23.8 m³/s) Feb. 5, gage height, 4.10 ft (1.250 m); minimum, 15 ft³/s (0.42 m³/s) Feb. 1, June 15, gage height, 1.54 ft (0.469 m).

Period of record: Maximum discharge, 1,500 ft³/s (42.5 m³/s) May 29, 1968, gage height, 6.23 ft (1.899 m); no flow for part of Jan. 16, 1970 due to upstream regulation.

REMARKS.--Records excellent. Flow regulated by Lake De Forest and Lake Tappan (see p.112). Diversions at Lake De Forest and West Nyack, N.Y., for municipal water supply (see p.113). Records of water quality for the current year are published in Part 2 of New Jersey report.

COOPERATION.--Gage-height record collected in cooperation with Hackensack Water Co.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	103	146	152	23	56	134	101	98	439	23	174
2	102	97	151	212	231	58	340	76	105	281	236	159
3	101	65	169	217	162	63	280	81	67	65	143	150
4	100	63	167	210	96	131	327	97	69	63	54	123
5	99	66	144	233	662	115	488	72	73	102	31	96
6	98	63	145	158	301	101	331	64	86	65	32	94
7	160	62	237	130	216	98	157	55	144	46	31	94
8	77	185	281	178	139	212	222	53	86	40	27	91
9	69	139	306	132	149	180	182	215	83	31	25	91
10	68	51	286	77	118	136	324	206	93	31	21	91
11	66	49	278	49	108	113	361	273	65	30	32	129
12	68	52	166	63	106	108	236	198	46	29	33	165
13	68	45	44	74	87	101	173	149	63	19	61	162
14	66	149	58	57	86	78	139	108	54	20	36	165
15	65	157	69	54	179	85	112	86	30	49	31	183
16	64	134	125	62	149	77	101	91	26	47	30	162
17	64	152	112	67	122	169	81	71	42	31	24	141
18	64	178	95	70	102	182	73	131	28	30	24	63
19	67	176	160	57	95	133	78	87	33	22	29	38
20	63	241	198	122	86	103	79	121	33	24	29	37
21	62	239	217	76	86	92	68	223	31	294	75	37
22	62	234	306	96	93	90	72	183	43	101	132	37
23	62	234	301	205	84	83	72	173	56	38	109	43
24	66	230	292	150	70	52	97	185	37	34	109	37
25	106	180	285	113	68	49	78	126	33	33	109	49
26	105	201	280	46	72	245	149	88	36	28	109	79
27	104	176	278	36	66	198	195	73	33	36	108	118
28	116	181	269	60	60	132	265	166	42	34	107	115
29	132	223	260	77	-----	82	228	270	114	29	106	112
30	107	179	240	33	-----	77	151	339	526	28	133	112
31	104	-----	188	25	-----	84	-----	177	-----	21	180	-----
TOTAL	2,659	4,304	6,253	3,291	3,816	3,483	5,593	4,338	2,275	2,140	2,229	3,147
MEAN	85.8	143	202	106	136	112	186	140	75.8	69.0	71.9	105
MAX	160	241	306	233	662	245	488	339	526	439	236	183
MIN	62	45	44	25	23	49	68	53	26	19	21	37

CAL YR 1972 TOTAL 56,153 MEAN 153 MAX 1,030 MIN 27
WTR YR 1973 TOTAL 43,528 MEAN 119 MAX 662 MIN 19

Reservoirs in Hackensack River basin

01376700 LAKE DE FOREST.--Lat 41°06', long 74°57', Rockland County, N.Y., (formerly published as "De Forest Lake") at dam on Hackensack River, 0.85 mi (1.37 km) north of West Nyack, N.Y. Drainage area, 26.6 mi² (168.9 km²). Period of record, February 1956 to current year in reports of Geological Survey. Bristol recording water-level gage. Datum of gage is at mean sea level.

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 (elevation, 80.00 ft or 24 m), 4,068,000,000 gal (15.40 hm³). 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 (18.06 m) and 24-inch (0.6 m) Howell-Bunger valve at elevation 61.25 ft (18.67 m). Reservoir used for storage and water released by Hackensack Water Co., for public water supply. Elevation record and capacity table furnished by Hackensack Water Co.

01376950 LAKE TAPPAN.--Lat 41°01'05", long 74°00'05", Bergen County, 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 in reports of Geological Survey. Water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by earthfill dam, completed in 1966. Capacity at spillway level (elevation, 55.00 ft or 17 m), 3,378,000,000 gal (12.79 hm³). Flow regulated by four Bascule gates and one sluice gate. Water is released by Hackensack Water Co., for public water supply. Elevation record and capacity table furnished by Hackensack Water Co.

01377450 WOODCLIFF LAKE.--Lat 41°01', long 74°03', Bergen County, 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 in reports of Geological Survey. Monthend contents only prior to September 1953, published in WSP 1302, 1722. Water-stage recorder. Datum of gage is at mean sea level. Gage readings to 0.1 ft (0.03 m) above or below spillway level and capacity table furnished by Hackensack Water Co.

Reservoir is formed by earthfill dam, completed about 1905. Capacity at spillway level (elevation, 94.33 ft or 28.75 m), 835,000,000 gal (3.160 hm³). 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.

01378480 ORADELL RESERVOIR.--Lat 40°57', long 74°02', Bergen County, at dam on Hackensack River at Oradell. Drainage area, 113 mi² (293 km²). Period of record, December 1922 to current year in reports of Geological Survey. Monthend contents only prior to September 1953, published in WSP 1302, 1722. Water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by hollow concrete dam, completed in 1922. Capacity at spillway level (elevation, 22.66 ft or 6.91 m), 2,850,000,000 gal (10.79 hm³). 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 (1.6 km) downstream from dam for municipal supply. Elevation record and capacity table furnished by Hackensack Water Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)
<hr/>						
01376700 Lake De Forest†						
Sept. 30.....	82.59	4,881	-	46.58	1,138	-
Oct. 31.....	82.59	4,881	0	43.95	613	-26.2
Nov. 30.....	85.28	5,737	+44.1	46.10	1,024	+21.2
Dec. 31.....	85.46	5,800	+3.1	45.45	898	-6.3
CAL YR 1972.....	-	-	+0.3	-	-	-11.0
Jan. 31.....	85.37	5,769	-1.5	47.80	1,432	+26.6
Feb. 28.....	85.18	5,702	-3.7	55.02	3,492	+114
Mar. 31.....	85.27	5,733	+1.5	55.06	3,505	+0.6
Apr. 30.....	85.18	5,702	-1.6	55.08	3,511	+0.3
May 31.....	85.12	5,680	-1.1	55.08	3,511	0
June 30.....	85.45	5,797	+6.0	55.12	3,524	+0.7
July 31.....	84.75	5,560	-11.8	55.06	3,505	-0.9
Aug. 31.....	83.82	5,267	-14.6	52.96	2,837	-33.3
Sept. 30.....	82.35	4,806	-23.8	47.19	1,286	-80.0
WTR YR 1973.....	-	-	-0.3	-	-	+0.6
<hr/>						
01377450 Woodcliff Lake†						
Sept. 30.....	91.63	694	-	17.44	1,833	-
Oct. 31.....	93.03	766	+3.6	19.34	2,171	+16.9
Nov. 30.....	95.83	918	+7.8	23.04	2,937	+39.5
Dec. 31.....	95.73	910	-0.4	23.02	2,933	-0.2
CAL YR 1972.....	-	-	+0.1	-	-	+1.3
Jan. 31.....	95.43	894	-0.8	22.32	2,928	-0.2
Feb. 28.....	95.33	889	-0.3	22.97	2,921	-0.4
Mar. 31.....	95.43	894	+0.2	23.03	2,935	+0.7
Apr. 30.....	95.43	894	0	23.20	2,974	+2.0
May 31.....	95.33	889	-0.2	23.20	2,974	0
June 30.....	95.63	905	+0.8	23.33	3,004	+1.5
July 31.....	94.43	840	-3.2	21.04	2,511	-24.6
Aug. 31.....	93.13	772	-3.4	18.11	1,949	-28.0
Sept. 30.....	89.33	575	-10.2	18.10	1,947	-0.1
WTR YR 1973.....	-	-	-0.5	-	-	+0.5

† Elevation at 0800 on first day of following month.

HACKENSACK RIVER BASIN

113

Diversions from Hackensack River basin

- 01376699 Spring Valley Water Co., diverts water at Lake De Forest for public supply in Rockland County, N.Y. Records furnished by Spring Valley Water Co.
- 01376810 Village of Nyack, N.Y., diverts water from Hackensack River 100 ft (30.5 m) downstream from gaging station on Hackensack River at West Nyack, N.Y., from municipal supply. Records furnished by Board of Water Commissioners of Nyack, N.Y.
- 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, N.J. 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, N.J., for municipal supply. Records furnished by Hackensack Water Co.

DIVERSIONS, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Month	Spring Valley Water Co.	West Nyack, N.Y.	Hackensack Water Co.
October.....	6.68	2.41	142
November.....	5.41	2.26	140
December.....	3.31	2.23	137
CAL YR 1972.....	5.25	2.62	145
January.....	3.77	2.28	193
February.....	4.44	2.26	189
March.....	4.00	2.26	187
April.....	5.47	2.46	199
May.....	4.38	2.46	194
June.....	6.59	2.83	218
July.....	7.64	2.86	207
August.....	10.8	2.94	229
September.....	9.30	2.78	207
WTR YR 1973.....	5.99	2.50	187

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 1972 TO SEPTEMBER 1973

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 1972....	0	0	0	0
January.....	0	0	0	0
February.....	0	0	0	0
March.....	0	0	0	0
April.....	0	0	0	0
May.....	0	0	0	0
June.....	0	0	1.27	0
July.....	0	0	6.76	0
August.....	0	0	.97	0
September.....	0	0	5.92	0
WTR YR 1973....	0	0	1.25	0

PASSAIC RIVER BASIN

01387450 MAHWAH RIVER NEAR SUFFERN, N.Y.

LOCATION.--Lat 41°08'27", long 74°07'01", Rockland County, on right bank at upstream side of 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.

AVERAGE DISCHARGE.--15 years, 23.7 ft³/s (0.671 m³/s) (26.16 in/yr (664.5 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 1,220 ft³/s (34.6 m³/s) Feb. 2 (gage height, 7.04 ft (2.146 m)); minimum, 1.0 ft³/s (0.028 m³/s) Sept. 30; minimum gage height, 1.14 ft (0.347 m) Sept. 13, 14.

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 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.

REMARKS.--Records fair. Occasional regulation from unknown source.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.4	83	71	34	14	52	35	34	179	4.5	1.7
2	1.3	4.0	64	55	353	14	172	32	32	89	14	1.7
3	1.3	5.0	49	43	552	16	110	32	28	56	13	1.7
4	1.2	3.8	44	56	212	32	114	37	27	60	9.8	1.6
5	1.2	6.3	46	59	117	29	143	32	31	50	6.8	2.7
6	1.3	7.5	76	44	87	25	91	28	27	41	5.3	5.0
7	31	7.0	114	33	73	22	69	25	37	31	4.6	2.4
8	6.5	248	85	29	65	43	81	23	35	25	4.1	2.1
9	4.0	333	130	28	59	44	69	45	27	20	3.7	1.8
10	2.7	114	101	24	44	36	133	49	26	17	3.7	1.6
11	1.9	66	79	22	38	32	98	65	20	15	6.8	1.5
12	1.7	58	62	20	33	32	73	54	16	13	16	1.4
13	1.7	43	57	18	31	29	59	45	14	12	13	1.4
14	1.6	149	47	17	29	26	50	38	14	11	7.3	1.7
15	1.5	160	51	17	41	25	44	34	12	18	5.5	6.8
16	1.4	87	56	18	37	24	40	41	11	16	5.0	2.7
17	1.4	63	40	18	30	49	37	32	10	13	4.5	2.2
18	1.3	49	33	18	26	58	35	44	9.5	10	4.0	4.1
19	1.4	42	31	20	25	41	32	35	9.5	9.0	3.7	3.5
20	1.5	107	39	38	24	35	31	37	8.5	8.5	3.5	2.1
21	1.6	74	43	23	24	31	28	60	7.8	27	3.3	1.7
22	1.6	54	96	33	24	28	26	44	8.0	19	3.0	1.6
23	1.6	44	96	100	22	25	25	39	8.3	12	2.9	1.9
24	1.6	38	72	58	19	23	26	42	7.5	8.8	2.7	1.9
25	1.6	34	58	41	17	22	23	35	7.0	7.8	2.5	1.4
26	1.5	105	51	35	20	58	32	31	6.3	7.5	2.4	1.3
27	1.5	84	51	41	16	45	40	29	5.8	7.3	2.6	1.2
28	2.9	58	43	81	14	35	79	40	5.8	6.5	2.2	1.1
29	15	47	37	65	-----	31	50	102	66	5.8	2.0	1.1
30	4.0	43	33	47	-----	29	40	50	237	5.2	1.7	1.1
31	2.7	-----	46	40	-----	29	-----	41	-----	4.8	1.8	-----
TOTAL	102.9	2,136.0	1,913	1,212	2,066	982	1,902	1,276	788.0	805.2	165.9	64.0
MEAN	3.32	71.2	61.7	39.1	73.8	31.7	63.4	41.2	26.3	26.0	5.35	2.13
MAX	31	333	130	100	552	58	172	102	237	179	16	6.8
MIN	1.2	2.4	31	17	14	14	23	23	5.8	4.8	1.7	1.1

CAL YR 1972 TOTAL 14,311.5 MEAN 39.1 MAX 333 MIN 1.1
WTR YR 1973 TOTAL 13,413.0 MEAN 36.7 MAX 552 MIN 1.1

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-08	1945	6.02	777	4-04	2130	4.03	242
11-14	1700	4.47	329	4-10	1130	4.06	248
2-02	2015	7.04	1,220	5-29	0315	3.99	235
4-02	0300	3.94	226	6-30	0930	4.36	307

01387500 Ramapo River near Mahwah, N. J.

LOCATION.--Lat 41°05'51", long 74°09'48", Bergen County, 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.--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.

GAGE.--Water-stage recorder. Datum of gage is 253.10 ft (77.145 m) above mean sea level. 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.

AVERAGE DISCHARGE.--55 years (1902-6, 1922-73), 226 ft³/s (6.400 m³/s), 26.02 in/yr (661 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,340 ft³/s (123 m³/s) Feb. 3, gage height, 9.77 ft (2.978 m); minimum, 20 ft³/s (0.57 m³/s) Sept. 14, gage height, 2.23 ft (0.680 m).

Period of record: Maximum discharge, about 12,400 ft³/s (351 m³/s) Oct. 9, 1903 (gage height, 11.0 ft or 3.34 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.

REMARKS.--Records excellent. Diurnal fluctuation occasionally at low flow caused by power plants above station. Records of water quality for the current year are published in New Jersey report.

REVISIONS (WATER YEARS).--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).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	108	672	557	387	123	412	303	270	1,180	45	24
2	30	135	602	530	1,500	123	1,390	272	262	600	139	21
3	27	148	512	419	3,750	135	1,290	281	216	402	135	20
4	23	141	492	464	2,110	264	991	312	206	512	88	22
5	22	154	497	502	1,160	262	1,320	264	224	525	64	165
6	24	144	675	414	813	226	905	230	230	434	52	88
7	238	137	1,190	305	660	214	650	202	289	305	44	40
8	210	1,020	952	292	574	342	644	186	266	232	40	31
9	91	2,450	1,120	236	533	394	626	340	198	188	39	26
10	53	1,150	948	206	427	319	905	347	188	157	40	24
11	47	611	750	190	357	279	860	653	150	139	45	23
12	50	520	620	175	305	277	623	629	126	118	58	22
13	45	439	577	159	279	256	560	474	156	97	95	21
14	36	875	522	148	262	234	440	384	128	88	52	31
15	34	1,460	489	146	357	228	380	337	100	130	42	55
16	34	944	535	148	349	218	330	419	88	106	39	37
17	56	669	434	154	277	374	300	367	82	87	36	28
18	82	549	362	154	246	535	294	464	78	73	34	40
19	87	472	340	171	224	427	270	427	76	64	32	32
20	85	823	372	294	210	342	260	384	72	88	31	28
21	82	778	412	214	210	296	230	522	67	309	31	25
22	81	591	681	279	208	270	212	477	73	262	29	23
23	80	494	802	838	198	248	206	407	75	154	29	33
24	80	432	644	579	171	218	224	407	67	100	28	32
25	78	394	560	414	150	200	196	349	60	80	26	29
26	77	743	499	367	144	464	266	300	55	73	24	27
27	77	944	439	409	137	459	332	270	52	72	24	26
28	141	660	414	771	128	337	552	394	53	63	24	24
29	204	557	352	757	-----	289	462	549	482	55	23	23
30	142	502	309	563	-----	270	357	349	1,870	50	22	22
31	113	-----	387	469	-----	264	-----	300	-----	46	26	-----
TOTAL	2,458	19,044	18,160	11,324	16,126	8,887	16,487	11,599	6,259	6,789	1,436	1,042
MEAN	79.3	635	586	365	576	287	550	374	209	219	46.3	34.7
MAX	238	2,450	1,190	838	3,750	535	1,390	653	1,870	1,180	139	165
MIN	22	108	309	146	128	123	196	186	52	46	22	20

CAL YR 1972 TOTAL 133,539 MEAN 365 MAX 2,580 MIN 17
WTR YR 1973 TOTAL 119,611 MEAN 328 MAX 3,750 MIN 20

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-08	2245	8.81	2,890	4-02	1945	7.51	1,630
2-03	0330	9.77	4,340	6-30	0545	8.10	2,180

01413500 EAST BRANCH DELAWARE RIVER AT MARGARETVILLE, N.Y.

LOCATION.--Lat 42°08'41", long 74°39'14", Delaware County, on right bank at downstream side of bridge on Fair Street at intersection with Main Street at Margaretville (revised), 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 site and datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--36 years, 296 ft³/s (8.383 m³/s) (24.66 in/yr (626.4 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 7,230 ft³/s (205 m³/s) June 29 (gage height, 9.88 ft (3.011 m)); minimum, 20 ft³/s (0.57 m³/s) Oct. 6 (gage height, 1.98 ft (0.604 m)).

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.

REMARKS.--Records good except those for winter periods, which are fair. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	55	614	2,530	236	130	405	326	400	1,790	63	36
2	48	107	513	1,680	1,160	156	1,240	317	380	1,150	151	33
3	22	358	480	1,130	1,990	204	1,230	321	321	828	191	30
4	21	245	445	984	984	308	1,480	335	316	681	105	29
5	20	318	552	806	770	276	1,790	303	285	765	84	28
6	20	270	2,100	585	620	224	1,240	276	312	518	73	46
7	226	235	2,670	435	546	224	1,010	249	1,050	416	66	42
8	255	724	1,710	350	502	508	858	232	330	350	61	35
9	93	2,720	1,930	310	420	450	728	266	420	295	57	32
10	69	1,410	1,380	280	355	390	1,040	280	345	256	53	29
11	55	991	1,100	260	308	365	900	806	290	224	52	27
12	55	800	879	240	270	420	770	674	360	195	53	26
13	74	626	935	220	260	440	674	686	728	175	52	25
14	62	949	728	200	240	480	585	590	574	161	46	26
15	67	893	614	190	240	644	513	656	455	165	107	39
16	63	662	579	184	200	674	465	858	400	154	125	33
17	60	552	435	176	180	1,100	420	704	370	128	75	28
18	54	475	400	184	190	1,070	390	2,360	355	113	73	32
19	52	420	370	204	190	818	415	1,600	312	105	75	40
20	49	746	350	455	170	698	460	1,450	254	100	61	33
21	47	579	335	208	150	596	385	1,760	232	110	53	28
22	47	486	644	294	140	524	360	1,380	263	105	52	26
23	45	430	585	686	130	455	335	1,080	212	89	53	66
24	47	390	508	405	120	405	321	879	240	79	42	52
25	44	350	480	330	120	370	290	716	188	75	42	40
26	43	1,390	470	308	110	440	281	590	164	75	39	36
27	41	1,160	440	290	100	380	290	574	140	97	38	32
28	41	963	395	281	100	326	445	508	220	84	36	28
29	72	830	335	258	-----	303	380	579	2,660	87	33	27
30	76	662	312	204	-----	294	340	480	3,440	77	32	25
31	62	-----	1,310	224	-----	290	-----	486	-----	68	32	-----
TOTAL	1,954	20,796	24,598	14,891	10,801	13,962	20,040	22,321	16,016	9,515	2,075	1,009
MEAN	63.0	693	793	480	386	450	668	720	534	307	66.9	33.6
MAX	255	2,720	2,670	2,530	1,990	1,100	1,790	2,360	3,440	1,790	191	66
MIN	20	55	312	176	100	130	281	232	140	68	32	25
CFSM	.39	4.25	4.87	2.94	2.37	2.76	4.10	4.42	3.28	1.88	.41	.21
IN.	.45	4.75	5.61	3.40	2.47	3.19	4.57	5.09	3.66	2.17	.47	.23

CAL YR 1972	TOTAL 156,948	MEAN 429	MAX 2,810	MIN 20	CFSM 2.63	IN 35.82
WTR YR 1973	TOTAL 157,978	MEAN 433	MAX 3,440	MIN 20	CFSM 2.66	IN 36.05

PEAK DISCHARGE (BASE, 2,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	0630	6.97	3,390	4-04	2115	6.38	2,800
12-06	1945	7.91	4,450	5-18	0645	6.68	3,100
1-01	0745	6.54	2,960	6-29	2100	9.88	7,230
2-03	0045	6.94	3,360				

DELAWARE RIVER BASIN

117

01414500 MILL BROOK NEAR DUNRAVEN, N.Y.

LOCATIONS.--Lat 42°06'22", long 74°43'51", Delaware County, 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.

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.

AVERAGE DISCHARGE.--36 years, 54.4 ft³/s (1.541 m³/s) (29.55 in/yr (750.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 1,300 ft³/s (36.8 m³/s) June 29 (gage height, 6.54 ft (1.993 m)); minimum, 3.4 ft³/s (0.096 m³/s) Oct. 6, 7 (gage height, 2.85 ft (0.869 m)).

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).

REMARKS.-- Records poor.

REVISIONS (WATER YEARS).--WSP 1432: 1937. WRD N.Y. 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	16	110	554	45	21	91	44	71	159	12	10
2	3.9	25	94	257	388	22	223	43	64	104	39	7.7
3	3.7	61	88	159	407	28	212	44	55	79	27	6.8
4	3.7	48	81	133	168	51	281	41	52	74	20	6.2
5	3.5	49	126	108	119	47	306	40	47	81	17	6.2
6	3.4	43	379	79	96	45	201	37	58	63	14	7.0
7	36	39	374	60	85	48	151	33	242	52	13	7.0
8	29	194	253	54	79	108	133	31	133	44	12	6.8
9	18	441	277	49	62	94	110	37	100	41	11	6.2
10	13	201	204	45	51	79	153	42	85	35	10	5.7
11	11	151	156	41	40	75	136	128	70	32	10	5.4
12	12	124	128	39	36	85	117	121	65	29	11	5.1
13	12	102	121	37	35	81	102	117	78	27	11	5.1
14	11	306	100	35	34	89	92	99	64	25	10	5.9
15	12	253	88	32	39	104	82	108	51	26	19	6.5
16	11	168	82	30	32	108	72	138	46	24	20	6.2
17	11	128	60	29	30	194	65	133	41	21	14	5.7
18	9.7	104	61	29	30	187	60	355	42	19	12	7.0
19	9.7	91	55	43	35	136	55	242	36	18	12	6.5
20	9.0	153	50	65	31	108	50	215	31	17	11	5.9
21	8.3	115	47	70	28	94	46	234	29	20	9.3	5.7
22	8.0	99	99	94	24	82	43	178	29	18	8.6	5.4
23	8.0	89	85	140	22	82	41	143	30	16	7.4	15
24	8.3	81	75	89	21	72	39	117	50	13	7.0	12
25	8.0	72	70	70	21	66	36	97	34	13	6.8	9.0
26	7.7	242	67	60	20	86	34	83	29	13	6.5	7.4
27	7.4	208	61	54	20	72	34	79	26	17	6.5	6.8
28	8.6	178	54	50	21	65	55	71	38	13	6.2	6.2
29	17	148	48	45	-----	62	49	89	446	17	6.2	5.9
30	18	124	45	43	-----	60	45	76	350	13	5.9	5.7
31	17	-----	269	41	-----	56	-----	82	-----	12	12	-----
TOTAL	342.8	4,053	3,807	2,634	2,019	2,507	3,114	3,297	2,492	1,135	387.4	208.0
MEAN	11.1	135	123	85.0	72.1	80.9	104	106	83.1	36.6	12.5	6.93
MAX	36	441	379	554	407	194	306	355	446	159	39	15
MIN	3.4	16	45	29	20	21	34	31	26	12	5.9	5.1
CFSM	.44	5.40	4.92	3.40	2.88	3.24	4.16	4.24	3.32	1.46	.50	.28
IN.	.51	6.03	5.66	3.92	3.00	3.73	4.63	4.91	3.71	1.69	.58	.31

CAL YR 1972 TOTAL 24,455.4 MEAN 66.8 MAX 594 MIN 3.4 CFSM 2.67 IN 36.39
WTR YR 1973 TOTAL 25,996.2 MEAN 71.2 MAX 554 MIN 3.4 CFSM 2.85 IN 38.68

PEAK DISCHARGE (BASE, 740 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-06	1830	5.85	880	2-02	2345	5.99	964
1-01	0515	5.77	833	6-29	1700	6.54	1,300

01415000 TREMPER KILL NEAR ANDES, N.Y.

LOCATION.--Lat 42°07'12", long 74°49'08", Delaware County, on right bank 500 ft (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.

AVERAGE DISCHARGE.--36 years, 58.5 ft³/s (1.657 m³/s) (24.07 in/yr (611.4 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 1,230 ft³/s (34.8 m³/s) June 29 (gage height, 4.95 ft (1.509 m)); minimum, 3.2 ft³/s (0.091 m³/s) Oct. 6; minimum gage height, 2.52 ft (0.768 m) Nov. 19.

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.

REMARKS.--Records fair except those for winter periods and those for period of indefinite stage-discharge relation, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	17	100	422	81	29	108	44	52	250	9.0	9.5
2	4.3	35	86	295	270	38	181	44	51	162	108	6.6
3	3.7	60	79	197	320	49	237	63	42	116	67	6.2
4	3.4	54	73	173	197	88	320	63	42	100	36	5.4
5	3.4	56	113	134	151	61	345	57	37	75	26	5.0
6	3.3	47	434	97	116	56	250	54	34	59	21	7.5
7	36	54	440	70	97	57	189	49	81	47	18	7.0
8	26	100	325	60	91	116	158	44	47	39	16	5.8
9	15	500	330	56	75	95	124	69	39	34	14	5.4
10	12	200	255	50	71	88	173	108	38	30	12	5.0
11	9.8	150	201	43	61	86	141	295	34	27	12	4.7
12	12	120	155	43	52	95	119	260	44	24	12	4.7
13	14	110	165	46	50	88	105	228	88	21	12	4.7
14	12	350	122	40	46	122	91	173	57	19	10	6.6
15	13	250	102	32	44	155	81	177	47	25	29	9.5
16	12	180	100	69	45	151	71	181	44	20	21	6.6
17	12	130	77	30	116	197	65	193	44	16	29	5.8
18	10	110	70	33	59	173	59	380	49	14	16	16
19	9.8	84	64	54	51	144	65	305	41	12	13	11
20	9.4	200	56	97	45	124	63	310	33	12	10	7.5
21	9.0	110	57	93	40	108	52	340	33	14	12	6.2
22	8.8	100	181	148	35	93	51	255	36	13	12	6.2
23	9.0	91	137	210	32	79	49	197	32	10	9.0	28
24	9.2	81	122	113	31	71	45	151	37	9.0	8.5	14
25	8.6	73	113	80	30	67	41	119	30	8.5	8.0	12
26	8.4	223	108	66	30	86	38	97	25	9.0	7.5	9.5
27	8.0	165	97	54	27	69	39	91	22	25	7.0	8.5
28	11	148	86	52	22	61	65	81	29	12	7.0	7.5
29	19	127	79	49	-----	59	52	86	434	22	6.6	6.6
30	20	105	69	52	-----	57	45	67	422	12	6.2	6.2
31	18	-----	300	59	-----	56	-----	61	-----	9.5	6.2	-----
TOTAL	355.9	4,030	4,696	3,017	2,285	2,818	3,422	4,642	2,044	1,246.0	581.0	245.2
MEAN	11.5	134	151	97.3	81.6	90.9	114	150	68.1	40.2	18.7	8.17
MAX	36	500	440	422	320	197	345	380	434	250	108	28
MIN	3.3	17	56	30	22	29	38	44	22	8.5	6.2	4.7
CFSM	.35	4.06	4.58	2.95	2.47	2.75	3.45	4.55	2.06	1.22	.57	.25
IN.	.40	4.54	5.29	3.40	2.58	3.18	3.86	5.23	2.30	1.40	.65	.28

CAL YR 1972 TOTAL 29,573.9 MEAN 80.8 MAX 540 MIN 2.6 CFSM 2.45 IN 33.34
WTR YR 1973 TOTAL 29,382.1 MEAN 80.5 MAX 500 MIN 3.3 CFSM 2.44 IN 33.12

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	-	-	About 1,000	6-29	1745	4.95	1,230
12-06	1715	4.64	916				

NOTE.--Indefinite stage-discharge relation Oct. 13 to Nov. 22.

DELAWARE RIVER BASIN

119

01417000 EAST BRANCH DELAWARE RIVER AT DOWNSVILLE, N.Y.

LOCATION.--Lat 42°04'30", long 74°58'36", Delaware County, on left bank 0.5 mi (0.8 km) downstream from Downsview Dam, at downstream end of outlet channel of Pepacton Reservoir, and 1.0 mi (1.6 km) east of Downsview.

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, 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.

EXTREMES.--Current year: Maximum discharge, 6,520 ft³/s (185 m³/s) June 30 (gage height, 7.63 ft (2.326 m)); minimum daily, 6.9 ft³/s (0.20 m³/s) Nov. 4-7, 12, Feb. 27, 28.

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.

Maximum stage known, about 16 ft (5 m) Oct. 9, 1903 (at former datum).

REMARKS.--Records good. Subsequent to September 1954, entire flow from drainage area controlled by Pepacton Reservoir (see Delaware River basin, reservoirs in). Part of flow diverted for New York City municipal supply (see Delaware River basin, reservoirs in). 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. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	14	7.4	2,390	7.4	7.0	96	81	302	5,030	33	28
2	20	7.4	7.4	3,120	217	7.2	869	99	205	3,660	34	28
3	20	7.1	7.4	2,180	2,540	7.3	1,740	131	122	2,350	33	28
4	20	6.9	7.4	1,680	2,210	7.3	2,080	184	74	1,300	33	28
5	20	6.9	7.4	1,320	1,570	7.1	3,290	193	53	889	34	28
6	20	6.9	8.5	931	1,120	7.1	2,960	172	46	578	35	28
7	20	6.9	8.3	530	829	7.1	2,520	137	272	313	30	28
8	20	8.0	8.3	235	633	7.4	2,140	73	420	161	21	26
9	20	8.0	8.5	117	465	7.1	1,820	59	282	70	21	21
10	20	7.1	8.3	71	227	7.1	1,880	61	159	37	21	26
11	20	7.1	8.0	27	113	7.2	1,960	944	87	30	21	29
12	20	6.9	9.4	9.8	30	7.4	1,750	1,730	49	30	21	29
13	20	7.1	8.0	7.4	8.4	7.4	1,490	1,980	135	30	26	29
14	20	8.3	8.0	7.1	7.4	7.6	1,130	1,680	260	30	30	29
15	20	7.7	7.7	7.1	7.5	7.7	916	1,220	190	30	31	29
16	20	7.4	7.7	7.1	7.2	7.4	746	1,310	118	30	31	29
17	20	8.8	7.7	7.1	7.1	7.9	460	1,190	86	30	31	29
18	20	7.4	7.4	7.1	7.1	138	278	2,950	51	31	31	30
19	20	7.4	7.4	7.4	7.1	695	181	3,550	42	34	31	27
20	20	7.7	7.7	7.4	7.2	864	174	2,800	39	36	31	20
21	20	7.4	7.4	7.3	7.1	803	119	3,390	43	36	30	18
22	20	7.4	8.3	8.0	7.1	651	74	3,320	45	29	25	18
23	20	7.4	8.0	7.8	7.1	477	46	2,660	45	29	22	18
24	20	7.1	7.7	49	7.0	335	29	2,180	45	34	26	18
25	21	7.1	8.0	131	7.1	231	22	1,810	45	34	28	18
26	20	8.0	8.0	153	8.4	277	33	1,490	45	35	28	18
27	19	7.4	8.0	134	6.9	248	49	1,350	45	38	28	18
28	19	7.7	7.7	112	6.9	159	23	1,220	37	39	28	18
29	19	7.4	7.7	113	-----	100	24	1,120	1,540	43	28	18
30	20	7.4	7.7	40	-----	65	58	747	6,100	31	28	18
31	19	-----	129	12	-----	45	-----	486	-----	26	28	-----
TOTAL	617	229.3	365.4	13,435.6	10,078.0	5,212.3	28,957	40,317	10,982	15,073	878	729
MEAN	19.9	7.64	11.8	433	360	168	965	1,301	366	486	28.3	24.3
MAX	21	14	129	3,120	2,540	864	3,290	3,550	6,100	5,030	35	30
MIN	19	6.9	7.4	7.1	6.9	7.0	22	59	37	26	21	18
CAL YR 1972	TOTAL	106,579.7	MEAN	291	MAX	5,110	MIN	6.1				
WTR YR 1973	TOTAL	126,873.6	MEAN	348	MAX	6,100	MIN	6.9				

01420000 LITTLE BEAVER KILL NEAR LIVINGSTON MANOR, N.Y.

LOCATION.--Lat 41°52'23", long 74°47'52", Sullivan County, 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 mi (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.

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.

AVERAGE DISCHARGE.--49 years, 44.0 ft³/s (1.246 m³/s) (30.18 in/yr (766.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 2,120 ft³/s (60.0 m³/s) June 29 (gage height, 6.12 ft (1.865 m)); minimum 4.5 ft³/s (0.13 m³/s) Oct. 5, 6 (gage height, 1.45 ft (0.442 m)).

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.

REMARKS.--Records good except those for winter periods, which are fair. Some diversion from Lily Pond for village of Liberty water supply.

REVISIONS (WATER YEARS).--WSP 1302: 1930(M), 1933(M), 1936-37(M), 1942-46(M). WSP 1432: 1928(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	18	68	415	35	17	189	42	63	158	11	11
2	5.8	62	56	172	229	18	346	39	62	96	178	9.1
3	5.4	159	53	107	318	21	186	38	47	70	83	8.5
4	5.4	80	50	89	119	72	270	34	50	55	45	7.3
5	4.9	92	50	76	81	74	270	31	45	46	29	6.8
6	4.5	64	295	60	63	62	147	29	58	38	29	15
7	60	49	236	50	52	63	107	25	284	31	18	11
8	39	520	129	42	47	189	100	24	117	27	15	7.9
9	19	457	217	36	46	112	85	50	78	25	14	7.3
10	13	155	178	31	42	83	147	98	60	21	15	6.8
11	11	112	132	28	38	76	109	303	46	19	22	6.8
12	9.8	98	93	25	35	107	83	139	40	16	16	6.8
13	9.2	76	85	23	34	91	68	105	53	15	21	6.3
14	8.6	505	70	22	32	89	58	78	46	15	14	9.1
15	8.6	277	54	21	30	109	50	85	33	20	38	15
16	9.2	137	46	22	28	103	46	127	29	17	45	9.1
17	11	98	41	21	26	277	42	98	27	13	26	7.3
18	9.2	78	38	20	25	172	39	342	27	12	20	25
19	8.6	65	36	30	24	109	38	147	26	11	29	18
20	8.0	139	34	70	23	85	38	155	22	11	33	11
21	7.4	96	38	50	22	70	33	220	46	14	21	9.8
22	7.4	70	158	83	21	60	31	132	50	13	17	11
23	8.0	55	127	155	20	52	29	98	33	9.8	13	35
24	8.6	50	87	68	19	47	30	78	30	8.5	12	17
25	8.0	45	74	52	18	46	27	63	30	7.9	11	12
26	7.4	204	68	42	17	93	26	55	22	9.8	9.8	11
27	8.0	142	62	38	17	70	29	63	20	35	9.8	9.8
28	15	109	55	39	17	53	89	83	43	18	9.1	8.5
29	49	96	49	35	-----	46	68	83	759	12	8.5	7.3
30	33	74	43	31	-----	46	50	63	424	9.8	7.9	6.8
31	21	-----	252	29	-----	49	-----	83	-----	8.5	9.8	-----
TOTAL	429.8	4,182	2,974	1,982	1,478	2,561	2,830	3,010	2,670	862.3	829.9	333.3
MEAN	13.9	139	95.9	63.9	52.8	82.6	94.3	97.1	89.0	27.8	26.8	11.1
MAX	60	520	295	415	318	277	346	342	759	158	178	35
MIN	4.5	18	34	20	17	17	26	24	20	7.9	7.9	6.3
CFSM	.70	7.02	4.84	3.23	2.67	4.17	4.76	4.90	4.49	1.40	1.35	.56
IN.	.81	7.86	5.59	3.72	2.78	4.81	5.32	5.66	5.02	1.62	1.56	.63

CAL YR 1972	TOTAL 24,949.9	MEAN 68.2	MAX 625	MIN 4.0	CFSM 3.44	IN 46.88
WTR YR 1973	TOTAL 24,142.3	MEAN 66.1	MAX 759	MIN 4.5	CFSM 3.34	IN 45.36

PEAK DISCHARGE (BASE, 730 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-08	2100	5.29	1,620	2-02	2345	3.75	748
11-14	1215	4.01	890	6-29	1630	6.12	2,120
12-06	1700	3.82	786				

01420500 BEAVER KILL AT COOKS FALLS, N.Y.

LOCATION.--Lat 41°56'47", long 74°58'48", Delaware County, 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.

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.

AVERAGE DISCHARGE.--59 years, 549 ft³/s (15.55 m³/s) (30.94 in/yr (785.9 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 14,100 ft³/s (399 m³/s) June 29 (gage height, 11.67 ft (3.557 m)); minimum, 65 ft³/s (1.84 m³/s) Oct. 6.

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.

REMARKS.--Records good except those for winter periods, which are fair. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Six discharge measurements supplied by the Board of Water Supply, City of New York.

REVISIONS (WATER YEARS).--WSP 521: Drainage area. WSP 781: 1933(M). WSP 891: 1936-39(M). WSP 1202: 1950. WSP 1232: 1950(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	194	820	5,780	367	205	890	448	962	2,270	126	161
2	84	305	700	2,750	1,900	211	2,840	430	938	1,400	765	131
3	75	1,020	632	1,700	5,060	250	2,230	424	755	1,030	684	115
4	71	702	600	1,350	1,940	556	2,550	421	735	890	364	107
5	66	730	628	1,110	1,290	740	3,540	397	660	750	243	101
6	66	618	2,390	845	986	632	2,080	376	966	620	197	123
7	206	506	3,570	612	815	568	1,550	352	6,620	522	165	150
8	346	2,330	1,930	525	700	1,440	1,370	328	2,400	460	152	119
9	200	5,940	2,590	487	560	1,280	1,170	504	1,520	409	144	104
10	148	2,280	2,230	490	450	980	1,510	632	1,140	364	134	95
11	122	1,550	1,800	424	400	860	1,390	2,300	880	328	143	92
12	113	1,290	1,330	403	370	1,160	1,130	1,610	760	292	138	91
13	116	998	1,190	385	360	1,110	962	1,320	860	265	134	87
14	109	3,630	1,000	376	370	1,050	825	1,050	735	250	125	92
15	109	3,530	860	382	430	1,320	716	986	568	268	367	138
16	106	1,910	800	340	350	1,390	648	1,490	497	271	487	122
17	105	1,350	640	313	260	2,420	588	1,220	460	238	286	103
18	102	1,050	572	304	250	2,350	543	3,800	454	209	225	141
19	100	860	572	340	270	1,590	515	2,290	442	187	201	187
20	98	1,450	525	740	300	1,230	508	1,910	391	173	343	134
21	94	1,180	494	391	270	1,020	454	2,630	391	189	250	112
22	93	910	1,230	725	250	885	433	1,920	442	199	197	106
23	94	755	1,230	2,130	230	745	415	1,450	376	164	167	233
24	101	672	926	1,040	220	668	406	1,200	454	149	153	197
25	98	604	830	735	210	624	379	992	385	138	143	152
26	94	1,600	780	636	211	895	358	830	322	141	132	134
27	92	1,690	716	568	189	795	352	790	283	197	129	122
28	107	1,210	652	520	187	648	608	830	316	195	126	114
29	295	1,080	560	470	-----	588	612	1,470	6,220	156	119	107
30	280	880	518	410	-----	560	497	1,140	5,780	140	111	102
31	220	-----	2,290	390	-----	576	-----	1,150	-----	128	110	-----
TOTAL	4,006	42,824	35,605	27,671	19,195	29,346	32,069	36,690	37,712	12,992	7,060	3,772
MEAN	129	1,427	1,149	893	686	947	1,069	1,184	1,257	419	228	126
MAX	346	5,940	3,570	5,780	5,060	2,420	3,540	3,800	6,620	2,270	765	233
MIN	66	194	494	304	187	205	352	328	283	128	110	87
CFSM	.54	5.92	4.77	3.71	2.85	3.93	4.44	4.91	5.22	1.74	.95	.52
IN.	.62	6.61	5.50	4.27	2.96	4.53	4.95	5.66	5.82	2.01	1.09	.58

CAL YR 1972 TOTAL 276,795 MEAN 756 MAX 6,280 MIN 66 CFSM 3.14 IN 42.73
WTR YR 1973 TOTAL 288,942 MEAN 792 MAX 6,620 MIN 66 CFSM 3.29 IN 44.60

PEAK DISCHARGE (BASE, 4,700 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-09	0015	10.09	9,680	4-04	2230	7.96	5,490
11-14	1915	8.57	6,640	5-18	0730	7.54	4,860
12-06	2200	8.70	6,900	6-07	0500	9.91	9,320
1-01	0830	8.98	7,460	6-29	2015	11.67	14,100
2-03	0130	9.57	8,640				

LOCATION.--Lat 41°58'23", long 75°10'28", Delaware County, 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.

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

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.

EXTREMES.--Current year: Maximum discharge, 29,000 ft³/s (821 m³/s) June 29 (gage height, 12.89 ft (3.929 m)); minimum, 90 ft³/s (2.55 m³/s) Oct. 6; minimum gage height, 3.19 ft (0.972 m) Sept. 13, 14.

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. 28, 1949.

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 (1,980 m³/s), from rating curve extended above 22,000 ft³/s (623 m³/s)).

REMARKS.--Records good except those for winter periods, which are fair. Subsequent to September 1954, entire flow from 371 mi² (961 km²) of drainage area controlled by Pepacton Reservoir (see reservoirs in 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. Water-quality records for current year are published in Part 2 of this report.

REVISIONS.--WSP 756: Drainage area.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	342	1,460	9,450	690	370	1,100	790	1,590	8,970	207	213
2	139	430	1,270	7,410	2,770	400	4,020	790	1,480	5,600	760	202
3	118	1,200	1,130	5,100	8,460	450	4,960	830	1,210	3,920	1,140	177
4	111	990	1,060	3,950	5,100	700	5,320	956	1,130	2,980	620	165
5	104	990	1,050	3,200	3,580	1,000	8,730	920	1,000	2,230	430	157
6	97	910	3,020	2,430	2,700	1,060	6,250	896	1,440	1,770	342	173
7	216	784	6,110	1,680	2,140	968	5,100	820	7,380	1,380	289	224
8	542	2,070	3,320	1,250	1,820	1,950	4,330	700	3,440	1,110	254	185
9	350	9,180	3,970	1,050	1,530	2,060	3,620	920	2,360	908	229	161
10	254	3,900	3,420	820	1,000	1,660	3,920	1,180	1,790	750	213	149
11	209	2,570	2,860	740	800	1,480	4,070	3,850	1,410	660	213	145
12	195	2,110	2,250	700	700	1,680	3,500	4,260	1,200	580	218	149
13	202	1,680	2,000	640	600	1,660	3,060	4,160	1,370	533	202	145
14	188	5,000	1,740	560	680	1,590	2,460	3,460	1,390	497	202	153
15	188	5,770	1,510	540	800	2,010	2,040	2,810	1,130	506	358	196
16	181	3,180	1,410	500	980	2,180	1,760	3,380	968	524	800	196
17	174	2,320	1,140	470	900	3,120	1,460	2,960	840	454	462	169
18	174	1,820	1,040	450	600	3,800	1,230	7,890	800	406	390	218
19	167	1,510	1,090	600	600	3,000	1,060	7,140	780	358	318	334
20	160	2,120	956	1,200	700	2,720	1,020	5,960	670	334	454	235
21	160	1,900	884	700	600	2,370	896	6,990	650	350	406	181
22	153	1,550	1,710	1,200	540	2,040	800	6,010	790	374	318	165
23	160	1,350	2,000	5,200	480	1,690	740	4,930	690	310	268	350
24	167	1,210	1,620	1,840	440	1,460	700	4,040	850	268	235	366
25	167	1,090	1,490	1,440	400	1,300	650	3,320	810	254	224	247
26	160	2,080	1,440	1,100	360	1,520	610	2,750	700	247	207	213
27	153	2,750	1,370	1,000	350	1,510	610	2,480	640	326	196	191
28	167	2,060	1,240	900	350	1,250	872	2,360	660	390	191	181
29	414	1,850	1,060	800	-----	1,110	968	2,860	16,600	303	185	173
30	478	1,550	980	720	-----	1,030	820	2,210	17,000	261	173	169
31	390	-----	2,700	790	-----	1,000	-----	1,930	-----	229	169	-----
TOTAL	6,491	66,266	58,300	58,430	40,670	50,138	76,676	94,552	72,768	37,782	10,673	5,982
MEAN	209	2,209	1,881	1,885	1,453	1,617	2,556	3,050	2,426	1,219	344	199
MAX	542	9,180	6,110	9,450	8,460	3,8						

DELAWARE RIVER BASIN

123

01423000 WEST BRANCH DELAWARE RIVER AT WALTON, N.Y.

LOCATION.--Lat 42°09'58", long 75°08'26", Delaware County, on left bank at west end of fairgrounds at Walton, 100 ft (30 m) downstream from West Brook.

DRAINAGE AREA.--331 mi² (857 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.

AVERAGE DISCHARGE.--23 years, 557 ft³/s (15.77 m³/s) (22.85 in/yr (580.4 mm/yr)).

EXTREMES.--Current year: Maximum discharge: 14,500 ft³/s (411 m³/s) June 29 (gage height, 13.19 ft (4.020 m)); minimum, 45 ft³/s (1.27 m³/s) Sept. 12-14; minimum gage height, 2.43 ft (0.741 m) Oct. 6.

Period of record: Maximum discharge, 15,800 ft³/s (447 m³/s) Mar. 5, 1964 (gage height, 13.66 ft (4.164 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.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	160	1,170	3,870	410	150	807	416	553	2,930	102	60
2	67	272	1,020	2,760	1,410	250	2,070	412	566	1,770	174	56
3	62	830	927	1,900	2,930	501	2,390	448	474	1,270	269	53
4	57	548	908	1,760	1,530	997	2,580	584	441	1,030	167	52
5	55	702	1,030	1,530	1,280	691	3,860	482	412	813	130	51
6	52	617	3,650	1,040	1,040	557	2,550	452	434	645	109	57
7	174	518	5,390	670	921	539	2,100	412	612	522	99	63
8	412	997	2,990	500	842	1,140	1,680	375	437	437	88	60
9	237	5,250	3,650	450	707	1,000	1,360	501	368	382	83	53
10	186	2,850	2,510	410	480	866	1,870	723	330	339	83	49
11	155	1,940	2,040	380	420	807	1,770	1,310	294	309	102	48
12	149	1,590	1,570	360	380	854	1,400	1,280	300	272	109	48
13	223	1,230	1,720	340	330	848	1,240	1,450	589	242	101	46
14	194	2,060	1,430	320	280	952	1,060	1,170	557	226	89	49
15	184	2,000	1,130	300	250	1,280	927	1,180	365	228	130	55
16	179	1,460	1,070	290	230	1,210	807	1,540	324	237	231	55
17	165	1,220	801	300	210	1,720	712	1,310	327	199	147	51
18	149	1,040	707	350	200	1,740	650	3,290	333	174	116	81
19	138	902	750	400	200	1,410	626	3,600	352	153	116	116
20	130	1,560	707	1,000	210	1,210	790	2,980	278	147	107	79
21	120	1,230	655	399	190	1,060	584	3,920	257	147	96	63
22	116	997	1,260	640	180	946	544	2,880	269	149	91	56
23	116	860	1,360	1,670	170	790	514	2,060	297	132	82	86
24	124	790	1,130	740	150	718	489	1,660	478	115	76	101
25	118	712	1,060	640	140	655	444	1,310	526	107	71	78
26	111	2,550	1,060	560	130	977	412	1,060	372	106	67	67
27	104	2,750	987	520	130	830	402	965	318	242	65	62
28	106	1,770	866	470	130	691	617	866	402	189	63	57
29	176	1,530	734	420	-----	640	548	921	9,840	144	62	53
30	217	1,230	675	390	-----	612	459	718	7,840	136	59	50
31	184	-----	2,260	360	-----	612	-----	640	-----	115	57	-----
TOTAL	4,527	42,165	47,217	25,739	15,480	27,253	36,262	40,915	28,945	13,907	3,341	1,855
MEAN	146	1,406	1,523	830	553	879	1,209	1,320	965	449	108	61.8
MAX	412	5,250	5,390	3,870	2,930	1,740	3,860	3,920	9,840	2,930	269	116
MIN	52	160	655	290	130	150	402	375	257	106	57	46
CFSM	.44	4.25	4.60	2.51	1.67	2.66	3.65	3.99	2.92	1.36	.33	.19
IN.	.51	4.74	5.31	2.89	1.74	3.06	4.08	4.60	3.25	1.56	.38	.21

CAL YR 1972 TOTAL 305,799 MEAN 836 MAX 6,000 MIN 42 CFSM 2.53 IN 34.37
WTR YR 1973 TOTAL 287,606 MEAN 788 MAX 9,840 MIN 46 CFSM 2.38 IN 32.32

PEAK DISCHARGE (BASE, 4,600 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-09	1045	9.46	6,100	4-05	0115	8.61	4,740
12-07	0215	9.92	6,970	6-29	2100	13.19	14,500

DELAWARE RIVER BASIN

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, N.Y.

LOCATION.--Lat 42°04'29", long 75°23'47", Delaware County, on right bank at Stilesville, 1.4 mi (2.3 km) downstream from Cannonsville Dam, 0.5 mi (0.8 km) upstream from Cold Spring Creek, and 2.0 mi (3.2 km) northeast of Deposit.

DRAINAGE AREA.--456 mi² (1,181 km²).

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.

EXTREMES.--Current year: Maximum discharge, 12,000 ft³/s (340 m³/s) June 30 (gage height, 11.91 ft (3.630 m)); minimum, 12 ft³/s (0.34 m³/s) Dec. 16, 17 (gage height, 2.93 ft (0.893 m)).

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.

REMARKS.--Records fair, except those below 100 ft³/s (2.83 m³/s), which are poor. Subsequent to October 1963, entire flow from 454 mi² (1,176 km²) of drainage area controlled by Cannonsville Reservoir (see Delaware River basin, reservoirs in). Part of flow diverted for New York City municipal supply (see Delaware river basin reservoirs in). 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. Records of water-quality data for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,420	360	28	2,790	625	270	1,010	609	1,020	7,430	150	1,120
2	1,570	72	15	3,560	717	315	1,550	598	934	4,580	366	1,390
3	1,570	196	14	3,190	1,900	543	2,410	596	841	3,100	81	116
4	1,600	65	14	2,770	2,220	604	2,850	642	722	2,300	61	827
5	1,410	42	14	2,460	2,040	836	4,230	665	600	1,820	58	772
6	1,290	42	23	2,040	1,810	862	4,200	652	516	1,470	48	151
7	751	44	23	1,580	1,500	851	3,620	623	574	1,180	29	1,150
8	588	56	19	1,200	1,300	1,030	3,020	584	596	966	29	1,040
9	1,030	77	20	964	1,200	1,320	2,520	559	590	799	29	1,110
10	1,090	41	20	833	1,000	1,350	2,340	476	564	677	30	1,320
11	1,090	37	18	751	800	1,310	2,500	744	490	580	103	1,380
12	1,180	35	18	685	700	1,300	2,280	1,250	402	499	34	1,470
13	1,230	35	18	615	665	1,300	2,040	1,630	420	435	31	1,310
14	1,270	48	17	563	615	1,290	1,810	1,720	473	395	32	447
15	1,240	44	17	546	635	1,500	1,620	1,710	429	393	36	507
16	1,290	37	16	520	615	1,650	1,430	1,880	394	378	61	1,270
17	1,320	35	16	506	537	1,790	1,280	1,870	413	346	39	556
18	1,350	35	16	520	471	2,280	1,150	2,610	390	280	33	44
19	1,440	34	20	520	438	2,280	1,050	3,680	352	198	34	476
20	1,520	37	160	728	444	2,090	1,020	3,970	293	247	34	898
21	1,600	35	432	763	420	1,870	951	4,390	150	215	33	1,060
22	1,490	34	717	705	400	1,670	869	4,320	88	109	33	905
23	1,290	34	1,270	1,200	380	1,480	813	3,600	77	427	34	773
24	1,380	56	1,420	1,330	350	1,290	765	2,950	223	445	486	437
25	1,580	35	1,450	1,230	320	1,170	707	2,420	394	300	628	594
26	1,610	42	1,470	1,120	300	1,210	630	2,000	435	378	679	509
27	1,690	39	1,470	1,030	280	1,270	396	1,700	404	51	492	516
28	1,350	39	1,500	964	270	1,190	486	1,510	346	32	214	510
29	717	37	1,270	950	-----	1,100	593	1,410	4,170	157	46	390
30	911	37	1,140	820	-----	1,030	618	1,290	11,000	373	29	554
31	763	-----	1,330	705	-----	989	-----	1,150	-----	64	833	-----
TOTAL	39,630	1,760	13,975	38,158	22,952	39,049	50,758	53,808	28,300	30,624	4,825	23,602
MEAN	1,278	58.7	451	1,231	820	1,259	1,692	1,736	943	988	156	787
MAX	1,690	360	1,580	3,560	2,220	2,280	4,230	4,390	11,000	7,430	833	1,470
MIN	588	34	14	506	270	270	396	476	77	32	29	44
CAL YR 1972	TOTAL 347,154	MEAN 949	MAX 5,040	MIN 12								
WTR YR 1973	TOTAL 347,432	MEAN 952	MAX 11,000	MIN 14								

DELAWARE RIVER BASIN

125

01425675 OQUAGA CREEK NEAR NORTH SANFORD, N.Y.

LOCATION.--Lat 42°10'28", long 75°26'25", Broome County, 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.

DRAINAGE AREA.--4.71 mi² (12.2 km²).

PERIOD OF RECORD.--Oct. 1969 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 1,480 ft (451 m) (from topographic map).

EXTREMES.--Current year: Maximum discharge 218 ft³/s (6.17 m³/s) Nov. 9 (gage height, 2.49 ft (0.759 m)); minimum, 0.15 ft³/s (0.004 m³/s) Sept. 13 (gage height, 0.33 ft (0.101 m)).

Period of record: Maximum discharge, 218 ft³/s (6.17 m³/s) Nov. 9, 1972 (gage height, 2.49 ft (0.759 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.

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.41	2.3	12	57	7.0	1.3	20	7.0	7.3	21	.49	1.8
2	.34	5.0	11	31	21	12	46	7.0	8.2	13	1.0	.59
3	.34	13	10	22	41	25	44	7.6	6.1	9.3	1.0	.49
4	.37	5.8	10	21	19	50	59	7.9	7.3	7.6	.65	.37
5	.34	6.4	10	17	15	16	66	7.9	5.8	6.4	.45	.28
6	.34	4.2	75	12	12	12	35	6.7	4.8	5.0	.37	.79
7	4.0	3.5	54	8.6	9.7	12	26	5.8	4.5	4.0	.37	1.2
8	1.8	40	26	7.0	8.9	27	20	5.5	3.5	3.0	.37	.79
9	1.0	137	33	6.0	7.0	18	16	8.2	2.8	2.5	.35	.79
10	.93	39	36	5.4	6.4	15	27	13	2.5	2.2	.41	.45
11	.79	25	26	5.0	5.8	14	22	23	2.2	2.0	.72	.31
12	.93	22	20	4.5	5.2	14	18	21	2.6	1.9	.79	.34
13	1.1	17	22	4.2	4.8	14	15	21	5.0	1.8	.54	.26
14	.93	66	19	3.8	4.5	16	12	16	3.2	1.8	.45	1.0
15	.93	41	15	3.5	5.0	19	11	17	2.2	2.2	1.9	2.2
16	.93	24	14	3.3	4.5	18	9.3	17	2.0	1.9	2.0	1.0
17	.86	20	12	3.1	3.3	24	8.2	15	2.0	1.8	.93	.79
18	.79	16	10	3.0	2.9	20	7.6	30	2.8	1.8	.59	8.5
19	.72	12	9.3	5.0	2.5	16	7.6	39	2.5	1.6	1.0	3.5
20	.72	22	8.9	10	2.2	14	7.0	34	1.9	1.5	1.2	.93
21	.65	16	8.9	8.5	2.0	12	6.1	40	2.3	1.5	.65	.59
22	.72	12	24	14	1.8	10	5.5	30	2.8	1.5	.65	.59
23	.86	10	22	22	1.6	8.9	5.5	19	2.0	1.5	.54	9.7
24	1.1	9.7	19	12	1.4	8.2	5.2	16	2.0	1.4	.49	2.0
25	.93	8.5	19	9.7	1.3	7.9	4.5	13	1.8	1.3	.41	1.1
26	1.0	63	19	8.5	1.2	19	4.2	11	1.6	1.2	.37	.86
27	1.0	29	16	7.9	1.2	13	4.8	11	1.5	2.5	.34	.72
28	1.2	21	14	7.3	1.2	10	10	12	1.5	1.5	.34	.65
29	4.2	17	11	7.0	-----	9.7	9.3	13	90	1.5	.31	.54
30	4.0	14	8.5	7.0	-----	8.9	7.3	9.7	42	1.5	.26	.72
31	2.8	-----	42	7.0	-----	8.5	-----	8.2	-----	.93	.65	-----
TOTAL	37.03	721.4	636.6	343.3	199.4	473.4	539.1	492.5	226.7	108.63	20.59	43.85
MEAN	1.19	24.0	20.5	11.1	7.12	15.3	18.0	15.9	7.56	3.50	.66	1.46
MAX	4.2	137	75	57	41	50	66	40	90	21	2.0	9.7
MIN	.34	2.3	8.5	3.0	1.2	1.3	4.2	5.5	1.5	.93	.26	.26
CFSM	.25	5.10	4.35	2.36	1.51	3.25	3.82	3.38	1.61	.74	.14	.31
IN.	.29	5.70	5.03	2.71	1.57	3.74	4.26	3.89	1.79	.86	.16	.35

CAL YR 1972 TOTAL 4,382.08 MEAN 12.0 MAX 137 MIN .24 CFSM 2.55 IN 34.61
WTR YR 1973 TOTAL 3,842.50 MEAN 10.5 MAX 137 MIN .26 CFSM 2.23 IN 30.35

PEAK DISCHARGE (BASE, 120 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	0400	2.49	218	4-04	2030	2.05	140
12-06	1800	2.19	163	6-29	1000	2.06	142

DELAWARE RIVER BASIN

01426000 OQUAGA CREEK AT DEPOSIT, N.Y.

LOCATION.--Lat 42°03'32", long 75°25'41", Broome County, on left bank 400 ft (122 m) downstream from Bone Creek, 300 ft (91 m) upstream from bridge on Mill Street in Deposit, and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--66.4 mi² (172 km²).

PERIOD OF RECORD.--October 1940 to September 1973 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 984.46 ft (300.063 m) above mean sea level. Aug. 28, 1968 to Feb. 3, 1971, at site 150 ft (46 m) upstream at same datum.

AVERAGE DISCHARGE.--33 years, 110 ft³/s (3.115 m³/s) (22.50 in/yr (571.5 mm/yr)).

EXTREMES.--Current year: Maximum discharge during year, 3,840 ft³/s (109 m³/s) Nov. 9 (gage height, 6.53 ft (1.990 m)); minimum, 2.0 ft³/s (0.057 m³/s) Sept. 13, 14 (gage height, 1.19 ft (0.363 m)).

Period of record: Maximum discharge, 7,170 ft³/s (203 m³/s) July 4, 1970 (gage height, 8.98 ft (2.737 m), site then in use) from rating curve extended above 1,000 ft³/s (28.3 m³/s), by slope-area measurement; maximum gage height 9.21 ft (2.807 m) Mar. 22, 1948; minimum discharge, 0.4 ft³/s (0.011 m³/s) Nov. 15, 1964; minimum daily 0.9 ft³/s (0.025 m³/s) Aug. 4, 1955; minimum gage height, 0.90 ft (0.274 m) Oct. 28, 1951.

REMARKS.--Records poor.

COOPERATION.--Nine discharge measurements supplied by the Board of Water Supply, City of New York.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	35	173	842	81	30	229	83	105	317	9.4	4.3
2	4.9	88	145	545	261	60	655	85	105	184	15	4.3
3	4.6	186	136	336	716	107	682	91	87	127	33	3.4
4	4.3	101	129	292	306	250	862	99	95	103	18	2.9
5	4.3	109	126	241	229	226	1,090	101	79	89	12	2.4
6	4.0	85	787	150	172	187	590	87	66	66	8.8	3.7
7	56	70	794	110	139	172	405	73	71	50	7.2	6.7
8	41	742	446	94	132	485	313	64	51	40	7.7	4.6
9	24	2,410	555	84	111	336	232	123	43	33	7.2	3.4
10	19	755	540	76	93	250	405	241	36	28	7.7	2.9
11	15	437	432	68	80	211	348	505	30	24	7.7	2.6
12	16	334	310	64	76	220	271	423	28	20	8.8	2.4
13	26	222	282	58	66	220	223	396	47	18	7.7	2.2
14	20	930	247	54	50	275	184	264	41	17	7.2	5.8
15	19	813	202	50	45	352	150	261	29	22	30	15
16	17	447	181	48	41	332	123	250	25	22	97	7.7
17	16	300	134	46	37	460	99	214	26	15	34	5.4
18	14	219	120	43	34	410	89	446	33	12	23	35
19	13	170	110	89	31	296	87	505	35	11	18	30
20	13	319	113	169	29	238	83	460	26	10	24	15
21	12	209	111	113	28	199	69	575	27	11	18	10
22	11	165	419	175	27	166	66	428	38	11	13	8.8
23	12	131	356	313	25	134	63	296	29	8.8	10	64
24	16	115	299	172	24	116	61	229	25	7.7	8.0	32
25	16	103	285	137	23	105	53	178	24	6.7	7.0	21
26	15	605	282	100	22	232	51	137	20	6.7	5.4	15
27	14	452	254	92	22	178	53	116	17	35	4.5	12
28	16	315	208	86	25	142	105	129	16	18	3.7	10
29	63	242	166	84	-----	127	111	166	962	14	3.1	8.2
30	64	186	144	80	-----	120	93	120	710	12	2.8	6.7
31	44	-----	505	80	-----	116	-----	109	-----	11	2.8	-----
TOTAL	619.0	11,295	8,991	4,891	2,925	6,752	7,845	7,254	2,926	1,349.9	461.7	347.4
MEAN	20.0	377	290	158	104	218	262	234	97.5	43.5	14.9	11.6
MAX	64	2,410	794	842	716	485	1,090	575	962	317	97	64
MIN	4.0	35	110	43	22	30	51	64	16	6.7	2.8	2.2
CFSM	.30	5.68	4.37	2.38	1.57	3.28	3.95	3.52	1.47	.66	.22	.17
IN.	.35	6.33	5.04	2.74	1.64	3.78	4.40	4.06	1.64	.76	.26	.19

CAL YR 1972 TOTAL 55,584.5 MEAN 152 MAX 2,410 MIN 2.9 CFSM 2.29 IN 31.14
WTR YR 1973 TOTAL 55,657.0 MEAN 152 MAX 2,410 MIN 2.2 CFSM 2.29 IN 31.18

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	0600	6.53	3,840	12-06	1915	4.81	1,640
11-14	1800	4.67	1,500	4-04	2145	5.12	1,960

DELAWARE RIVER BASIN

127

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.

LOCATION.--42°00'11", long 75°23'02", Delaware County, 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.

DRAINAGE AREA.--593 mi² (1,536 km²).

PERIOD OF RECORD.--November 1912 to current year.

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.

EXTREMES.--Current year: Maximum discharge, 13,200 ft³/s (374 m³/s) June 30 (gage height, 11.57 ft (3.527 m)); minimum, 45 ft³/s (1.27 m³/s) Aug. 10 (gage height, 1.20 ft (0.37 m)).

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.

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).

REMARKS.--Records good except those for winter periods, which are fair. 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. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Four discharge measurements supplied by the Board of Water Supply, City of New York.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 871: 1916.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,320	494	420	4,120	867	355	1,390	787	1,230	8,360	226	1,060
2	1,480	226	339	4,500	1,050	451	2,540	776	1,170	5,190	461	1,390
3	1,490	550	308	3,890	3,000	732	3,670	787	1,050	3,570	125	355
4	1,520	278	293	3,390	2,810	1,020	4,400	838	951	2,670	79	600
5	1,390	278	278	2,990	2,520	1,220	6,290	867	804	2,100	61	897
6	1,150	216	1,250	2,430	2,180	1,220	5,280	832	688	1,680	56	710
7	1,140	183	1,440	1,830	1,880	1,180	4,390	787	759	1,350	53	927
8	489	1,120	850	1,470	1,700	1,670	3,690	743	743	1,120	50	1,130
9	1,060	4,300	951	1,230	1,530	1,860	3,040	856	721	948	47	1,100
10	1,080	1,380	921	1,030	1,100	1,780	3,090	982	683	812	50	1,270
11	1,070	876	787	940	1,000	1,680	3,160	1,630	610	705	105	1,370
12	1,150	698	605	880	900	1,680	2,830	1,970	504	608	64	1,430
13	1,210	507	605	780	800	1,670	2,480	2,300	555	529	50	1,330
14	1,240	1,680	485	720	760	1,690	2,170	2,230	600	475	47	667
15	1,200	1,560	406	683	740	2,000	1,890	2,210	534	485	85	393
16	1,230	921	368	662	700	2,200	1,670	2,380	480	461	280	1,240
17	1,260	665	327	641	678	2,470	1,490	2,340	499	410	113	770
18	1,280	512	339	656	595	2,950	1,340	3,480	504	343	74	151
19	1,360	415	355	710	545	2,840	1,230	4,630	451	254	90	480
20	1,480	662	397	1,040	540	2,540	1,190	4,820	380	293	125	873
21	1,520	484	683	1,020	514	2,140	1,110	5,350	253	271	81	1,080
22	1,450	390	1,350	1,050	514	1,970	1,020	5,100	206	140	69	958
23	1,260	332	1,810	1,720	499	1,730	958	4,230	146	396	63	958
24	1,320	314	1,910	1,680	465	1,510	909	3,510	268	489	402	585
25	1,520	276	1,930	1,510	433	1,370	838	2,880	461	347	656	645
26	1,560	970	1,930	1,380	419	1,550	781	2,360	524	465	683	620
27	1,650	876	1,900	1,270	393	1,550	534	1,980	485	162	635	580
28	1,370	678	1,760	1,200	368	1,420	683	1,800	402	76	219	630
29	909	560	1,590	1,160	-----	1,320	815	1,750	6,230	171	71	304
30	982	450	1,420	1,040	-----	1,240	804	1,550	12,100	308	48	651
31	844	-----	2,060	903	-----	1,190	-----	1,380	-----	185	646	-----
TOTAL	38,984	22,851	30,067	48,525	29,500	50,198	65,682	68,135	34,991	35,373	5,814	25,154
MEAN	1,258	762	970	1,565	1,054	1,619	2,189	2,198	1,166	1,141	188	838
MAX	1,650	4,300	2,060	4,500	3,000	2,950	6,290	5,350	12,100	8,360	683	1,430
MIN	489	183	278	641	368	355	534	743	146	76	47	151

CAL YR 1972 TOTAL 452,007 MEAN 1,235 MAX 6,010 MIN 60
WTR YR 1973 TOTAL 455,274 MEAN 1,247 MAX 12,100 MIN 47

DELAWARE RIVER BASIN

01427405 DELAWARE RIVER NEAR CALLICCOON, N.Y.

LOCATION.--Lat 41°46'14", long 75°05'03", Sullivan County, on left bank 10 ft (3 m) west of county road, 500 ft (152 m) downstream from Hollister Creek, 1.3 mi (2.1 km) northwest of Callicoon, and 1.4 mi (2.3 km) upstream from Callicoon Creek.

DRAINAGE AREA.--1,706 mi² (4,419 km²).

PERIOD OF RECORD.--August 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 743.00 ft (226.466 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 60,500 ft³/s (1,710 m³/s) June 29 (gage height, 13.55 ft (4.130 m)); minimum, 410 ft³/s (11.6 m³/s) Aug. 10 (gage height, 1.75 ft (0.533 m)).

Period of record: Maximum discharge, 60,500 ft³/s (1,710 m³/s) June 29, 1973 (gage height, 13.55 ft (4.130 m)); maximum gage height, 14.22 ft (4.334 m) Feb. 4, 1970 (ice jam); minimum daily discharge, 280 ft³/s (7.93 m³/s) Feb. 4, 5, 1971.

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. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Six discharge measurements supplied by the Board of Water Supply, City of New York.

REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1969, 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,280	1,270	2,990	10,000	2,000	920	2,920	1,810	5,000	22,700	580	800
2	1,440	952	2,650	12,000	2,200	1,110	7,280	1,840	4,000	14,000	1,400	1,400
3	1,520	1,840	2,310	10,000	4,500	1,360	11,400	1,870	3,300	10,000	1,800	1,700
4	1,580	2,210	2,210	8,000	8,000	2,300	13,000	2,080	2,800	8,000	1,200	1,000
5	1,620	1,800	2,080	7,000	7,000	3,450	20,900	2,050	2,600	6,000	794	700
6	1,330	1,750	3,470	6,150	6,000	3,350	15,900	1,900	4,000	4,600	644	1,300
7	1,620	1,440	12,200	4,670	5,000	2,990	12,700	1,780	7,760	3,500	545	920
8	996	3,490	7,100	3,270	4,500	4,230	10,300	1,680	6,560	2,900	496	1,490
9	1,220	19,400	6,750	2,690	4,000	5,740	8,630	2,180	4,370	2,500	454	1,400
10	1,360	9,480	6,850	2,470	3,500	4,830	8,770	3,290	3,490	2,100	422	1,420
11	1,290	5,650	6,030	2,210	2,900	4,350	9,050	6,490	2,840	1,700	434	1,610
12	1,310	4,470	4,540	2,030	2,200	4,320	7,880	7,490	2,370	1,500	503	1,630
13	1,360	3,450	3,900	1,900	2,000	4,470	7,070	7,580	2,440	1,400	510	1,700
14	1,470	8,920	3,640	1,800	1,800	4,130	6,060	6,690	2,710	1,300	468	1,600
15	1,400	13,500	3,010	1,700	1,700	5,040	5,150	5,860	2,260	1,200	964	1,300
16	1,400	7,130	2,770	1,600	1,500	5,740	4,370	6,570	1,890	1,100	1,200	900
17	1,470	4,960	2,180	1,610	1,400	6,540	3,660	6,240	1,690	1,000	1,120	1,500
18	1,380	3,810	1,690	1,470	1,300	9,530	3,230	11,900	1,620	980	794	1,300
19	1,480	3,090	2,240	1,540	1,200	7,650	2,780	14,600	1,620	860	692	700
20	1,690	3,810	2,180	2,490	1,200	6,660	2,650	12,800	1,410	740	652	1,000
21	1,630	4,080	2,140	2,470	1,100	5,860	2,400	13,900	1,690	700	758	1,200
22	1,720	3,130	3,680	2,420	1,100	5,100	2,160	13,400	2,130	680	660	1,400
23	1,590	2,620	5,710	6,750	1,000	4,350	2,020	11,100	1,620	640	573	1,500
24	1,470	2,310	4,960	4,990	1,000	3,770	2,000	9,270	1,620	660	460	1,380
25	1,680	2,080	4,700	3,920	980	3,350	1,860	7,720	2,110	660	830	1,010
26	1,780	3,270	4,600	3,490	960	3,620	1,650	6,390	1,870	660	963	1,030
27	1,840	6,330	4,470	3,000	920	3,970	1,420	5,510	1,660	1,200	940	1,520
28	1,750	4,570	4,060	2,600	900	3,470	1,660	5,100	1,660	1,100	1,000	1,490
29	1,750	4,020	3,620	2,400	-----	3,110	1,800	5,490	36,600	800	800	785
30	1,630	3,290	3,230	2,200	-----	2,860	1,980	6,000	40,200	680	620	676
31	1,540	-----	5,000	2,100	-----	2,780	-----	5,600	-----	600	500	-----
TOTAL	46,596	138,122	126,960	120,940	71,860	130,950	182,650	196,180	155,890	96,460	23,776	37,361
MEAN	1,503	4,604	4,095	3,901	2,566	4,224	6,088	6,328	5,196	3,112	767	1,245
MAX	1,840	19,400	12,200	12,000	8,000	9,530	20,900	14,600	40,200	22,700	1,800	1,700
MIN	996	952	1,690	1,470	900	920	1,420	1,680	1,410	600	422	676
CFSM	.88	2.70	2.40	2.29	1.50	2.48	3.57	3.71	3.05	1.82	.45	.73
IN.	1.02	3.01	2.77	2.64	1.57	2.86	3.98	4.28	3.40	2.10	.52	.81
CAL YR 1972	TOTAL 1,270,772	MEAN 3,472	MAX 20,200	MIN 475	CFSM 2.04	IN 27.71						
WTR YR 1973	TOTAL 1,327,745	MEAN 3,638	MAX 40,200	MIN 422	CFSM 2.13	IN 28.95						

DELAWARE RIVER BASIN

129

01427500 CALLICOON CREEK AT CALLICOON, N.Y.

LOCATION.--Lat 41°45'39", long 75°02'55", Sullivan County, 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.

AVERAGE DISCHARGE.--33 years, 173 ft³/s (4.899 m³/s) (21.16 in/yr (537.5 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 8,140 ft³/s (231 m³/s) June 29 (gage height, 7.36 ft (2.243 m)); minimum, 17 ft³/s (0.48 m³/s) Oct. 6 (gage height, 1.33 ft (0.405 m)).

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.

REMARKS.--Records fair except those for winter periods, which are poor. Occasional regulation by small pond above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	54	250	1,380	84	101	411	151	270	752	78	55
2	31	159	230	709	906	235	1,260	143	312	434	1,210	49
3	25	483	228	458	1,430	247	809	140	228	305	704	48
4	23	243	228	400	508	406	1,290	138	250	272	295	43
5	20	283	225	353	371	283	1,420	125	232	212	182	43
6	18	202	991	230	291	221	684	114	676	170	138	92
7	130	159	844	150	243	202	471	103	2,700	143	110	75
8	123	1,460	477	140	221	406	465	97	835	120	96	53
9	70	2,160	853	130	160	321	366	189	477	110	84	43
10	49	692	725	120	120	258	606	452	339	96	84	38
11	40	465	508	110	100	243	446	1,260	262	86	98	35
12	34	400	366	100	94	317	339	592	218	78	88	33
13	33	308	339	94	88	291	278	446	250	72	77	31
14	30	2,170	299	96	82	291	235	334	218	68	68	36
15	29	1,320	240	98	76	400	205	376	168	72	728	68
16	29	637	200	100	72	381	183	592	143	78	416	55
17	27	452	170	107	64	809	168	599	128	68	220	43
18	25	357	160	111	62	592	156	1,630	125	62	173	138
19	26	295	150	239	60	406	168	717	128	58	422	108
20	25	758	160	429	58	330	199	570	111	53	340	68
21	24	435	171	168	56	283	148	809	232	73	220	53
22	24	321	809	411	54	247	138	502	266	75	160	48
23	27	254	592	562	52	212	128	371	165	61	130	212
24	31	225	440	258	52	192	133	317	143	49	110	112
25	29	199	411	195	50	180	125	274	151	43	96	82
26	25	584	400	174	50	330	118	232	123	55	84	68
27	24	435	350	150	54	266	123	262	107	375	78	60
28	34	406	260	130	60	208	274	321	215	200	75	53
29	107	411	210	110	-----	186	243	477	4,480	116	66	48
30	88	270	200	100	-----	186	177	308	2,010	82	60	46
31	63	-----	1,270	90	-----	205	-----	411	-----	65	55	-----
TOTAL	1,298	16,597	12,756	7,902	5,518	9,235	11,766	13,052	15,962	4,503	6,745	1,936
MEAN	41.9	553	411	255	197	298	392	421	532	145	218	64.5
MAX	130	2,170	1,270	1,380	1,430	809	1,420	1,630	4,480	752	1,210	212
MIN	18	54	150	90	50	101	118	97	107	43	55	31
CFSM	.38	4.98	3.70	2.30	1.77	2.68	3.53	3.79	4.79	1.31	1.96	.58
IN.	.44	5.56	4.27	2.65	1.85	3.09	3.94	4.37	5.35	1.51	2.26	.65

CAL YR 1972 TOTAL 94,884 MEAN 259 MAX 2,170 MIN 18 CFSM 2.33 IN 31.80
WTR YR 1973 TOTAL 107,270 MEAN 294 MAX 4,480 MIN 14 CFSM 2.65 IN 35.95

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-08	2200	5.96	4,610	2-02	2400	5.19	3,200	6-06	2400	5.93	4,640
11-14	1630	5.47	3,590	4-04	2015	5.06	2,990	6-29	1745	7.36	8,140
12-06	1745	4.80	2,480	5-10	2400	4.54	2,200	8-02	1845	5.04	2,920
12-31	1445	4.89	2,710	5-18	0215	4.80	2,580				

DELAWARE RIVER BASIN

01428000 TENMILE RIVER AT TUSTEN, N.Y.

LOCATION.--Lat 41°33'51", long 75°00'56", Sullivan County, on left bank 0.5 mi (0.8 km) downstream from East Branch Tenmile River, 0.8 mi (1.3 km) upstream from mouth, and 0.6 mi (1.0 km) northeast of Tusten.

DRAINAGE AREA.--45.0 mi² (117 km²).

PERIOD OF RECORD.--May 1946 to September 1973 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 750 ft (229 m) (from topographic map).

AVERAGE DISCHARGE.--27 years, 65.4 ft³/s (1.852 m³/s) (19.74 in/yr (501.4 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 1,290 ft³/s (36.5 m³/s) June 29 (gage height, 4.58 ft (1.396 m)); minimum, 4.4 ft³/s (0.12 m³/s) Oct. 5, 6 (gage height, 1.14 ft (0.347 m)).

Period of record: Maximum discharge, 6,850 ft³/s (194 m³/s) Aug. 19, 1955 (gage height, 9.08 ft (2.768 m)), from rating curve extended above 1,800 ft³/s (51.0 m³/s); minimum daily, 1.1 ft³/s (0.031 m³/s) Sept. 24, 1962, Sept. 25, Oct. 29, Nov. 8-16, 1964.

REMARKS.--Records fair. Occasional regulation by Luxton Lake.

COOPERATION.--Eight discharge measurements supplied by the Board of Water Supply, City of New York.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	24	139	378	50	23	97	86	90	271	36	34
2	5.1	20	119	294	47	31	472	70	90	167	567	31
3	5.1	36	104	191	311	40	435	63	84	124	730	25
4	4.6	38	102	161	248	50	374	59	81	103	272	18
5	4.6	40	100	154	168	71	747	54	123	85	159	19
6	5.5	37	141	92	134	71	367	49	114	70	106	25
7	13	29	378	72	112	65	248	44	516	56	77	29
8	27	108	230	94	100	99	225	41	269	47	62	25
9	18	786	260	70	88	127	217	48	154	41	51	21
10	14	350	290	40	68	100	284	62	114	36	47	19
11	12	186	254	35	56	84	284	300	86	32	75	17
12	10	159	191	30	47	86	196	231	74	27	72	16
13	9.3	121	159	27	41	91	159	166	86	26	57	15
14	8.2	378	130	26	40	86	131	131	106	26	43	17
15	8.7	720	123	26	39	97	114	118	77	29	84	32
16	8.2	346	117	28	38	107	86	183	60	35	242	30
17	9.3	214	90	30	36	151	79	178	49	30	138	25
18	10	164	68	33	34	199	75	714	45	26	90	41
19	10	132	64	38	31	143	69	381	45	23	94	65
20	10	242	56	106	28	110	63	254	41	21	263	43
21	9.8	248	54	76	30	91	57	327	40	32	217	30
22	9.3	168	220	62	31	80	52	248	52	43	131	28
23	9.8	125	329	92	31	71	52	178	57	33	100	41
24	9.8	106	233	80	28	64	54	152	52	26	81	43
25	9.8	92	196	66	26	59	49	131	57	22	60	33
26	12	178	188	62	26	105	51	110	47	21	49	28
27	11	251	183	57	25	120	57	114	40	124	43	25
28	12	176	156	54	23	57	110	149	39	170	44	23
29	14	194	125	52	-----	28	129	159	573	83	43	21
30	17	152	98	52	-----	27	108	123	730	53	33	20
31	32	-----	145	52	-----	43	-----	104	-----	39	29	-----
TOTAL	345.3	5,820	5,042	2,630	1,936	2,576	5,441	5,027	3,991	1,921	4,095	839
MEAN	11.1	194	163	84.8	69.1	83.1	181	162	133	62.0	132	28.0
MAX	32	786	378	378	311	199	747	714	730	271	730	65
MIN	4.6	20	54	26	23	23	49	41	39	21	29	15
CFSM	.25	4.31	3.62	1.88	1.54	1.85	4.02	3.60	2.96	1.38	2.93	.62
IN.	.29	4.81	4.17	2.17	1.60	2.13	4.50	4.16	3.30	1.59	3.39	.69

CAL YR 1972 TOTAL 38,729.4 MEAN 106 MAX 786 MIN 4.2 CFSM 2.36 IN 32.02
WTR YR 1973 TOTAL 39,663.3 MEAN 109 MAX 786 MIN 4.6 CFSM 2.42 IN 32.79

PEAK DISCHARGE (BASE, 930 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	0845	4.10	960	8-02	2330	4.57	1,280
6-29	2200	4.58	1,290				

DELAWARE RIVER BASIN

131

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, N.Y.

LOCATION.--Lat 41°30'32", long 74°59'13", Sullivan County, on left bank 1.6 mi (2.6 km) upstream from Lackawaxen River and 4.6 mi (7.4 km) northwest of Barryville.

DRAINAGE AREA.--2,023 mi² (5,240 km²).

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.

EXTREMES.--Current year: Maximum discharge, 83,900 ft³/s (2,380 m³/s) June 29 (gage height, 20.06 ft (6.114 m)); minimum, 370 ft³/s (10.5 m³/s) Sept. 1 (gage height, 2.10 ft (0.640 m)); minimum daily, 412 ft³/s (11.7 m³/s) Aug. 31.

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.

REMARKS.--Records good except those for winter periods, which are fair. 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. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Five discharge measurements supplied by the Board of Water Supply, City of New York.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,800	1,490	4,000	16,900	1,800	1,200	3,550	2,630	4,730	30,100	850	584
2	1,700	1,230	3,550	18,200	1,900	1,200	9,440	2,530	4,380	17,900	3,270	1,440
3	1,700	2,190	3,060	13,300	16,200	1,500	14,200	2,480	3,940	12,100	4,930	1,830
4	1,700	2,950	2,920	10,400	14,000	2,000	14,300	2,740	3,470	9,400	2,720	1,020
5	1,710	2,410	2,750	8,740	10,300	3,000	25,900	2,750	3,470	7,050	1,700	560
6	1,550	2,300	3,830	6,890	8,130	4,000	19,600	2,670	2,950	5,470	1,190	1,410
7	1,770	1,920	15,200	4,800	6,520	3,830	15,100	2,480	11,900	4,260	940	1,370
8	1,940	3,550	9,730	3,550	5,520	4,800	12,700	2,300	10,200	3,430	775	1,200
9	1,140	27,800	8,880	2,900	4,500	7,180	10,900	2,510	6,100	2,840	658	1,520
10	1,530	14,700	9,580	2,900	3,400	6,020	10,700	4,260	4,600	2,390	600	1,450
11	1,440	7,960	7,790	2,550	2,500	5,280	11,700	9,400	3,650	2,050	730	1,600
12	1,360	6,190	6,310	2,360	2,000	5,220	10,000	10,500	3,010	1,770	676	1,710
13	1,440	4,680	5,250	2,190	1,800	5,520	8,570	10,200	2,930	1,560	632	1,770
14	1,480	11,400	4,880	2,080	1,700	5,060	7,300	9,050	3,370	1,430	511	1,710
15	1,520	21,800	4,040	2,040	1,600	6,020	6,130	7,820	2,860	1,550	1,660	1,340
16	1,440	11,100	3,200	2,070	1,500	7,140	5,250	8,980	2,360	1,670	3,290	730
17	1,480	7,210	2,000	2,000	1,400	8,330	4,550	8,470	2,070	1,410	2,310	1,660
18	1,500	5,380	1,800	1,900	1,300	12,500	3,980	16,600	1,920	1,210	1,530	1,570
19	1,530	4,220	1,700	1,900	1,300	9,870	3,510	18,800	1,950	1,040	1,170	1,140
20	1,630	5,550	2,200	2,500	1,400	8,400	3,390	16,000	1,780	890	1,780	1,050
21	1,700	6,100	2,550	2,700	1,400	7,300	3,100	17,300	1,600	980	1,480	1,340
22	1,770	4,430	4,900	2,500	1,400	6,310	2,810	16,600	2,880	1,040	1,210	1,500
23	1,670	3,630	8,130	9,050	1,400	5,360	2,630	13,900	2,200	830	950	1,770
24	1,520	3,120	6,520	6,730	1,300	4,580	2,510	11,400	1,920	793	784	1,850
25	1,570	2,810	5,940	4,930	1,300	4,020	2,380	9,510	2,330	950	766	1,360
26	1,770	3,920	5,850	4,220	1,300	4,410	2,230	7,790	2,330	860	1,190	1,160
27	1,810	8,130	5,710	3,880	1,200	5,010	2,140	6,730	2,040	1,920	1,150	1,100
28	1,900	6,130	5,010	3,670	1,200	4,260	2,530	6,400	1,900	1,740	1,260	980
29	1,970	5,680	4,290	3,000	-----	3,720	3,170	6,920	41,900	1,050	739	1,100
30	1,740	4,450	3,770	2,300	-----	3,450	2,970	6,670	54,500	830	539	576
31	1,800	-----	5,280	2,000	-----	3,370	-----	5,570	-----	739	412	-----
TOTAL	50,580	194,430	160,620	155,150	99,270	159,860	227,240	251,960	195,240	121,252	42,402	39,400
MEAN	1,632	6,481	5,181	5,005	3,545	5,157	7,575	8,128	6,508	3,911	1,368	1,313
MAX	1,970	27,800	15,200	18,200	16,200	12,500	25,900	18,800	54,500	30,100	4,930	1,850
MIN	1,140	1,230	1,700	1,900	1,200	1,200	2,140	2,300	1,600	739	412	560

CAL YR 1972 TOTAL 1,610,024 MEAN 4,399 MAX 27,800 MIN 620
WTR YR 1973 TOTAL 1,697,404 MEAN 4,650 MAX 54,500 MIN 412

DELAWARE RIVER BASIN

01431500 Lackawaxen River at Hawley, Pa.

LOCATION.--Lat 41°28'34", long 75°10'21", Wayne County, on left bank at Church Street Bridge in Hawley, 700 ft (213 m) upstream from Wallenpaupack Creek, and 3,000 ft (914 m) downstream from Middle Creek.

DRAINAGE AREA.--290 mi² (751 km²).

PERIOD OF RECORD.--July 1908 to September 1917, August 1938 to current year. Monthly discharge only for some periods, published in WSP 1302. October 1917 to December 1919 (gage heights and discharge measurements only) in reports of Water Supply Commission of Pennsylvania.

GAGE.--Nonrecording gage, water-stage recorder, and crest-stage gage. Datum of gage is 869.00 ft (264.871 m) above mean sea level. Prior to 1938, nonrecording gage at same site and datum. August 10, 1938 to August 19, 1955, water-stage recorder and August 20, 1955 to February 13, 1956, nonrecording gage at site 1,000 ft (300 m) downstream at same datum.

AVERAGE DISCHARGE.--44 years (1908-17, 1938-73), 474 ft³/s (13.4 m³/s), 22.20 in/yr (564 mm/yr), adjusted for storage since October 1959.

EXTREMES.--Current year: Maximum discharge, 16,400 ft³/s (464 m³/s) June 29 (gage height, 13.00 ft or 3.962 m); from rating curve extended above 3,000 ft³/s (85 m³/s); maximum gage height, 13.38 ft (4.078 m) June 29, backwater from Wallenpaupack Creek; minimum discharge, 80 ft³/s (2.27 m³/s) Oct. 5, 6, 27, 28 (gage height, 1.64 ft or 0.500 m).

Period of record: Maximum discharge, 51,900 ft³/s (1,470 m³/s) Aug. 19, 1955 (gage height, 24.8 ft or 7.56 m at present site, 20.6 ft or 6.28 m at former site, from floodmark), from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of slope-area measurement at gage height, 24.2 ft (7.38 m), at present site, 20.1 ft (6.13 m) at former site; minimum daily, 8 ft³/s (0.23 m³/s) Sept. 8, 1909.

Flood in March 1936 reached a stage of 19.1 ft (5.82 m) at present site, 13.9 ft (4.24 m), at former site, from floodmarks (discharge, 27,600 ft³/s or 782 m³/s).

REMARKS.--Records good except those for winter periods, which are fair. Regulation by Prompton Lake and, at high flow, by General Edgar Jadwin Reservoir located 14.9 mi (24.0 km) and 13.0 mi (20.9 km) upstream, respectively. Water-quality records for the current year are published in Part 2 of Pennsylvania Report.

REVISIONS (WATER YEARS).--WSP 1951: 1938-41. WSP 1302: 1909-17. WSP 1432: 1942. WSP 1502: 1956.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	191	950	3,580	360	140	691	444	722	4,440	186	110
2	84	186	864	2,720	500	220	2,370	404	667	2,480	1,560	110
3	89	486	722	1,100	2,370	440	3,070	384	590	1,310	1,040	109
4	83	431	729	1,160	1,710	526	2,620	404	607	957	546	104
5	80	422	728	1,000	1,160	728	4,730	384	887	715	359	101
6	80	371	1,380	826	880	661	2,830	351	754	595	283	141
7	165	307	3,610	600	722	590	1,660	314	1,740	472	251	167
8	230	1,030	1,920	460	580	852	1,350	290	1,290	396	224	134
9	168	7,010	1,910	380	500	1,050	1,280	384	873	332	193	118
10	136	4,100	2,140	330	430	845	1,780	673	673	300	180	109
11	127	2,070	1,760	300	370	734	1,930	1,950	511	260	283	108
12	114	1,340	1,240	270	320	722	1,290	1,400	422	218	245	108
13	103	971	1,010	250	280	754	992	1,120	511	196	204	100
14	99	3,950	1,020	230	250	691	819	901	607	196	180	107
15	92	6,180	859	220	300	774	703	774	435	207	290	185
16	86	3,300	700	210	270	918	619	971	332	283	563	151
17	89	1,770	600	210	260	1,460	541	915	300	242	340	127
18	89	1,240	540	200	250	2,240	501	2,430	267	207	265	218
19	92	1,020	510	250	230	1,380	463	1,950	267	188	235	280
20	99	1,680	480	420	220	1,040	435	1,340	248	163	220	193
21	96	1,520	470	380	210	866	384	1,570	224	196	232	160
22	88	1,070	1,840	359	200	754	351	1,380	273	230	193	144
23	83	819	2,500	1,060	180	643	332	1,060	300	183	164	230
24	84	709	1,660	901	170	562	355	887	304	153	151	230
25	94	613	1,200	607	160	521	340	786	400	133	150	193
26	94	1,180	1,240	516	150	734	351	685	463	131	143	173
27	83	1,770	1,240	496	150	800	400	685	375	679	136	156
28	89	1,270	1,020	722	140	649	613	838	409	595	133	142
29	280	1,260	806	584	-----	557	637	1,040	10,300	321	125	129
30	296	1,010	679	450	-----	521	521	1,000	8,600	248	118	119
31	236	-----	1,260	410	-----	552	-----	880	-----	199	113	-----
TOTAL	3,717	49,276	37,587	21,201	13,322	23,924	34,958	28,594	34,351	17,225	9,305	4,456
MEAN	120	1,643	1,212	684	476	772	1,165	922	1,145	556	300	149
MAX	296	7,010	3,610	3,580	2,370	2,240	4,730	2,430	10,300	4,440	1,560	280
MIN	80	186	470	200	140	140	332	290	224	131	113	100
MEAN [†]	122	1,650	1,222	669	472	778	1,161	926	1,254	447	297	150
CFSM [†]	.42	5.69	4.21	2.31	1.63	2.68	4.00	3.19	4.32	1.54	1.02	.52
IN. [†]	.48	6.35	4.85	2.66	1.70	3.09	4.46	3.68	4.82	1.78	1.18	.58
CAL YR 1972	TOTAL 292,985			MEAN 801	MAX 8,000	MIN 59	MEAN [†] 802	CFSM [†] 2.77	IN. [†] 37.62			
WTR YR 1973	TOTAL 277,916			MEAN 761	MAX 19,300	MIN 80	MEAN [†] 761	CFSM [†] 2.62	IN. [†] 35.63			

NOTE.--Backwater from Wallenpaupack Creek June 29 to July 2.

[†] Adjusted for change in contents in Prompton Lake and General Edgar Jadwin Reservoir.

DELAWARE RIVER BASIN

133

01432000 Wallenpaupack Creek at Wilsonville, Pa.

LOCATION.--At hydroelectric plant of Pennsylvania Power and Light Co., at lower end of penstock, at Kimble, 3 mi (5 km) east of dam which is at lat 41°27'33", long 75°11'08", Pike County, at Wilsonville, 1.2 mi (1.9 km) south of Hawley.

DRAINAGE AREA.--228 sq mi (591 sq km).

PERIOD OF RECORD.--October 1909 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Daily discharge determined from flow through turbines, computed from records of generator output, and flow over roller gates, computed on basis of head on gates. Prior to Nov. 3, 1925, nonrecording gage at site 1,000 ft (300 m) downstream from dam at datum 1,146.78 ft (349.539 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--64 years, 359 cfs (10.2 cu m/s) unadjusted.

EXTREMES.--Period of record: Maximum daily discharge, 6,440 cfs (182 cu m/s) June 30, 1973; no flow at times each year subsequent to Nov. 3, 1925.

REMARKS.--Records good. No flow over spillway or roller gates except during the period June 29 to July 2. Flow regulated by Lake Wallenpaupack (see Pennsylvania Report).

COOPERATION.--Records of generator load, operation of powerplant, net operating head, and water-surface elevations in lake furnished by Pennsylvania Power and Light Co., in connection with a Federal Power Commission project.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1302: 1918, 1923-24. WSP 1432: 1920-21. The mean discharge for September 1966 has been corrected to 141 cfs, superseding figure published in WRD Penna. 1966.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	436	967	26	1,050	951	0	1,100	681	5,490	280	0
2	0	120	0	1,090	824	0	0	702	0	2,320	592	0
3	0	0	0	1,120	184	0	13	866	0	1,810	459	0
4	6.3	0	936	1,130	0	0	1.6	1,160	750	1,810	0	257
5	0	0	840	1,100	957	0	770	0	1,070	1,810	0	288
6	188	646	980	1,010	1,040	13	539	0	1,010	1,710	777	0
7	0	403	1,100	1,370	472	0	0	146	906	1,410	512	0
8	0	227	1,020	1,610	504	0	0	0	1,150	1,410	1,040	0
9	251	769	0	1,680	826	0	395	395	0	1,470	1,190	0
10	332	540	1.6	1,540	742	0	802	0	0	787	1,230	0
11	6.8	64	1,160	1,600	230	0	1,030	0	1,230	0	26	26
12	29	0	1,790	1,380	1,120	0	444	0	1,370	0	0	0
13	0	837	1,790	0	978	0	646	0	1,120	784	1,150	0
14	0	1,010	1,790	3.2	993	15	0	354	620	1.4	1,040	0
15	0	1,090	1,460	1,160	931	0	0	300	393	0	934	0
16	179	1,060	1,410	1,150	1,230	0	70	20	0	911	844	0
17	16	1,020	1,410	1,250	1,600	0	113	770	0	925	713	19
18	587	250	1,320	1,020	778	0	520	1,180	334	904	0	1.5
19	32	0	870	1,110	1,050	0	726	290	1.6	925	0	0
20	295	1,110	800	622	823	0	0	0	694	938	41	72
21	16	1,030	792	214	641	0	0	1,200	907	35	0	19
22	0	1,130	829	1,080	861	0	0	1,750	969	0	0	0
23	3.1	0	0	1,080	466	0	795	1,480	0	0	0	0
24	246	277	0	1,240	617	0	426	488	0	0	255	72
25	391	0	0	1,220	0	0	860	404	736	22	0	344
26	308	0	831	1,110	890	0	1,100	0	809	0	0	719
27	122	743	1,030	451	930	0	1,260	0	554	0	1,200	895
28	0	947	969	0	954	0	331	0	581	0	1,220	904
29	0	912	1,040	1,110	-----	34	0	1,130	1,720	0	1,250	692
30	0	1,150	772	1,140	-----	0	1,120	1,400	6,440	0	1,260	26
31	330	-----	134	1,120	-----	0	-----	714	-----	24	871	-----
TOTAL	3,338.2	15,771	26,041.6	30,736.2	21,691	1,813	11,961.6	15,849	24,045.6	25,496.4	16,884	4,334.5
MEAN	108	526	840	991	775	32.7	399	511	802	822	545	144
MAX	587	1,150	1,790	1,680	1,600	951	1,260	1,750	6,440	5,490	1,260	904
MIN	0	0	0	0	0	0	0	0	0	0	0	0
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1972 TOTAL 212,565.50 MEAN 581 MAX 4,350 MIN 0 CFSM - IN. -
WTR YR 1973 TOTAL 197,162.10 MEAN 540 MAX 6,440 MIN 0 CFSM - IN. -

DELAWARE RIVER BASIN

01433500 MONGAUP RIVER NEAR MONGAUP, N.Y.

LOCATION.--Lat 41°27'41", long 74°45'33", Sullivan County, 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 (revised), 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.

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.

AVERAGE DISCHARGE.--34 years, 327 ft³/s (9.261 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge 6,220 ft³/s (176 m³/s) June 29 (gage height, 9.76 ft (2.975 m)); minimum daily 21 ft³/s (0.59 m³/s) Sept. 13.
Period of record: Maximum discharge, 15,900 ft³/s (450 m³/s) Aug. 19, 1955; minimum daily, 6 ft³/s (0.17 m³/s) Oct. 1, 1939.

REMARKS.--Records good. Entire flow completely regulated by Rio hydroelectric plant except for runoff from about 7 mi² (18.1 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. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS(WATER YEARS).--WRD N.Y., 1971: 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	106	705	763	453	60	161	474	755	2,370	92	26
2	28	319	648	751	526	62	669	491	751	1,710	543	46
3	29	40	720	743	788	59	1,300	474	743	1,140	931	117
4	30	131	554	743	763	50	1,470	487	743	842	792	474
5	64	35	471	735	759	50	1,900	55	743	759	743	283
6	31	227	550	634	751	265	1,740	45	735	731	735	220
7	220	34	613	624	747	98	1,670	468	723	701	735	36
8	37	547	683	606	743	133	1,540	395	739	716	731	22
9	33	1,170	755	606	739	487	1,150	383	731	712	606	22
10	208	1,580	751	624	634	735	1,170	360	727	697	592	22
11	213	1,230	751	501	617	533	1,010	739	723	659	582	125
12	220	860	739	491	613	355	1,220	751	720	45	28	65
13	265	727	739	634	624	78	936	747	727	29	487	21
14	237	990	735	627	624	462	747	739	289	255	388	333
15	122	1,700	731	360	731	325	716	620	33	462	440	104
16	348	1,500	727	217	554	529	723	606	32	599	471	25
17	96	1,150	723	179	620	743	735	526	31	578	435	388
18	57	1,010	631	215	571	743	731	547	43	448	540	295
19	85	747	627	157	634	735	731	767	35	405	543	355
20	126	927	624	131	543	735	727	1,390	279	328	617	245
21	49	891	613	44	385	550	720	1,600	508	217	557	257
22	31	755	645	291	91	568	720	1,180	363	28	211	23
23	37	731	739	253	132	295	716	886	200	148	450	28
24	42	727	735	358	146	48	716	804	38	148	440	425
25	76	723	731	515	41	46	543	763	325	195	435	474
26	57	743	731	720	103	385	456	759	413	259	450	412
27	119	735	731	340	56	731	543	759	694	443	462	443
28	269	731	727	277	64	547	731	763	652	358	453	430
29	305	731	627	487	-----	519	720	771	1,080	24	453	112
30	375	727	610	474	-----	557	491	767	4,570	338	480	22
31	68	-----	652	443	-----	45	-----	759	-----	249	450	-----
TOTAL	3,906	22,524	21,018	14,543	14,052	11,528	27,402	20,875	19,145	16,593	15,872	5,850
MEAN	126	751	678	469	502	372	913	673	638	535	512	195
MAX	375	1,700	755	763	788	743	1,900	1,600	4,570	2,370	931	474
MIN	28	34	471	44	41	45	161	45	31	24	28	21

CAL YR 1972 TOTAL 188,870 MEAN 516 MAX 2,360 MIN 28
WTR YR 1973 TOTAL 193,308 MEAN 530 MAX 4,570 MIN 21

135

LOCATION.--Lat 41°22'14", long 74°41'52", Pike County, Pa., on right bank 250 ft (76 m) downstream from bridge on U.S. Highways 6 and 209 at Port Jervis. 1.2 mi (1.9 km) upstream from Neversink River, and 6.5 mi (10.5 km) downstream from Mongaup River.

PERIOD OF RECORD.--October 1904 to current year.

GAGE.--Water-stage recorder. Datum of gage is 415.35 ft (126.599 m) above mean sea level. Prior to Aug. 13, 1928, nonrecording gages at highway bridge 250 ft (76 m) upstream at present datum (October 1904 to June 20, 1914 operated by U.S. Weather Bureau).

EXTREMES.--Current year: Maximum discharge: 108,000 ft³/s (3,060 m³/s) June 29 (gage height, 16.48 ft (5.023 m)), minimum, 866 ft³/s (24.5 m³/s) Sept. 5 (gage height, 1.83 ft (0.558 m)), minimum daily, 1,160 ft³/s (32.9 m³/s) Sept. 2.

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)).

Maximum discharge previously known, 205,000 ft³/s (5,810 m³/s) Oct. 10, 1903 (gate 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).

REMARKS.--Records good. 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 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. Records of water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1013: 1905-36. WRD N.Y. 1971: 1970.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,860	2,330	7,850	21,900	5,590	2,480	4,890	5,420	8,010	45,300	1,470	2,680
2	1,720	2,400	6,640	24,900	5,620	2,400	12,300	5,020	6,950	27,800	6,670	1,160
3	1,900	2,330	5,520	19,000	19,300	2,420	19,400	4,510	6,190	18,500	10,500	1,810
4	1,940	3,760	5,620	16,000	18,600	3,130	18,600	5,520	6,010	14,800	6,490	2,270
5	1,980	3,160	5,670	12,000	14,800	5,280	34,100	4,020	6,870	12,300	4,360	2,070
6	2,050	3,370	6,160	10,000	12,400	6,010	26,900	3,530	6,420	10,100	3,590	2,050
7	2,230	3,210	20,200	9,000	9,960	5,210	20,100	3,850	13,400	8,510	3,400	1,940
8	2,790	4,230	15,700	7,400	8,470	5,760	17,000	3,400	15,400	7,180	3,160	1,480
9	1,650	35,700	13,100	6,600	7,000	9,320	15,400	3,620	9,580	6,160	2,800	2,030
10	2,250	24,500	14,300	6,000	6,200	8,510	15,300	5,380	7,100	4,920	2,200	1,810
11	2,270	13,600	13,400	5,000	5,600	7,370	17,600	12,400	6,380	3,900	2,000	1,980
12	1,920	9,870	11,800	4,500	5,310	6,830	14,700	14,300	6,270	2,500	1,700	2,110
13	1,990	8,180	10,200	4,000	5,120	6,910	12,800	13,200	5,940	2,310	2,500	1,990
14	1,920	14,100	9,750	3,300	4,890	6,870	10,400	12,000	5,800	2,880	2,790	2,270
15	1,960	33,000	8,430	3,100	4,760	7,260	8,720	10,600	4,480	2,460	2,790	2,480
16	2,130	19,200	7,730	3,500	4,540	8,850	7,730	11,100	3,620	3,160	7,020	1,740
17	1,860	13,200	6,200	4,050	4,790	10,100	6,990	11,300	2,860	3,590	4,920	2,050
18	1,920	9,620	5,000	3,930	3,900	16,000	6,490	20,500	2,910	3,130	3,700	2,520
19	2,310	7,410	4,700	3,730	3,700	13,200	6,010	23,500	2,700	2,930	2,610	2,590
20	2,090	9,490	4,900	4,850	3,760	11,000	5,660	19,800	2,840	2,660	3,080	1,990
21	2,170	11,400	5,200	4,950	3,340	9,450	4,850	21,600	3,370	2,480	2,840	2,130
22	1,990	8,940	7,000	4,380	3,160	8,380	4,440	21,800	4,800	1,900	2,310	2,050
23	1,980	6,910	14,000	10,300	3,030	7,100	4,540	18,500	3,730	1,700	2,050	2,290
24	2,010	5,620	11,300	10,900	2,570	5,870	4,920	15,000	2,570	1,470	1,960	3,060
25	2,070	5,210	9,870	8,380	2,290	5,180	4,290	12,600	3,480	1,560	1,980	2,840
26	2,330	6,490	10,100	7,450	2,130	5,830	4,480	10,200	4,540	1,740	1,960	2,500
27	2,270	12,700	10,300	6,270	2,610	7,260	4,690	9,060	4,440	1,940	2,330	2,930
28	2,330	10,700	9,450	5,940	2,520	6,380	5,760	8,940	3,620	3,900	3,300	2,770
29	2,460	10,000	8,300	6,000	-----	5,550	5,450	10,700	46,000	1,980	3,300	2,480
30	2,680	8,680	7,260	5,600	-----	5,150	5,590	11,600	78,300	1,750	2,970	1,990
31	2,270</											

DELAWARE RIVER BASIN

01435000 NEVERSINK RIVER NEAR CLARYVILLE, N.Y.

LOCATION.--Lat 41°53'24", long 74°35'25", Sullivan County, 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 1,488.77 ft (453.777 m) above mean sea level.

AVERAGE DISCHARGE.--22 years, 182 ft³/s (5.154 m³/s) (37.68 in/yr (957.1 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 7,040 ft³/s (199 m³/s) June 29 (gage height, 6.28 ft (1.914 m)); minimum, 28 ft³/s (0.79 m³/s) Oct. 6; minimum gage height, 0.21 ft (0.064 m) Sept. 13-14, 30.

Period of record: Maximum discharge, 10,200 ft³/s (289 m³/s) July 10, 1952 (gage height, 7.83 ft (2.387 m)), 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; minimum gage height, 0.20 ft (0.061 m) Aug. 4, 1958.

Maximum discharge known, 23,400 ft³/s (663 m³/s) Nov. 25, 1950, by slope-area measurement (gage height, about 9.0 ft (2.74 m), from floodmarks).

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	81	236	1,800	160	74	406	195	240	754	58	65
2	35	194	204	682	1,470	95	886	191	233	428	432	57
3	31	395	194	435	1,350	108	586	184	209	328	214	55
4	30	250	184	383	460	233	712	177	212	280	121	51
5	29	274	208	325	334	219	760	167	191	249	89	62
6	28	208	1,150	230	276	170	484	158	308	207	74	103
7	243	180	922	200	244	188	401	149	893	177	69	74
8	236	1,600	554	190	190	724	383	143	388	159	65	57
9	104	1,400	921	170	180	410	334	237	308	145	63	52
10	72	535	670	160	160	300	484	260	264	132	83	48
11	61	395	502	140	150	296	397	949	230	121	168	46
12	60	349	397	130	140	445	338	496	212	111	91	45
13	56	274	370	120	130	352	296	388	226	108	83	43
14	55	781	316	110	120	338	268	320	202	103	71	49
15	53	540	288	100	120	415	248	316	170	106	171	76
16	52	353	268	90	110	415	233	420	161	106	204	54
17	50	286	233	82	98	1,290	226	343	152	96	140	46
18	49	243	248	82	100	823	219	942	152	87	116	83
19	49	215	219	120	110	478	219	538	149	80	103	71
20	46	518	198	252	90	374	230	568	135	76	106	51
21	46	335	184	174	84	320	202	774	135	98	94	45
22	46	258	374	252	78	284	188	508	138	87	85	43
23	46	219	296	514	74	252	181	401	125	72	78	101
24	46	201	237	240	72	237	177	347	170	67	74	65
25	45	184	223	191	76	226	167	308	164	65	72	54
26	43	664	212	174	74	343	167	272	125	69	69	49
27	43	458	198	164	64	276	181	268	118	111	67	45
28	87	335	184	164	70	233	325	304	374	80	65	43
29	162	286	164	110	-----	219	256	320	2,690	65	62	41
30	104	250	161	120	-----	212	212	264	1,870	60	58	39
31	87	-----	1,240	130	-----	216	-----	276	-----	54	58	-----
TOTAL	2,139	12,261	11,755	8,034	6,584	10,565	10,166	11,183	10,944	4,681	3,303	1,713
MEAN	69.0	409	379	259	235	341	339	361	365	151	107	57.1
MAX	243	1,600	1,240	1,800	1,470	1,290	886	949	2,690	754	432	103
MIN	28	81	161	82	64	74	167	143	118	54	58	39

CAL YR 1972 TOTAL 96,869 MEAN 265 MAX 2,870 MIN 28
WTR YR 1973 TOTAL 93,328 MEAN 256 MAX 2,690 MIN 28

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-08	1815	5.12	4,540	2-02	2015	4.84	4,160
12-06	1815	4.60	3,730	6-29	1745	6.28	7,040

01436000 NEVERSINK RIVER AT NEVERSINK, N.Y.

LOCATION.--Lat 41°49'12", long 74°38'09", Sullivan County, 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.

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.

EXTREMES.--Current year: Maximum discharge 4,940 ft³/s (140 m³/s) June 29 (gage height, 7.41 ft (2.259 m)); minimum, 3.9 ft³/s (0.11 m³/s) Nov. 20, 24, Dec. 17; minimum gage height, 2.41 ft (0.735 m) Jan. 29, Feb. 3, 4, 5, 6.

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.

REMARKS.--Records good. Subsequent to June 1953, entire flow from 91.8 mi² (238 km²) of drainage area controlled by Neversink Reservoir (see Delaware River basin, reservoirs in). Part of flow diverted for New York City municipal supply (see Delaware River basin, reservoirs in). 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. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD N.Y. 1972: 1961(M), 1968(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	12	4.3	4.8	4.1	4.6	5.1	14	17	1,380	14	16
2	15	4.8	4.3	4.6	4.8	4.7	5.0	14	16	637	15	16
3	15	4.6	4.3	4.6	4.3	4.6	24	14	14	270	13	16
4	15	4.6	4.3	4.7	4.1	4.7	420	14	16	105	13	48
5	15	4.5	4.3	4.3	4.1	4.6	1,040	14	14	72	13	15
6	15	4.5	4.8	4.3	4.1	4.6	591	14	15	22	13	14
7	15	4.3	4.3	4.3	4.3	4.6	561	14	557	14	14	14
8	14	6.0	4.6	4.3	6.2	4.8	523	14	388	13	14	14
9	15	4.7	4.5	4.3	4.7	4.6	443	14	159	13	14	14
10	15	6.7	4.3	4.3	4.7	4.6	451	15	158	13	14	14
11	15	7.7	4.2	4.3	4.7	4.7	209	346	150	12	14	14
12	15	7.4	4.3	4.3	4.7	4.7	65	565	34	12	14	14
13	15	7.4	4.2	4.3	4.7	4.6	49	398	16	13	14	14
14	15	8.6	4.2	4.3	4.7	4.7	15	251	17	13	14	14
15	14	7.4	4.3	4.3	4.7	4.7	14	185	16	13	15	14
16	15	7.2	4.2	4.3	4.6	4.7	15	303	16	12	14	13
17	15	5.7	4.1	4.3	4.6	5.1	15	243	16	12	14	13
18	15	4.2	4.2	4.3	4.6	4.8	14	947	16	12	14	14
19	15	4.2	4.2	4.3	4.7	4.5	14	737	16	13	15	13
20	15	4.3	4.2	4.3	4.7	4.5	14	652	16	13	15	13
21	15	4.1	4.3	4.5	4.7	4.6	14	1,080	17	13	15	13
22	15	4.1	4.7	4.6	4.6	4.6	15	765	16	13	15	14
23	15	4.1	4.5	4.5	4.6	4.5	15	546	16	13	15	14
24	15	4.1	4.5	4.1	4.6	4.5	14	409	16	13	15	14
25	15	4.1	4.5	4.1	4.6	4.6	14	186	16	13	15	13
26	15	4.6	4.5	4.1	4.6	4.7	14	145	16	13	15	13
27	15	4.2	4.3	4.2	4.6	4.6	15	151	15	13	15	13
28	15	4.3	4.3	4.2	4.6	4.6	15	159	16	12	15	13
29	15	4.3	4.3	4.2	-----	4.6	24	176	920	13	15	14
30	15	4.5	4.3	4.1	-----	4.6	14	42	3,570	13	15	14
31	15	-----	5.0	4.1	-----	4.6	-----	26	-----	13	15	-----
TOTAL	463	163.2	135.3	134.2	129.0	143.9	4,641.1	8,453	6,285	2,806	445	452
MEAN	14.9	5.44	4.36	4.33	4.61	4.64	155	273	210	90.5	14.4	15.1
MAX	15	12	5.0	4.8	6.2	5.1	1,040	1,080	3,570	1,380	15	48
MIN	14	4.1	4.1	4.1	4.1	4.5	5.0	14	14	12	13	13

CAL YR 1972 TOTAL 24,937.5 MEAN 68.1 MAX 3,700 MIN 4.1
WTR YR 1973 TOTAL 24,250.7 MEAN 66.4 MAX 3,570 MIN 4.1

DELAWARE RIVER BASIN

01436500 NEVERSINK RIVER AT WOODBOURNE, N.Y.

LOCATION.--Lat 41°45'24", long 74°35'52", Sullivan County, on left bank 0.2 mi (0.3 km) downstream from highway bridge at Woodbourne, and 0.3 mi (0.5 km) upstream from outlet of South Wind Lake.

DRAINAGE AREA.--113 mi² (293 km²).

PERIOD OF RECORD.--October 1937 to September 1973 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 1,180 ft (360 m) (from topographic map). Prior to Sept. 20, 1938, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum discharge, 5,480 ft³/s (155 m³/s) June 30 (gage height, 8.09 ft (2.466 m)); minimum daily, 16 ft³/s (0.45 m³/s) Feb. 28.

Period of record: Maximum discharge, 22,000 ft³/s (623 m³/s) Nov. 26, 1950 (gage height, 11.19 ft (3.411 m)); maximum gage height, 11.2 ft (3.41 m) July 22, 1938, from floodmarks and graph based on gage readings; minimum discharge, 6.7 ft³/s (0.19 m³/s) June 27, 1953; minimum daily, 8.2 ft³/s (0.23 m³/s) June 25, 1953; minimum gage height, 0.80 ft (0.244 m) Aug. 25, 27, 28, 1949.

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

COOPERATION.--Seven discharge measurements supplied by the Board of Water Supply, City of New York.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	20	73	291	20	17	180	60	60	1,560	34	24
2	18	21	63	158	132	22	317	55	60	816	440	23
3	18	56	58	105	241	35	177	52	50	414	166	23
4	17	27	58	97	119	92	568	50	56	194	97	53
5	17	35	56	86	73	75	1,260	47	52	142	70	25
6	19	24	191	80	52	56	692	44	63	75	58	31
7	77	19	185	60	48	53	650	41	644	60	49	27
8	42	309	112	50	47	137	624	44	506	52	47	23
9	28	234	228	40	40	82	544	66	231	47	42	22
10	22	101	183	35	36	63	655	92	177	42	46	21
11	20	79	132	30	34	58	402	593	218	38	77	21
12	19	75	94	26	32	73	174	714	64	35	50	21
13	18	58	88	25	31	64	124	511	53	35	41	20
14	18	374	77	24	29	70	82	335	47	41	42	23
15	18	218	70	24	26	84	70	267	38	63	50	35
16	18	124	60	24	25	75	64	427	34	49	52	24
17	18	92	56	25	24	215	61	339	33	39	42	22
18	17	75	52	27	23	147	56	1,100	34	35	37	41
19	18	64	47	30	22	94	60	857	35	33	35	31
20	17	183	47	50	21	75	60	782	33	30	34	24
21	17	105	47	40	20	64	52	1,190	163	42	33	22
22	17	75	163	45	19	58	50	886	160	37	31	24
23	17	61	124	88	18	52	47	660	79	30	29	50
24	18	55	90	50	17	47	49	534	320	28	28	30
25	17	49	84	35	17	46	46	281	221	27	27	25
26	17	194	84	25	17	103	47	212	112	27	25	24
27	17	119	77	22	17	70	56	221	82	174	27	23
28	19	103	66	21	16	53	144	250	110	73	27	22
29	31	105	58	21	-----	49	94	281	1,690	46	27	22
30	24	79	50	20	-----	50	71	105	4,030	38	25	21
31	21	-----	257	20	-----	56	-----	75	-----	35	23	-----
TOTAL	673	3,133	3,030	1,674	1,216	2,235	7,476	11,171	9,455	4,357	1,811	797
MEAN	21.7	104	97.7	54.0	43.4	72.1	249	360	315	141	58.4	26.6
MAX	77	374	257	291	241	215	1,260	1,190	4,030	1,560	440	53
MIN	17	19	47	20	16	17	46	41	33	27	23	20

CAL YR 1972 TOTAL 46,868 MEAN 128 MAX 3,970 MIN 16
WTR YR 1973 TOTAL 47,028 MEAN 129 MAX 4,030 MIN 16

DELAWARE RIVER BASIN

139

01437000 NEVERSINK RIVER AT OAKLAND VALLEY, N.Y.

LOCATION.--Lat 41°29'43", long 74°38'47", Orange County, on right bank 250 ft (76 m) downstream from road bridge known as Paradise Bridge, 0.7 mi (1.1 km) downstream from Oakland Valley and Bush Kill Creek, and 3.5 mi (5.6 km) northwest of Cuddebackville.

DRAINAGE AREA.--222 mi² (575 km²).

PERIOD OF RECORD.--July 1928 to September 1973 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 632.00 ft (192.634 m) above mean sea level. Prior to Nov. 28, 1928, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum discharge, 8,360 ft³/s (237 m³/s) June 30 (gage height, 8.25 ft (2.515 m)); minimum daily 50 ft³/s (1.42 m³/s) Oct. 6.

Period of record: Maximum discharge, 23,800 ft³/s (674 m³/s) Aug. 19, 1955 (gage height, 12.74 ft (3.883 m)), from rating curve extended above 7,800 ft³/s (221 m³/s) on basis of slope-area measurement at gage height 12.62 ft (3.847 m); minimum, 22 ft³/s (0.62 m³/s) Aug. 17, 1965; minimum daily, 27 ft³/s (0.76 m³/s) Aug. 16, 17, 1965.

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. 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.

COOPERATION.--Five discharge measurements supplied by the Board of Water Supply, City of New York.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1302: 1933(M), 1936-37(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	80	450	1,530	250	130	577	300	420	3,040	111	62
2	55	110	402	992	445	140	2,050	272	380	1,640	1,500	59
3	53	245	366	657	1,480	207	1,250	258	312	974	1,340	59
4	56	189	364	572	793	270	1,360	251	308	612	600	58
5	53	181	347	540	562	419	3,050	230	352	475	352	76
6	50	164	524	432	459	353	1,660	209	308	348	237	71
7	238	129	1,160	331	406	303	1,350	191	870	272	197	77
8	311	830	644	300	364	574	1,220	182	974	230	179	64
9	153	1,870	1,030	300	323	554	1,110	241	540	191	163	61
10	102	737	984	300	289	420	1,490	344	364	170	150	58
11	84	488	779	290	250	372	1,210	1,580	410	163	224	59
12	77	454	578	270	220	388	744	1,490	258	140	212	61
13	73	364	530	250	210	388	552	1,100	218	123	158	64
14	71	1,140	493	230	200	349	455	793	209	120	133	71
15	75	1,400	428	210	180	395	372	630	168	153	135	153
16	73	744	410	190	170	386	332	998	148	191	179	113
17	67	545	343	180	160	710	304	786	135	150	153	87
18	64	437	335	170	160	858	293	2,140	133	133	128	107
19	69	380	327	170	150	524	265	1,740	140	111	111	165
20	62	765	308	300	140	427	272	1,360	133	100	105	109
21	62	683	308	260	140	369	237	2,140	133	120	105	90
22	75	483	651	278	130	294	227	1,620	376	158	96	83
23	77	389	822	524	130	259	215	1,200	234	111	85	140
24	71	339	583	360	130	240	230	1,010	182	90	79	140
25	84	304	509	274	120	229	212	730	674	83	74	102
26	82	822	498	252	120	414	209	522	348	107	71	89
27	90	852	468	245	120	398	248	558	265	206	67	81
28	98	562	415	220	120	293	688	709	376	300	65	76
29	151	619	351	200	-----	255	564	1,070	3,370	185	62	71
30	122	478	323	200	-----	251	380	630	6,810	140	59	65
31	102	-----	717	200	-----	313	-----	498	-----	113	61	-----
TOTAL	2,858	16,783	16,449	11,227	8,221	11,482	23,126	25,782	19,548	10,949	7,191	2,571
MEAN	92.2	559	531	362	294	370	771	832	652	353	232	85.7
MAX	311	1,870	1,160	1,530	1,480	858	3,050	2,140	6,810	3,040	1,500	165
MIN	50	80	308	170	120	130	209	182	133	83	59	58

CAL YR 1972 TOTAL 156,919 MEAN 429 MAX 6,750 MIN 44
WTR YR 1973 TOTAL 156,187 MEAN 428 MAX 6,810 MIN 50

DELAWARE RIVER BASIN

01437500 NEVERSINK RIVER AT GODEFFROY, N.Y.

LOCATION.--Lat 41°26'28", long 74°36'07", Orange County, 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 mean daily discharges because of diurnal fluctuation) and July 1937 to current year. August to October 1903, published as Navesink River at Godeffroy, N. Y.

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 (Aug. to Oct. 1903 at datum 0.98 ft (0.299 m) higher).

EXTREMES.--Current year: Maximum discharge, 8,460 ft³/s (240 m³/s) June 30 (gage height, 8.96 ft (2.731 m)); minimum daily, 65 ft³/s (1.84 m³/s) Oct. 6.

Period of record: Maximum discharge, 33,000 ft³/s (935 m³/s) Aug. 19, 1955 (gage height, 12.49 ft (3.807 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.

REMARKS.--Records fair. 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 (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. 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.

COOPERATION.--Two discharge measurements supplied by the Board of Water Supply, City of New York.

REVISIONS (WATER YEARS).--WSP 821: Drainage area. WSP 1502: 1951(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	97	784	1,940	350	210	690	564	732	3,970	116	105
2	73	119	679	1,450	465	230	2,410	520	676	2,400	1,360	100
3	69	252	605	1,100	1,790	280	1,810	490	578	1,580	1,380	98
4	73	216	574	994	1,240	340	1,820	472	550	1,100	690	95
5	69	203	548	922	1,010	578	3,810	442	592	885	478	115
6	65	195	701	740	876	526	2,410	412	557	718	360	118
7	216	158	1,510	600	776	478	1,990	376	1,000	571	315	121
8	354	850	1,010	520	697	732	1,770	350	1,160	490	290	105
9	191	2,320	1,420	450	600	792	1,600	418	753	418	265	100
10	138	1,130	1,460	420	500	669	1,930	514	585	360	245	95
11	113	821	1,250	380	450	613	1,750	1,790	585	330	310	95
12	105	748	1,010	340	390	613	1,220	1,850	466	290	305	98
13	97	597	906	300	360	606	975	1,470	412	250	245	98
14	95	1,280	829	280	340	557	849	1,140	382	235	208	103
15	95	1,890	722	270	320	592	725	939	325	255	204	200
16	92	1,200	669	265	310	578	641	1,240	285	305	225	170
17	88	949	560	262	300	849	578	1,050	260	245	220	136
18	83	775	500	266	280	1,120	550	2,350	245	216	196	149
19	88	654	470	275	270	816	508	2,130	250	188	177	204
20	81	1,070	463	466	260	711	508	1,710	235	166	177	166
21	77	1,060	461	330	260	634	454	2,470	216	184	170	142
22	85	821	864	300	250	550	424	2,020	460	230	159	130
23	90	670	1,160	658	240	484	400	1,560	340	177	145	192
24	85	581	930	498	230	442	418	1,330	280	149	133	208
25	88	506	837	406	220	412	388	1,040	690	133	127	162
26	92	1,100	807	373	220	599	382	808	454	173	118	142
27	95	1,300	768	364	210	613	424	808	365	225	113	130
28	102	990	677	350	200	496	867	930	406	388	110	124
29	161	1,030	579	330	-----	442	808	1,350	3,330	255	105	115
30	144	850	521	320	-----	430	662	975	7,360	196	100	110
31	119	-----	937	310	-----	484	-----	832	-----	166	100	-----
TOTAL	3,400	24,432	25,211	16,479	13,414	17,476	33,771	34,350	24,529	17,248	9,146	3,926
MEAN	110	814	813	532	479	564	1,126	1,108	818	556	295	131
MAX	354	2,320	1,510	1,940	1,790	1,120	3,810	2,470	7,360	3,970	1,380	208
MIN	65	97	461	262	200	210	382	350	216	133	100	95
CAL YR 1972	TOTAL 233,223	MEAN 637	MAX 7,440	MIN 62								
WTR YR 1973	TOTAL 223,382	MEAN 612	MAX 7,360	MIN 65								

DELAWARE RIVER BASIN

141

01438500 Delaware River at Montague, N. J.

LOCATION.--Lat 41°18'30", long 74°47'50", Sussex County, on right bank 0.4 mi (0.6 km) upstream from toll bridge at Montague, 0.8 mi (1.3 km) downstream from Saw Kill, and at river mile 246.3 (396.3 km).

DRAINAGE AREA.--3,480 mi² (9,013 km²).

PERIOD OF RECORD.--March 1936 to September 1939 (gage heights only, published as "at Milford, Pa."), October 1939 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 369.93 ft (112.755 m) above mean sea level. 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.

AVERAGE DISCHARGE.--34 years, 5,823 ft³/s (164.9 m³/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 115,000 ft³/s (3,260 m³/s) June 30, gage height, 23.40 ft (7.132 m); minimum, 1,190 ft³/s (33.7 m³/s) Sept. 2, gage height, 4.53 ft (1.381 m).

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.

Maximum Stage during period 1903-73, 35.5 ft (10.82 m) Oct. 10, 1903, present datum, from floodmark.

REMARKS.--Records excellent. 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 p. 142) and smaller reservoirs. Diversion from Pepacton, Cannonsville, and Neversink Reservoirs (see p. 145) Records of water quality for the current year are published in Part 2 of New Jersey report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,130	2,640	9,360	22,900	5,770	2,940	5,880	6,570	9,530	53,500	1,750	2,340
2	1,900	2,690	8,170	28,200	6,080	3,020	15,100	6,110	8,380	32,100	6,930	1,630
3	2,080	2,500	6,790	21,800	19,900	2,860	22,600	5,520	7,460	21,100	12,800	2,300
4	2,140	4,040	6,630	17,800	21,800	3,680	21,400	6,480	7,050	16,400	7,970	2,450
5	2,170	3,710	6,890	15,700	17,300	6,050	38,500	5,070	8,080	13,600	5,320	2,030
6	2,170	3,540	7,110	13,200	14,600	6,930	31,800	4,390	7,800	11,200	4,180	2,130
7	2,600	3,740	21,700	11,300	11,800	6,170	23,800	4,570	14,000	9,280	4,130	2,130
8	3,430	4,430	18,100	8,980	9,880	6,720	19,900	4,180	18,100	7,880	3,660	1,810
9	2,160	35,100	15,200	7,800	9,420	10,600	18,000	4,400	11,600	6,980	3,800	2,050
10	2,410	29,400	16,600	7,460	7,820	9,840	17,900	6,220	8,530	5,780	3,600	1,940
11	2,590	15,800	15,400	7,040	6,960	8,600	20,700	15,100	7,460	4,940	3,780	2,010
12	2,180	11,400	13,800	6,340	5,890	7,950	17,100	17,000	7,420	3,280	2,470	2,260
13	2,190	9,230	11,900	5,350	5,780	8,030	14,700	15,500	6,920	2,790	2,240	2,130
14	2,130	13,460	11,300	4,240	5,470	7,930	12,200	13,900	6,820	3,440	3,220	2,280
15	2,120	36,300	9,910	3,980	5,650	8,220	10,200	12,400	5,460	2,950	3,140	2,910
16	2,160	22,200	9,160	4,500	5,320	9,830	9,110	12,900	4,520	3,570	7,290	2,120
17	2,100	15,000	8,190	4,400	5,340	11,300	8,250	13,100	3,580	4,140	5,480	2,010
18	2,060	11,300	7,020	4,400	4,410	17,700	7,610	23,000	3,400	3,660	4,410	2,710
19	2,580	8,690	6,040	4,200	4,410	14,900	7,090	27,400	3,480	3,420	3,100	2,910
20	2,120	10,600	6,390	5,700	4,500	12,500	6,820	22,900	3,340	3,130	3,420	2,300
21	2,550	13,200	6,510	5,770	4,000	10,700	5,830	24,800	3,860	3,200	3,310	2,260
22	2,200	10,400	9,060	4,920	3,810	9,550	5,360	25,400	5,400	2,510	2,850	2,260
23	2,230	8,400	16,100	11,400	3,590	8,270	5,280	21,400	4,750	2,130	2,350	2,430
24	2,120	6,810	13,300	11,900	3,100	6,900	5,850	17,300	3,280	1,880	2,320	3,290
25	2,170	6,250	11,500	9,260	2,940	6,140	5,140	14,700	4,120	1,850	2,320	3,190
26	2,570	7,690	11,500	8,290	2,400	6,760	5,250	11,900	5,340	2,160	2,190	2,770
27	2,610	14,400	11,800	7,140	3,080	8,390	5,580	10,600	5,180	2,140	2,420	3,220
28	2,570	12,500	11,000	7,050	2,930	7,480	7,410	10,500	4,370	4,560	3,590	3,110
29	2,680	11,600	9,610	7,010	-----	6,520	6,990	12,700	38,800	2,690	3,350	2,850
30	3,050	10,200	8,500	7,140	-----	6,010	6,830	13,600	96,300	2,100	3,090	2,430
31	2,610	-----	8,780	6,340	-----	5,480	-----	10,900	-----	2,010	3,070	-----
TOTAL	72,780	347,160	333,320	291,510	203,950	247,970	388,180	400,510	324,330	240,370	123,550	72,260
MEAN	2,348	11,570	10,750	9,404	7,284	7,999	12,940	12,920	10,810	7,754	3,985	2,409
MAX	3,430	36,300	21,700	28,200	21,800	17,700	38,500	27,400	96,300	53,500	12,800	3,290
MIN	1,900	2,500	6,040	3,980	2,400	2,860	5,140	4,180	3,280	1,850	1,750	1,630

CAL YR 1972 TOTAL 3,021,280 MEAN 8,255 MAX 49,600 MIN 1,450
WTR YR 1973 TOTAL 3,045,890 MEAN 8,345 MAX 96,300 MIN 1,630

DELAWARE RIVER BASIN

Reservoirs in Delaware River basin

01416900 PEPACTION RESERVOIR.--Lat 42°04'38", long 74°58'04", Delaware County, near release chamber at Downsview Dam on East Branch Delaware River, 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). Extremes for current year: Maximum contents observed, 152,978 mil gal (579.0 hm³) June 30 (elevation 1,281.71 ft (390.665 m)); minimum observed 107,807 mil gal (408.0 hm³) Nov. 8 (elevation 1,255.11 ft (382.557 m)). 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)).

Reservoir is formed by an earth-fill, rock-faced 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 of 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.

01424997 CANNONVILLE RESERVOIR.--Lat 42°03'46", long 75°22'29", Delaware County, in emergency gate tower at Cannonville dam on West Branch Delaware River, 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. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York). Extremes for current year: maximum contents observed, 107,348 mil gal (406.3 hm³) June 30 (elevation, 1,155.40 ft (352.166 m)); minimum observed, 33,827 mil gal (128.0 hm³) Nov. 1 (elevation, 1,097.46 ft (334.506 m)). Extremes for period of record: maximum contents observed, 107,348 mil gal (406.3 hm³) June 30, 1973 (elevation, 1,155.40 ft (352.166 m)); minimum observed (after first filling) 11,901 mil gal (45.05 hm³) Nov. 7, 1968 (elevation, 1,066.24 ft (324.990 m)).

Reservoir is formed by an earth-fill, rock-faced 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 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.

REVISIONS (WATER YEARS).--WRD N.Y. 1972: 1966.

01433000 SWINGING BRIDGE RESERVOIR.--Lat 41°34'25", long 74°47'00", Sullivan County, at dam on Mongaup River, 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. 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)). Extremes for current year: maximum contents 1,457.4 mil ft³ (41.3 hm³) June 29 (elevation, 1,071.7 ft (326.65 m)); minimum 932.1 mil ft³ (26.4 hm³) Feb. 23 elevation, 1,057.7 ft (322.39 m). Extremes for period of record: maximum contents 1,457.4 mil ft³ (41.3 hm³) Mar. 18, 1936, Oct. 15, 1955 and June 29, 1973 (elevation, 1,071.7 ft (326.65 m)); minimum (after first filling) -141.4 mil ft³ (-4.00 hm³) Dec. 2, 1938 (elevation, 987.5 ft (300.99 m)).

Reservoir is formed by an earth-fill 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.

REVISIONS (Water years).--WSP 1552: 1951-54.

DELAWARE RIVER BASIN

143

Reservoirs in Delaware River basin--Continued

01433100 TORONTO RESERVOIR.--Lat 41°37'15", long 74°49'55", Sullivan County, at dam on Black Lake Creek, 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. 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)). Extremes for current year: maximum contents observed, 1,145.3 mil ft³ (32.43 hm³) July 2 (elevation 1,221.3 ft (372.25 m)); minimum observed 216.4 mil ft³ (6.13 hm³) Nov. 8 (elevation 1,185.3 ft (361.28 m)). 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)).

Reservoir is formed by an earth-fill 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.

REVISIONS (Water years).--WSP 1552: 1951-54. WSP 1702: 1959 (M).

01433200 CLIFF LAKE.--Lat 41°35'00", long 74°47'40", Sullivan County, at dam on Black Lake Creek, 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. 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)). Extremes for current year: maximum contents observed 142.0 mil ft³ (4.021 hm³) June 30, July 1 (elevation 1,072.7 ft (326.96 m)); minimum observed 43.3 mil ft³ (1.23 hm³) Feb. 23 (elevation 1,057.8 ft (322.42 m)). 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)).

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.

REVISIONS (Water years).--WSP 1552: 1951-54.

01435900 NEVERSINK RESERVOIR.--Lat 41°49'40", long 74°38'21", Sullivan County, at a gatehouse at Neversink Dam on Neversink River, 2 mi (3 km) southwest of Neversink, N.Y. Drainage area, 91.8 mi² (238 km²). Period of record, June 1953 to current year. Nonrecording gage read daily at 0900. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York). Extremes for current year: maximum contents observed, 37,564 mil gal (142.2 hm³) Apr. 5 (elevation, 1,440.84 ft (439.168 m)); minimum observed, 14,375 mil gal (54.41 hm³) Nov. 2 (elevation, 1,381.22 ft (420.996 m)). 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)).

Reservoir is formed by an earth-fill, rock-faced 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 m)) and crest of spillway (elevation 1,440.0 ft (438.9 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 (400.5 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.

DELAWARE RIVER BASIN

Reservoirs in Delaware River basin--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (million gallons)	Change in con- tents (equiva- lent in cfs)	Date	Elevation (feet)	Contents (million gallons)	Change in con- tents (equiva- lent in cfs)
01416900 Pepacton Reservoir †				01424997 Cannonsville Reservoir †			
Sept. 30	1,262.49	119,460	-	Sept. 30	1,117.59	54,971	-
Oct. 31	1,255.49	108,392	- 552	Oct. 31	1,097.46	33,827	-1,060
Nov. 30	1,267.28	127,379	+ 979	Nov. 30	1,129.97	70,218	+1,880
Dec. 31	1,280.91	151,485	+1,200	Dec. 31	1,152.15	102,078	+1,590
CAL YR 1972	-	-	+ 183	CAL YR 1972	-	-	+ 140
Jan. 31	1,279.98	149,762	- 86.0	Jan. 31	1,150.87	100,018	- 103
Feb. 28	1,278.02	146,171	- 198	Feb. 28	1,150.48	99,390	- 34.7
Mar. 31	1,280.07	149,928	+ 187	Mar. 31	1,151.14	100,452	+ 53.0
Apr. 30	1,280.12	150,021	+ 4.8	Apr. 30	1,150.81	99,921	- 27.4
May 31	1,280.24	150,243	+ 11.1	May 31	1,151.24	100,613	+ 34.5
June 30	1,281.44	152,473	+ 115	June 30	1,154.39	105,684	+ 262
July 31	1,276.02	142,561	- 496	July 31	1,149.50	97,858	- 390
Aug. 31	1,270.41	132,710	- 493	Aug. 31	1,147.56	94,906	- 147
Sept. 30	1,263.11	120,468	- 631	Sept. 30	1,138.07	81,120	- 711
WTR YR 1973	-	-	+ 427	WTR YR 1973	-	-	+ 111

Date	Elevation (feet)	Contents (mil cu. ft)	Change in con- tents (equiva- lent in cfs)	Date	Elevation (feet)	Contents (mil cu. ft)	Change in con- tents (equiva- lent in cfs)
01433000 Swinging Bridge Reservoir †				01433100 Toronto Reservoir †			
Sept. 30	1,067.7	1,295	-	Sept. 30	1,191.5	327	-
Oct. 31	1,067.0	1,268	- 10.1	Oct. 31	1,186.1	230	- 36.2
Nov. 30	1,067.2	1,276	+ 3.1	Nov. 30	1,198.0	468	+ 91.8
Dec. 31	1,067.5	1,288	+ 4.5	Dec. 31	1,206.5	685	+ 81.0
CAL YR 1972	-	-	+ 4.4	CAL YR 1972	-	-	+ 9.1
Jan. 31	1,066.4	1,245	- 16.1	Jan. 31	1,210.9	806	+ 45.2
Feb. 28	1,058.5	959	- 118	Feb. 28	1,213.7	889	+ 34.3
Mar. 31	1,064.4	1,169	+ 78.4	Mar. 31	1,217.4	1,008	+ 44.4
Apr. 30	1,063.0	1,117	- 20.1	Apr. 30	1,220.3	1,109	+ 39.0
May 31	1,069.0	1,347	+ 85.9	May 31	1,220.5	1,116	+ 2.6
June 30	1,070.2	1,396	+ 18.9	June 30	1,221.2	1,142	+ 10.0
July 31	1,064.2	1,161	- 87.7	July 31	1,216.8	988	- 57.5
Aug. 31	1,059.8	1,003	- 59.0	Aug. 31	1,212.7	859	- 48.2
Sept. 30	1,064.3	1,165	+ 62.5	Sept. 30	1,201.0	541	- 123
WTR YR 1973	-	-	- 4.1	WTR YR 1973	-	-	+ 6.8

Date	Elevation (feet)	Contents (mil cu. ft)	Change in con- tents (equiva- lent in cfs)	Date	Elevation (feet)	Contents (million gallons)	Change in con- tents (equiva- lent in cfs)
01432000 Cliff Lake Reservoir †				01435900 Neversink Reservoir †			
Sept. 30	1,067.8	103	-	Sept. 30	1,398.52	19,827	-
Oct. 31	1,068.0	104	+ 0.4	Oct. 31	1,381.65	14,497	- 266
Nov. 30	1,067.5	101	- 1.2	Nov. 30	1,407.43	23,045	+ 441
Dec. 31	1,068.8	110	+ 3.4	Dec. 31	1,427.66	31,346	+ 414
CAL YR 1972	-	-	+ 0.9	CAL YR 1972	-	-	+ 45.6
Jan. 31	1,067.1	97.9	- 4.5	Jan. 31	1,431.67	33,166	+ 90.8
Feb. 28	1,058.5	46.5	- 21.2	Feb. 28	1,432.09	33,360	+ 10.7
Mar. 31	1,064.8	82.4	+ 13.4	Mar. 31	1,437.30	35,825	+ 123
Apr. 30	1,065.5	87.0	+ 1.8	Apr. 30	1,439.34	36,821	+ 51.4
May 31	1,072.1	137	+ 18.7	May 31	1,439.82	37,058	+ 11.8
June 30	1,072.7	142	+ 1.9	June 30	1,440.83	37,559	+ 25.8
July 31	1,068.4	107	- 13.1	July 31	1,430.77	32,752	- 240
Aug. 31	1,068.9	111	+ 1.5	Aug. 31	1,422.17	28,957	- 189
Sept. 30	1,069.1	113	+ 0.8	Sept. 30	1,410.33	24,151	- 248
WTR YR 1973	-	-	+ 0.3	WTR YR 1973	-	-	+ 18.3

† Elevation at 2400.

‡ Elevation at 0900 first day of following month.

DELAWARE RIVER BASIN

145

Reservoirs in Delaware River basin--Continued

Diversions from Delaware River basin

01415200 Diversion from Pepacton Reservoir, N.Y. (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.
REVISIONS (Water Years).--WRD N.Y. 1972: 1970.

01423900 Diversion from Cannonsville Reservoir, N.Y. (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, N.Y. (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 1972 to September 1973

Month	01415200 Pepacton Reservoir	01423900 Cannonsville Reservoir	01435800 Neversink Reservoir
October	697	0	351
November	576	0	187
December	492	0	143
CAL YR 1972	504	117	419
January	698	0	219
February	696	11.0	307
March	697	6.95	337
April	460	25.5	255
May	391	39.8	192
June	641	160	273
July	644	73.8	361
August	634	145	329
September	697	7.58	307
WTR YR 1973	610	39.2	272

LOCATION.--Lat 42°46'50", long 75°01'07", Otsego County, 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.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,276.84 ft (389.181 m). above mean sea level.

EXTREMES.--Current year: Maximum gage height, 4.28 ft (1.305 m) Nov. 11; minimum, 1.42 ft (0.433 m) Oct. 5.
Period of record: Maximum gage height, 5.66 ft (1.725 m) Apr. 20, 21, 1972; minimum, 1.18 ft (0.360 m) Nov. 6, 1971.

REMARKS.--Area of water surface, 2.96 mi² (7.67 km²).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.53	2.00	3.27	3.61	2.82	1.66	2.82	2.86	2.85	2.79	2.14	2.01
2	1.50	2.08	3.20	3.99	2.76	1.64	3.09	2.84	2.77	2.75	2.14	2.01
3	1.47	2.29	3.12	4.05	3.32	1.66	3.42	2.85	2.65	2.62	2.14	2.00
4	1.45	2.22	3.06	4.05	3.39	1.77	3.61	2.87	2.57	2.53	2.12	2.00
5	1.48	2.17	3.03	3.99	3.35	1.95	4.07	2.86	2.51	2.43	2.10	1.98
6	1.53	2.21	3.26	3.89	3.27	2.09	4.19	2.85	2.49	2.32	2.08	2.00
7	1.61	2.20	3.91	3.79	3.16	2.25	4.26	2.82	2.74	2.41	2.07	2.00
8	1.64	2.31	4.00	3.65	3.05	2.66	4.24	2.78	2.73	2.53	2.06	1.98
9	1.66	3.58	4.06	3.48	2.96	2.94	4.13	2.79	2.71	2.51	2.05	1.96
10	1.66	4.20	4.10	3.33	2.84	3.05	4.13	2.84	2.69	2.49	2.04	1.93
11	1.65	4.27	4.09	3.18	2.72	3.10	4.17	2.89	2.65	2.46	2.03	1.91
12	1.65	4.25	3.98	3.05	2.58	3.19	4.08	2.92	2.68	2.43	2.02	1.90
13	1.67	4.17	3.92	2.93	2.45	3.28	3.96	2.96	2.82	2.37	2.01	1.88
14	1.66	4.13	3.84	2.81	2.33	3.30	3.82	2.96	2.81	2.36	1.99	1.90
15	1.70	4.09	3.72	2.72	2.29	3.32	3.68	2.95	2.77	2.35	2.01	1.93
16	1.68	3.96	3.63	2.61	2.20	3.32	3.54	2.94	2.73	2.35	2.03	1.92
17	1.69	3.82	3.53	2.50	2.19	3.48	3.40	2.96	2.70	2.33	2.02	1.92
18	1.69	3.68	3.42	2.41	2.07	3.96	3.26	3.12	2.67	2.31	2.02	1.94
19	1.71	3.55	3.29	2.43	2.01	4.00	3.12	3.25	2.66	2.28	2.03	1.96
20	1.70	3.51	3.17	2.70	1.96	3.94	2.99	3.31	2.58	2.26	2.03	1.95
21	1.69	3.43	3.05	2.83	1.91	3.84	2.87	3.56	2.23	2.26	2.05	1.94
22	1.69	3.31	3.04	2.82	1.88	3.72	2.99	3.65	2.26	2.25	2.04	1.92
23	1.71	3.17	3.02	3.39	1.84	3.57	2.99	3.62	2.43	2.23	2.03	1.94
24	1.74	3.06	2.97	3.51	1.81	3.44	2.97	3.56	2.42	2.21	2.02	1.95
25	1.76	2.94	2.92	3.50	1.78	3.31	2.93	3.46	2.44	2.19	2.01	1.94
26	1.76	3.08	2.89	3.42	1.75	3.31	2.90	3.34	2.43	2.17	2.00	1.94
27	1.77	3.30	2.88	3.32	1.71	3.28	2.86	3.25	2.40	2.17	2.00	1.93
28	1.80	3.36	2.84	3.21	1.68	3.17	2.89	3.17	2.38	2.16	2.00	1.95
29	1.89	3.37	2.77	3.13	-----	3.06	2.91	3.13	2.62	2.18	2.00	1.94
30	1.95	3.31	2.69	3.07	-----	2.95	2.89	3.03	2.81	2.17	1.99	1.93
31	1.98	-----	2.81	2.93	-----	2.84	-----	2.94	-----	2.16	1.99	-----
MEAN	1.68	3.23	3.34	3.24	2.43	3.00	3.44	3.08	2.61	2.36	2.04	1.95
MAX	1.98	4.27	4.10	4.05	3.39	4.00	4.26	3.65	2.85	2.79	2.14	2.01
MIN	1.45	2.00	2.69	2.41	1.68	1.64	2					

01496500 OAKS CREEK AT INDEX, N.Y.

LOCATION.--Lat 42°39'56", long 74°57'36", Otsego County, 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.

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.

AVERAGE DISCHARGE.--38 years (1930-32, 1937-73), 167 ft³/s (4.729 m³/s) (22.23 in/yr (564.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 1,280 ft³/s (36.2 m³/s) Dec. 6 (gage height, 5.40 ft (1.646 m), from peak-stage indicator); minimum, 4.4 ft³/s (0.12 m³/s) Sept. 12, 13, 14, 30 (gage height, 2.10 ft (0.640 m)).

Period of record: Maximum discharge, 2,550 ft³/s (72.2 m³/s) Jan. 22, 1959 (gage height, 6.87 ft (2.094 m)); minimum, 1.3 ft³/s (0.037 m³/s) Aug. 4, 5, 1962 (gage height, 1.79 ft (0.546 m)).

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.

REVISIONS.--WRD N.Y. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	16	440	975	230	84	286	152	298	399	22	6.8
2	49	32	440	737	331	93	440	153	283	323	22	6.5
3	46	83	430	628	635	119	495	165	258	289	21	6.2
4	43	70	420	606	453	240	495	171	252	265	20	5.8
5	39	83	410	571	425	268	702	154	243	244	18	5.1
6	17	194	740	472	383	252	619	147	236	218	17	6.5
7	36	187	1,100	340	375	286	602	136	162	186	15	7.2
8	34	300	800	250	357	464	569	126	123	102	14	6.2
9	27	663	640	240	280	425	515	133	113	86	13	5.5
10	16	503	653	250	200	398	602	160	106	80	13	5.1
11	13	470	630	240	190	396	675	182	98	75	13	4.8
12	11	440	558	220	180	420	605	178	151	69	13	4.6
13	11	400	582	210	180	420	567	181	228	62	12	4.4
14	11	640	532	210	180	425	524	170	155	57	11	4.8
15	10	620	485	231	190	446	488	168	132	58	14	6.5
16	10	500	400	219	160	431	453	166	121	57	14	6.2
17	10	450	300	214	130	542	418	166	115	51	12	5.5
18	9.9	400	300	241	130	702	390	350	119	47	11	10
19	9.2	350	330	273	140	531	362	436	113	44	14	11
20	9.1	520	364	377	144	490	332	521	100	41	12	7.2
21	8.7	450	340	190	138	450	303	595	156	40	15	5.8
22	7.6	350	407	343	131	415	219	529	163	39	13	5.8
23	8.1	300	393	636	110	380	194	489	83	35	12	6.5
24	9.2	300	363	478	100	352	181	457	66	32	11	5.8
25	9.6	290	354	428	96	324	169	423	72	29	10	5.5
26	8.9	600	363	420	94	366	159	397	66	26	9.2	5.1
27	8.3	560	359	396	80	333	154	386	59	29	8.7	4.8
28	8.6	520	300	375	80	299	184	381	55	26	8.2	4.8
29	21	480	270	270	-----	278	181	372	494	29	7.5	4.6
30	31	450	270	230	-----	259	164	338	564	26	7.2	4.6
31	20	-----	430	230	-----	248	-----	319	-----	23	6.8	-----
TOTAL	606.2	11,221	14,403	11,500	6,122	11,136	12,047	8,701	5,184	3,087	409.6	179.2
MEAN	19.6	374	465	371	219	359	402	281	173	99.6	13.2	5.97
MAX	54	663	1,100	975	635	702	702	595	564	399	22	11
MIN	7.6	16	270	190	80	84	154	126	55	23	6.8	4.4
CFSM	.19	3.67	4.56	3.64	2.15	3.52	3.94	2.75	1.70	.98	.13	.06
IN.	.22	4.09	5.25	4.19	2.23	4.06	4.39	3.17	1.89	1.13	.15	.07

CAL YR 1972 TOTAL 92,164.0 MEAN 252 MAX 1,250 MIN 7.6 CFSM 2.47 IN 33.61
WTR YR 1973 TOTAL 84,596.0 MEAN 232 MAX 1,100 MIN 4.4 CFSM 2.27 IN 30.85

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	UNKNOWN	5.16	1,110	1-1	1130	5.23	1,160
12-6	UNKNOWN	5.40	1,280				

01498500 CHARLOTTE CREEK AT WEST DAVENPORT, N.Y.

LOCATION.--Lat 42°26'42", long 74°57'50", Delaware County, on right bank at downstream side of bridge on County Highway 11 at West Davenport, 700 ft (213 m) upstream from small tributary, and 1.7 mi (2.7 km) downstream from Pumpkin Hollow.

DRAINAGE AREA.--167 mi² (433 km²).

PERIOD OF RECORD.--June 1938 to current year. Prior to October 1956, published as "at Davenport Center".

GAGE.--Water-stage recorder. Datum of gage is 1,170.69 ft (356.826 m) above mean sea level. Prior to Oct. 1, 1956, water-stage recorder at site 1.7 mi (2.7 km) upstream at different datum.

AVERAGE DISCHARGE.--35 years, 250 ft³/s (7.080 m³/s) (20.33 in/yr (516.4 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 4,250 ft³/s (120 m³/s) Dec. 7 (gage height, 7.29 ft (2.222 m)); minimum, 14 ft³/s (0.40 m³/s) Oct. 5-7 (gage height, 0.90 ft (0.274 m)).

Period of record: Maximum discharge, 14,000 ft³/s (396 m³/s) Sept. 22, 1938 (gage height, 9.65 ft (2.941 m), site and datum then in use, from floodmarks), from rating curve extended above 5,000 ft³/s (142 m³/s) on basis of slope-area measurement of peak flow; minimum, 4.5 ft³/s (0.13 m³/s) Sept. 2, 3, 1939 (gage height, 0.16 ft (0.049 m), site and datum then in use).

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

REVISIONS (WATER YEARS).--WSP 921: 1938-39.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	45	478	1,830	190	80	387	170	285	916	39	23
2	17	49	428	1,210	553	128	998	164	307	614	62	24
3	16	169	415	818	1,060	234	1,130	171	237	467	181	22
4	16	120	402	801	558	422	996	224	231	386	80	21
5	15	141	487	740	474	356	1,580	184	240	319	54	21
6	15	136	1,730	400	389	284	1,050	169	250	264	44	22
7	29	105	2,570	250	373	280	942	149	228	219	38	32
8	83	152	1,150	220	310	686	790	137	182	183	35	26
9	43	1,810	1,530	210	210	545	642	171	149	158	32	23
10	33	834	1,180	220	160	424	845	241	128	138	31	22
11	28	563	1,000	200	150	386	804	345	111	124	36	21
12	29	500	735	180	140	421	632	297	192	111	48	20
13	49	402	906	170	140	433	549	357	561	100	37	19
14	39	469	700	170	130	446	474	286	336	92	33	20
15	34	460	563	180	140	600	424	305	213	96	53	22
16	36	370	518	170	130	574	378	477	178	103	98	22
17	32	322	320	160	120	623	337	393	178	81	53	21
18	29	287	320	199	130	633	313	1,190	202	71	43	25
19	26	266	340	233	120	513	291	1,320	219	62	49	43
20	25	446	330	565	110	458	270	1,060	154	56	39	28
21	24	378	342	220	100	415	236	1,510	133	54	74	24
22	24	294	685	326	98	387	215	1,080	136	55	47	23
23	24	241	620	788	96	337	216	789	121	48	40	33
24	26	262	527	450	94	325	206	645	180	43	35	34
25	25	238	500	363	90	307	183	527	181	39	32	29
26	24	972	518	343	86	491	167	438	132	37	30	26
27	23	1,020	509	324	76	434	160	461	111	102	28	24
28	23	680	446	321	76	339	254	425	101	83	27	23
29	30	590	370	280	-----	313	243	494	2,040	62	26	22
30	58	478	362	180	-----	297	198	373	2,050	56	25	21
31	49	-----	895	180	-----	298	-----	321	-----	44	24	-----
TOTAL	940	12,799	21,876	12,701	6,303	12,469	15,910	14,873	9,766	5,183	1,473	736
MEAN	30.3	427	706	410	225	402	530	480	326	167	47.5	24.5
MAX	83	1,810	2,570	1,830	1,060	686	1,580	1,510	2,050	916	181	43
MIN	15	45	320	160	76	80	160	137	101	37	24	19
CFSM	.18	2.56	4.23	2.46	1.35	2.41	3.17	2.87	1.95	1.00	.28	.15
IN.	.21	2.85	4.87	2.83	1.40	2.78	3.54	3.31	2.18	1.15	.33	.16

CAL YR 1972 TOTAL 138,898 MEAN 380 MAX 2,600 MIN 15 CFSM 2.28 IN 30.94
WTR YR 1973 TOTAL 115,029 MEAN 315 MAX 2,570 MIN 15 CFSM 1.89 IN 25.62

PEAK DISCHARGE (BASE, 2,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0300	7.29	4,250	6-29	2100	6.81	3,690

01499500 EAST SIDNEY LAKE AT EAST SIDNEY, N.Y.

LOCATION.--Lat 42°19'40", long 75°13'42", Delaware County, 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.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum elevation, 1,181.88 ft (360.237 m) July 1 (contents, 15,720 acre-ft (19.4 hm³)); minimum, 1,138.18 ft (346.917 m) Jan. 7 (contents, 1,412 acre-ft (1.74 hm³)).
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 (69,000 m³)).

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 (339.85 m) (sill of conduits) and 1,203.0 ft (366.67 m) (crest of spillway). Dead storage, 56 acre-ft (69,000 m³). 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.

REVISIONS.--WRD N.Y. 1968: Drainage area.

Capacity table (elevation, in feet, and usable 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

GAGE HEIGHT*, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.30	49.96	49.51	42.31	40.60	40.70	40.52	45.40	50.15	81.50	50.32	50.34
2	48.94	50.14	48.63	41.51	41.30	40.94	41.79	46.23	50.43	78.80	50.31	50.34
3	48.95	50.98	47.34	40.11	40.30	41.67	41.57	47.12	50.60	73.35	50.35	50.33
4	48.97	50.25	46.04	40.53	40.56	42.72	40.98	48.45	50.44	65.92	50.38	50.31
5	48.98	49.56	44.92	39.95	40.47	41.81	51.19	49.42	50.25	56.95	50.35	50.29
6	48.99	49.62	48.80	38.76	39.96	41.06	56.29	50.24	50.18	50.13	50.28	50.30
7	49.49	49.54	60.50	38.38	40.54	40.62	54.28	50.79	50.54	49.89	50.20	50.33
8	50.22	50.20	64.05	38.78	40.32	40.74	48.72	50.74	50.63	49.95	50.18	50.31
9	50.51	56.54	62.20	39.50	39.91	40.41	41.67	50.74	50.50	49.96	50.17	50.29
10	50.55	61.52	58.20	40.34	39.43	40.20	40.18	51.18	50.30	50.08	50.20	50.28
11	50.46	59.83	50.67	40.66	39.34	40.30	40.15	50.79	50.27	50.13	50.29	50.28
12	50.38	57.01	40.80	40.63	39.07	40.60	40.11	50.51	50.52	50.10	50.40	50.29
13	50.46	52.35	40.42	39.84	39.72	40.95	40.41	50.82	50.99	50.15	50.48	50.29
14	50.50	52.04	40.02	39.08	40.39	40.87	39.76	50.26	51.16	50.21	50.55	50.31
15	50.48	55.37	39.36	39.22	40.82	40.71	39.09	50.62	50.34	50.28	50.73	50.36
16	50.43	49.57	39.83	39.37	40.31	40.36	40.09	50.65	50.04	50.44	50.65	50.41
17	50.35	49.32	39.50	39.47	39.63	40.43	40.15	49.86	50.07	50.47	50.40	50.43
18	50.26	49.36	39.54	39.77	39.31	41.02	40.02	50.81	50.11	50.41	50.39	50.52
19	50.13	49.05	39.96	40.28	38.83	40.63	40.08	50.92	50.35	50.29	50.36	50.63
20	50.00	49.71	40.29	42.05	39.59	39.99	40.57	51.04	50.30	50.16	50.38	50.69
21	49.85	49.65	40.30	40.48	40.39	39.82	40.61	50.75	50.08	50.19	50.38	50.74
22	49.69	49.59	41.05	40.65	40.93	39.31	40.39	50.22	50.01	50.26	50.40	50.80
23	49.57	49.97	40.48	42.20	41.04	39.76	40.10	49.74	50.03	50.29	50.41	50.98
24	49.54	50.24	41.05	40.27	40.82	40.15	40.10	50.02	50.16	50.28	50.41	51.17
25	49.50	49.93	40.26	40.26	40.53	40.30	40.31	50.24	50.26	50.24	50.40	51.24
26	49.45	50.80	40.02	40.22	40.30	41.02	40.96	50.09	50.24	50.19	50.37	51.05
27	49.39	50.26	40.33	40.15	40.21	40.17	41.57	50.66	50.14	50.25	50.35	50.96
28	49.33	50.02	40.07	40.52	40.42	39.99	42.66	50.29	50.22	50.39	50.32	50.92
29	49.37	49.31	39.91	40.59	-----	40.38	43.99	50.59	64.29	50.43	50.33	50.84
30	49.62	49.28	40.37	39.72	-----	40.48	44.79	50.38	79.78	50.43	50.34	50.76
31	49.83	-----	41.95	40.18	-----	40.43	-----	50.16	-----	50.39	50.34	-----
MEAN	49.79	51.37	44.72	40.19	40.18	40.60	42.44	49.99	51.78	53.63	50.37	50.56
MAX	50.55	61.52	64.05	42.31	41.30	42.72	56.29	51.18	79.78	81.50	50.73	51.24
MIN	48.94	49.05	39.36	38.38	38.83	39.31	39.09	45.40	50.01	49.89	50.17	50.28
/	3,261	3,189	2,067	1,691	1,707	1,669	2,373	3,317	15,560	3,355	3,353	3,433
#	+5	-1.2	-18.3	-6.1	+3	-6	+11.8	+15.4	+206	-198	0	+1.3

CAL YR 1972 MEAN 47.19 MAX 64.36 MIN 38.55 # +0.5
WTR YR 1973 MEAN 47.17 MAX 81.50 MIN 38.38 # +0.3

/ Contents, in acre-feet, at end of month.

Change in contents, equivalent in cubic feet per second.

* Add 1,100 ft to obtain elevations above mean sea level.

01500000 OULEOUT CREEK AT EAST SIDNEY, N.Y.

LOCATION.--Lat 42°20'00", long 75°14'07", Delaware County, 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.

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.

AVERAGE DISCHARGE.--33 years, 167 ft³/s (4.729 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,950 ft³/s (55.2 m³/s) June 29 (gage height, 5.02 ft (1.530 m)); minimum, 4.0 ft³/s (0.11 m³/s) Oct. 2, 6, 7, Sept. 22, 23; minimum gage height, 0.74 ft (0.226 m) Oct. 2, 6, 7.

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)).

Maximum discharge known, 16,700 ft³/s (473 m³/s) in July 1935, by computation of flow over dam and from floodmarks.

REMARKS.--Records good. Since November 1949, flow regulated by East Sidney Lake (see station 01499500).

REVISIONS.--WRD N.Y. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	23	349	1,400	93	41	320	41	177	1,110	25	9.7
2	4.4	38	387	960	475	69	1,100	29	165	1,660	25	9.7
3	5.2	174	376	640	761	118	1,100	17	165	1,800	25	9.7
4	4.8	237	366	600	362	273	800	22	165	1,750	25	5.9
5	4.8	163	357	620	357	323	20	30	141	1,510	25	5.9
6	4.4	127	755	320	261	213	680	30	109	453	25	5.9
7	5.2	93	30	160	237	213	1,000	75	100	134	20	5.4
8	4.4	170	832	80	261	420	1,200	100	100	109	16	5.0
9	16	673	1,390	80	209	328	920	100	100	80	14	4.5
10	26	530	1,350	90	155	281	840	269	80	71	9.7	4.5
11	29	898	1,500	110	137	237	740	370	43	71	9.7	4.2
12	29	876	926	130	71	237	520	285	100	63	9.7	4.2
13	29	871	475	140	37	257	450	458	261	48	9.7	4.2
14	29	189	453	110	59	332	420	253	257	48	9.7	4.2
15	31	816	302	80	121	464	273	315	185	48	50	4.2
16	31	728	273	80	124	414	229	458	112	47	118	4.2
17	31	315	205	80	106	579	245	306	100	47	47	4.2
18	31	277	173	80	88	777	217	1,020	103	48	33	4.2
19	31	277	177	80	47	546	177	1,030	100	48	26	4.2
20	31	376	177	229	29	409	165	1,120	103	37	23	4.2
21	31	349	177	173	34	349	165	1,170	100	25	20	4.2
22	31	245	486	124	55	315	165	860	85	25	20	4.2
23	25	165	420	546	67	245	144	585	71	26	16	4.0
24	23	197	403	285	71	205	118	420	71	26	16	4.3
25	23	221	376	209	71	209	78	370	71	25	13	20
26	23	898	340	209	59	409	59	257	71	25	9.7	25
27	23	794	323	173	35	370	59	336	53	25	9.7	15
28	23	618	306	158	28	261	59	277	45	26	9.7	16
29	23	464	237	193	-----	221	61	298	684	26	10	16
30	23	311	205	127	-----	233	61	277	130	26	9.7	16
31	23	-----	800	80	-----	230	-----	213	-----	26	9.7	-----
TOTAL	733.2	12,113	14,926	8,346	4,410	9,578	12,385	11,391	4,047	9,463	689.0	232.9
MEAN	23.7	404	481	269	158	309	413	367	135	305	22.2	7.76
MAX	85	898	1,500	1,400	761	777	1,200	1,170	684	1,800	118	25
MIN	4.4	23	30	80	28	41	20	17	43	25	9.7	4.0
CAL YR 1972	TOTAL 94,239.9	MEAN 257	MAX 1,630	MIN 4.4								
WTR YR 1973	TOTAL 88,314.1	MEAN 242	MAX 1,800	MIN 4.0								

01500500 SUSQUEHANNA RIVER AT UNADILLA, N.Y.

LOCATION.--Lat 42°19'17", long 75°19'01", Otsego County, 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.

GAGE.--Water-stage recorder. Datum of gage is 996.08 ft (303.605 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--35 years, 1,542 ft³/s (43.67 m³/s) (21.32 in/yr (541.5 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 10,900 ft³/s (309 m³/s) Dec. 7 (gage height, 10.31 ft (3.142 m)); minimum, 130 ft³/s (3.68 m³/s) Sept. 14, 30 (gage height, 1.80 ft (0.549 m)).

Period of record: Maximum discharge, 21,500 ft³/s (609 m³/s) Dec. 30, 1942 (gage height, 13.94 ft (4.249 m)); maximum gage height, 14.25 ft (4.343 m) Apr. 4, 1960; minimum discharge, 39 ft³/s (1.10 m³/s) Oct. 17, 1964 (gage height, 1.38 ft (0.421 m)).

REMARKS.--Records excellent except those for winter periods, which are good. Slight regulation by upstream lakes and reservoirs. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 851: 1938(M). WRD N.Y. 1968: 1966 (M). WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	275	324	3,020	8,250	1,700	620	2,160	1,240	1,970	7,230	323	150
2	189	324	2,920	8,890	2,300	720	4,740	1,160	1,970	5,330	316	156
3	180	700	2,750	6,380	5,360	1,100	6,190	1,150	1,680	4,560	402	160
4	174	1,060	2,720	5,120	4,000	1,890	5,910	1,330	1,570	4,090	381	154
5	168	881	2,610	4,860	3,130	2,440	7,590	1,280	1,580	3,560	316	148
6	162	1,040	5,070	3,600	2,610	2,090	7,140	1,190	1,530	2,320	281	160
7	241	925	9,780	2,600	2,450	1,940	6,610	1,130	1,460	1,680	256	171
8	325	948	8,680	2,100	2,360	3,030	5,830	1,020	1,270	1,460	230	165
9	361	5,530	8,250	2,000	2,100	3,880	4,910	968	1,090	1,230	218	154
10	304	6,890	7,480	1,900	1,600	3,120	4,860	1,430	968	1,060	203	147
11	248	5,310	7,060	1,900	1,500	2,690	5,570	1,990	852	943	209	140
12	230	4,160	5,370	1,700	1,300	2,700	4,570	1,900	870	839	219	137
13	236	3,690	4,560	1,600	1,200	2,860	3,960	2,220	1,840	726	208	134
14	240	3,170	4,590	1,500	1,200	2,840	3,540	1,900	2,010	650	192	136
15	226	3,750	3,690	1,400	1,300	3,610	3,180	1,830	1,340	628	305	157
16	223	3,600	3,330	1,300	1,200	3,390	2,860	2,300	1,050	637	614	156
17	217	2,710	2,770	1,200	1,000	3,590	2,680	2,100	969	593	410	145
18	210	2,440	2,430	1,450	960	5,130	2,470	4,940	955	538	306	163
19	198	2,260	2,550	1,730	960	4,410	2,280	6,570	1,080	497	351	188
20	192	2,630	2,490	2,720	940	3,720	2,120	6,320	939	462	291	182
21	181	2,900	2,360	2,410	900	3,290	1,940	7,320	840	426	266	161
22	181	2,390	3,310	2,020	900	3,040	1,790	6,330	840	414	268	149
23	180	1,980	3,940	3,970	880	2,700	1,680	4,870	809	395	233	183
24	185	1,910	3,370	3,690	820	2,510	1,630	4,030	749	367	217	181
25	187	1,880	3,160	2,870	800	2,380	1,460	3,470	755	345	204	174
26	182	3,090	3,150	2,580	720	2,890	1,310	2,970	698	329	193	177
27	177	6,060	3,200	2,420	600	3,020	1,240	3,030	615	366	184	168
28	175	4,650	2,910	2,300	600	2,330	1,430	2,840	561	492	177	164
29	200	3,890	2,500	2,100	-----	2,060	1,600	2,840	5,420	396	171	158
30	295	3,190	2,310	1,700	-----	1,980	1,430	2,500	10,000	399	163	152
31	380	-----	3,710	1,700	-----	1,940	-----	2,170	-----	362	155	-----
TOTAL	6,922	84,282	126,040	89,960	45,390	83,910	104,680	86,338	48,280	43,324	8,262	4,770
MEAN	223	2,809	4,066	2,902	1,621	2,707	3,489	2,785	1,609	1,398	267	159
MAX	380	6,890	9,780	8,890	5,360	5,130	7,590	7,320	10,000	7,230	614	188
MIN	162	324	2,310	1,200	600	620	1,240	968	561	329	155	134
CFSM	.23	2.86	4.14	2.96	1.65	2.76	3.55	2.84	1.64	1.42	.27	.16
IN.	.26	3.19	4.77	3.41	1.72	3.18	3.97	3.27	1.83	1.64	.31	.18

CAL YR 1972 TOTAL 839,662 MEAN 2,294 MAX 11,000 MIN 146 CFSM 2.34 IN 31.81
WTR YR 1973 TOTAL 732,158 MEAN 2,006 MAX 10,000 MIN 134 CFSM 2.04 IN 27.74

PEAK DISCHARGE (BASE 11,000 CFS).--NO PEAK ABOVE BASE.

SUSQUEHANNA RIVER BASIN

01502000 BUTTERNUT CREEK AT MORRIS, N.Y.

LOCATION.--Lat 42°32'43", long 75°14'22", Otsego County, 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.

GAGE.--Water-stage recorder. Datum of gage is 1,096.51 ft (334.216 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--35 years, 95.6 ft³/s (2.707 m³/s) (21.75 in/yr (552.4 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 2,580 ft³/s (73.1 m³/s) Dec. 6 (gage height, 7.17 ft (2.185 m)); minimum, 8.0 ft³/s (0.23 m³/s) Oct. 4-6; minimum gage height, 1.57 ft (0.479 m) Oct. 4-6, Sept. 13-14.

Period of record: Maximum discharge, 4,260 ft³/s (121 m³/s) Mar. 5, 1964 (gage height, 8.47 ft (2.582 m)); minimum daily, 1.3 ft³/s (0.037 m³/s) Sept. 24, 1939.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 921: 1939. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	17	174	1,560	86	32	173	75	105	251	16	10
2	11	27	153	542	451	44	422	78	103	174	18	9.7
3	11	78	145	332	890	74	394	105	85	139	17	9.5
4	9.5	48	136	324	260	206	570	116	81	119	16	9.4
5	8.0	65	137	264	205	150	1,070	96	83	108	16	9.1
6	8.0	58	532	170	161	130	459	93	85	93	15	10
7	23	46	1,030	110	150	139	367	80	126	81	15	11
8	20	134	370	86	146	282	286	73	77	71	14	10
9	15	1,950	460	84	117	201	228	86	65	64	14	9.5
10	14	496	423	88	92	159	410	122	60	58	14	9.4
11	12	278	330	76	80	145	348	130	54	53	13	9.0
12	12	211	247	72	70	166	257	130	83	49	13	9.0
13	13	167	286	68	70	159	222	142	254	45	13	8.8
14	13	211	229	68	66	197	189	115	126	42	13	9.1
15	13	204	195	73	73	238	171	109	88	40	21	11
16	13	156	170	70	68	193	151	104	79	43	25	10
17	13	134	130	67	60	300	134	109	75	39	16	9.7
18	13	120	130	80	62	432	124	260	86	34	17	13
19	12	111	142	98	58	266	115	426	80	30	21	15
20	12	169	132	183	55	222	101	411	64	28	16	12
21	12	140	126	72	53	192	90	510	58	28	16	11
22	11	111	272	130	51	164	85	352	59	27	14	10
23	12	98	231	510	47	143	96	256	51	25	14	12
24	12	97	199	201	40	137	86	213	50	23	12	11
25	12	93	197	150	38	126	75	175	70	22	11	10
26	12	488	217	139	37	185	69	149	51	22	11	10
27	12	365	210	129	28	145	69	167	43	35	11	9.5
28	12	244	182	124	28	119	116	155	38	25	11	9.8
29	18	210	150	110	-----	109	107	173	568	24	11	16
30	32	172	150	86	-----	104	83	135	548	20	11	10
31	21	-----	793	86	-----	100	-----	118	-----	17	10	-----
TOTAL	423.5	6,698	8,278	6,152	3,542	5,259	7,067	5,263	3,395	1,829	455	313.5
MEAN	13.7	223	267	198	127	170	236	170	113	59.0	14.7	10.5
MAX	32	1,950	1,030	1,560	890	432	1,070	510	568	251	25	16
MIN	8.0	17	126	67	28	32	69	73	38	17	10	8.8
CFSM	.23	3.74	4.47	3.32	2.13	2.85	3.95	2.85	1.89	.99	.25	.18
IN.	.26	4.17	5.16	3.83	2.21	3.28	4.40	3.28	2.12	1.14	.28	.20

CAL YR 1972 TOTAL 57,792.0 MEAN 158 MAX 1,950 MIN 8.0 CFSM 2.65 IN 36.01
WTR YR 1973 TOTAL 48,675.0 MEAN 133 MAX 1,950 MIN 8.0 CFSM 2.23 IN 30.33

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	1230	7.14	2,540	2-3	0130	6.54	1,920
12-6	2130	7.17	2,580	3-5	2400	6.60	1,980
1-1	0830	6.68	2,060				

01502500 UNADILLA RIVER AT ROCKDALE, N.Y.

LOCATION.--Lat 42°22'40", long 75°24'23", Chenango County, 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.

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.

AVERAGE DISCHARGE.--39 years (1930-33, 1937-73), 818 ft³/s (23.17 m³/s) (21.36 in/yr (542.5 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 7,840 ft³/s (222 m³/s) Jan. 2 (gage height, 9.31 ft (2.838 m)); minimum, 90 ft³/s (2.55 m³/s) Oct. 6 (gage height, 3.70 ft (1.128 m)).

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.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	232	1,500	6,040	780	360	1,180	747	1,240	2,070	152	105
2	113	236	1,400	7,090	1,100	416	2,780	712	1,210	1,280	152	113
3	113	643	1,300	4,030	4,000	640	3,200	783	990	960	156	95
4	105	770	1,300	2,800	3,000	1,300	3,070	960	864	810	145	88
5	100	598	1,220	2,540	2,400	1,790	5,900	873	855	756	136	88
6	93	625	3,080	1,900	1,750	1,560	4,760	774	819	640	127	100
7	208	508	6,940	1,000	1,530	1,420	3,290	688	960	552	121	103
8	192	830	4,440	900	1,420	1,970	2,660	616	1,030	472	118	113
9	173	5,640	3,580	860	900	1,940	2,160	624	738	416	113	105
10	159	6,720	3,310	900	740	1,550	2,470	1,010	616	372	110	93
11	142	4,310	2,980	800	700	1,390	2,960	1,220	544	337	115	87
12	136	2,390	2,180	720	660	1,470	2,310	1,160	496	312	121	84
13	133	1,800	2,160	680	620	1,590	1,980	1,270	1,420	282	130	82
14	130	2,000	2,100	660	600	1,620	1,710	1,090	1,320	270	124	85
15	130	2,150	1,710	680	620	2,200	1,550	970	774	270	170	95
16	130	1,670	1,560	640	580	1,810	1,410	1,010	616	276	225	108
17	142	1,420	1,050	600	540	2,490	1,250	960	576	255	180	108
18	136	1,240	1,040	696	520	4,510	1,130	1,670	568	230	142	124
19	127	1,120	1,250	940	500	3,260	1,050	2,730	664	212	159	133
20	118	1,490	1,250	1,530	450	2,290	960	3,070	552	200	173	133
21	115	1,550	1,200	1,000	430	1,920	864	3,600	464	196	142	118
22	113	1,230	1,930	1,060	430	1,660	792	3,380	480	196	130	108
23	115	1,020	2,330	3,080	420	1,400	819	2,530	424	188	121	127
24	124	960	1,920	2,700	400	1,290	828	2,050	372	173	115	118
25	139	910	1,790	1,710	380	1,210	729	1,680	512	163	110	108
26	142	2,240	1,890	1,410	360	1,490	672	1,410	600	156	105	100
27	133	3,550	2,000	1,280	350	1,560	632	1,380	416	260	100	95
28	133	2,430	1,710	1,190	350	1,220	891	1,430	344	220	98	90
29	204	2,050	1,410	1,000	-----	1,050	1,130	1,510	2,140	188	95	87
30	285	1,630	1,310	700	-----	960	910	1,510	3,440	196	93	93
31	285	-----	2,380	700	-----	930	-----	1,330	-----	170	95	-----
TOTAL	4,478	53,962	65,220	51,836	26,530	50,266	56,047	44,747	26,044	13,078	4,073	3,086
MEAN	144	1,799	2,104	1,672	948	1,621	1,868	1,443	868	422	131	103
MAX	285	6,720	6,940	7,090	4,000	4,510	5,900	3,600	3,440	2,070	225	133
MIN	93	232	1,040	600	350	360	632	616	344	156	93	82
CFSM	.28	3.46	4.05	3.22	1.82	3.12	3.59	2.78	1.67	.81	.25	.20
IN.	.32	3.86	4.67	3.71	1.90	3.60	4.01	3.20	1.86	.94	.29	.22

CAL YR 1972 TOTAL 448,424 MEAN 1.225 MAX 7,020 MIN 84 CFSM 2.36 IN 32.08
WTR YR 1973 TOTAL 399,367 MEAN 1.094 MAX 7,090 MIN 82 CFSM 2.10 IN 28.57

PEAK DISCHARGE (BASE, 5,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-10	0500	9.01	7,210	2-3	2000	8.54	6,260
12-7	1500	9.16	7,530	3-5	1700	8.59	6,360
1-2	0500	9.31	7,840				

01503000 SUSQUEHANNA RIVER AT CONKLIN, N.Y.

LOCATION.--Lat 42°02'07", long 75°48'12", Broome County, 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.

GAGE.--Water-stage recorder. Datum of gage is 840.95 ft (256.321 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 4, 1914, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--60 years (1913-73), 3,557 ft³/s (100.7 m³/s) (21.64 in/yr (549.7 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 32,100 ft³/s (909 m³/s) Nov. 9 (gage height, 14.40 ft (4.389 m)); minimum, 290 ft³/s (8.21 m³/s) Sept. 13 (gage height, 2.00 ft (0.610 m)).

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)).

REMARKS.--Records good, except those for winter periods, which are fair. Minor regulation by upstream lakes and reservoirs. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	408	1,180	6,630	14,300	2,800	1,200	4,450	3,350	4,520	16,500	688	360
2	438	1,470	6,260	19,300	4,200	1,500	8,690	2,960	4,400	10,500	712	380
3	444	2,910	5,920	18,200	14,000	2,000	15,200	2,910	4,130	7,600	832	360
4	385	3,210	5,740	12,700	14,200	3,100	15,700	3,210	3,710	6,480	696	365
5	355	3,350	5,820	10,800	9,850	5,190	22,000	3,460	3,480	5,820	704	325
6	345	2,830	9,740	9,080	6,940	5,470	19,500	3,210	3,230	5,130	616	355
7	1,570	2,660	20,500	6,400	5,740	4,880	15,600	2,850	3,280	3,710	528	390
8	1,500	7,120	21,200	4,400	5,410	5,740	13,000	2,570	3,240	2,860	478	370
9	1,120	29,200	18,700	3,500	5,170	7,910	10,700	2,530	2,960	2,480	444	360
10	921	22,100	17,200	3,400	4,000	7,280	10,400	3,260	2,400	2,090	414	340
11	784	17,500	15,300	3,400	3,500	6,100	12,500	6,280	2,030	1,800	426	325
12	696	12,400	12,800	3,300	3,100	5,640	11,300	6,180	1,790	1,600	426	315
13	704	8,610	9,850	3,200	2,700	5,900	9,000	5,960	2,090	1,430	426	300
14	656	13,100	9,600	3,100	2,500	6,000	7,620	5,620	4,130	1,300	414	315
15	648	15,600	8,380	2,900	2,600	7,330	6,700	5,050	3,950	1,250	485	492
16	600	10,600	7,000	2,700	2,500	8,170	6,000	5,320	2,710	1,250	800	402
17	560	7,900	6,400	2,600	1,700	11,300	5,470	5,240	2,150	1,180	1,050	370
18	544	6,440	5,200	2,900	1,500	15,600	5,090	6,240	1,960	1,110	975	492
19	528	5,640	4,900	3,100	1,600	13,400	4,770	11,700	2,020	993	736	688
20	506	6,480	5,260	3,100	1,900	10,100	4,430	13,300	2,150	903	664	576
21	464	7,010	5,170	4,000	2,000	7,940	4,040	14,900	1,930	858	656	528
22	444	6,180	7,140	5,000	1,900	6,830	3,690	15,600	1,960	832	560	492
23	438	5,210	10,200	6,400	1,800	6,060	3,460	12,700	1,790	768	506	832
24	464	4,500	9,030	9,000	1,700	5,340	3,390	9,680	1,650	728	492	712
25	485	4,290	7,960	7,120	1,600	4,980	3,240	7,910	1,550	680	450	624
26	478	6,810	7,570	5,550	1,600	5,740	2,960	6,610	1,560	640	420	536
27	464	13,300	8,020	5,020	1,500	6,660	2,760	5,760	1,620	867	420	471
28	478	12,400	7,360	4,710	1,300	5,880	3,140	5,900	1,370	760	450	432
29	903	9,390	6,340	4,400	-----	4,840	3,910	5,900	4,730	824	375	390
30	1,260	7,760	5,490	4,100	-----	4,380	3,870	5,740	16,500	824	355	360
31	1,240	-----	6,550	3,000	-----	4,220	-----	5,150	-----	728	340	-----
TOTAL	20,830	257,150	283,230	190,680	109,310	196,680	242,580	197,050	94,990	84,495	17,538	13,257
MEAN	672	8,572	9,136	6,151	3,904	6,345	8,086	6,356	3,166	2,726	566	442
MAX	1,570	29,200	21,200	19,300	14,200	15,600	22,000	15,600	16,500	16,500	1,050	832
MIN	345	1,180	4,900	2,600	1,300	1,200	2,760	2,530	1,370	640	340	300
CFSM	.30	3.84	4.09	2.76	1.75	2.84	3.62	2.85	1.42	1.22	.25	.20
IN.	.35	4.29	4.72	3.18	1.82	3.28	4.04	3.28	1.58	1.41	.29	.22

CAL YR 1972 TOTAL 1,982,350 MEAN 5,416 MAX 29,200 MIN 273 CFSM 2.43 IN 33.04
WTR YR 1973 TOTAL 1,707,790 MEAN 4,679 MAX 29,200 MIN 300 CFSM 2.10 IN 28.46

PEAK DISCHARGE (BASE, 18,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	0900	14.40	32,100	1-2	2100	11.01	19,900
11-14	2300	10.59	18,500	4-5	1100	11.81	22,700
12-8	0800	11.50	21,600	7-1	0200	10.48	18,100

01505000 CHENANGO RIVER AT SHERBURNE, N.Y.

LOCATION.--Lat 42°40'43", long 75°30'39", Chenango County, 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.

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.

AVERAGE DISCHARGE.--35 years, 394 ft³/s (11.16 m³/s) (20.34 in/yr (516.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 4,150 ft³/s (118 m³/s) Dec. 6 (gage height, 8.75 ft (2.667 m)); minimum, 32 ft³/s (0.91 m³/s) Sept. 4 (gage height, 1.92 ft (0.585 m)).

Period of record: Maximum discharge, 9,200 ft³/s (261 m³/s) Mar. 5, 1964 (gage height, 9.80 ft (2.987 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 (0.463 m) Sept. 19, 1963.

Flood of Mar. 18, 1936, reached a stage of 10.6 ft (3.23 m), from records of National Weather Service.

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

REVISIONS (WATER YEARS).--WSP 851: 1938(M). WSP 1502: 1955. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	114	765	2,940	400	210	562	362	540	176	84	34
2	78	161	680	2,200	820	220	1,120	366	508	145	86	34
3	72	396	645	1,590	2,040	306	1,370	421	418	124	90	33
4	68	275	590	1,400	1,140	750	1,280	497	380	112	84	33
5	65	285	645	1,200	950	665	2,300	420	364	110	80	37
6	62	250	2,070	905	765	643	1,840	369	320	106	78	46
7	74	203	2,770	600	700	654	1,700	320	508	96	76	52
8	96	388	1,700	500	665	788	1,360	286	368	86	72	42
9	92	1,910	1,670	470	567	673	1,080	332	306	86	70	38
10	94	1,520	1,560	500	450	610	1,140	517	257	88	70	37
11	88	1,180	1,330	480	400	577	1,180	464	226	90	78	36
12	82	990	1,020	430	380	628	994	469	206	88	82	37
13	82	770	1,080	350	350	697	883	547	247	86	76	37
14	86	795	940	340	320	792	800	465	212	86	72	43
15	92	805	805	348	310	984	786	432	188	86	94	65
16	100	685	680	332	300	814	730	466	173	84	96	56
17	92	600	540	324	240	1,200	652	404	170	82	78	49
18	88	535	540	418	220	1,360	604	649	185	80	50	53
19	84	495	560	508	250	1,000	559	1,020	185	76	47	62
20	80	670	580	655	278	892	517	942	164	76	46	52
21	78	595	571	400	264	788	468	1,540	145	78	46	46
22	78	522	940	610	240	693	429	1,460	140	78	45	47
23	82	454	975	1,320	230	603	486	1,140	138	76	45	49
24	110	432	885	855	220	564	434	955	138	70	43	47
25	104	414	880	690	210	537	377	790	191	70	40	40
26	98	1,330	975	615	210	721	350	665	161	70	39	38
27	92	1,410	880	567	200	626	347	640	138	74	38	37
28	90	1,080	800	500	200	521	561	580	138	76	37	36
29	120	970	660	450	-----	469	507	675	229	106	36	36
30	150	800	660	400	-----	431	421	605	206	94	36	34
31	124	-----	1,430	400	-----	415	-----	655	-----	88	34	-----
TOTAL	2,787	21,034	30,826	23,297	13,319	20,831	25,837	19,453	7,549	2,843	1,948	1,286
MEAN	89.9	701	994	752	476	672	861	628	252	91.7	62.8	42.9
MAX	150	1,910	2,770	2,940	2,040	1,360	2,300	1,540	540	176	96	65
MIN	62	114	540	324	200	210	347	286	138	70	34	33
CFSM	.34	2.67	3.78	2.86	1.81	2.56	3.27	2.39	.96	.35	.24	.16
IN.	.39	2.98	4.36	3.30	1.88	2.95	3.65	2.75	1.07	.40	.28	.18
CAL YR 1972	TOTAL 230,575	MEAN 630	MAX 5,180	MIN 45	CFSM 2.40	IN 32.61						
WTR YR 1973	TOTAL 171,010	MEAN 469	MAX 2,940	MIN 33	CFSM 1.78	IN 24.19						

PEAK DISCHARGE (BASE, 3,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	2130	8.75	4,150				

SUSQUEHANNA RIVER BASIN

01505500 CANASAWACTA CREEK NEAR SOUTH PLYMOUTH, N.Y.

LOCATION.--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.

DRAINAGE AREA.--57.9 mi² (150 km²).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,077.80 ft (328.513 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--28 years, 98.5 ft³/s (2,790 m³/s) (23.10 in/yr (586.7 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 2,780 ft³/s (78.7 m³/s) Dec. 6 (gage height, 4.65 ft (1.417 m)); minimum, 0.64 ft³/s (0.018 m³/s) Aug. 30, 31 (gage height, 1.41 ft (0.430 m)).

Period of record: Maximum discharge, 6,980 ft³/s (198 m³/s) Feb. 25, 1961 (gage height, 5.94 ft (1.811 m)), from rating curve extended above 2,400 ft³/s (68.0 m³/s); minimum, 0.3 ft³/s (0.008 m³/s) July 31, Aug. 6, 7, 1955, Aug. 11, 12, Sept. 23, 1964; minimum gage height, 0.61 ft (0.186 m) July 29, 1953, from outside-gage reading.

REMARKS.--Records fair. Slight diurnal fluctuation caused by gristmill 1.8 mi (2.9 km) upstream from station.

REVISIONS (WATER YEARS).--WSP 1141: 1945-47. WSP 1432: 1954-55. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	157	1,110	48	26	208	84	86	56	6.0	2.7
2	9.1	35	130	439	190	47	421	81	98	45	7.2	2.1
3	6.6	72	131	286	910	72	441	111	68	37	8.4	1.3
4	5.5	38	110	277	325	140	573	115	61	32	5.5	1.1
5	5.0	34	149	219	238	160	776	98	53	32	4.1	.92
6	4.5	27	1,190	130	170	150	463	83	47	26	3.7	11
7	11	23	625	82	159	214	356	71	126	22	3.3	9.8
8	14	203	320	70	156	327	280	63	59	18	3.0	5.0
9	11	785	451	66	110	259	216	96	45	16	2.7	3.3
10	9.8	269	404	70	82	205	312	140	36	15	3.0	2.1
11	8.4	181	299	68	66	189	269	158	31	14	4.5	1.5
12	8.4	144	220	64	54	222	210	162	61	13	5.5	1.3
13	8.4	115	247	60	50	217	180	162	118	12	3.7	1.1
14	8.4	144	187	56	48	301	155	124	70	11	3.3	3.3
15	11	146	157	56	48	296	143	116	48	13	6.0	14
16	11	122	130	58	46	252	129	101	40	12	15	7.2
17	9.8	108	94	52	36	548	113	97	39	9.8	12	4.5
18	8.4	96	100	76	40	397	104	209	83	8.4	9.0	15
19	7.8	91	100	110	34	273	95	238	74	7.2	12	14
20	7.2	165	100	200	30	220	84	254	49	6.6	10	7.2
21	6.0	123	100	120	38	184	77	420	40	7.8	7.0	5.5
22	5.8	104	287	230	36	155	72	287	41	7.8	4.0	5.0
23	6.5	82	246	433	34	130	109	207	35	6.0	3.0	12
24	9.8	86	205	242	30	120	83	173	62	5.5	2.4	7.2
25	9.6	83	204	180	28	123	68	142	60	5.0	2.1	5.5
26	8.1	608	233	161	22	209	63	117	40	4.5	1.8	4.1
27	7.0	361	212	147	20	151	69	126	32	13	1.3	3.7
28	8.7	253	177	130	20	122	154	119	35	7.8	1.3	3.3
29	24	201	130	110	-----	109	122	125	145	17	.92	3.0
30	24	140	140	66	-----	102	95	98	81	9.1	.77	2.7
31	15	-----	643	56	-----	97	-----	117	-----	6.6	.77	-----
TOTAL	302.8	4,851	7,878	5,424	3,068	6,017	6,440	4,494	1,863	496.1	153.26	160.42
MEAN	9.77	162	254	175	110	194	215	145	62.1	16.0	4.94	5.35
MAX	24	785	1,190	1,110	910	548	776	420	145	56	15	15
MIN	4.5	12	94	52	20	26	63	63	31	4.5	.77	.92
CFSM	.17	2.80	4.39	3.02	1.90	3.35	3.71	2.50	1.07	.28	.09	.09
IN.	.19	3.12	5.06	3.48	1.97	3.87	4.14	2.89	1.20	.32	.10	.10

CAL YR 1972 TOTAL 53,325.50 MEAN 146 MAX 2,750 MIN 1.5 CFSM 2.52 IN 34.26
WTR YR 1973 TOTAL 41,147.58 MEAN 113 MAX 1,190 MIN .77 CFSM 1.95 IN 26.44

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1700	4.65	2,780	2-2	2400	4.40	2,200
1-1	0300	4.27	1,940	4-4	2100	4.13	1,660

01508803 WEST BRANCH TIOUGHNIAGA RIVER AT HOMER, N.Y.

LOCATION.--Lat 42°38'13", long 76°10'37", Cortland County, 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.

DRAINAGE AREA.--71.5 mi² (185 km²).

PERIOD OF RECORD.--November 1966 to September 1968, October 1972 to current year.

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.

EXTREMES.--Current year: Maximum discharge, about 1,200 ft³/s (34.0 m³/s) Dec. 7 (from unit yield comparison with station 01509000); minimum, 18 ft³/s (0.51 m³/s) Sept. 3 (gage height, 1.14 ft (0.347 m)).

Period of record: Maximum discharge, 1,320 ft³/s (37.4 m³/s) Mar. 23, 1968 (gage height, 6.54 ft (1.993 m)) from rating curve extended above 500 ft³/s (14.2 m³/s); 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, 1973.

Flood of June 23, 1972, reached a stage of 7.46 ft (2.274 m) (8.05 ft (2.454 m) at Water Street site), from floodmarks (discharge undetermined); flood of Mar. 5, 1964 was considerably higher (discharge not determined).

REMARKS.--Records good except those for period of no gage-height record, 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). Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	46	160	740	110	76	206	125	100	47	33	20
2	52	87	140	520	170	80	347	124	97	45	33	19
3	49	141	130	440	545	96	490	131	91	43	35	18
4	48	99	120	350	326	234	409	129	89	43	36	20
5	46	95	120	300	269	251	612	125	86	42	33	20
6	47	85	450	250	220	226	499	116	89	36	31	29
7	68	79	800	210	206	212	477	107	76	40	30	26
8	72	157	500	190	196	225	389	103	78	40	27	30
9	63	328	480	180	170	194	337	106	75	41	30	30
10	60	246	420	170	140	173	332	107	72	37	37	29
11	54	194	380	160	130	166	331	120	68	35	32	29
12	52	174	329	150	120	185	290	126	69	34	30	29
13	54	148	318	140	120	195	260	130	71	34	28	29
14	51	189	283	140	119	225	235	115	65	34	31	34
15	55	200	232	136	123	278	214	112	66	37	33	46
16	52	171	220	131	110	248	199	110	68	35	29	35
17	50	146	190	128	100	304	185	106	69	35	26	32
18	49	152	220	141	100	421	175	116	80	33	26	37
19	48	148	210	154	100	318	166	115	78	32	29	34
20	46	160	200	173	101	279	157	125	70	32	26	31
21	44	150	190	125	100	250	151	178	69	34	29	30
22	43	130	260	159	99	223	141	171	68	34	28	28
23	49	120	250	253	95	202	161	151	67	33	27	30
24	56	110	230	191	88	199	141	140	64	31	26	28
25	50	100	240	165	86	205	129	129	62	31	25	28
26	47	180	260	156	84	268	123	120	59	34	25	27
27	45	280	250	154	78	226	125	118	57	47	24	27
28	44	230	230	149	74	193	168	113	56	38	24	27
29	50	190	220	140	-----	176	154	114	59	40	22	26
30	54	170	200	120	-----	167	134	109	51	34	19	25
31	48	-----	460	110	-----	160	-----	105	-----	33	20	-----
TOTAL	1,610	4,705	8,692	6,525	4,179	6,655	7,737	3,796	2,169	1,144	884	853
MEAN	51.9	157	280	210	149	215	258	122	72.3	36.9	28.5	28.4
MAX	72	328	800	740	545	421	612	178	100	47	37	46
MIN	43	46	120	110	74	76	123	103	51	31	19	18
CFSM	.73	2.20	3.92	2.94	2.08	3.01	3.61	1.71	1.01	.52	.40	.40
IN.	.84	2.45	4.52	3.39	2.17	3.46	4.03	1.97	1.13	.60	.46	.44

WTR YR 1973 TOTAL 48,949 MEAN 134 MAX 800 MIN 18 CFSM 1.87 IN 25.47

PEAK DISCHARGE (BASE, 480 CFS)

NOTE.--No gage-height record
Nov. 20 to Dec. 11.

DATE	HOUR	G. H.	DISCHARGE	DATE	HOUR	G. H.	DISCHARGE
12-7	UNKNOWN	UNKNOWN	1,200	3-18	0145	4.10	540
12-23	1115	5.27	900	4-5	0230	4.84	762
2-3	0515	4.87	771				Not About

01509000 TIOUGHNIAGA RIVER AT CORTLAND, N.Y.

LOCATION.--Lat 42°36'10", long 76°09'35", Cortland County, 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.

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).

PERIOD OF RECORD.--May 1938 to current year.

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.

AVERAGE DISCHARGE.--35 years, 486 ft³/s (13.76 m³/s) (22.60 in/yr (574.0 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 5,030 ft³/s (142 m³/s) Dec. 7 (gage height, 8.69 ft (2.649 m)); minimum, 54 ft³/s (1.53 m³/s) Sept. 12-14 (gage height, 2.65 ft (0.808 m)).

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.

REMARKS.--Records good. 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). Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD N.Y. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221	182	711	3,950	540	330	833	521	445	249	111	58
2	201	288	667	3,150	800	340	1,730	510	477	225	111	58
3	185	724	637	1,920	2,810	420	2,470	543	425	217	108	58
4	178	549	613	1,500	1,940	1,020	2,150	643	360	233	108	58
5	164	466	625	1,300	1,300	1,150	3,080	565	337	253	105	58
6	154	430	2,490	960	944	1,050	2,650	521	319	221	99	71
7	197	400	4,410	760	888	1,030	2,310	466	292	209	71	76
8	257	692	2,630	700	838	1,250	1,820	435	279	201	56	64
9	253	1,880	2,590	660	680	1,140	1,410	440	253	185	66	58
10	221	1,900	2,300	620	580	930	1,350	488	237	174	73	58
11	197	1,140	1,870	600	560	867	1,480	538	233	164	73	58
12	185	929	1,350	560	500	928	1,230	560	249	154	66	56
13	185	757	1,300	540	490	1,000	1,050	661	265	144	62	54
14	182	867	1,180	500	480	1,070	915	560	233	141	60	58
15	185	999	1,010	490	482	1,600	867	532	233	138	60	90
16	205	835	900	470	450	1,320	822	607	233	132	88	93
17	193	718	660	460	440	1,500	744	521	233	132	71	76
18	182	637	740	520	450	2,200	685	565	261	129	60	78
19	175	577	783	600	430	1,600	649	711	274	126	76	93
20	164	698	762	854	421	1,270	607	631	229	123	80	80
21	157	685	728	560	417	1,080	571	1,130	225	123	66	73
22	150	589	1,100	680	410	940	538	1,300	229	120	60	71
23	168	538	1,330	1,760	398	840	625	985	221	117	58	66
24	213	510	1,190	1,310	370	834	554	815	241	114	54	66
25	197	499	1,110	919	360	837	499	718	229	111	52	64
26	185	915	1,210	815	357	1,170	472	631	225	108	58	62
27	175	1,440	1,200	766	320	1,020	466	595	221	117	58	62
28	168	1,040	1,050	747	320	831	661	560	229	123	60	60
29	171	874	889	699	-----	752	692	554	332	120	58	60
30	205	744	854	560	-----	702	589	516	292	117	56	60
31	201	-----	1,630	540	-----	673	-----	505	-----	114	56	-----
TOTAL	5,874	23,502	40,519	30,470	18,975	31,694	34,519	19,327	8,311	4,834	2,240	1,997
MEAN	189	783	1,307	983	678	1,022	1,151	623	277	156	72.3	66.6
MAX	257	1,900	4,410	3,950	2,810	2,200	3,080	1,300	477	253	111	93
MIN	150	182	613	460	320	330	466	435	221	108	52	54
CFSM	.65	2.68	4.48	3.37	2.32	3.50	3.94	2.13	.95	.53	.25	.23
IN.	.75	2.99	5.16	3.88	2.42	4.04	4.40	2.46	1.06	.62	.29	.25

CAL YR 1972	TOTAL 296,298	MEAN 810	MAX 7,420	MIN 96	CFSM 2.77	IN 37.75
WTR YR 1973	TOTAL 222,262	MEAN 609	MAX 4,410	MIN 52	CFSM 2.09	IN 28.32

PEAK DISCHARGE (BASE, 4,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0815	8.69	5,030				

01510000 OTSELIC RIVER AT CINCINNATUS, N.Y.

LOCATION.--Lat 42°32'28", long 75°53'58", Cortland County, on right bank 150 ft (46 m) upstream from Mead Brook and 300 ft (91 m) downstream from bridge on County Highway 159 at Cincinnati.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--June 1938 to September 1964, October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,031.26 ft (314.328 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--30 years (1939-64, 1970-73), 268 ft³/s (7,590 m³/s) (24.76 in/yr (628.9 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 4,160 ft³/s (118 m³/s) Dec. 6 (gage height, 8.34 ft (2.542 m)); minimum, 12 ft³/s (0.34 m³/s) Sept. 5 (gage height, 0.35 ft (0.107 m) result of regulation).

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).

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

REVISIONS.--WRD N.Y. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	42	384	2,580	240	110	454	230	230	76	23	17
2	30	85	320	1,310	600	110	912	228	268	68	34	15
3	26	228	327	796	2,010	170	1,220	263	205	64	34	15
4	23	143	301	704	856	558	1,040	298	183	60	28	15
5	22	121	342	576	608	579	1,670	265	166	63	25	14
6	21	107	2,080	415	451	523	1,150	235	144	58	23	28
7	24	101	2,290	295	424	579	1,010	201	162	49	22	33
8	27	388	988	253	400	860	828	183	131	44	21	25
9	29	1,260	1,190	250	320	696	632	228	106	41	22	20
10	28	735	983	223	260	544	720	280	92	39	23	18
11	28	454	776	220	240	502	712	308	81	38	21	18
12	26	398	500	200	220	583	565	325	78	36	21	17
13	25	319	565	180	210	608	495	364	124	34	20	16
14	25	417	467	170	200	740	439	298	93	34	19	20
15	27	425	394	160	200	912	430	285	79	35	27	38
16	30	348	350	160	190	740	403	293	68	35	39	37
17	29	300	270	150	170	1,130	358	253	68	32	32	28
18	26	270	270	180	170	1,180	330	280	119	30	26	34
19	26	247	280	235	150	780	310	300	114	30	32	44
20	24	374	280	418	141	628	283	350	84	29	28	34
21	23	321	280	197	136	527	245	828	74	30	23	29
22	23	272	593	436	129	454	228	760	74	30	23	29
23	25	243	620	1,000	120	397	290	527	77	28	21	40
24	33	232	513	586	130	382	248	445	96	27	20	32
25	35	224	492	448	120	373	207	376	85	24	20	26
26	30	831	576	397	110	593	193	325	73	25	19	24
27	28	812	541	367	110	474	193	310	66	32	19	23
28	27	548	454	360	120	382	346	310	61	27	19	21
29	41	463	350	320	-----	340	323	340	114	27	18	21
30	65	360	370	260	-----	318	265	275	96	27	17	19
31	51	-----	1,170	260	-----	305	-----	283	-----	25	17	-----
TOTAL	911	11,068	19,316	14,106	9,035	17,077	16,499	10,246	3,411	1,197	736	750
MEAN	29.4	369	623	455	323	551	550	331	114	38.6	23.7	25.0
MAX	65	1,260	2,290	2,580	2,010	1,180	1,670	828	268	76	39	44
MIN	21	42	270	150	110	110	193	183	61	24	17	14
CFSM	.20	2.51	4.24	3.10	2.20	3.75	3.74	2.25	.78	.26	.16	.17
IN.	.23	2.80	4.89	3.57	2.29	4.32	4.18	2.59	.86	.30	.19	.19
CAL YR 1972	TOTAL	135,414	MEAN	370	MAX	4,530	MIN	16	CFSM	2.52	IN	34.27
WTR YR 1973	TOTAL	104,352	MEAN	286	MAX	2,580	MIN	14	CFSM	1.95	IN	26.41

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1830	8.34	4,160	2-3	0145	7.06	2,770
1-1	0630	7.40	3,110				

01511000 WHITNEY POINT LAKE AT WHITNEY POINT, N.Y.

LOCATION.--Lat 42°20'34", long 75°57'57", Broome County, 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.

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.

EXTREMES.--Current year: Maximum elevation, 979.81 ft (298.646 m) Dec. 9 (contents, 21,970 acre-ft (27.1 hm³)); minimum 965.68 ft (294.339 m) Feb. 10 (contents, 4,909 acre-ft (6.05 hm³)).

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)).

REMARKS.--Lake is formed by earth-fill 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 (289.56 m) (sill of gates) and 1,010.0 ft (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.

REVISIONS.--WRD N.Y. 1968: Drainage area.

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

GAGE HEIGHT*, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73.18	73.02	73.10	69.70	65.97	65.89	65.96	69.62	72.92	73.07	73.22	72.97
2	73.16	73.06	72.52	73.25	66.08	65.97	67.01	69.67	72.73	73.02	73.07	73.00
3	73.14	73.20	71.70	72.56	69.77	66.16	67.94	69.51	72.71	73.16	73.00	73.02
4	73.12	72.97	70.88	70.41	73.15	66.50	68.46	70.09	72.89	73.20	72.94	73.05
5	73.09	72.82	70.00	68.44	71.45	67.40	70.79	70.81	72.98	73.21	72.89	73.07
6	73.07	73.00	69.50	66.55	68.56	67.28	74.82	71.40	72.99	73.19	72.85	73.12
7	73.04	73.16	75.00	66.00	66.10	66.36	75.65	71.88	72.94	73.15	72.84	73.20
8	73.02	73.32	79.20	66.07	66.12	66.43	74.81	72.27	72.90	73.11	72.84	73.23
9	73.00	75.27	79.54	66.04	66.20	66.68	72.53	72.66	72.92	73.05	72.85	73.23
10	72.98	77.50	79.41	66.03	65.81	66.08	70.00	73.22	72.99	73.03	72.88	73.23
11	72.96	76.95	78.20	66.01	66.05	65.87	68.29	73.10	73.05	73.05	72.90	73.22
12	72.95	75.49	75.45	65.95	66.34	66.06	66.67	73.01	73.10	73.06	72.93	73.21
13	72.95	73.81	72.24	65.96	66.16	66.14	66.02	73.06	73.20	73.06	72.95	73.19
14	72.95	73.30	69.24	65.95	66.02	66.10	65.98	73.13	73.15	73.06	72.98	73.18
15	72.97	74.36	66.55	65.94	66.20	66.92	66.12	73.05	72.81	73.09	73.02	73.18
16	73.00	73.69	66.01	66.03	66.34	67.09	66.20	73.01	72.68	73.13	73.09	73.20
17	73.03	73.05	65.94	66.07	66.36	66.79	66.17	73.01	72.74	73.15	73.14	73.22
18	73.07	73.03	66.15	66.03	66.24	68.20	66.04	73.01	72.88	73.16	73.19	73.25
19	73.11	73.01	66.47	66.10	66.13	68.74	66.09	73.24	73.20	73.17	73.25	73.28
20	73.16	73.08	66.41	66.57	66.02	68.11	66.14	73.55	73.33	73.16	73.34	73.30
21	73.19	73.38	66.21	66.63	65.94	67.18	66.30	73.41	73.18	73.17	73.36	73.31
22	73.23	73.24	66.36	66.30	65.90	66.24	66.39	73.29	73.02	73.20	73.31	73.31
23	73.26	72.94	67.32	67.43	65.95	66.02	66.38	72.93	72.91	73.20	73.19	73.32
24	73.29	72.94	67.05	67.56	65.98	66.00	66.46	73.00	72.97	73.20	73.08	73.35
25	73.29	73.23	66.45	66.61	65.99	66.03	66.49	73.18	73.21	73.19	72.99	73.33
26	73.01	73.48	66.38	66.26	65.99	66.27	66.57	73.07	73.15	73.17	72.94	73.25
27	72.87	74.38	66.31	66.28	65.94	66.89	66.85	72.91	72.92	73.23	72.93	73.10
28	72.93	73.64	65.84	66.19	65.87	66.45	67.42	72.95	72.89	73.31	72.93	72.97
29	73.04	73.29	65.83	66.13	-----	65.99	68.40	73.12	73.14	73.35	72.93	72.90
30	72.99	73.08	66.08	65.98	-----	65.93	69.03	73.29	73.53	73.35	72.95	72.89
31	73.00	-----	66.37	65.98	-----	65.90	-----	73.16	-----	73.33	72.95	-----
MEAN	73.07	73.69	69.80	67.00	66.74	66.57	68.07	72.47	73.00	73.16	73.02	73.17
MAX	73.29	77.50	79.54	73.25	73.15	68.74	75.65	73.55	73.53	73.35	73.36	73.35
MIN	72.87	72.82	65.83	65.94	65.81	65.87	65.96	69.51	72.68	73.02	72.84	72.89
Δ	12,698	12,779	6,522	5,215	5,081	5,120	8,594	12,748	13,193	13,104	12,637	12,553
#	-3.9	+1.7	-102	-21	-2.4	+6	+58	+68	+7.5	-1.4	-7.6	-1.4

CAL YR 1972 MEAN 71.51 MAX 96.35 MIN 64.76 # -0.8
WTR YR 1973 MEAN 70.83 MAX 79.54 MIN 65.81 # -0.5

Δ CONTENTS, IN ACRE-FEET, AT END OF MONTH.

CHANGE IN CONTENTS, EQUIVALENT IN CUBIC FEET PER SECOND.

* ADD 900 FT TO OBTAIN ELEVATIONS ABOVE MEAN SEA LEVEL.

SUSQUEHANNA RIVER BASIN

161

01512500 CHENANGO RIVER NEAR CHENANGO FORKS, N.Y.

LOCATION.--Lat 42°13'05", long 75°50'55", Broome County, on left bank in Chenango Valley State Park, 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.

AVERAGE DISCHARGE.--60 years (1913-73), 2,394 ft³/s (67.80 m³/s).

EXTREMES.--Current year: Maximum discharge, 15,500 ft³/s (439 m³/s) Jan. 1 (gage height, 8.91 ft (2.716 m)); minimum, 199 ft³/s (5.64 m³/s) Sept. 5 (gage height, 2.48 ft (0.756 m)).

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)).

REMARKS.--Records good. 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	438	630	3,880	14,400	2,100	940	2,910	1,950	2,610	1,920	542	233
2	456	670	3,920	13,700	2,800	1,000	6,870	2,200	2,420	1,120	538	215
3	429	1,990	3,670	10,100	12,500	1,630	9,220	2,090	2,020	1,000	689	214
4	396	2,320	3,600	8,330	9,670	3,250	8,590	2,410	1,830	965	561	210
5	372	1,420	3,610	7,540	7,690	4,650	12,300	2,180	1,850	922	477	202
6	356	1,220	8,070	5,650	6,190	4,860	10,700	1,920	1,680	902	419	285
7	420	1,090	14,000	3,450	4,740	4,510	9,520	1,700	1,880	790	344	378
8	483	2,690	11,200	3,200	3,660	5,150	8,610	1,550	1,780	724	284	335
9	528	11,400	12,000	2,900	3,520	5,400	7,450	1,560	1,380	679	269	314
10	501	9,360	11,200	2,600	2,500	4,440	7,310	2,550	1,210	598	278	279
11	429	6,770	10,100	2,400	2,300	3,720	7,990	3,180	1,110	566	304	263
12	412	5,640	8,310	2,200	2,000	3,860	6,550	2,950	1,040	543	293	254
13	412	4,710	7,450	2,100	1,800	4,260	4,920	3,270	2,310	524	294	246
14	388	5,310	6,990	1,900	1,600	4,440	4,160	2,860	2,460	519	289	266
15	380	6,180	5,560	1,700	1,700	6,400	3,740	2,580	1,540	526	315	354
16	396	5,340	4,170	1,700	1,600	5,960	3,500	2,570	1,120	536	325	387
17	420	3,730	3,100	1,700	1,200	6,680	3,230	2,360	1,020	516	338	390
18	404	3,150	2,900	1,700	1,200	9,820	2,940	2,780	1,090	497	328	412
19	396	2,860	3,100	2,100	1,300	7,540	2,700	3,980	1,640	462	325	508
20	364	3,560	3,200	2,800	1,200	6,220	2,560	4,010	1,450	406	451	471
21	348	3,670	3,220	2,400	1,300	5,450	2,230	6,430	1,270	444	458	413
22	340	3,170	5,220	2,480	1,300	4,610	2,130	6,850	1,340	437	417	379
23	364	2,750	7,110	6,620	1,200	3,700	2,150	5,410	1,090	450	394	754
24	546	2,230	6,180	6,260	1,100	3,400	2,240	4,150	1,020	450	365	634
25	650	2,140	5,720	4,530	1,100	3,290	1,960	3,690	1,130	441	299	547
26	582	5,130	5,850	3,480	1,000	4,110	1,730	3,300	1,230	438	279	500
27	420	8,970	6,340	3,200	980	4,470	1,630	2,850	1,000	592	264	427
28	404	6,760	5,320	3,070	960	3,780	2,300	2,870	802	615	253	318
29	510	5,160	4,180	2,500	-----	3,140	2,810	3,280	1,980	610	253	272
30	760	4,120	3,640	2,100	-----	2,810	2,200	3,030	2,510	640	245	256
31	710	-----	6,340	2,100	-----	2,700	-----	2,820	-----	579	244	-----
TOTAL	14,014	124,140	189,150	130,910	80,210	136,190	147,150	95,330	46,812	20,411	11,134	10,716
MEAN	452	4,138	6,102	4,223	2,865	4,393	4,905	3,075	1,560	658	359	357
MAX	760	11,400	14,000	14,400	12,500	9,820	12,300	6,850	2,610	1,920	689	754
MIN	340	630	2,900	1,700	960	940	1,630	1,550	802	406	244	202

CAL YR 1972 TOTAL 1,300,442 MEAN 3,553 MAX 24,400 MIN 245
WTR YR 1973 TOTAL 1,006,167 MEAN 2,757 MAX 14,400 MIN 202

PEAK DISCHARGE (BASE 18,000 CFS).--NO PEAK ABOVE BASE.

01514000 OWEGO CREEK NEAR OWEGO, N.Y.

LOCATION.--Lat 42°07'40", long 76°16'17", Tioga County, on right bank 300 ft (91 m) upstream from bridge on State Highway 96, 0.5 mi (0.8 km) upstream from Catatonk 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.

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.

AVERAGE DISCHARGE.--43 years, 274 ft³/s (7.760 m³/s) (20.11 in/yr (510.8 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 5,450 ft³/s (154 m³/s) Nov. 8 (gage height, 7.64 ft (2.329 m)); minimum daily, 18 ft³/s (0.51 m³/s) Sept. 4, 5.

Period of record: Maximum discharge, 23,500 ft³/s (666 m³/s) July 8, 1935 (gage height, 10.50 ft (3.200 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 discharge, 8.1 ft³/s (0.23 m³/s) Aug. 13, 1965 (gage height, 0.69 ft (0.210 m)).

REMARKS.--Records fair.

REVISIONS.--WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	28	402	1,780	160	62	782	298	192	156	38	21
2	26	40	358	988	660	120	1,530	294	200	127	40	22
3	25	203	340	655	3,050	244	1,500	329	169	107	81	20
4	25	142	336	630	940	700	1,450	406	209	96	62	18
5	25	102	347	560	650	732	2,440	354	203	87	48	18
6	24	89	1,860	390	460	635	1,140	305	159	78	42	47
7	58	79	2,100	270	400	547	868	259	144	69	38	62
8	50	1,710	904	250	400	655	650	232	129	63	34	42
9	30	3,410	1,760	230	350	533	511	235	111	58	32	34
10	28	892	1,260	200	260	434	655	294	98	53	32	31
11	25	580	916	170	220	386	695	308	87	49	30	29
12	28	484	650	160	200	410	502	271	81	45	29	28
13	28	378	635	140	190	484	434	294	174	44	31	26
14	27	1,770	542	130	170	556	374	247	152	43	29	31
15	25	1,270	454	130	170	776	340	232	96	44	36	47
16	24	716	410	131	130	560	305	259	83	45	38	41
17	23	547	280	127	110	922	274	220	83	41	31	35
18	22	442	250	133	110	1,270	256	256	99	39	29	39
19	23	374	260	161	120	771	244	277	195	38	31	44
20	22	533	298	271	120	625	232	262	124	36	36	36
21	23	430	319	150	122	533	203	615	116	38	30	33
22	25	347	1,480	320	110	446	187	475	166	32	28	33
23	30	305	1,120	916	100	378	179	370	138	32	27	93
24	35	284	832	438	100	347	171	362	238	33	26	72
25	28	265	765	329	92	378	154	308	156	31	25	58
26	27	970	820	294	84	625	144	262	120	30	23	49
27	27	844	832	271	60	475	159	244	103	55	23	45
28	27	580	610	268	56	382	575	308	103	47	22	44
29	36	515	479	270	-----	336	479	350	315	69	21	40
30	33	422	426	190	-----	308	347	256	226	55	19	35
31	30	-----	1,050	180	-----	291	-----	220	-----	42	20	-----
TOTAL	887	18,751	23,095	11,132	9,594	15,921	17,780	9,402	4,469	1,782	1,031	1,173
MEAN	28.6	625	745	359	343	514	593	303	149	57.5	33.3	39.1
MAX	58	3,410	2,100	1,780	3,050	1,270	2,440	615	315	156	81	93
MIN	22	28	250	127	56	62	144	220	81	30	19	18
CFSM	.15	3.38	4.03	1.94	1.85	2.78	3.21	1.64	.81	.31	.18	.21
IN.	.18	3.77	4.64	2.24	1.93	3.20	3.58	1.89	.90	.36	.21	.24
CAL YR 1972	TOTAL 162,742	MEAN 445	MAX 8,700	MIN 16	CFSM 2.41	IN 32.72						
WTR YR 1973	TOTAL 115,017	MEAN 315	MAX 3,410	MIN 18	CFSM 1.70	IN 23.13						

PEAK DISCHARGE (BASE, 3,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-8	2200	7.64	5,450	2-3	0430	6.89	4,580
12-6	2030	6.18	3,800				

01515000 SUSQUEHANNA RIVER NEAR WAVERLY, N.Y.

LOCATION.--Lat 41°59'05", long 76°30'05", Bradford County, Pa., 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.

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.

AVERAGE DISCHARGE.--36 years, 7,392 ft³/s (209.3 m³/s) (21.03 in/yr (534.2 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 59,500 ft³/s (1,690 m³/s) Nov. 9 (gage height, 13.64 ft (4.157 m)); minimum, 676 ft³/s (19.1 m³/s) Sept. 4-5, 13-14 (gage height, 0.98 ft (0.299 m)).

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.

Flood in March 1936 reached a stage of about 21.4 ft (6.52 m), from flood profile (discharge, 128,000 ft³/s (3,620 m³/s)).

REMARKS.--Records good. Minor regulation by upstream lakes and reservoirs. Slight diversion from upstream tributaries for operation of Erie (Barge) Canal.

REVISIONS.--WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,050	2,560	13,700	27,500	6,040	3,100	9,310	7,560	9,100	20,900	1,540	797
2	1,030	2,510	12,800	37,800	7,660	3,540	17,700	6,930	8,560	16,100	1,460	764
3	1,090	4,740	12,200	35,400	34,000	5,010	30,700	6,950	8,020	11,100	1,560	732
4	1,100	6,820	11,800	28,100	33,000	7,580	31,200	7,630	7,260	9,030	1,810	695
5	1,010	6,480	11,800	23,300	25,300	11,500	46,900	7,660	7,150	7,990	1,540	685
6	918	5,640	19,700	19,700	18,500	13,300	41,000	7,340	6,670	7,260	1,380	850
7	981	4,860	40,600	14,700	14,900	12,900	33,500	6,570	6,580	6,280	1,250	1,030
8	2,670	10,300	39,900	10,300	12,100	12,900	27,600	5,890	6,540	4,790	1,100	970
9	2,510	52,500	40,800	6,800	11,500	15,500	23,700	5,450	5,940	4,010	977	885
10	2,110	45,900	37,400	6,800	9,600	15,900	21,600	6,230	5,120	3,560	929	814
11	1,810	32,600	33,000	7,400	7,400	13,400	25,100	10,300	4,390	3,110	965	765
12	1,600	24,900	27,600	6,600	6,200	11,900	23,400	12,300	3,910	2,760	943	727
13	1,500	18,400	22,900	6,200	5,800	12,300	18,900	11,700	4,120	2,540	978	692
14	1,450	23,400	20,700	6,600	5,200	12,600	15,600	11,200	6,240	2,350	931	737
15	1,340	37,100	18,900	6,080	5,600	16,100	13,400	10,200	7,430	2,270	948	905
16	1,310	24,400	15,400	6,020	5,400	18,200	12,100	9,950	5,850	2,250	1,020	1,060
17	1,260	18,500	12,800	5,840	3,900	18,500	11,000	9,640	4,520	2,180	1,270	1,030
18	1,240	14,000	10,500	5,870	3,700	33,300	10,100	9,780	3,990	2,040	1,610	1,010
19	1,210	11,800	9,570	6,110	4,200	28,800	9,370	14,000	4,200	1,890	1,620	1,180
20	1,160	12,200	10,200	7,450	4,300	22,700	9,170	18,500	4,580	1,730	1,530	1,440
21	1,110	14,100	10,600	8,560	4,600	18,300	8,170	22,900	4,550	1,680	1,380	1,310
22	1,050	12,900	18,400	9,150	4,400	15,400	7,430	26,100	4,660	1,640	1,370	1,190
23	1,010	11,000	25,000	13,300	4,200	13,000	7,020	23,400	4,410	1,550	1,240	1,620
24	1,060	9,450	22,800	17,300	4,100	11,300	6,890	18,600	4,190	1,440	1,110	2,210
25	1,210	8,320	19,400	15,800	3,900	10,400	6,690	15,100	3,830	1,350	1,060	1,920
26	1,430	11,800	18,200	12,000	3,700	11,300	6,160	12,900	3,640	1,270	947	1,610
27	1,420	23,700	19,700	10,100	3,500	13,400	5,910	11,100	3,640	1,330	862	1,410
28	1,220	26,000	17,900	9,400	3,300	12,900	7,810	10,600	3,430	1,680	817	1,260
29	1,250	20,500	15,000	9,000	-----	10,800	8,740	11,900	4,310	1,870	860	1,080
30	2,170	16,500	12,400	8,200	-----	9,220	8,640	11,300	13,100	1,800	780	924
31	2,730	-----	12,900	7,640	-----	8,620	-----	10,200	-----	1,740	751	-----
TOTAL	44,009	513,880	614,570	395,020	256,000	423,670	504,810	359,880	169,930	131,490	36,538	32,302
MEAN	1,420	17,130	19,820	12,740	9,143	13,670	16,830	11,610	5,664	4,242	1,179	1,077
MAX	2,730	52,500	40,800	37,800	34,000	33,300	46,900	26,100	13,100	20,900	1,810	2,210
MIN	918	2,510	9,570	5,840	3,300	3,100	5,910	5,450	3,430	1,270	751	685
CFSM	.30	3.59	4.15	2.67	1.92	2.86	3.53	2.43	1.19	.89	.25	.23
IN.	.34	4.01	4.79	3.08	2.00	3.30	3.93	2.80	1.32	1.02	.28	.25
CAL YR 1972	TOTAL 4,427,962	MEAN 12,100	MAX 117,000	MIN 676	CFSM 2.54	IN 34.51						
WTR YR 1973	TOTAL 3,482,099	MEAN 9,540	MAX 52,500	MIN 685	CFSM 2.00	IN 27.14						

PEAK DISCHARGE (BASE, 52,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	1700	13.64	59,500				

01520500 TIOGA RIVER AT LINDLEY, N.Y.

LOCATION.--Lat 42°01'44", long 77°07'57", Steuben County, on left bank just downstream from bridge on County Highway 120 at Lindley, and 6 mi (10 km) upstream from Canisteo River.

DRAINAGE AREA.--771 mi² (1,997 km²).

PERIOD OF RECORD.--January 1930 to current year.

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.

AVERAGE DISCHARGE.--43 years, 782 ft³/s (22.15 m³/s) 13.77 in/yr (349.8 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 19,500 ft³/s (552 m³/s) Mar. 17 (gage height, 15.15 ft (4.618 m)); minimum, 54 ft³/s (1.53 m³/s) Oct. 17 (gage height, 3.08 ft (0.939 m)).

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 high-water mark 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.

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

REVISIONS (WATER YEARS).--WSP 871: 1938. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	124	770	1,720	450	246	1,590	1,060	770	335	151	195
2	91	121	710	1,300	4,350	1,190	4,000	935	686	254	486	175
3	80	258	698	1,030	9,200	2,430	2,740	894	608	218	295	164
4	72	270	998	1,010	2,780	2,440	3,020	935	541	278	189	250
5	66	186	977	1,070	1,930	1,900	6,600	796	790	246	151	196
6	63	151	7,780	700	1,350	2,130	3,170	686	638	218	121	520
7	85	136	5,880	400	1,200	1,720	2,330	579	1,030	189	112	418
8	106	1,040	2,600	360	1,230	2,000	2,020	513	710	166	106	252
9	103	1,940	2,470	340	1,030	1,720	1,890	524	502	148	94	193
10	85	861	2,510	320	796	1,440	1,810	552	430	136	91	163
11	77	552	2,000	310	644	1,300	1,680	881	362	124	115	146
12	69	440	1,460	300	460	1,320	1,330	758	322	115	115	133
13	66	353	1,720	290	420	1,180	1,130	942	395	115	115	122
14	66	4,590	1,640	300	410	1,160	963	728	530	130	100	126
15	63	3,590	1,260	320	420	3,360	835	686	326	262	420	454
16	61	1,640	1,190	308	360	2,220	740	686	274	335	530	326
17	56	1,180	764	299	280	7,910	656	620	286	196	278	224
18	58	914	855	322	260	7,230	662	1,030	282	189	842	216
19	61	758	900	358	330	3,260	650	829	308	179	1,560	321
20	61	949	894	420	358	2,330	596	1,140	266	160	766	236
21	61	829	1,050	340	358	1,880	519	3,410	295	189	529	201
22	69	638	5,920	887	344	1,500	465	2,570	650	266	425	184
23	82	530	4,890	2,040	317	1,210	465	1,730	415	179	357	1,130
24	100	460	3,500	740	304	1,070	508	1,640	349	136	292	617
25	109	420	2,780	445	274	970	440	1,490	278	115	248	418
26	118	1,170	2,360	420	258	1,280	435	1,200	234	109	214	346
27	112	1,810	2,140	400	250	1,080	638	1,070	207	371	195	304
28	109	1,190	1,650	540	234	835	2,950	1,180	193	295	180	268
29	118	1,010	1,280	700	-----	734	1,800	1,490	596	349	161	241
30	145	770	1,090	430	-----	686	1,270	1,060	530	234	145	222
31	154	-----	1,200	380	-----	692	-----	894	-----	172	137	-----
TOTAL	2,651	28,880	65,936	18,799	30,597	60,423	47,902	33,508	13,803	6,408	9,520	8,761
MEAN	85.5	963	2,127	606	1,093	1,949	1,597	1,081	460	207	307	292
MAX	154	4,590	7,780	2,040	9,200	7,910	6,600	3,410	1,030	371	1,560	1,130
MIN	56	121	698	290	234	246	435	513	193	109	91	122
CFSM	.11	1.25	2.76	.79	1.42	2.53	2.07	1.40	.60	.27	.40	.38
IN.	.13	1.39	3.18	.91	1.48	2.92	2.31	1.62	.67	.31	.46	.42

CAL YR 1972 TOTAL 485,886 MEAN 1,328 MAX 63,000 MIN 47 CFSM 1.72 IN 23.44
WTR YR 1973 TOTAL 327,188 MEAN 896 MAX 9,200 MIN 56 CFSM 1.16 IN 15.79

PEAK DISCHARGE (BASE, 10,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	1800	11.70	10,300	3-17	2200	15.15	19,500
12-6	2030	14.11	16,200	4-5	0200	11.75	10,400
2-3	0430	13.83	15,400				

01521000 ARKPORT RESERVOIR NEAR ARKPORT, N.Y.

LOCATION.--Lat 42°23'45", long 77°43'00", Steuben County, 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.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum elevation, 1,255.64 ft (382.719 m) Dec. 6 (contents, 1,473 acre-ft (1.82 hm³)); minimum, 1,227.03 ft (373.999 m) Oct. 2-6 (contents, 1 acre-ft (1,230 m³)).

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) Nov. 4-6, 12-15, 18-25, 1963 (contents, 1 acre-ft (1,230 m³)).

REMARKS.--Reservoir is formed by earth-fill 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.

REVISIONS (WATER YEARS).--WSP 1552: 1951-57.

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

GAGE HEIGHT*, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.18	27.09	27.09	31.76	28.03	27.04	1.24	27.08	27.12	27.11	27.11	27.11
2	27.04	27.23	27.09	28.16	32.49	28.05	2.14	27.07	28.55	27.11	27.11	27.11
3	27.03	27.42	27.21	27.13	33.72	31.10	1.58	27.90	27.13	27.11	27.11	27.11
4	27.03	27.09	27.23	27.91	29.28	33.02	1.78	27.95	27.08	27.11	27.11	27.11
5	27.03	27.09	27.46	27.69	28.62	30.04	2.53	27.95	27.08	27.11	27.11	27.18
6	27.03	27.09	43.25	27.12	27.87	30.08	1.72	27.09	28.51	27.11	27.11	27.25
7	27.44	27.09	46.87	27.09	27.85	28.75	1.57	27.07	33.49	27.11	27.11	27.14
8	27.06	27.37	27.98	27.09	28.03	28.43	1.35	27.07	27.86	27.11	27.11	27.14
9	27.06	27.39	27.36	27.09	27.48	27.37	1.23	27.30	27.35	27.11	27.11	27.14
10	27.06	27.29	27.52	27.09	27.49	27.06	1.24	28.06	27.14	27.11	27.11	27.14
11	27.06	27.26	27.27	27.09	27.30	27.14	28.09	31.31	27.09	27.11	27.11	27.14
12	27.06	27.09	27.11	27.08	27.08	28.22	28.08	28.31	27.21	27.12	27.11	27.14
13	27.06	27.09	29.39	27.08	27.06	27.50	27.84	27.73	29.29	27.11	27.11	27.14
14	27.06	27.30	27.64	27.08	27.05	29.81	27.39	27.08	27.14	27.11	27.11	27.14
15	27.06	27.14	27.14	27.08	27.05	31.85	27.15	27.08	27.10	27.11	27.11	27.14
16	27.06	27.09	27.11	27.07	27.05	29.10	27.07	27.07	27.10	27.11	27.11	27.13
17	27.06	27.09	27.13	27.07	27.05	39.36	27.06	28.00	27.09	27.11	27.11	27.13
18	27.06	27.09	27.28	27.23	27.05	41.70	27.06	29.04	27.12	27.11	27.11	27.13
19	27.06	27.09	27.11	28.03	27.04	29.65	27.06	27.64	27.09	27.11	27.11	27.13
20	27.06	27.09	27.10	28.03	27.04	28.62	27.06	29.71	27.09	27.11	27.11	27.13
21	27.06	27.09	27.17	27.20	27.04	28.17	27.06	35.07	27.22	27.11	27.11	27.13
22	27.06	27.09	31.52	28.36	27.04	27.47	27.06	30.36	27.64	27.11	27.11	27.13
23	27.06	27.09	31.28	30.28	27.04	27.38	27.06	27.97	27.55	27.11	27.11	27.13
24	27.06	27.09	30.71	28.11	27.04	27.48	27.06	27.76	27.11	27.11	27.11	27.13
25	27.06	27.09	30.59	27.53	27.04	27.40	27.06	27.33	27.11	27.11	27.11	27.13
26	27.06	28.05	30.28	27.47	27.04	28.14	27.06	27.29	27.11	27.11	27.11	27.13
27	27.06	27.62	29.39	27.62	27.04	1.14	27.79	27.13	27.11	27.11	27.11	27.13
28	27.06	27.30	28.79	27.97	27.04	1.09	32.22	28.01	27.11	27.11	27.11	27.13
29	27.06	27.13	28.24	28.75	-----	1.05	30.62	27.98	27.11	27.11	27.11	27.13
30	27.06	27.09	28.23	28.30	-----	1.06	27.54	27.13	27.11	27.11	27.11	27.13
31	27.06	-----	30.51	28.50	-----	1.06	-----	28.81	-----	27.11	27.11	-----
MEAN	27.07	27.20	29.36	27.78	27.78	25.01	19.03	28.14	27.56	27.11	27.11	27.14
MAX	27.44	28.05	46.87	31.76	33.72	41.70	32.22	35.07	33.49	27.12	27.11	27.25
MIN	27.03	27.09	27.09	27.07	27.04	1.05	1.23	27.07	27.08	27.11	27.11	27.11
†	-3	1	219	-201	-19	0	1	2	-2	0	0	0
‡	0	0	3.5	-3.3	-3	0	0	0	0	0	0	0

CAL YR 1972 MEAN 28.59 MAX 101.99 MIN 26.75 ‡ 0
WTR YR 1973 MEAN 26.70 MAX 46.87 MIN 1.05 ‡ 0

† CONTENTS, IN ACRE-Feet, AT END OF MONTH.
‡ CHANGE IN CONTENTS, EQUIVALENT IN CUBIC FEET PER SECOND.
* ADD 1,200 FT TO OBTAIN ELEVATIONS ABOVE MEAN SEA LEVEL.

SUSQUEHANNA RIVER BASIN

01521500 CANISTEO RIVER AT ARKPORT, N.Y.

LOCATION.--Lat 42°23'45", long 77°42'42", Steuben County, 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.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,202.10 ft (366.400 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--36 years, 34.0 ft³/s (0.963 m³/s).

EXTREMES.--Current year: Maximum discharge, 902 ft³/s (25.5 m³/s) Dec. 6 (gage height, 3.31 ft (1.009 m)); minimum, 1.3 ft³/s (0.037 m³/s) Aug. 29 (gage height, 0.64 ft (0.195 m)).

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).

Flood of July 8, 1935, reached a discharge of 4,820 ft³/s (137 m³/s), by slope-area measurement.

REMARKS.--Records good except those for winter periods, which are fair. Since November 1939, flows above 500 ft³/s (14.2 m³/s) controlled by detention in Arkport Reservoir (see station 01521000).

REVISIONS (WATER YEARS).--WSP 1552: 1952-57. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	16	47	274	16	8.0	55	33	30	6.4	4.0	4.0
2	12	111	44	70	300	13	257	28	48	6.4	3.7	5.1
3	9.1	150	68	25	366	80	105	40	29	5.5	3.4	5.5
4	7.5	49	63	30	72	314	197	42	25	5.5	2.8	4.7
5	6.6	37	102	31	50	137	441	42	21	5.9	2.8	9.9
6	8.3	27	693	19	30	132	132	31	42	5.1	2.5	54
7	163	22	790	16	28	87	101	24	271	4.4	2.5	16
8	41	103	137	15	28	77	66	23	48	4.0	2.3	7.3
9	21	125	77	14	26	54	47	28	26	3.7	2.5	5.1
10	14	67	98	13	20	46	48	55	19	3.4	2.5	4.0
11	11	73	73	12	16	46	57	123	16	3.7	3.1	3.4
12	10	55	51	11	16	70	57	57	14	3.4	2.5	3.1
13	9.6	38	184	10	15	58	54	46	63	4.4	2.5	2.8
14	8.9	89	82	9.8	14	180	44	32	26	4.0	2.3	2.8
15	8.2	82	55	9.6	13	216	36	27	15	3.7	3.1	2.8
16	7.6	58	42	10	13	91	30	23	14	3.7	2.5	2.5
17	7.5	47	40	12	14	498	27	32	15	3.4	2.0	2.5
18	7.3	40	36	18	15	608	25	48	21	8.3	8.3	3.1
19	7.0	40	32	34	16	98	24	32	18	7.3	6.4	2.8
20	6.7	46	30	30	17	70	22	89	12	3.1	4.0	2.5
21	6.5	32	32	28	16	55	20	348	15	4.0	3.4	2.3
22	10	30	306	20	15	46	19	117	30	4.0	3.4	3.4
23	22	28	198	42	14	39	18	58	33	3.7	3.1	8.3
24	29	26	148	42	13	43	17	50	16	3.4	3.1	5.1
25	19	24	132	30	12	42	16	38	13	3.4	2.8	4.0
26	15	304	119	26	11	52	14	33	9.9	3.1	2.5	3.4
27	12	131	86	26	10	39	35	30	8.3	3.7	2.5	3.1
28	11	79	60	32	9.0	30	148	44	8.3	3.4	2.3	3.1
29	17	62	42	30	-----	26	103	43	7.8	3.4	2.3	2.8
30	27	50	39	26	-----	27	44	31	6.8	3.4	2.3	3.1
31	19	-----	186	20	-----	27	-----	55	-----	3.1	2.0	-----
TOTAL	574.8	2,041	4,092	985.4	1,185.0	3,309.0	2,259	1,702	921.1	133.9	95.4	182.5
MEAN	18.5	68.0	132	31.8	42.3	107	75.3	54.9	30.7	4.32	3.08	6.08
MAX	163	304	790	274	366	608	441	348	271	8.3	8.3	54
MIN	6.5	16	30	9.6	9.0	8.0	14	23	6.8	3.1	2.0	2.3
CAL YR 1972	TOTAL 25,898.3	MEAN 70.8	MAX 974	MIN 2.8								
WTR YR 1973	TOTAL 17,481.1	MEAN 47.9	MAX 790	MIN 2.0								

01523000 ALMOND LAKE NEAR ALMOND, N.Y.

LOCATION.--Lat 42°20'50", long 77°42'20", Steuben County, 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.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum elevation, 1,272.86 ft (387.968 m) Dec. 7 (contents, 4,464 acre-ft (5.50 hm³)); minimum, 1,240.85 ft (378.214 m) Feb. 3 (contents, 97 acre-ft (120,000 m³)).

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.

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 (374.60 m) (sill of gates) and 1,300.0 ft (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.

REVISIONS.--WRD N.Y. 1970: Drainage area.

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

GAGE HEIGHT*, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45.92	46.58	46.66	50.87	46.51	45.97	48.11	55.83	56.04	54.86	55.14	54.93
2	45.49	46.33	46.12	48.59	48.61	46.95	48.98	55.02	56.05	54.95	55.25	54.99
3	45.49	46.04	46.30	46.84	48.39	49.08	47.67	55.07	55.93	54.98	55.27	55.01
4	45.33	46.46	46.05	47.52	48.92	50.06	48.32	55.64	55.60	55.01	55.24	55.00
5	45.21	45.59	46.78	47.96	48.46	47.53	48.13	55.95	55.31	55.04	55.22	55.01
6	45.39	45.94	60.02	47.26	47.97	48.02	47.37	56.05	55.32	55.05	55.18	55.19
7	46.48	45.81	71.79	46.03	48.18	47.63	47.20	55.90	57.37	55.04	55.13	55.01
8	45.68	45.88	62.03	46.31	47.88	47.65	46.97	55.65	55.18	55.02	55.08	54.96
9	45.47	45.42	53.98	46.44	46.99	47.18	47.06	55.52	55.23	54.99	55.04	54.90
10	45.14	45.49	48.95	46.31	47.09	47.27	47.16	55.73	55.11	54.95	55.07	54.88
11	45.65	45.50	46.74	46.09	47.45	47.19	47.91	56.46	55.09	54.92	55.13	54.86
12	45.84	45.75	46.25	46.25	47.45	47.66	48.14	55.60	55.06	54.87	55.16	54.84
13	45.52	45.52	46.87	46.40	47.33	47.24	47.51	55.26	55.34	54.84	55.19	54.82
14	45.40	47.18	45.99	46.53	47.23	46.91	46.47	55.17	54.89	54.86	55.22	54.80
15	45.25	45.54	47.33	46.70	47.22	47.03	47.58	54.97	54.62	54.86	55.29	54.82
16	45.09	46.12	47.30	46.84	47.17	47.41	48.11	54.90	54.58	54.85	55.38	54.80
17	45.27	46.80	45.99	46.76	46.82	52.60	48.14	55.07	54.66	54.81	55.42	54.78
18	45.42	47.11	46.62	47.06	46.38	50.87	47.49	55.76	54.78	54.76	55.54	54.80
19	45.55	46.75	47.22	47.68	45.92	47.24	46.90	56.10	54.94	54.71	55.66	54.85
20	45.63	46.67	47.18	48.40	45.51	47.31	46.56	56.16	54.96	54.67	55.62	54.84
21	45.69	46.35	47.03	47.67	45.40	47.00	46.57	55.91	54.95	54.71	55.57	54.83
22	45.98	45.85	48.18	47.41	45.92	47.17	46.37	55.33	54.99	54.71	55.52	54.82
23	46.20	46.37	47.87	47.09	45.64	47.03	46.42	55.06	55.07	54.67	55.45	54.82
24	46.51	46.64	48.66	46.48	45.47	47.14	46.91	54.98	55.05	54.61	55.38	54.77
25	45.95	46.57	49.10	46.68	45.28	47.19	46.98	54.80	54.99	54.57	55.30	54.72
26	45.59	49.25	48.96	47.26	45.62	47.72	46.95	54.89	54.90	54.63	55.22	54.65
27	45.33	47.31	48.09	47.64	45.38	47.87	47.30	54.96	54.78	54.77	55.15	54.57
28	45.51	46.83	47.48	47.61	45.43	47.19	52.25	55.13	54.69	54.86	55.06	54.49
29	45.84	47.25	47.21	47.25	-----	47.24	55.59	55.49	54.77	54.95	54.99	54.42
30	46.79	47.09	47.67	46.34	-----	47.44	56.71	55.51	54.82	55.02	54.94	54.36
31	46.88	-----	49.13	46.56	-----	47.72	-----	55.99	-----	55.07	54.91	-----
MEAN	45.69	46.40	49.21	47.12	46.84	47.73	48.13	55.48	55.17	54.86	55.25	54.82
MAX	46.88	49.25	71.79	50.87	48.92	52.60	56.71	56.46	57.37	55.07	55.66	55.19
MIN	45.09	45.42	45.99	46.03	45.28	45.97	46.37	54.80	54.58	54.57	54.91	54.36
/	326	335	649	314	270	395	1,262	1,213	1,061	1,091	1,069	1,006
#	+ .9	+ .2	+ 5.1	- 5.5	- .8	+ 2.0	+ 14.6	- .8	- 2.6	+ .5	- .4	- 1.1

CAL YR 1972 MEAN 49.95 MAX 95.47 MIN 44.90 # + .1

WTR YR 1973 MEAN 50.58 MAX 71.79 MIN 45.09 # + 1.0

/ Contents, in acre-feet, at end of month.

Change in contents, equivalent in cubic feet per second.

* Add 1,200 ft to obtain elevation above mean sea level.

SUSQUEHANNA RIVER BASIN

01523500 CANACADEA CREEK NEAR HORNEILL, N.Y.

LOCATION.--Lat 42°20'05", long 77°41'00", Steuben County, 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.

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.

AVERAGE DISCHARGE.--31 years (1940-42, 1944-73), 62.3 ft³/s (1.764 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,990 ft³/s (56.4 m³/s) Dec. 8 (gage height, 3.84 ft (1.170 m)); minimum, 7.0 ft³/s (0.20 m³/s) Aug. 13 (gage height, 0.86 ft (0.262 m)).

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.

Flood of July 8, 1935, reached a stage of 16.61 ft (5.063 m), from floodmarks (discharge, 21,000 ft³/s (595 m³/s) by slope-area measurement of peak flow).

REMARKS.--Records fair. Since October 1948, flood flows 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.

REVISIONS.--WRD N.Y. 1969: Drainage area. WRD N.Y. 1971: 1969(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	35	95	339	40	18	99	137	68	16	8.0	11
2	27	138	84	183	544	30	322	82	68	16	11	11
3	22	152	114	87	492	257	164	61	68	16	13	11
4	21	67	119	82	122	496	303	66	68	16	13	11
5	18	55	215	89	106	273	473	66	53	16	13	12
6	26	41	391	68	68	218	193	65	39	16	13	54
7	149	40	464	40	58	176	157	63	386	15	13	25
8	49	168	1,130	32	66	159	110	63	64	15	13	15
9	36	148	447	30	54	117	81	63	48	15	9.5	14
10	24	80	358	29	40	90	82	108	41	15	7.5	11
11	18	82	179	27	33	90	83	295	32	15	7.5	11
12	24	75	113	25	32	101	108	154	31	15	7.5	11
13	26	54	270	25	32	104	116	95	113	15	7.5	11
14	22	270	128	24	34	334	68	81	66	15	7.5	12
15	22	185	92	23	32	333	46	71	42	15	7.5	12
16	19	99	90	23	30	176	46	54	28	15	7.5	12
17	16	58	60	31	33	722	61	49	26	15	7.5	12
18	17	52	58	34	34	704	67	49	26	15	12	12
19	17	47	62	46	35	191	63	49	26	15	15	11
20	17	50	70	48	33	137	50	139	26	15	15	11
21	17	42	68	40	30	116	46	427	26	15	15	11
22	19	39	432	80	28	83	45	168	26	15	15	15
23	30	37	316	178	27	83	39	114	26	15	15	30
24	41	35	243	65	26	83	37	108	26	15	15	16
25	36	35	253	44	25	83	37	77	26	13	15	16
26	28	463	220	45	23	84	37	66	26	9.0	15	16
27	24	251	189	49	22	83	29	65	26	9.0	15	16
28	20	165	122	52	20	72	16	66	24	8.5	15	15
29	30	93	80	58	-----	51	15	66	16	8.5	13	14
30	36	96	70	44	-----	51	65	64	16	8.0	11	14
31	36	-----	215	36	-----	51	-----	68	-----	8.0	11	-----
TOTAL	922	3,152	6,747	1,976	2,119	5,566	3,058	3,099	1,557	430.0	363.5	453
MEAN	29.7	105	218	63.7	75.7	180	102	100	51.9	13.9	11.7	15.1
MAX	149	463	1,130	339	544	722	473	427	386	16	15	54
MIN	16	35	58	23	20	18	15	49	16	8.0	7.5	11
CAL YR 1972	TOTAL 48,712.0	MEAN 133	MAX 3,970	MIN 8.5								
WTR YR 1973	TOTAL 29,442.5	MEAN 80.7	MAX 1,130	MIN 7.5								

01524500 CANISTEO RIVER BELOW CANACADEA CREEK, AT HORNELL, N.Y.

LOCATION.--Lat 42°18'50", long 77°39'05", Steuben County, 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 1,131.10 ft (344.759 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--31 years, 154 ft³/s (4.361 m³/s) (13.24 in/yr (336.3 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 4,800 ft³/s (136 m³/s) Dec. 6 (gage height, 8.88 ft (2.707 m)); minimum daily, 26 ft³/s (0.74 m³/s) Aug. 13, 14, 17.

Period of record: Maximum discharge, 9,560 ft³/s (271 m³/s) June 23, 1972 (gage height, 13.45 ft (4.100 m), from high-water mark), 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.

REMARKS.--Records fair. Diversion from Carrington Creek, a tributary upstream from station, by city of Hornell for municipal supply (1973 average, 4.3 ft³/s (0.12 m³/s)); sewage enters river downstream from gage. Since November 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	120	253	723	98	52	316	216	151	62	35	35
2	68	380	235	340	1,100	150	952	162	209	66	36	42
3	55	420	280	210	1,120	526	562	173	145	57	36	40
4	52	190	293	210	298	1,120	858	180	140	56	35	30
5	48	160	390	220	240	583	1,440	175	130	55	34	37
6	57	120	2,270	120	172	531	580	152	115	51	33	151
7	337	110	1,630	100	156	384	471	134	744	48	32	69
8	140	330	1,850	98	184	348	340	130	198	47	32	45
9	86	466	766	88	120	265	247	136	138	44	29	39
10	64	264	694	84	94	222	237	177	117	42	28	34
11	51	256	452	80	86	217	241	516	97	42	29	33
12	51	220	310	76	82	254	250	259	94	41	27	32
13	51	162	642	70	82	237	249	198	222	45	26	32
14	47	488	395	66	80	574	200	152	145	42	26	32
15	46	400	292	70	78	752	168	138	94	44	30	32
16	43	250	260	76	70	402	154	118	71	41	28	32
17	40	190	180	83	74	1,820	155	118	60	40	26	31
18	40	160	180	101	78	1,870	160	137	60	40	42	36
19	43	150	200	130	78	608	152	116	82	38	42	36
20	42	160	200	130	80	438	133	255	72	38	37	36
21	42	130	190	98	80	379	123	904	69	44	36	36
22	48	120	964	200	76	312	122	412	83	40	36	43
23	86	110	770	349	74	292	117	248	104	37	36	71
24	120	100	635	163	70	291	110	226	82	35	35	45
25	100	100	599	115	66	287	104	184	77	36	35	40
26	90	910	531	118	62	306	98	162	71	32	34	40
27	70	531	434	121	58	279	111	152	70	33	34	37
28	60	370	307	147	54	249	250	167	71	32	32	37
29	45	276	200	150	-----	216	199	165	69	31	31	36
30	100	259	190	100	-----	219	159	142	62	30	28	33
31	100	-----	480	92	-----	218	-----	194	-----	31	28	-----
TOTAL	2,317	7,902	17,072	4,728	4,910	14,401	9,258	6,598	3,842	1,320	1,008	1,272
MEAN	74.7	263	551	153	175	465	309	213	128	42.6	32.5	42.4
MAX	337	910	2,270	723	1,120	1,870	1,440	904	744	66	42	151
MIN	40	100	180	66	54	52	98	116	60	30	26	30
CAL YR 1972	TOTAL	115,657	MEAN	316	MAX	7,440	MIN	30				
WTR YR 1973	TOTAL	74,628	MEAN	204	MAX	2,270	MIN	26				

01526500 TIOGA RIVER NEAR ERWINS, N.Y.

LOCATION.--Lat 42°07'15", long 77°07'45", Steuben County, 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.

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.

AVERAGE DISCHARGE.--55 years, 1,348 ft³/s (38.18 m³/s) (13.29 in/yr (337.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 30,000 ft³/s (850 m³/s) Dec. 6 (gage height, 13.78 ft (4.200 m)); minimum 153 ft³/s (4.33 m³/s) Aug. 14 (gage height, 1.18 ft (0.360 m)).

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 high-water marks); 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.

REMARKS.--Records good. High flows slightly regulated by upstream reservoirs.

REVISIONS (WATER YEARS).--WSP 891: 1935-38. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	256	315	1,710	4,910	700	444	3,780	1,960	1,380	547	236	245
2	270	295	1,610	3,370	5,750	1,420	7,030	1,800	1,250	430	1,230	270
3	228	814	1,550	2,340	16,800	4,200	4,780	1,610	1,180	386	554	236
4	196	870	2,130	2,080	5,290	6,230	8,000	1,810	991	423	339	301
5	177	557	1,910	2,220	3,550	4,690	11,500	1,650	1,190	404	265	295
6	168	450	14,000	1,620	2,450	4,710	5,950	1,490	1,070	362	218	701
7	224	372	14,500	700	2,140	3,830	4,490	1,260	1,450	317	196	774
8	606	1,250	6,630	580	2,140	4,060	3,780	1,080	1,800	280	184	443
9	360	3,860	5,410	560	1,800	3,580	3,240	1,000	928	250	168	312
10	275	2,020	5,250	540	1,200	2,870	3,180	1,050	758	232	160	260
11	228	1,330	4,460	520	1,100	2,560	2,910	1,980	659	214	168	227
12	200	1,200	3,090	500	740	2,700	2,430	1,780	568	196	176	205
13	192	910	3,660	480	740	2,470	2,140	1,800	782	205	176	188
14	192	5,270	3,760	515	720	2,340	1,850	1,430	1,100	218	160	188
15	180	5,790	2,660	550	748	7,300	1,580	1,300	687	345	410	547
16	171	2,690	2,450	557	676	4,840	1,400	1,270	547	508	687	468
17	168	1,960	1,510	536	460	9,580	1,250	1,120	527	323	362	317
18	159	1,560	1,510	585	450	14,900	1,220	1,680	547	260	680	295
19	159	1,330	1,810	692	599	6,590	1,230	1,490	617	218	2,070	423
20	162	1,510	1,850	825	636	4,560	1,150	1,660	547	200	982	339
21	159	1,430	1,980	684	628	3,760	1,010	6,390	482	214	687	280
22	168	1,100	9,680	981	606	2,970	910	5,470	973	362	547	275
23	188	890	9,700	3,640	580	2,400	878	3,310	729	280	469	1,580
24	236	772	6,550	1,600	560	2,160	919	3,020	645	223	386	955
25	300	700	5,750	890	520	2,040	846	2,630	521	192	334	624
26	280	1,700	5,050	890	480	2,690	782	2,130	449	188	290	501
27	256	4,080	4,520	834	450	2,100	854	1,910	404	488	265	436
28	240	2,360	3,470	981	420	1,700	3,930	2,010	368	482	245	386
29	240	1,970	2,650	1,290	-----	1,490	3,550	2,560	774	603	223	339
30	305	1,500	2,180	660	-----	1,420	2,440	1,860	766	374	205	317
31	372	-----	2,450	580	-----	1,400	-----	1,580	-----	275	188	-----
TOTAL	7,315	50,855	135,440	37,710	52,933	118,004	89,009	63,090	24,689	9,999	13,260	12,727
MEAN	236	1,695	4,369	1,216	1,890	3,807	2,967	2,035	823	323	428	424
MAX	606	5,790	14,500	4,910	16,800	14,900	11,500	6,390	1,800	603	2,070	1,580
MIN	159	295	1,510	480	420	444	782	1,000	368	188	160	188
CFSM	.17	1.23	3.17	.88	1.37	2.76	2.15	1.48	.60	.23	.31	.31
IN.	.20	1.37	3.66	1.02	1.43	3.19	2.40	1.70	.67	.27	.36	.34

CAL YR 1972 TOTAL 938,999 MEAN 2,566 MAX 110,000 MIN 123 CFSM 1.86 IN 25.37
WTR YR 1973 TOTAL 615,031 MEAN 1,685 MAX 16,800 MIN 159 CFSM 1.22 IN 16.62

PEAK DISCHARGE (BASE, 17,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	2400	13.78	30,000	3-18	0200	12.48	24,800
2-3	0500	12.50	24,800	4-4	2300	10.21	17,400

01527000 COHOCTON RIVER AT COHOCTON, N.Y.

LOCATION.--Lat 42°30'00", long 77°30'02", Steuben County, 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.

GAGE.--Water-stage recorder. Datum of gage is 1,275.49 ft (388.769 m) above mean sea level.

AVERAGE DISCHARGE.--23 years, 55.0 ft³/s (1.558 m³/s) (14.31 in/yr (363.5 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 434 ft³/s (12.3 m³/s) Apr. 6 (gage height, 5.12 ft (1.561 m)); minimum, 7.0 ft³/s (0.20 m³/s) Aug. 31, Sept. 1, 2 (gage height, 1.70 ft (0.518 m)).

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.

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

REVISIONS.--WRD N.Y. 1969: Drainage area. WRD N.Y. 1972: 1970, 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	34	84	212	54	37	97	82	66	36	13	7.3
2	35	38	79	215	110	42	133	79	71	34	12	7.3
3	30	59	78	204	176	70	195	82	67	31	12	8.2
4	26	74	75	187	171	144	258	107	60	29	13	8.2
5	23	69	78	168	148	173	372	89	57	28	12	8.2
6	23	65	223	146	120	167	419	82	53	26	11	10
7	39	62	338	120	100	161	368	73	67	25	10	12
8	58	77	394	100	100	153	299	67	89	23	9.7	17
9	54	115	342	92	90	136	239	69	79	23	9.4	16
10	43	150	279	80	90	121	206	73	67	21	9.1	14
11	37	168	232	78	74	117	190	82	60	20	8.5	12
12	34	163	192	76	72	118	170	82	54	20	8.2	11
13	33	153	171	70	66	115	148	82	66	20	7.9	10
14	31	146	159	76	62	122	129	78	72	20	7.6	9.7
15	30	135	146	74	50	149	116	72	60	20	7.9	9.7
16	28	124	120	66	45	165	107	67	53	19	9.4	9.7
17	27	112	110	69	40	208	100	66	54	19	11	9.7
18	26	96	100	77	40	290	96	67	61	18	12	9.7
19	25	86	94	83	44	330	93	64	62	18	12	9.7
20	24	81	94	80	45	288	91	63	55	17	12	10
21	23	76	108	72	45	226	85	85	50	16	12	10
22	24	71	133	70	44	184	78	106	59	16	12	12
23	27	66	174	76	42	154	75	106	75	16	12	15
24	33	62	191	80	42	136	72	102	67	15	11	16
25	36	64	194	74	41	127	67	97	60	15	10	15
26	35	93	197	70	41	124	63	88	53	14	9.7	13
27	37	117	194	68	39	117	67	81	46	14	9.4	11
28	33	120	187	66	37	108	89	77	42	14	9.1	10
29	34	109	165	64	-----	98	102	73	40	13	8.5	9.4
30	42	93	146	62	-----	96	91	68	38	13	7.9	8.8
31	40	-----	158	58	-----	96	-----	67	-----	13	7.3	-----
TOTAL	1,020	2,878	5,235	3,033	2,028	4,572	4,615	2,476	1,803	626	316.6	329.6
MEAN	32.9	95.9	169	97.8	72.4	147	154	79.9	60.1	20.2	10.2	11.0
MAX	58	168	394	215	176	330	419	107	89	36	13	17
MIN	23	34	75	58	37	37	63	63	38	13	7.3	7.3
CFSM	.63	1.84	3.24	1.87	1.39	2.82	2.95	1.53	1.15	.39	.20	.21
IN.	.73	2.05	3.73	2.16	1.45	3.26	3.29	1.76	1.28	.45	.23	.23
CAL YR 1972	TOTAL 38,350.0											
WTR YR 1973	TOTAL 28,932.2											
	MEAN 105											
	MAX 2,120											
	MIN 13											
	CFSM 2.01											
	IN 27.33											
	CFSM 1.52											
	IN 20.62											

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-8	1500	5.11	432	4-6	1600	5.12	434
3-19	0100	4.67	342				

01528000 FIVEMILE CREEK NEAR KANONA, N.Y.

LOCATION.--Lat 42°23'18", long 77°21'29", Steuben County, on left bank just downstream from town of Wheeler highway bridge, 1.3 mi (2.1 km) upstream from mouth and Kanona.

DRAINAGE AREA.--66.8 mi² (173 km²).

PERIOD OF RECORD.--February 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,171.30 ft (357.012 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--36 years, 72.8 ft³/s (20.62 m³/s) (14.80 in/yr (375.9 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 1,360 ft³/s (38.5 m³/s) Dec. 7 (gage height, 3.81 ft (1.161 m)); maximum gage height, 5.05 ft (1.539 m) Mar. 4 (result of ice jam); minimum daily discharge 2.2 ft³/s (0.062 m³/s) Aug. 10, 12-14, 17, 29; minimum gage height, -0.28 ft (-0.085 m) Sept 4 (result of channel improvement).

Period of record: Maximum discharge, 5,110 ft³/s (145 m³/s) June 23, 1972 (gage height, 5.95 ft (1.814 m)); maximum gage height, 6.10 ft (1.859 m) Mar. 31, 1940 (ice jam); minimum discharge, 0.04 ft³/s (0.001 m³/s) Sept. 27, 29, 1941; minimum gage height, -0.28 ft (-0.085 m) Sept. 4, 1973 (result of channel improvement).

REMARKS.--Records good except those for winter periods, which are fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	31	120	660	64	30	102	80	73	13	5.5	3.0
2	11	81	111	365	230	33	397	70	86	14	6.2	2.8
3	9.5	193	116	178	715	56	365	92	56	17	5.2	2.6
4	8.6	111	130	153	341	430	330	111	52	12	6.2	2.6
5	7.8	76	140	142	145	459	760	105	49	13	6.6	4.3
6	8.6	58	766	96	84	327	486	93	43	13	4.3	29
7	200	52	1,170	84	78	241	295	75	77	12	3.3	17
8	81	170	625	82	83	223	185	60	58	7.4	2.8	9.6
9	45	413	268	82	68	168	142	59	39	7.2	2.6	6.9
10	31	320	265	80	58	132	140	58	31	7.2	2.2	5.2
11	23	200	235	78	56	125	142	104	25	6.9	2.4	4.3
12	19	158	165	76	56	160	128	88	23	6.9	2.2	3.6
13	19	114	188	70	52	145	107	93	36	6.9	2.2	3.0
14	21	147	190	66	48	208	89	72	32	6.6	2.2	3.0
15	15	160	142	60	46	344	79	60	24	6.6	2.4	3.3
16	14	128	120	54	48	238	71	56	21	6.6	2.4	5.8
17	14	109	96	52	40	389	65	52	22	6.6	2.2	6.2
18	13	95	100	48	42	517	61	55	29	6.6	2.6	4.6
19	12	84	100	58	42	268	62	48	53	5.5	3.0	3.6
20	11	86	88	62	41	189	58	77	57	5.5	2.8	3.0
21	11	80	87	48	38	162	52	323	28	5.5	3.0	3.8
22	12	77	351	50	38	135	49	313	43	4.9	2.8	6.2
23	20	70	468	130	36	117	48	149	51	4.9	3.6	29
24	36	70	362	89	34	125	45	114	36	4.6	4.0	14
25	25	64	327	54	33	130	41	92	26	4.6	3.0	9.2
26	21	156	323	49	30	157	37	79	21	4.9	2.4	7.2
27	19	277	286	46	29	124	60	75	17	6.2	2.4	5.8
28	18	198	203	49	32	96	230	68	14	6.2	2.6	4.9
29	25	153	140	64	-----	85	162	61	14	6.2	2.2	4.6
30	38	126	120	62	-----	86	105	53	14	5.8	2.4	4.3
31	31	-----	377	64	-----	86	-----	91	-----	5.2	2.6	-----
TOTAL	831.5	4,057	8,179	3,251	2,607	5,985	4,893	2,926	1,130	239.5	100.3	212.4
MEAN	26.8	135	264	105	93.1	193	163	94.4	37.7	7.73	3.24	7.08
MAX	200	413	1,170	660	715	517	760	323	86	17	6.6	29
MIN	7.8	31	87	46	29	30	37	48	14	4.6	2.2	2.6
CFSM	.40	2.02	3.95	1.57	1.39	2.89	2.44	1.41	.56	.12	.05	.11
IN.	.46	2.26	4.55	1.81	1.45	3.33	2.72	1.63	.63	.13	.06	.12

CAL YR 1972 TOTAL 57,880.1 MEAN 158 MAX 4,180 MIN 5.9 CFSM 2.37 IN 32.23
WTR YR 1973 TOTAL 34,411.7 MEAN 94.3 MAX 1,170 MIN 2.2 CFSM 1.41 IN 19.16

PEAK DISCHARGE (BASE, 880 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
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12-7	0900	3.81	1,360	3-4	0630	5.05a	UNKNOWN
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a - Affected by ice.

SUSQUEHANNA RIVER BASIN

173

01528700 DIVERSION FROM WANETA LAKE TO KEUKA LAKE AT KEUKA, N.Y.

LOCATION.--Lat 42°29'06", long 77°06'39", Stueben County, at entrance to conduit on Diversion Canal, 0.8 mi (1.3 km) west 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.

AVERAGE DISCHARGE.--7 years, 25.3 ft³/s (0.716 m³/s).

EXTREMES.--Current year: Maximum discharge, 69 ft³/s (1.95 m³/s)
Dec. 24, 25; no flow for many days.
Period of record: Maximum discharge, 73 ft³/s (2.07 m³/s)
June 23, 1972; no flow for many days each year.

REMARKS.--Records for period 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 corporation.

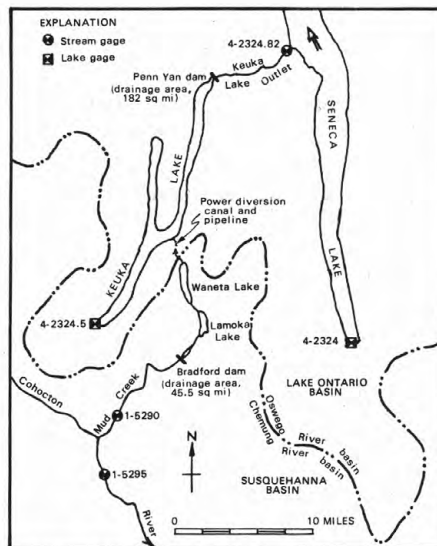


Figure 14.--Gaging stations and transbasin diversion, Cohocton River-Keuka Lake area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	20	21	63	42	42	52	0	35	0		0
2	0	0	34	63	42	37	55	0	35	0		0
3	0	0	34	55	42	34	55	17	35	0		0
4	23	0	34	55	42	34	55	39	37	0		0
5	42	0	34	55	42	42	60	39	37	0		0
6	34	0	34	55	55	55	60	39	39	0		0
7	34	0	34	55	55	60	60	18	42	0		3.0
8	3.0	0	34	55	55	60	60	0	40	15		0
9	16	0	36	55	55	55	55	0	40	0		0
10	34	0	55	55	55	55	55	0	40	0		0
11	14	0	68	55	55	55	55	14	40	0		0
12	0	0	68	55	55	55	55	34	40	0		0
13	0	0	36	48	55	42	55	34	42	0		0
14	0	0	0	0	55	37	55	14	42	0		0
15	0	0	30	24	55	36	55	0	42	0		0
16	18	0	55	42	55	42	46	0	42	0		0
17	33	0	55	42	55	48	46	0	42	0		0
18	33	0	48	19	55	55	42	14	37	0		0
19	32	0	48	0	55	60	42	34	37	0		0
20	18	18	48	0	55	60	24	34	18	0		0
21	0	33	55	0	55	60	0	34	0	0		0
22	0	15	55	0	55	63	0	34	0	0		0
23	0	18	60	19	55	63	20	34	0	0		0
24	17	0	69	42	42	63	34	34	0	0		0
25	33	0	69	42	42	63	34	34	0	0		0
26	33	0	63	42	42	63	34	34	0	0		0
27	19	18	63	44	42	60	34	34	0	0		0
28	0	18	63	44	42	55	34	32	0	0		0
29	0	33	63	44	-----	55	34	17	0	0		0
30	2.0	14	63	44	-----	52	0	35	0	0		0
31	35	-----	63	44	-----	52	-----	35	-----	0		-----
TOTAL	473.0	187	1,492	1,216	1,410	1,613	1,266	687	762	15	0	3.0
MEAN	15.3	6.23	48.1	39.2	50.4	52.0	42.2	22.2	25.4	.48	0	.10
MAX	42	33	69	63	55	63	60	39	42	15	0	3.0
MIN	0	0	0	0	42	34	0	0	0	0	0	0
CAL YR 1972	TOTAL 11,520.00		MEAN 31.5	MAX 73	MIN 0							
WTR YR 1973	TOTAL 9,124.00		MEAN 25.0	MAX 69	MIN 0							

01529000 MUD CREEK NEAR SAVONA, N.Y.

LOCATION.--Lat 42°18'30", long 77°11'50", Steuben County, 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. Monthly records of diversion from Waneta Lake for the period January 1951 to September 1966 available in files of Geological Survey.

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.

AVERAGE DISCHARGE.--36 years (1937-73), 41.4 ft³/s (117.2 m³/s) unadjusted.

EXTREMES.--Current year: Maximum discharge, 690 ft³/s (19.54 m³/s) probably occurred Dec. 7 (gage height, 4.53 ft (1.381 m), from recorded range in stage); minimum, 2.5 ft³/s (0.0708 m³/s) Aug. 30, 31 (gage height, 0.69 ft (0.210 m)).

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, 22, 23, 1941 (gage height, 0.53 ft (0.162 m)).

REMARKS.--Records fair. 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.

COOPERATION.--Records of diversion furnished by New York State Electric and Gas Corp.

REVISIONS.--WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	58	80	139	17	14	53	44	67	11	5.5	3.7
2	7.9	73	76	88	115	28	130	41	72	11	5.9	4.0
3	6.6	74	72	76	359	85	120	43	56	9.9	5.5	7.9
4	6.2	66	70	83	138	192	125	46	52	11	4.9	8.8
5	4.8	58	300	98	69	129	411	44	30	52	4.6	5.5
6	4.8	51	490	60	44	102	416	37	22	22	4.3	11
7	8.4	42	520	45	46	88	384	32	22	14	4.0	12
8	11	69	430	29	49	85	350	29	19	11	4.0	7.0
9	8.4	239	370	26	36	66	319	29	16	9.5	3.7	5.2
10	6.2	235	320	22	30	55	151	30	14	8.7	4.0	4.3
11	4.8	170	280	19	26	52	80	39	12	7.7	3.7	4.0
12	4.6	145	248	17	22	58	66	33	18	7.0	3.7	3.7
13	4.6	129	246	15	18	51	59	32	73	8.7	3.5	3.7
14	4.8	120	246	14	17	65	76	28	41	11	3.2	4.3
15	4.8	110	222	17	16	120	73	26	22	8.8	4.3	7.0
16	4.2	100	108	18	16	86	68	24	19	8.4	4.9	7.0
17	4.2	92	50	20	15	172	41	27	21	7.0	4.0	5.2
18	3.7	86	50	25	15	271	40	35	33	6.2	4.3	6.2
19	3.7	80	45	27	18	181	38	28	32	5.9	4.6	7.0
20	3.7	74	47	24	19	154	35	47	27	5.5	4.0	5.9
21	4.0	70	48	18	20	143	31	142	19	6.2	3.7	5.2
22	4.6	64	182	34	21	129	29	170	27	5.9	3.5	5.2
23	5.7	58	398	62	18	120	31	86	23	5.5	3.5	22
24	8.3	56	348	33	18	106	31	75	18	5.5	3.2	16
25	7.7	60	320	22	15	101	27	86	15	4.6	3.2	8.4
26	6.3	68	306	22	15	120	26	80	13	4.9	3.0	5.9
27	5.5	100	290	21	11	57	44	78	12	6.6	3.2	4.9
28	4.9	110	259	20	12	41	133	79	11	5.9	3.2	4.9
29	6.6	100	170	19	-----	37	80	79	16	5.2	2.8	4.6
30	10	90	66	18	-----	36	52	74	14	4.9	2.5	4.0
31	9.3	-----	87	17	-----	35	-----	73	-----	4.6	3.0	-----
TOTAL	190.3	2,847	6,744	1,148	1,215	2,979	3,519	1,716	836	296.1	121.4	204.5
MEAN	6.14	94.9	218	37.0	43.4	96.1	117	55.4	27.9	9.55	3.92	6.82
MAX	11	239	520	139	359	271	416	170	73	52	5.9	22
MIN	3.7	42	45	14	11	14	26	24	11	4.6	2.5	3.7

CAL YR 1972 TOTAL 43,762.6 MEAN 120 MAX 5,110 MIN 3.7

WTR YR 1973 TOTAL 21,816.3 MEAN 59.8 MAX 520 MIN 2.5

01529500 COHOCTON RIVER NEAR CAMPBELL, N.Y.

LOCATION.--Lat 42°15'10", long 77°13'00", Steuben County, 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.

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.

AVERAGE DISCHARGE.--55 years, 444 ft³/s (12.57 m³/s).

EXTREMES.--Current year: Maximum discharge, 8,080 ft³/s (229 m³/s) Dec. 6 (gage height, 7.14 ft (2.176 m)); minimum, 52 ft³/s (1.47 m³/s) Aug. 31 (gage height, 0.21 ft (0.064 m)).

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 floodmarks), 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.

REMARKS.--Records good. 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.

REVISIONS (WATER YEARS).--WSP 891: 1935. WSP 1302: 1919-20(M), 1927-28(M), 1928-38 (Monthly runoff). WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	205	731	2,860	290	265	613	541	380	172	92	66
2	136	341	682	1,920	1,400	299	1,670	502	540	174	100	62
3	128	661	703	1,260	3,340	868	1,600	571	480	169	94	70
4	114	504	780	1,160	1,630	2,490	1,750	637	430	160	86	74
5	107	425	745	1,070	1,010	1,980	4,090	607	380	294	84	67
6	105	365	4,100	776	734	1,700	2,960	541	353	183	79	183
7	556	328	5,110	577	668	1,380	2,410	480	436	155	76	134
8	385	766	2,740	450	675	1,300	1,880	442	395	142	74	96
9	271	1,750	2,020	420	559	1,060	1,510	460	330	132	70	86
10	215	1,420	1,980	400	508	884	1,270	480	290	122	69	77
11	181	1,100	1,770	380	464	811	1,090	500	257	120	70	74
12	161	972	1,370	360	410	940	948	500	303	113	67	69
13	155	788	1,500	340	385	839	811	500	783	122	66	66
14	150	1,200	1,360	320	350	1,020	727	470	442	132	64	69
15	139	1,270	1,160	328	320	1,790	662	430	303	125	74	74
16	133	964	980	312	300	1,410	607	400	269	120	70	69
17	126	820	675	312	280	2,200	535	400	326	111	66	70
18	121	724	600	371	250	2,840	513	410	410	106	77	76
19	119	654	580	431	250	1,990	508	390	425	100	82	76
20	112	640	580	453	270	1,580	475	370	326	100	79	69
21	110	601	649	330	270	1,330	436	1,200	281	111	76	67
22	121	549	2,050	330	260	1,100	405	1,500	344	111	76	69
23	142	504	2,560	720	250	924	405	1,200	344	102	72	198
24	198	474	2,240	508	250	884	390	900	290	94	67	130
25	174	450	2,110	395	250	846	357	580	253	92	66	102
26	158	836	2,040	375	250	972	339	560	224	96	62	90
27	147	1,320	1,840	357	240	818	425	520	204	120	61	81
28	144	1,100	1,500	350	240	662	1,090	450	189	109	60	74
29	158	916	1,170	330	-----	601	853	440	198	100	58	69
30	215	759	940	320	-----	583	625	420	186	96	70	66
31	194	-----	1,470	300	-----	577	-----	400	-----	88	61	-----
TOTAL	5,333	23,406	48,735	18,815	16,103	36,943	31,954	17,801	10,371	3,971	2,268	2,573
MEAN	172	780	1,572	607	575	1,192	1,065	574	346	128	73.2	85.8
MAX	556	1,750	5,110	2,860	3,340	2,840	4,090	1,500	783	294	100	198
MIN	105	205	580	300	240	265	339	370	186	88	58	62
CAL YR 1972	TOTAL 341,005	MEAN 932	MAX 24,200	MIN 83								
WTR YR 1973	TOTAL 218,273	MEAN 598	MAX 5,110	MIN 58								

PEAK DISCHARGE (BASE, 4,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	2100	7.14	8,080	4-5	0300	5.43	4,710
2-3	0200	5.18	4,350				

SUSQUEHANNA RIVER BASIN

01530500 NEWTOWN CREEK AT ELMIRA, N.Y.

LOCATION.--Lat 42°06'11", long 76°47'54", Chemung County, 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.

GAGE.--Water-stage recorder. Datum of gage is 834.53 ft (254.365 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--35 years, 86.6 ft³/s (2.453 m³/s) (15.17 in/yr (385.3 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 2,580 ft³/s (73.1 m³/s) Mar. 17 (gage height, 13.71 ft (4.179 m)); minimum, 9.2 ft³/s (0.26 m³/s) July 25 (gage height, 4.67 ft (1.423 m), result of regulation).

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.

REMARKS.--Records fair. Diurnal fluctuation at low flow caused by operations of sand and gravel plant and waste-water treatment plant upstream.

REVISIONS (WATER YEARS).--WSP 1502: 1956. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	23	71	106	42	35	317	104	62	35	52	37
2	15	27	64	85	466	91	699	93	58	35	72	31
3	16	56	68	71	974	271	406	111	54	31	90	30
4	15	38	71	80	205	331	798	118	58	23	58	34
5	14	29	88	84	123	180	747	101	54	24	48	38
6	14	25	1,060	54	88	160	379	82	48	21	43	200
7	20	23	558	42	81	139	242	69	48	19	41	87
8	19	667	261	38	80	125	173	61	42	17	40	52
9	17	868	466	36	70	93	131	61	36	17	38	43
10	17	234	376	36	60	84	239	63	32	17	40	40
11	16	127	239	36	50	90	182	69	30	17	42	41
12	18	93	167	36	44	80	132	63	40	16	38	37
13	18	69	194	38	42	115	106	58	120	19	36	35
14	17	897	160	38	43	194	90	54	62	17	35	58
15	16	499	128	39	44	125	80	52	46	22	45	188
16	17	205	110	39	42	1,070	72	62	42	22	54	69
17	17	132	74	39	34	1,010	68	56	42	19	45	54
18	17	96	76	39	32	490	64	72	46	16	49	63
19	18	79	78	40	36	299	59	60	52	15	129	59
20	18	132	80	40	40	218	106	92	42	15	184	50
21	18	93	85	34	43	158	82	294	39	18	60	45
22	20	70	964	98	42	123	67	174	84	12	49	46
23	21	56	502	169	38	115	67	109	64	13	44	220
24	22	50	307	73	36	102	64	106	82	12	40	81
25	20	48	227	55	36	108	57	86	39	12	36	60
26	20	186	213	52	36	334	54	71	36	15	33	52
27	20	172	194	50	30	147	105	70	36	75	36	48
28	20	110	126	51	34	113	273	70	39	70	36	45
29	24	92	96	58	-----	97	140	74	62	529	33	41
30	27	75	85	44	-----	88	122	60	43	93	31	38
31	24	-----	101	40	-----	81	-----	66	-----	61	31	-----
TOTAL	569	5,271	7,289	1,740	2,891	6,666	6,121	2,681	1,538	1,327	1,608	1,922
MEAN	18.4	176	235	56.1	103	215	204	86.5	51.3	42.8	51.9	64.1
MAX	27	897	1,060	169	974	1,070	798	294	120	529	184	220
MIN	14	23	64	34	30	35	54	52	30	12	31	30
CFSM	.24	2.27	3.03	.72	1.33	2.77	2.63	1.12	.66	.55	.67	.83
IN.	.27	2.53	3.50	.84	1.39	3.20	2.94	1.29	.74	.64	.77	.92

CAL YR 1972 TOTAL 50,085 MEAN 137 MAX 2,700 MIN 12 CFSM 1.77 IN 24.04
WTR YR 1973 TOTAL 39,623 MEAN 109 MAX 1,070 MIN 12 CFSM 1.41 IN 19.02

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-8	2015	10.87	1,670	2-3	0230	12.28	2,120
11-14	1700	11.16	1,760	3-17	1545	13.71	2,580
12-6	1700	10.66	1,600	4-4	2000	10.61	1,590
12-22	1415	10.14	1,430	7-29	0230	10.02	1,400

01531000 CHEMUNG RIVER AT CHEMUNG, N.Y.

LOCATION.--Lat 42°00'08", long 76°38'06", Chemung County, on right bank 100 ft (30 m) upstream from bridge on State Highway 427, 0.7 mi (1.1 km) southwest of Chemung, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--2,506 mi² (6,491 km²).

PERIOD OF RECORD.--September 1903 to current year (gage heights only for some winter periods).

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.

AVERAGE DISCHARGE.--67 years (1905-13, 1914-73), 2,492 ft³/s (70.57 m³/s) (13.50 in/yr (342.9 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 41,900 ft³/s (1,190 m³/s) Dec. 7 (gage height, 15.49 ft (4.721 m)); minimum, 304 ft³/s (8.61 m³/s) Aug. 31; minimum gage height, 3.94 ft (1.201 m) Aug. 12, 14.

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 high-water mark), 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 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)).

REMARKS.--Records good except those for winter period, 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.

REVISIONS (WATER YEARS).--WSP 891: 1935-39. WSP 1432: 1904, 1907, 1915. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	331	772	3,480	8,120	1,700	920	3,430	3,590	3,040	1,180	541	331
2	396	749	3,350	7,610	3,720	1,500	11,300	3,230	2,820	906	832	366
3	388	1,340	3,150	5,180	29,400	5,280	11,800	3,050	2,920	796	1,620	373
4	345	2,150	3,680	4,420	12,700	9,880	8,640	3,350	2,460	738	820	345
5	304	1,580	3,740	4,450	6,830	9,420	23,400	3,100	2,330	772	590	396
6	292	1,300	11,200	3,870	4,950	7,940	15,000	2,790	2,600	820	496	868
7	345	1,120	33,000	2,680	4,070	7,100	9,880	2,410	2,320	694	436	1,320
8	1,020	2,840	14,200	1,800	3,920	6,680	7,640	2,170	3,000	610	396	893
9	1,140	9,100	10,800	1,600	3,100	6,440	6,500	1,990	2,410	550	366	600
10	784	5,870	9,480	1,500	2,700	5,120	5,960	2,140	1,840	505	359	469
11	560	3,760	9,060	1,400	2,200	4,560	5,930	2,540	1,630	469	352	388
12	505	3,410	6,470	1,300	1,900	4,530	4,850	3,390	1,460	436	352	373
13	452	2,840	5,900	1,200	1,800	4,490	4,270	3,030	1,570	444	359	345
14	420	6,530	7,220	1,200	1,700	4,070	3,740	2,860	2,860	469	331	317
15	412	15,100	5,380	1,300	1,600	9,030	3,300	2,530	2,080	514	380	630
16	373	6,740	4,820	1,320	1,500	7,670	2,940	2,520	1,580	640	705	856
17	352	4,800	3,790	1,290	1,200	14,200	2,660	2,320	1,400	727	727	716
18	331	3,940	2,900	1,320	1,200	27,600	2,460	2,800	1,440	560	523	560
19	331	3,420	3,480	1,550	1,300	13,600	2,440	2,900	1,930	478	1,810	523
20	317	3,440	3,540	1,740	1,400	8,640	2,440	3,240	1,760	428	1,730	620
21	310	3,570	3,700	1,440	1,400	6,920	2,180	8,120	1,460	436	1,110	532
22	324	2,960	10,400	1,730	1,300	5,540	1,970	10,800	1,700	452	844	460
23	345	2,580	20,400	5,580	1,200	4,620	1,880	6,320	2,000	550	694	1,230
24	388	2,300	13,400	3,790	1,100	4,160	1,860	5,250	1,830	478	610	2,460
25	469	2,140	10,800	2,320	1,100	3,850	1,760	4,620	1,540	412	532	1,280
26	505	2,760	9,480	2,000	1,000	4,620	1,620	4,010	1,340	380	460	932
27	478	6,800	8,920	1,910	900	4,700	1,940	3,590	1,190	600	428	772
28	444	5,320	7,010	1,900	880	3,700	6,670	3,520	1,090	796	396	716
29	452	4,660	5,500	2,280	-----	3,170	6,140	4,000	1,180	1,520	366	610
30	478	3,850	4,530	1,700	-----	2,900	4,390	3,940	1,410	1,000	338	550
31	600	-----	4,380	1,500	-----	2,860	-----	3,260	-----	672	324	-----
TOTAL	14,191	117,741	247,160	81,000	97,770	205,710	168,990	113,380	58,190	20,032	19,827	20,831
MEAN	458	3,925	7,973	2,613	3,492	6,636	5,633	3,657	1,940	646	640	694
MAX	1,140	15,100	33,000	8,120	29,400	27,600	23,400	10,800	3,040	1,520	1,810	2,460
MIN	292	749	2,900	1,200	880	920	1,620	1,990	1,090	380	324	317
CFSM	.18	1.57	3.18	1.04	1.39	2.65	2.25	1.46	.77	.26	.26	.28
IN.	.21	1.75	3.67	1.20	1.45	3.05	2.51	1.68	.86	.30	.29	.31
CAL YR 1972	TOTAL 1,799,777	MEAN 4,917	MAX 159,000	MIN 292	CFSM 1.96	IN 26.72						
WTR YR 1973	TOTAL 1,164,822	MEAN 3,191	MAX 33,000	MIN 292	CFSM 1.27	IN 17.29						

PEAK DISCHARGE (BASE, 30,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	1000	15.49	41,900	3-18	0800	14.16	34,600
2-3	1400	14.47	36,200				

- 01496450 Canadarago Lake at Schuyler Lake, N.Y. (see station for daily mean gage heights).
01499500 East Sidney Lake at East Sidney, N.Y. (see station for daily mean elevations and monthly change in contents).
01511000 Whitney Point Lake at Whitney Point, N.Y. (see station for daily mean elevation and monthly change in contents).
01521000 Arkport Reservoir near Arkport, N.Y. (see station for daily mean elevation and monthly change in contents).
01523000 Almond Lake near Almond, N.Y. (see station for daily mean elevation and monthly change in contents).

Diversion of water affecting the Susquehanna River basin

- 01528700 Diversion from Waneta Lake to Keuka Lake at Keuka, N.Y. (see station for daily discharges, furnished by New York State Electric and Gas Corp., and sketch of the transbasin diversion).

03011020 ALLEGHENY RIVER AT SALAMANCA, N.Y.

LOCATION.--Lat 42°09'23", long 78°42'56", Cattaraugus County, 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."

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.

AVERAGE DISCHARGE.--70 years, 2,760 ft³/s (78.16 m³/s) (23.31 in/yr (592.1 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 21,600 ft³/s (612 m³/s) Dec. 7 (gage height, 11.75 ft (3.581 m)); minimum, 252 ft³/s (7.14 m³/s) Aug. 11-12 (gage height, 3.13 ft (0.954 m)).

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.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1385: 1907, 1909-12, 1913(M), 1914-15, 1916-17(M), 1925, 1927. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,150	1,400	3,020	6,350	2,500	800	3,240	3,190	3,100	1,020	645	535
2	1,430	2,490	2,940	5,950	4,620	1,090	4,270	2,960	3,080	817	655	490
3	1,010	7,700	2,900	4,980	11,200	1,990	4,060	2,990	2,870	718	656	469
4	770	5,950	3,320	6,000	9,840	5,860	4,150	3,360	3,140	737	534	404
5	620	4,120	3,940	6,000	8,580	7,160	7,600	3,290	4,120	756	433	371
6	630	3,220	12,200	4,800	6,680	7,020	7,180	2,980	3,660	654	369	598
7	4,250	2,630	20,100	3,200	4,910	6,370	6,290	2,660	3,300	558	330	1,580
8	3,660	3,140	16,700	2,700	4,250	5,830	5,470	2,430	3,680	497	302	909
9	2,290	4,290	14,200	2,400	3,790	5,240	4,790	2,780	3,120	445	278	614
10	1,590	3,740	10,900	2,100	3,130	4,610	4,390	3,840	2,710	402	266	494
11	1,150	3,400	8,430	1,900	2,580	4,240	4,430	6,640	2,310	369	259	430
12	952	3,280	6,250	1,800	2,160	4,380	4,020	6,460	1,980	345	311	383
13	916	2,870	6,630	1,600	1,900	4,410	3,680	5,810	2,040	329	369	347
14	836	7,300	6,750	1,500	1,600	4,660	3,320	4,950	2,060	369	339	330
15	759	11,600	5,530	1,400	1,400	10,500	3,000	3,480	1,580	377	342	298
16	671	8,850	4,800	1,300	1,300	9,710	2,720	3,800	1,300	515	473	282
17	630	7,080	3,900	1,300	1,200	12,100	2,510	3,400	1,270	600	576	290
18	560	5,430	3,500	1,500	1,100	18,600	2,480	3,340	1,270	411	480	281
19	560	4,430	3,300	1,790	1,500	15,900	2,600	2,940	1,260	329	2,930	282
20	506	4,040	3,200	2,190	1,600	12,900	2,380	2,690	1,080	298	3,660	373
21	470	3,640	3,100	1,640	1,400	9,590	2,160	3,240	1,390	353	2,590	299
22	570	3,180	4,880	1,800	1,200	7,020	2,000	3,640	1,890	445	1,680	260
23	964	2,810	7,950	3,580	1,100	5,280	1,950	3,140	1,660	462	1,320	488
24	1,900	2,560	8,200	3,460	1,000	4,690	1,910	3,160	1,340	345	1,030	1,670
25	1,850	2,350	7,930	2,510	960	4,560	1,760	3,020	1,100	290	846	1,130
26	1,480	2,810	7,480	2,400	900	4,960	1,620	2,870	952	346	718	844
27	1,220	4,430	6,930	2,300	860	4,930	1,680	2,630	851	476	616	701
28	1,060	4,000	5,930	2,200	840	4,190	3,450	2,810	891	1,050	551	601
29	1,160	3,560	4,930	2,100	-----	3,730	4,210	3,460	2,040	966	494	523
30	1,690	3,160	4,210	2,000	-----	3,470	3,570	3,200	1,460	1,110	434	472
31	1,620	-----	4,230	2,200	-----	3,310	-----	3,320	-----	795	394	-----
TOTAL	39,924	129,460	208,280	86,950	84,100	199,100	106,890	108,480	62,504	17,184	24,880	16,748
MEAN	1,288	4,315	6,719	2,805	3,004	6,423	3,563	3,499	2,083	554	803	558
MAX	4,250	11,600	20,100	6,350	11,200	18,600	7,600	6,640	4,120	1,110	3,660	1,670
MIN	470	1,400	2,900	1,300	840	800	1,620	2,430	851	290	259	260
CFSM	.80	2.68	4.18	1.74	1.87	3.99	2.22	2.18	1.30	.34	.50	.35
IN.	.92	2.99	4.82	2.01	1.95	4.61	2.47	2.51	1.45	.40	.58	.39

CAL YR 1972 TOTAL 1,583,899 MEAN 4,328 MAX 67,900 MIN 245 CFSM 2.69 IN 36.64
WTR YR 1973 TOTAL 1,084,500 MEAN 2,971 MAX 20,100 MIN 259 CFSM 1.85 IN 25.09

PEAK DISCHARGE (BASE, 17,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0600	11.75	21,600	3-18	0800	11.29	20,000

ALLEGHENY RIVER BASIN

03013000 CONEWANGO CREEK AT WATERBORO, N.Y.

LOCATION(revised).--Lat 42°10'15", long 79°04'10", Chautauqua County, 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.

AVERAGE DISCHARGE.--35 years, 510 ft³/s (14.44 m³/s) (23.88 in/yr (606.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 2,260 ft³/s (64.0 m³/s) Mar. 19 (gage height, 8.08 ft (2.463 m)); minimum discharge, 45 ft³/s (1.27 m³/s) July 25; minimum gage height, 3.39 ft (1.033 m) July 25, Sept. 5, 13, 14, 30.
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.

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	800	454	476	1,090	440	230	522	755	432	95	84	63
2	700	746	445	1,030	995	302	805	517	414	87	98	68
3	499	1,430	481	835	1,550	594	800	499	409	84	92	65
4	337	1,500	589	985	1,700	1,420	785	730	481	84	79	58
5	252	1,390	725	1,130	1,680	1,700	1,230	870	472	110	70	60
6	224	1,180	1,560	950	1,410	1,850	1,410	775	418	122	63	158
7	930	890	2,080	680	1,100	1,850	1,440	540	400	107	58	142
8	990	865	2,230	500	955	1,630	1,310	423	360	89	53	110
9	875	995	2,220	400	720	1,290	1,040	450	302	81	50	84
10	621	1,060	2,080	360	540	1,000	850	760	264	76	58	70
11	414	950	1,720	340	400	795	740	975	236	70	73	65
12	297	805	1,340	330	340	735	666	940	217	65	79	60
13	268	648	1,440	320	310	652	598	780	240	63	65	55
14	248	1,220	1,430	310	300	795	495	603	260	63	58	60
15	220	1,620	1,260	310	300	1,470	427	477	209	60	79	68
16	201	1,720	950	315	280	1,460	387	423	183	60	76	63
17	190	1,650	666	315	250	1,760	364	418	180	58	68	58
18	180	1,420	634	418	260	2,150	373	423	183	55	119	63
19	176	1,160	598	750	260	2,250	396	382	162	50	139	70
20	172	1,000	580	1,030	260	2,140	382	351	139	50	129	64
21	169	850	585	805	260	1,930	351	346	142	63	217	60
22	205	690	940	745	250	1,550	324	360	148	60	268	58
23	412	566	1,360	1,010	230	1,280	328	333	139	55	172	92
24	695	481	1,530	975	220	1,110	315	333	125	50	119	120
25	675	432	1,570	760	220	1,100	293	324	122	53	98	95
26	584	508	1,470	657	220	1,190	281	306	113	63	87	77
27	468	690	1,300	562	210	1,180	297	302	104	79	79	64
28	373	670	1,080	648	220	1,020	820	328	107	87	68	58
29	396	598	855	660	-----	825	1,090	441	113	132	63	57
30	580	522	675	520	-----	639	1,010	450	104	107	58	53
31	553	-----	775	470	-----	544	-----	481	-----	84	53	-----
TOTAL	13,704	28,710	35,644	20,210	15,880	38,441	20,129	16,095	7,178	2,362	2,872	2,238
MEAN	442	957	1,150	652	567	1,240	671	519	239	76.2	92.6	74.6
MAX	990	1,720	2,230	1,130	1,700	2,250	1,440	975	481	132	268	158
MIN	169	432	445	310	210	230	281	302	104	50	50	53
CFSM	1.52	3.30	3.97	2.25	1.96	4.28	2.31	1.79	.82	.26	.32	.26
IN.	1.76	3.68	4.57	2.59	2.04	4.93	2.58	2.06	.92	.30	.37	.29

CAL YR 1972 TOTAL 264,906 MEAN 724 MAX 3,940 MIN 45 CFSM 2.50 IN 33.98
WTR YR 1973 TOTAL 203,463 MEAN 557 MAX 2,250 MIN 50 CFSM 1.92 IN 26.10

PEAK DISCHARGE (BASE, 2,300 CFS).--No peak above base.

ALLEGHENY RIVER BASIN

181

03013946 CHAUTAUQUA LAKE AT BEMUS POINT, N.Y.

LOCATION.--Lat 42°09'28", long 79°23'50", Chautauqua County, on north shore at end of ferry slip at Bemus Point.

DRAINAGE AREA.--189 mi² (490 km²).

PERIOD OF RECORD.--October 1972 to September 1973 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1,300.00 ft (396.240 m) above mean sea level.

EXTREMES.--Current year: Maximum gage height, 9.06 ft (2.761 m) Mar. 17, 18; minimum, 7.50 ft (2.286 m) Mar. 2.

REMARKS.--Lake regulated for flood control by Warner Dam. Area of water surface, 20.9 mi² (54.1 km²). Record supplements that obtained at stations 03013980 and 03013990, to ascertain stage variations throughout the lake.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.13		7.82	8.33	7.85	7.54	8.22	8.35	8.57	8.21	8.15	8.15
2	8.15		7.79	8.30	7.97	7.51	8.24	8.38	8.57	8.20	8.16	8.14
3	8.15		7.75	8.25	8.27	7.55	8.21	8.43	8.55	8.20	8.15	8.12
4	8.16		7.76	8.32	8.33	7.83	8.19	8.48	8.65	8.24	8.13	8.10
5	8.16		7.78	8.34	8.33	8.07	8.36	8.53	8.70	8.28	8.14	8.09
6	8.18		8.15	8.29	8.31	8.22	8.41	8.52	8.67	8.28	8.13	8.14
7	8.29	8.12	8.45	8.23	8.29	8.27	8.42	8.51	8.63	8.26	8.10	8.09
8	8.29	8.16	8.44	8.16	8.30	8.28	8.38	8.50	8.58	8.25	8.09	8.06
9	8.29	8.32	8.41	8.08	8.28	8.26	8.34	8.55	8.52	8.23	8.08	8.02
10	8.29	8.36	8.39	8.03	8.25	8.24	8.24	8.68	8.49	8.23	8.12	7.97
11	8.30	8.33	8.36	7.96	8.22	8.23	8.19	8.78	8.46	8.20	8.12	7.96
12	8.32	8.27	8.33	7.91	8.16	8.26	8.14	8.75	8.43	8.17	8.10	7.93
13	8.31	8.24	8.40	7.84	8.11	8.26	8.04	8.71	8.43	8.14	8.08	7.92
14	8.26	8.52	8.44	7.78	8.06	8.33	7.99	8.65	8.39	8.13	8.06	7.89
15	8.19	8.69	8.43	7.71	8.05	8.64	7.94	8.63	8.38	8.12	8.11	7.87
16	8.12	8.65	8.45	7.64	8.03	8.64	7.92	8.60	8.37	8.10	8.11	7.85
17	8.08	8.58	8.43	7.59	7.99	8.78	7.92	8.57	8.36	8.08	8.10	7.84
18	8.08	8.50	8.37	7.57	7.94	8.95	7.94	8.58	8.34	8.07	8.14	7.83
19	8.05	8.45	8.33	7.65	7.89	8.92	7.96	8.57	8.34	8.04	8.16	7.82
20	8.01	8.38	8.29	7.68	7.84	8.86	7.96	8.55	8.32	8.03	8.16	7.80
21	7.97	8.30	8.25	7.77	7.80	8.80	7.96	8.55	8.32	8.07	8.23	7.78
22	7.95	8.24	8.28	7.79	7.79	8.72	7.97	8.55	8.31	8.05	8.24	7.77
23	7.98	8.17	8.36	7.89	7.76	8.64	7.98	8.54	8.29	8.04	8.24	7.78
24	8.05	8.08	8.42	7.94	7.73	8.57	7.96	8.56	8.28	8.03	8.23	7.77
25	8.07	8.04	8.44	7.92	7.68	8.56	7.95	8.54	8.28	8.02	8.23	7.76
26	8.06	7.99	8.44	7.89	7.65	8.57	7.94	8.55	8.27	8.02	8.23	7.74
27	8.06	7.98	8.43	7.88	7.61	8.54	7.95	8.52	8.24	8.03	8.22	7.74
28		7.96	8.37	7.90	7.57	8.47	8.13	8.53	8.24	8.06	8.21	7.74
29		7.92	8.32	7.93	-----	8.38	8.29	8.56	8.23	8.13	8.19	7.73
30		7.85	8.25	7.91	-----	8.33	8.34	8.55	8.22	8.12	8.17	7.71
31		-----	8.25	7.89	-----	8.26	-----	8.58	-----	8.11	8.16	-----
MEAN			8.27	7.95	8.00	8.37	8.12	8.56	8.41	8.13	8.15	7.90
MAX			8.45	8.34	8.33	8.95	8.42	8.78	8.70	8.28	8.24	8.15
MIN			7.75	7.57	7.57	7.51	7.92	8.35	8.22	8.02	8.06	7.71

ALLEGHENY RIVER BASIN

03013980 CHAUTAUQUA LAKE AT CELERON, N.Y.

LOCATION.--Lat 42°06'39", long 79°16'34", Chautauqua County, on south shore at Holiday Marina at Celeron.

DRAINAGE AREA.--189 mi² (490 km²).

PERIOD OF RECORD.--October 1972 to August 1973 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1,300.00 ft (396.240 m) above mean sea level.

EXTREMES.--Maximum gage height during period (also maximum for water year), 9.45 ft (2.880 m) Mar. 18; minimum (also minimum for water year), 7.45 ft (2.271 m) Mar. 2.

REMARKS.--Lake regulated for flood control by Warner Dam. Area of water surface, 20.9 mi² (54.1 km²). Record supplements that obtained at stations 03013946 and 03013990, to ascertain stage variations throughout the lake.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.07	7.84	7.73	8.26		7.50	8.14	8.26	8.47	8.17	8.06	
2	8.07	7.95	7.70	8.23		7.46	8.29	8.27	8.45	8.13	8.10	
3	8.09	8.18	7.68	8.14		7.50	8.17	8.39	8.41	8.16	8.10	
4	8.06	8.14	7.66	8.24		7.79	8.15	8.49	8.52	8.18	8.09	
5	8.06	8.12	7.70	8.27		8.01	8.43	8.58	8.55	8.26	8.07	
6	8.13	8.05	8.20			8.13	8.39	8.46	8.50	8.23	8.03	
7	8.32	8.00	8.39			8.19	8.34	8.40	8.47	8.23	8.04	
8	8.38	8.15	8.34			8.22	8.31	8.38	8.42	8.21	8.02	
9	8.39	8.26	8.33			8.21	8.15	8.49	8.40	8.20	8.02	
10	8.22	8.24	8.35			8.16	8.32	8.59	8.34	8.18	8.03	
11	8.18	8.26	8.30			8.10	8.30	8.75	8.35	8.18	8.06	
12	8.25	8.18	8.20		8.10	8.29	8.11	8.73	8.31	8.16	8.04	
13	8.22	8.14	8.42		8.06	8.19	8.07	8.64	8.34	8.12	8.02	
14	8.18	8.40	8.36		8.03	8.22	7.96	8.56	8.32	8.12	7.98	
15	8.21	8.65	8.33		8.01	8.64	7.89	8.55	8.28	8.09	8.05	
16	8.06	8.55	8.49		7.99	8.57	7.87	8.52	8.28	8.05	8.03	
17	8.10	8.50	8.36		7.95	8.80	7.88	8.53	8.27	8.01	8.03	
18	7.97	8.43	8.34		7.89	9.24	7.87	8.54	8.27	8.00	8.08	
19	7.95	8.33	8.24		7.85	9.04	7.88	8.47	8.21	8.02	8.09	
20	7.95	8.32	8.21		7.81	8.82	7.88	8.47	8.22		8.09	
21	7.84	8.24	8.16		7.77	8.71	7.90	8.51	8.26		8.18	
22	7.83	8.16	8.20		7.77	8.65	7.93	8.47	8.24		8.18	
23	7.89	8.12	8.28		7.74	8.57	7.90	8.42	8.25	7.94	8.14	
24	8.00	8.04	8.34		7.70	8.50	7.96	8.41	8.25	7.93	8.13	
25	8.00	7.90	8.35		7.66	8.46	7.86	8.38	8.23	7.93	8.13	
26	7.97	7.95	8.36		7.63	8.48	7.83	8.36	8.18	7.94	8.13	
27	7.94	7.94	8.34		7.59	8.47	7.86	8.31	8.16	7.98	8.14	
28	7.92	7.90	8.30		7.55	8.36	8.18	8.37	8.15	8.03		
29	7.96	7.85	8.23		-----	8.32	8.31	8.46	8.19	8.08		
30	7.97	7.73	8.15		-----	8.25	8.24	8.43	8.17	8.03		
31	7.90	-----	8.15		-----	8.14	-----	8.50	-----	8.02	-----	
MEAN	8.07	8.15	8.20			8.32	8.08	8.47	8.32			
MAX	8.39	8.65	8.49			9.24	8.43	8.75	8.55			
MIN	7.83	7.73	7.66			7.46	7.83	8.26	8.15			

183

LOCATION.--Lat 42°14'20", long 79°29'50", Chautauqua County, on right bank of outlet of Mud Creek, 25 ft (8 m) upstream from bridge on State Highway 17J, 0.1 mi (0.2 km) from lake, and 1 mi (2 km) south of Mayville.

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

GAGE.--Water-stage recorder. Datum of gage is 1,300.00 ft (396.240 m) above mean sea level. Prior to Dec. 21, 1956, nonrecording gage at site near mouth of Big Inlet at same datum.

EXTREMES.--Current year: Maximum gage height, 8.96 ft (2.731 m) Mar. 17; minimum, 7.52 ft (2.292 m) Mar. 2.
Period of record: Maximum daily gage height, 10.65 ft (3.246 m) Mar. 9, 1956; minimum daily, 6.29 ft (1.917 m) Nov. 17, 1953.

REMARKS.--Lake regulated for flood control by Warner Dam. Area of water surface, 20.9 mi² (54.1 km²).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.15	7.98	7.78	8.30	7.87	7.57	8.27	8.35	8.52	8.21	8.14	8.11
2	8.16	8.06	7.78	8.26	8.01	7.53	8.25	8.39	8.53	8.21	8.15	8.09
3	8.17	8.21	7.73	8.25	8.29	7.57	8.22	8.40	8.52	8.21	8.13	8.07
4	8.19	8.20	7.75	8.30	8.33	7.90	8.20	8.44	8.63	8.22	8.13	8.05
5	8.18	8.18	7.77	8.31	8.32	8.10	8.36	8.45	8.67	8.26	8.12	8.06
6	8.19	8.16	8.15	8.26	8.31	8.24	8.42	8.50	8.63	8.27	8.11	8.09
7	8.30	8.14	8.43	8.20	8.29	8.30	8.44	8.49	8.59	8.25	8.09	8.04
8	8.29	8.12	8.45	8.14	8.30	8.30	8.39	8.53	8.53	8.24	8.08	8.01
9	8.24	8.30	8.39	8.07	8.28	8.28	8.38	8.53	8.45	8.23	8.08	7.98
10	8.30	8.38	8.36	8.02	8.25	8.28	8.25	8.67	8.42	8.22	8.10	7.94
11	8.31	8.32	8.34	7.95	8.21	8.29	8.16	8.76	8.39	8.17	8.09	7.91
12	8.26	8.27	8.34	7.89	8.17	8.24	8.14	8.72	8.36	8.14	8.07	7.86
13	8.27	8.23	8.36	7.83	8.13	8.27	8.05	8.67	8.36	8.14	8.05	7.88
14	8.21	8.50	8.42	7.76	8.09	8.37	8.02	8.62	8.34	8.11	8.06	7.86
15	8.11	8.67	8.42	7.69	8.07	8.69	7.99	8.58	8.34	8.11	8.10	7.83
16	8.10	8.64	8.31	7.65	8.04	8.67	7.96	8.57	8.33	8.09	8.10	7.80
17	8.02	8.57	8.32	7.60	8.00	8.79	7.92	8.55	8.35	8.08	8.11	7.83
18	8.04	8.49	8.35	7.58	7.96	8.84	7.95	8.54	8.32	8.06	8.14	7.78
19	8.00	8.44	8.31	7.65	7.92	8.89	7.97	8.53	8.34	8.04	8.14	7.79
20	7.98	8.34	8.26	7.77	7.86	8.88	7.98	8.51	8.33	8.04	8.15	7.75
21	7.97	8.29	8.22	7.77	7.83	8.82	7.98	8.50	8.30	8.06	8.21	7.75
22	7.95	8.23	8.25	7.79	7.82	8.72	7.97	8.50	8.29	8.05	8.21	7.75
23	7.97	8.15	8.35	7.89	7.79	8.65	7.98	8.51	8.27	8.04	8.22	7.74
24	8.02	8.08	8.39	7.92	7.75	8.59	7.94	8.52	8.27	8.03	8.21	7.74
25	8.05	8.03	8.41	7.91	7.71	8.57	7.94	8.53	8.27	8.02	8.21	7.76
26	8.05	8.00	8.42	7.89	7.66	8.58	7.94	8.51	8.28	8.02	8.20	7.74
27	8.04	7.98	8.40	7.88	7.64	8.55	7.94	8.54	8.27	8.02	8.19	7.72
28	8.01	7.95	8.35	7.90	7.60	8.51	8.08	8.53	8.27	8.05	8.16	7.70
29	8.01	7.89	8.29	7.93	-----	8.43	8.27	8.52	8.25	8.10	8.15	7.69
30	8.04	7.87	8.23	7.92	-----	8.36	8.33	8.52	8.23	8.11	8.13	7.70
31	8.01	-----	8.24	7.89	-----	8.31	-----	8.55	-----	8.10	8.11	-----
MEAN	8.12	8.22	8.24	7.94	8.02	8.39	8.12	8.53	8.39	8.13	8.13	7.87
MAX	8.31	8.67	8.45	8.31	8.33	8.89	8.44	8.76	8.67	8.27	8.22	8.11
MIN	7.95	7.87	7.73	7.58	7.60	7.53	7.92	8.35	8.23	8.02	8.05	7.69</

ALLEGHENY RIVER BASIN

03014500 CHADAKOIN RIVER AT FALCONER, N.Y.

LOCATION.--Lat 42°06'45", long 79°12'15", Chautauqua County, on left bank 10 ft (3 m) downstream from South Dow Street Bridge in Falconer, 2.1 mi (3.4 km) upstream from mouth, and 6 mi (10 km) downstream from Chautauqua Lake.

DRAINAGE AREA.--194 mi² (502 km²).

PERIOD OF RECORD.--October 1934 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,256.41 ft (382.954 m) above mean sea level.

AVERAGE DISCHARGE.--38 years (1935-73), 338 ft³/s (9.572 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,280 ft³/s (36.2 m³/s) Mar. 18 (gage height, 3.36 ft (1.024 m)); minimum, 18 ft³/s (0.51 m³/s) Aug. 6 (gage height, 0.42 ft (0.128 m)).

Period of record: Maximum discharge, 2,050 ft³/s (58.1 m³/s) Apr. 5, 1947 (gage height, 4.56 ft (1.390 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.

REMARKS.--Records good. Flow regulated by Chautauqua Lake (see station 03013990). Diurnal fluctuation caused by mills upstream from station. Monthly figures for 1951-66 water years adjusted for regulation.

REVISIONS (WATER YEARS).--WSP 803: 1936(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	408	611	724	488	392	740	108	527	61	45	137
2	42	641	553	721	533	395	770	79	526	60	43	126
3	41	620	552	713	519	402	755	129	518	62	39	124
4	41	560	548	734	505	416	778	199	650	65	38	123
5	41	589	569	717	505	413	838	276	707	60	37	133
6	121	581	693	703	505	415	849	315	699	59	32	182
7	397	381	690	695	504	471	838	293	692	58	37	200
8	346	290	716	687	498	500	830	225	562	56	36	170
9	71	284	744	670	504	516	776	182	487	56	37	168
10	69	509	745	634	502	565	759	225	349	56	36	109
11	69	714	744	630	497	561	765	550	247	56	43	64
12	70	713	746	631	494	595	721	723	234	59	51	63
13	182	484	791	606	490	635	669	715	249	67	44	63
14	494	812	614	578	490	738	565	567	177	55	39	62
15	489	899	730	574	490	880	480	369	105	54	41	60
16	374	937	713	510	490	897	314	343	108	54	40	59
17	103	900	574	462	485	1,000	222	284	103	54	60	63
18	159	859	525	431	481	1,240	175	281	103	54	34	65
19	325	827	614	417	477	1,170	171	277	99	52	31	64
20	324	834	662	415	476	1,070	168	278	109	57	32	56
21	323	804	690	414	461	1,020	168	279	87	57	36	62
22	322	768	722	422	404	997	164	276	78	50	33	85
23	331	737	715	421	399	966	164	276	87	52	34	69
24	324	718	707	439	396	934	164	274	84	52	34	50
25	325	667	703	496	394	916	164	272	81	59	31	52
26	321	657	717	493	393	916	164	273	79	51	30	53
27	319	477	739	492	391	906	178	268	77	49	75	53
28	319	646	734	495	392	868	175	254	79	68	139	48
29	326	637	722	499	-----	836	168	452	79	43	138	60
30	464	619	715	493	-----	818	164	531	76	41	138	60
31	550	-----	718	491	-----	774	-----	528	-----	40	136	-----
TOTAL	7,724	19,572	21,016	17,407	13,163	23,222	13,856	10,101	8,058	1,717	1,619	2,683
MEAN	249	652	678	562	470	749	462	326	269	55.4	52.2	89.4
MAX	550	937	791	734	533	1,240	849	723	707	68	139	200
MIN	41	284	525	414	391	392	164	79	76	40	30	48
CAL YR 1972	TOTAL 178,499	MEAN 488	MAX 1,600	MIN 41								
WTR YR 1973	TOTAL 140,138	MEAN 384	MAX 1,240	MIN 30								

ALLEGHENY RIVER BASIN

185

Lakes and reservoirs in Allegheny River basin

03012520 ALLEGHENY RESERVOIR.--Lat 41°50'17", long 79°00'15", Warren County, Pa., 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. Water-stage recorder. Datum of gage is at mean sea level. Extremes for current year: Maximum contents, 669,770 acre-ft (826 hm³) Dec. 11 (elevation, 1,337.77 ft (407.752 m)); minimum, 356,840 acre-ft (440 hm³) Mar. 12 (elevation 1,307.18 ft (398.428 m)). Extremes for period of record: Maximum contents, 1,121,120 acre-ft (1,380 hm³) June 27, 1972 (elevation 1,362.20 ft (415.199 m)); minimum (after first filling), 113,310 acre-ft (140 hm³) Jan. 26, 1968 (elevation 1,268.68 ft (386.694 m)).

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 (367.28 m) (invert of low level sluices) and 1,365.0 ft (416.05 m) (full pool). Dead storage is 128 acre-ft (158,000 m³). Minimum pool elevation, 1,240 ft (378 m) (capacity, 24,240 acre-ft (29.9 hm³)). Winter low-water pool elevation, 1,292 ft (393.8 m) (capacity, 239,780 acre-ft (296 hm³)). Summer low-water pool elevation, 1,328 ft (404.8 m) (capacity, 572,610 acre-ft (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.

03013946 Chautauqua Lake at Bemis Point, N.Y. (see station for daily mean gage heights).

03013980 Chautauqua Lake at Celeron, N. Y. (see station for daily mean gage heights).

03013990 Chautauqua Lake near Mayville, N.Y. (see station for daily mean gage heights).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre- feet)	Change in Contents (equivalent in cfs)
03012520 ALLEGHENY RESERVOIR			
Sept. 30	1,320.27	4,847.20	-
Oct. 31	1,316.84	4,488.20	-584
Nov. 30	1,324.80	5,349.50	+1,450
Dec. 31	1,315.19	4,321.40	-1,670
CAL YR 1972			-117
Jan. 31	1,315.85	4,387.70	+108
Feb. 28	1,312.98	4,104.20	-510
Mar. 31	1,316.40	4,403.40	+552
Apr. 30	1,328.96	5,843.00	+2,350
May 31	1,328.55	5,793.00	-81.3
June 30	1,329.10	5,860.20	+113
July 31	1,328.42	5,777.20	-135
Aug. 31	1,328.25	5,756.50	-33.7
Sept. 30	1,323.11	5,158.00	-1,010
WTR YR 1973			+42.9

04213500 CATTARAUGUS CREEK AT GOWANDA, N.Y.

LOCATION.--Lat 42°27'50", long 78°56'10", Erie County, 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.

DRAINAGE AREA.--432 mi² (1,119 km²).

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

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.

AVERAGE DISCHARGE.--33 years (1940-73), 714 ft³/s (20.22 m³/s) (22.44 in/yr (570.0 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 15,100 ft³/s (428 m³/s) Dec. 6 (gage height, 9.59 ft (2.923 m)); minimum, 122 ft³/s (3.46 m³/s) many days in September (gage height, 1.75 ft (0.533 m)).

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.

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.

REVISIONS.--WSP 1912: Drainage area. WRD N.Y. 1971: 1956(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,030	558	640	3,050	598	401	806	782	774	268	213	341
2	584	1,810	612	1,360	2,840	510	1,820	682	1,370	246	210	160
3	428	3,270	870	951	3,760	1,680	1,530	1,070	822	232	185	129
4	345	1,420	933	1,920	1,580	4,740	1,950	1,420	689	292	168	126
5	309	1,070	1,010	1,370	1,130	2,570	3,740	1,340	750	1,190	154	175
6	386	814	8,050	840	860	2,420	2,670	933	675	417	136	314
7	3,020	682	3,710	580	780	1,700	2,570	703	870	268	132	198
8	1,160	1,080	1,460	450	640	1,280	1,500	619	570	225	130	144
9	668	1,570	1,220	470	560	933	1,110	675	456	210	130	124
10	480	1,100	1,170	470	500	806	1,030	933	395	185	156	123
11	400	987	987	470	460	774	1,070	1,490	355	180	236	123
12	390	996	830	490	410	951	1,050	1,060	327	170	154	123
13	434	742	2,120	450	400	1,030	1,050	906	492	195	130	123
14	365	2,640	1,450	520	450	1,820	924	734	462	204	129	158
15	350	1,660	960	500	500	3,180	830	668	332	185	150	154
16	314	1,170	740	522	450	1,400	718	619	332	170	178	126
17	318	987	560	522	400	6,320	668	647	510	164	136	124
18	305	888	600	1,030	370	3,600	675	605	412	156	144	138
19	296	838	720	1,450	380	1,940	710	564	395	152	243	142
20	280	897	740	1,380	430	1,580	661	516	345	150	250	134
21	276	798	720	661	420	1,320	584	1,160	406	175	272	134
22	385	703	1,700	870	400	1,120	540	1,130	474	166	284	292
23	1,010	626	1,990	1,420	380	1,030	546	696	385	150	180	492
24	1,210	584	1,870	942	370	1,260	498	682	309	136	156	201
25	750	564	1,600	718	350	1,630	468	584	288	327	136	160
26	591	1,030	1,440	726	340	2,210	439	540	260	264	130	136
27	486	1,230	1,190	774	341	1,500	598	564	250	370	129	127
28	423	879	960	915	350	1,040	2,310	598	504	305	127	127
29	838	758	798	1,050	-----	854	1,950	888	428	546	127	124
30	1,190	654	782	640	-----	806	1,010	862	327	264	127	123
31	726	-----	1,710	600	-----	782	-----	1,140	-----	204	127	-----
TOTAL	19,747	33,005	44,142	28,111	20,449	53,187	36,025	25,810	14,964	8,166	5,159	5,095
MEAN	637	1,100	1,424	907	730	1,716	1,201	833	499	263	166	170
MAX	3,020	3,270	8,050	3,050	3,760	6,320	3,740	1,490	1,370	1,190	284	492
MIN	276	558	560	450	340	401	439	516	250	136	127	123
CFSM	1.47	2.55	3.30	2.10	1.69	3.97	2.78	1.93	1.16	.61	.38	.39
IN.	1.70	2.84	3.80	2.42	1.76	4.58	3.10	2.22	1.29	.70	.44	.44

CAL YR 1972 TOTAL 333,403 MEAN 911 MAX 18,500 MIN 138 CFSM 2.11 IN 28.71
WTR YR 1973 TOTAL 293,860 MEAN 805 MAX 8,050 MIN 123 CFSM 1.86 IN 25.30

PEAK DISCHARGE (BASE, 8,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1600	9.59	15,000	3-17	1700	8.65	12,000

04214500 BUFFALO CREEK AT GARDENVILLE, N.Y.

LOCATION.--Lat 42°51'16", long 78°45'22", Erie County, 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.

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.

AVERAGE DISCHARGE.--35 years, 189 ft³/s (5.352 m³/s) (17.82 in/yr (452.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 9,420 ft³/s (267 m³/s) Dec. 6 (gage height, 8.12 ft (2.475 m)), 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); minimum, 10 ft³/s (0.28 m³/s) Sept. 2, 5, 6 (gage height, 1.11 ft (0.338 m)).

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, 11.90 ft (3.627 m) Mar. 9, 1942 (ice jam); minimum discharge, 0.2 ft³/s (0.006 m³/s) Sept. 1, 1964 (gage height, 0.81 ft (0.247 m)).

REMARKS.--Records good except those for winter periods, which are poor. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1337: 1939-52. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	125	200	1,100	120	110	275	155	216	51	38	13
2	63	385	180	340	1,300	150	1,380	133	603	45	37	12
3	45	573	484	170	1,570	450	958	187	231	42	32	20
4	40	230	400	904	400	2,500	974	286	158	40	27	15
5	33	182	280	445	264	760	2,090	234	133	66	23	11
6	32	145	5,010	100	150	692	1,210	159	123	65	19	32
7	350	120	1,360	70	170	419	882	117	679	45	17	31
8	140	511	380	70	200	294	377	103	175	38	15	26
9	72	896	340	66	110	202	264	127	104	34	15	18
10	53	365	430	70	88	195	242	134	82	29	19	14
11	41	345	380	70	76	264	234	274	71	29	33	18
12	42	395	268	66	76	402	226	290	65	27	38	15
13	58	200	1,670	64	76	315	193	248	68	29	23	11
14	53	415	517	62	74	1,250	160	156	66	36	22	11
15	44	400	290	60	68	910	143	139	55	33	19	15
16	41	330	180	64	58	330	130	146	55	29	17	26
17	39	282	120	80	50	2,420	128	136	121	26	19	19
18	37	250	110	190	48	1,070	120	157	88	23	18	31
19	39	242	100	440	64	465	120	143	93	21	28	22
20	40	295	110	230	96	394	115	119	68	17	56	23
21	38	255	150	96	110	328	100	803	61	20	78	17
22	53	200	880	100	110	273	95	440	56	21	49	24
23	210	166	976	320	100	269	95	190	51	20	38	40
24	410	166	796	210	96	428	89	172	52	16	30	40
25	196	163	585	120	110	535	83	144	47	24	25	27
26	130	775	506	140	100	445	79	136	45	59	21	21
27	91	721	405	210	90	298	91	164	42	66	19	18
28	75	517	277	264	92	198	718	197	359	55	17	16
29	222	325	207	280	-----	165	606	408	117	79	16	14
30	467	218	226	110	-----	152	221	257	65	51	13	12
31	193	-----	838	96	-----	172	-----	339	-----	37	15	-----
TOTAL	3,498	10,192	18,655	6,607	5,866	16,855	12,398	6,693	4,149	1,173	836	612
MEAN	113	340	602	213	210	544	413	216	138	37.8	27.0	20.4
MAX	467	896	5,010	1,100	1,570	2,500	2,090	803	679	79	78	40
MIN	32	120	100	60	48	110	79	103	42	16	13	11
CFSM	.78	2.36	4.18	1.48	1.46	3.78	2.87	1.50	.96	.26	.19	.14
IN.	.90	2.63	4.82	1.71	1.52	4.35	3.20	1.73	1.07	.30	.22	.16

CAL YR 1972 TOTAL 103,639 MEAN 283 MAX 6,790 MIN 12 CFSM 1.97 IN 26.77
WTR YR 1973 TOTAL 87,534 MEAN 240 MAX 5,010 MIN 11 CFSM 1.67 IN 22.61

PEAK DISCHARGE (BASE, 4,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1830	8.12	9,420	3-17	1600	6.31	5,330

04275500 CAZENOVIA CREEK AT EBENEZER, N.Y.

LOCATION.--Lat 42°49'47", long 78°46'33", Erie County, 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.

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 ft (1 m) higher. Apr. 4 to Oct. 12, 1955, nonrecording gage at temporary site 1.3 mi (2.1 km) downstream at different datum.

AVERAGE DISCHARGE.--33 years, 220 ft³/s (6.230 m³/s) (22.30 in/yr (566.4 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 9,270 ft³/s (263 m³/s) Dec. 6 (gage height, 11.55 ft (3.520 m)); minimum, 12 ft³/s (0.34 m³/s) many days in September (gage height, 1.93 ft (0.588 m)).

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.

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

REVISIONS.--WSP 1912: Drainage area. The figure of peak discharge for water year 1972 has been revised as shown. This supersedes figure published in WRD N.Y. 1972. 1972: Mar. 2 (1445) 9,800 ft³/s (278 m³/s) (11.90 ft (3.627 m)).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	295	134	191	1,360	1,090	200	265	189	214	42	41	13
2	108	574	199	376	1,880	300	931	155	670	35	36	14
3	63	609	484	250	1,700	1,800	1,050	325	219	31	28	15
4	47	235	365	1,100	442	2,420	1,280	385	162	29	23	14
5	38	199	321	478	280	924	1,900	355	134	115	19	13
6	42	144	4,670	280	199	1,020	1,480	205	162	74	17	29
7	770	119	1,130	210	207	550	1,050	144	448	44	16	25
8	260	644	406	210	225	385	466	121	155	34	16	18
9	122	952	370	190	175	255	310	144	97	29	15	15
10	74	370	442	150	130	241	295	151	72	27	19	14
11	53	359	326	130	100	345	270	390	61	24	44	13
12	60	382	240	130	86	502	250	412	59	23	23	13
13	125	203	1,980	110	78	430	241	320	59	31	19	13
14	76	472	560	110	84	1,300	219	189	61	35	17	13
15	58	418	315	96	90	945	181	155	44	26	17	19
16	55	315	200	100	84	385	155	155	63	23	16	18
17	55	275	130	150	76	2,370	144	155	137	20	16	15
18	55	250	170	250	72	1,210	134	214	90	17	15	31
19	55	250	250	500	78	574	137	205	95	16	18	21
20	52	295	315	630	74	436	134	141	63	16	25	17
21	55	245	290	199	72	350	115	973	52	17	36	16
22	137	195	980	207	68	290	106	436	46	17	30	22
23	497	175	938	511	70	285	103	201	39	16	23	79
24	602	165	798	255	66	390	95	214	44	15	17	38
25	255	161	602	199	70	520	84	155	36	46	16	24
26	158	602	518	191	80	586	74	137	32	130	15	20
27	113	623	382	207	110	370	100	148	31	100	15	17
28	93	454	270	290	150	232	1,010	205	205	112	15	16
29	343	285	190	343	-----	189	861	430	103	193	14	15
30	560	199	230	175	-----	173	275	265	56	70	14	14
31	203	-----	1,150	721	-----	177	-----	395	-----	36	17	-----
TOTAL	5,479	10,303	19,412	10,108	7,836	20,154	13,715	8,069	3,709	1,443	652	604
MEAN	177	343	626	326	280	650	457	260	124	46.5	21.0	20.1
MAX	770	952	4,670	1,360	1,880	2,420	1,900	973	670	193	44	79
MIN	38	119	130	96	66	173	74	121	31	15	14	13
CFSM	1.32	2.56	4.67	2.43	2.09	4.85	3.41	1.94	.93	.35	.16	.15
IN.	1.52	2.86	5.39	2.81	2.18	5.59	3.81	2.24	1.03	.40	.18	.17

CAL YR 1972 TOTAL 113,885 MEAN 311 MAX 6,650 MIN 14 CFSM 2.32 IN 31.62
WTR YR 1973 TOTAL 101,484 MEAN 278 MAX 4,670 MIN 13 CFSM 2.07 IN 28.17

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1530	11.55	9,270	3-3	2145	10.36	7,600
1-19	2100	7.67a	UNKNOWN	3-17	1800	7.86	4,400

a - Affected by ice.

04215900 LAKE ERIE AT BUFFALO, N.Y.

LOCATION.--Lat 42°52'39", long 78°53'26", Erie County, near outer end of Buffalo River South Pier, at Buffalo.

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 water level at Father Point, Quebec, International Great Lakes Datum (1955). Prior to Feb. 5, 1899, nonrecording gages.

EXTREMES.--Current year: Maximum elevation, 576.76 ft (175.796 m) Dec. 16; minimum, 567.70 ft (173.035 m) Nov. 14.
Period of record: Maximum elevation observed, 579.09 ft (176.507 m) Nov. 3, 1955; minimum observed, 564.17 ft (171.959 m) Mar. 10, 1964.

COOPERATION.--Records furnished by U.S. Department of Commerce, NOAA-NOS, Lake Survey Center, Detroit, Mich.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	572.30	571.60	573.08	574.15	572.25	572.27	573.01	573.17	573.45	573.42	573.12	572.84
2	572.35	571.89	572.41	572.76	572.67	572.16	573.52	572.22	573.15	573.42	573.32	572.78
3	572.05	572.25	572.21	572.18	572.94	572.12	573.46	573.88	573.18	573.62	573.21	572.74
4	571.98	571.95	571.07	574.38	572.92	572.26	573.20	573.63	573.39	573.60	573.20	572.77
5	572.02	571.88	572.21	573.36	571.65	571.75	573.61	573.46	573.35	573.54	573.13	572.81
6	572.00	571.74	572.89	572.59	572.11	572.22	573.60	573.18	573.43	573.52	573.11	573.07
7	572.11	571.81	572.21	572.33	572.55	572.37	572.97	572.98	573.49	573.55	573.06	572.98
8	572.86	572.24	572.21	572.25	572.51	572.41	572.72	572.99	573.49	573.52	573.07	572.71
9	572.32	571.92	572.37	573.21	572.63	572.00	572.40	573.32	573.68	573.56	573.21	572.55
10	571.86	571.85	572.93	573.77	572.37	572.21	574.00	573.26	573.47	573.44	573.14	572.77
11	572.19	572.22	572.37	573.47	571.85	572.40	573.67	573.40	573.55	573.31	573.25	572.80
12	572.24	572.00	572.18	573.25	571.92	573.03	573.35	573.50	573.51	573.70	573.23	572.54
13	572.05	571.59	573.58	572.69	572.17	572.55	573.37	573.36	573.61	573.76	572.91	572.12
14	572.45	569.90	572.22	572.65	572.15	572.50	573.18	573.16	573.53	573.02	572.82	572.30
15	572.34	572.03	572.16	572.37	572.28	572.96	573.13	573.30	573.44	573.47	572.84	572.47
16	573.41	571.97	574.64	572.78	572.33	572.60	573.35	573.35	573.37	573.19	572.80	572.33
17	572.15	572.17	573.02	572.43	572.41	572.63	573.21	573.19	572.90	573.09	572.83	572.10
18	571.78	572.19	573.50	572.28	572.44	574.30	573.10	573.23	573.49	573.15	572.96	572.64
19	571.59	571.83	572.96	572.87	572.46	573.42	573.01	573.02	573.38	573.18	572.92	572.58
20	571.82	572.10	572.09	572.55	572.38	573.01	573.05	572.98	573.38	573.16	572.96	572.52
21	571.85	572.11	572.20	571.99	572.59	572.74	573.14	573.22	573.53	573.01	572.92	571.97
22	571.80	572.07	572.28	572.31	572.50	572.92	573.37	573.12	573.56	572.84	572.64	572.68
23	572.18	572.90	572.33	573.57	572.30	573.06	573.21	572.98	573.57	572.79	572.83	572.31
24	571.89	573.21	572.33	572.82	572.35	572.98	573.24	572.97	573.64	573.00	572.75	572.07
25	572.00	572.13	572.46	572.76	571.87	572.85	572.97	572.99	573.33	573.10	572.81	572.13
26	571.99	573.52	572.74	572.32	571.78	572.84	572.94	573.08	573.44	573.23	572.85	572.27
27	571.64	573.97	573.26	572.03	571.61	572.73	572.84	572.88	573.44	573.69	572.99	572.12
28	571.74	572.80	572.63	572.23	572.20	572.92	573.56	573.19	573.54	573.59	573.12	572.13
29	571.72	572.41	571.89	572.37	-----	573.04	573.45	573.34	573.61	573.33	572.97	572.16
30	571.61	572.12	572.36	573.26	-----	573.13	573.03	573.17	573.47	573.08	572.83	571.91
31	571.34	-----	572.51	571.46	-----	572.91	-----	573.46	-----	573.08	572.87	-----
MEAN	572.05	572.15	572.56	572.76	572.29	572.69	573.22	573.23	573.45	573.32	572.99	572.47
MAX	573.41	573.97	574.64	574.38	572.94	574.30	574.00	573.88	573.68	573.76	573.32	573.07
MIN	571.34	569.90	571.07	571.46	571.61	571.75	572.40	572.88	572.90	572.79	572.64	571.91
CAL YR 1972	MEAN 571.92		MAX 574.66		MIN 569.90							
WTR YR 1973	MEAN 572.77		MAX 574.64		MIN 569.90							

ST. LAWRENCE RIVER MAIN STEM

04216000 NIAGARA RIVER AT BUFFALO, N.Y.

LOCATION.--Lat 42°52'40", long 78°53'25", Erie County, at head of Niagara River at Buffalo.

DRAINAGE AREA.--264,000 mi² (683,760 km²).

PERIOD OF RECORD.--January 1860 to September 1960 (monthly discharge only published in WSP 1912), October 1960 to current year. January 1926 to September 1960, daily discharges available in files of U. S. Department of Commerce.

GAGE.--Discharge determined from several powerplants at Niagara Falls and discharge over the falls. Discharge before 1926 determined from records of Corps of Engineers' gages at Buffalo and Cleveland.

AVERAGE DISCHARGE.--113 years (1860-1973), 202,000 ft³/s (5,721 m³/s).EXTREMES.--Period of record: Maximum daily discharge, 299,000 ft³/s (8,470 m³/s) Nov. 17, 1955; minimum daily 90,000 ft³/s (2,550 m³/s) Jan. 13, 1964. Maximum monthly mean discharge, 264,700 ft³/s (7,500 m³/s) June 1973; minimum monthly mean, 116,000 ft³/s (3,290 m³/s) February 1936.

REMARKS.--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, operation of which began in 1900, and from Lake Erie by Welland and New York State Canals before 1918. 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. Figures of monthly mean discharge for the years 1860 to 1965 published in WSP 1912 are the official records of the U.S. Lake Survey Corps of Engineers, and have been coordinated with and concurred in by the counterpart Canadian agencies.

COOPERATION.--Provisional records of daily discharge furnished by Detroit District Corps of Engineers and Canada Department of the Environment.

REVISIONS.--WSP 1912: 1862(M), 1955 (M), 1936(M). WRD N.Y. 1971: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	234,000	218,000	256,000	282,000	212,000	235,000	260,000	260,000	265,000	264,000	251,000	247,000
2	236,000	227,000	240,000	257,000	244,000	235,000	268,000	264,000	262,000	261,000	256,000	247,000
3	228,000	240,000	239,000	240,000	261,000	234,000	271,000	275,000	258,000	265,000	255,000	247,000
4	226,000	229,000	212,000	283,000	260,000	241,000	263,000	276,000	264,000	267,000	255,000	246,000
5	227,000	230,000	231,000	266,000	232,000	230,000	277,000	271,000	262,000	266,000	254,000	246,000
6	228,000	225,000	253,000	249,000	231,000	242,000	279,000	265,000	263,000	267,000	250,000	255,000
7	229,000	226,000	244,000	240,000	243,000	244,000	265,000	256,000	266,000	267,000	250,000	252,000
8	245,000	235,000	239,000	236,000	242,000	245,000	254,000	258,000	264,000	266,000	249,000	247,000
9	238,000	230,000	243,000	253,000	245,000	236,000	243,000	266,000	270,000	263,000	253,000	242,000
10	225,000	222,000	254,000	269,000	242,000	236,000	276,000	265,000	263,000	262,000	253,000	244,000
11	230,000	237,000	244,000	260,000	221,000	244,000	277,000	267,000	264,000	257,000	255,000	255,000
12	234,000	232,000	235,000	224,000	221,000	258,000	265,000	270,000	265,000	260,000	255,000	242,000
13	228,000	225,000	271,000	214,000	231,000	248,000	265,000	260,000	265,000	272,000	247,000	236,000
14	241,000	185,000	242,000	232,000	233,000	246,000	265,000	262,000	263,000	269,000	245,000	232,000
15	232,000	227,000	235,000	235,000	236,000	258,000	262,000	263,000	262,000	263,000	244,000	239,000
16	256,000	233,000	294,000	248,000	231,000	255,000	263,000	266,000	262,000	256,000	243,000	238,000
17	244,000	235,000	257,000	233,000	228,000	249,000	263,000	261,000	245,000	252,000	243,000	231,000
18	222,000	237,000	272,000	234,000	244,000	296,000	260,000	262,000	262,000	255,000	249,000	243,000
19	219,000	231,000	254,000	248,000	240,000	273,000	257,000	258,000	257,000	254,000	249,000	242,000
20	225,000	232,000	238,000	243,000	241,000	261,000	256,000	256,000	261,000	255,000	249,000	243,000
21	224,000	235,000	236,000	230,000	241,000	254,000	261,000	262,000	263,000	249,000	248,000	229,000
22	227,000	233,000	242,000	236,000	246,000	254,000	265,000	259,000	282,000	248,000	239,000	245,000
23	228,000	248,000	242,000	264,000	238,000	257,000	263,000	257,000	265,000	243,000	246,000	240,000
24	233,000	263,000	243,000	254,000	238,000	258,000	261,000	255,000	280,000	248,000	244,000	228,000
25	227,000	239,000	246,000	248,000	231,000	256,000	255,000	255,000	260,000	253,000	246,000	228,000
26	232,000	262,000	250,000	239,000	223,000	252,000	254,000	256,000	270,000	254,000	247,000	235,000
27	224,000	287,000	258,000	233,000	211,000	250,000	250,000	253,000	270,000	264,000	251,000	237,000
28	225,000	255,000	255,000	236,000	234,000	252,000	270,000	260,000	264,000	265,000	252,000	232,000
29	225,000	246,000	232,000	235,000	-----	256,000	272,000	263,000	266,000	258,000	251,000	235,000
30	222,000	236,000	239,000	254,000	-----	257,000	260,000	259,000	278,000	253,000	248,000	223,000
31	217,000	-----	245,000	207,000	-----	254,000	-----	265,000	-----	250,000	250,000	-----
TOTAL	7,131.0M	7,060.0M	7,641.0M	7,582.0M	6,600.0M	7,766.0M	7,900.0M	8,132.0M	7,941.0M	8,026.0M	7,727.0M	7,206.0M
MEAN	230,000	235,300	246,500	244,500	235,700	250,500	263,300	262,300	264,700	258,900	249,300	240,200
MAX	256,000	287,000	294,000	283,000	261,000	296,000	279,000	276,000	282,000	272,000	256,000	255,000
MIN	217,000	185,000	212,000	207,000	211,000	230,000	243,000	253,000	245,000	243,000	239,000	223,000
CAL YR 1972	TOTAL 83,511,000		MEAN 228,200		MAX 294,000		MIN 177,000					
WTR YR 1973	TOTAL 90,712,000		MEAN 248,500		MAX 296,000		MIN 185,000					

04216200 SCAJAQUADA CREEK AT BUFFALO, N.Y.

LOCATION.--Lat 42°54'41", long 78°47'48", Erie County, 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.

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).

AVERAGE DISCHARGE.--16 years, 32.7 ft³/s (0.926 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,070 ft³/s (30.3 m³/s) Dec. 6 (gage height, 7.46 ft (2.274 m)); minimum, 6.2 ft³/s (0.18 m³/s) July 16, 17, 18; minimum gage height, 1.58 ft (0.482 m) Sept. 17.
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).

REMARKS.--Records fair. 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.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	72	36	78	17	30	104	29	26	11	13	15
2	17	41	34	31	89	61	64	23	26	13	13	13
3	15	23	106	24	374	100	70	28	18	13	14	14
4	14	22	51	177	113	130	216	24	23	21	15	15
5	14	18	37	47	44	64	200	21	17	25	15	15
6	21	17	503	24	31	68	106	16	19	12	11	43
7	26	84	90	17	25	50	64	18	17	11	14	15
8	15	82	34	16	27	46	29	33	16	10	14	14
9	15	36	39	15	26	28	24	71	15	12	14	12
10	14	36	55	14	23	63	23	31	13	12	15	13
11	14	32	38	14	19	630	20	37	15	11	18	14
12	20	24	42	14	15	84	18	42	17	11	13	13
13	14	66	236	14	15	37	16	25	59	12	15	13
14	13	62	52	13	14	237	15	21	15	12	14	13
15	12	56	31	14	16	86	13	18	14	11	14	13
16	17	68	25	14	12	34	15	18	23	9.7	13	11
17	14	56	22	15	12	350	16	22	14	11	14	13
18	14	49	22	18	15	116	14	17	22	11	17	51
19	17	52	50	27	20	69	15	15	15	30	63	15
20	14	71	125	24	22	69	14	25	14	113	56	17
21	18	47	69	16	20	54	14	92	13	28	150	14
22	47	33	171	50	17	43	22	34	13	77	25	20
23	95	25	95	68	15	54	18	21	12	18	16	17
24	46	23	66	41	14	73	16	18	31	16	15	16
25	23	32	47	25	63	56	14	17	16	28	14	13
26	17	171	53	22	69	40	14	30	14	30	12	13
27	16	425	40	20	55	30	52	18	15	16	14	13
28	17	193	29	20	13	24	120	41	17	15	15	13
29	72	70	22	29	-----	21	52	33	14	13	15	12
30	30	42	27	23	-----	21	25	22	13	11	14	11
31	18	-----	90	19	-----	20	-----	47	-----	14	45	-----
TOTAL	735	2,028	2,337	943	1,195	2,788	1,403	907	556	637.7	710	484
MEAN	23.7	67.6	75.4	30.4	42.7	89.9	46.8	29.3	18.5	20.6	22.9	16.1
MAX	95	425	503	177	374	630	216	92	59	113	150	51
MIN	12	17	22	13	12	20	13	15	12	9.7	11	11
CAL YR 1972	TOTAL 16,479.0	MEAN 45.0	MAX 604	MIN 12								
WTR YR 1973	TOTAL 14,723.7	MEAN 40.3	MAX 630	MIN 9.7								

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1200	7.46	1,070	3-14	1400	5.40	660

04217000 TONAWANDA CREEK AT BATAVIA, N.Y.

LOCATION.--Lat 42°59'51", long 78°11'20", Genesee County, 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.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 876.33 ft (267.105 m) above mean sea level.

AVERAGE DISCHARGE.--29 years, 197 ft³/s (5.579 m³/s).

EXTREMES.--Current year: Maximum discharge, 3,480 ft³/s (98.6 m³/s) Dec. 7 (gage height, 8.76 ft (2.670 m)); minimum, 4.0 ft³/s (0.11 m³/s) Aug. 31 (gage height, 1.20 ft (0.366 m)).

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, 6, 7, 1955; minimum gage height, 0.59 ft (0.180 m) July 26, 27, 1948.

Maximum stage known, 14.5 ft (4.42 m) in March 1942, from records of city of Batavia.

REMARKS.--Records 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.

REVISIONS (WATER YEARS).--WSP 1627: 1956-57. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	123	281	1,120	163	103	290	225	291	32	13	5.1
2	61	131	252	789	404	127	665	190	285	28	14	8.5
3	41	457	357	336	1,480	249	975	201	246	24	13	13
4	34	270	453	498	924	1,460	1,000	340	178	24	12	9.1
5	29	179	307	657	409	1,830	1,860	286	147	26	11	6.0
6	30	149	742	240	254	869	1,390	229	136	41	8.6	7.4
7	179	122	3,130	150	269	699	1,500	172	343	28	7.2	22
8	178	230	1,280	130	270	492	775	148	217	22	7.2	13
9	95	627	570	110	190	353	440	161	133	18	6.4	9.3
10	61	511	514	120	160	302	365	168	104	15	6.8	6.4
11	45	305	440	110	130	319	340	225	86	15	16	5.4
12	41	399	321	100	120	407	310	245	71	14	14	5.1
13	53	257	734	98	110	372	272	272	76	14	15	4.5
14	57	302	1,270	100	100	401	233	205	69	19	9.5	5.1
15	45	391	518	110	98	1,170	209	175	56	21	7.5	13
16	41	369	310	110	96	615	190	179	55	19	7.2	17
17	37	329	213	120	92	705	175	155	71	15	9.4	11
18	38	298	238	220	90	2,080	168	161	74	13	7.0	12
19	37	265	275	386	90	795	168	142	77	11	9.6	14
20	38	283	304	422	98	530	161	129	64	11	50	12
21	38	286	318	181	98	440	152	490	65	12	33	10
22	41	252	469	216	94	380	138	720	68	14	18	14
23	83	224	888	307	92	335	135	335	57	12	15	20
24	196	218	932	264	90	425	129	254	47	9.6	12	27
25	158	215	773	182	88	605	118	217	42	9.6	10	18
26	116	380	640	205	88	585	110	213	37	15	9.7	13
27	91	789	532	225	88	495	113	272	35	20	7.8	10
28	76	609	387	234	90	330	440	238	40	18	6.8	9.5
29	78	427	285	287	-----	272	585	364	41	26	6.4	8.9
30	295	314	281	181	-----	259	320	283	37	22	5.4	9.9
31	187	-----	612	178	-----	320	-----	347	-----	15	4.5	-----
TOTAL	2,611	9,711	18,626	8,386	6,275	18,324	13,726	7,741	3,248	583.2	373.0	339.2
MEAN	84.2	324	601	271	224	591	458	250	108	18.8	12.0	11.3
MAX	295	789	3,130	1,120	1,480	2,080	1,860	720	343	41	50	27
MIN	29	122	213	98	88	103	110	129	35	9.6	4.5	4.5

CAL YR 1972 TOTAL 105,290.0 MEAN 288 MAX 3,760 MIN 12
WTR YR 1973 TOTAL 89,943.4 MEAN 246 MAX 3,130 MIN 4.5

PEAK DISCHARGE (BASE, 1,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	1500	8.76	3,480	3-18	0700	6.94	2,570
3-4	2200	6.85	2,520	4-5	1600	6.81	2,500

04217500 TONAWANDA CREEK NEAR ALABAMA, N.Y.

LOCATION.--Lat 43°05'28", long 78°27'15", Genesee County, 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.

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.

AVERAGE DISCHARGE.--18 years, 264 ft³/s (7.476 m³/s) (15.52 in/yr (394.2 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 4,020 ft³/s (114 m³/s) Dec. 8 (gage height, 12.66 ft (3.859 m)); minimum, 14 ft³/s (0.40 m³/s) Sept. 3 (gage height, 5.01 ft (1.527 m)).

Period of record: Maximum discharge, 9,000 ft³/s (255 m³/s) Jan. 23, 1959 (gage height, 15.95 ft (4.862 m), from graph based on gage readings, ice jam); minimum daily, 7.7 ft³/s (0.22 m³/s) Sept. 14, 15, 1964.

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

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	160	390	1,230	386	130	422	319	447	67	31	16
2	107	139	343	1,200	488	170	745	260	344	54	28	15
3	65	309	363	552	1,370	350	1,290	237	367	49	26	482
4	48	421	592	560	1,480	1,800	1,430	354	252	45	25	16
5	40	227	418	891	655	2,850	1,930	335	203	482	24	17
6	37	183	823	543	420	1,440	2,220	302	165	47	23	19
7	60	148	2,560	400	338	1,080	1,730	223	406	55	22	482
8	234	173	2,880	300	346	750	1,320	186	482	43	20	24
9	131	553	931	250	301	520	672	182	231	37	19	482
10	88	711	686	200	250	409	496	200	152	33	19	21
11	62	427	620	170	210	433	447	205	122	31	18	18
12	52	409	481	160	180	528	394	308	102	29	19	18
13	51	364	801	140	160	532	357	296	92	482	24	16
14	60	298	1,590	140	150	556	304	266	94	29	25	15
15	59	441	923	150	140	1,310	267	208	81	31	23	15
16	49	445	503	160	140	1,140	242	200	77	36	22	482
17	46	416	310	170	130	972	223	185	88	31	20	20
18	43	375	310	180	140	2,330	210	173	104	28	482	26
19	43	330	340	170	140	1,510	204	161	100	26	19	26
20	43	322	400	170	140	857	197	147	95	24	482	23
21	43	345	434	160	140	681	182	353	102	24	44	21
22	48	314	531	190	130	564	168	972	98	23	482	22
23	67	278	976	270	130	485	161	544	91	22	30	22
24	146	255	1,230	387	130	576	155	316	79	23	27	23
25	204	251	1,080	280	120	851	141	267	68	24	24	31
26	144	317	898	247	120	873	130	255	60	25	22	26
27	113	835	756	261	120	750	131	326	56	43	21	22
28	94	938	566	282	120	499	352	305	162	42	20	20
29	93	646	423	334	-----	385	810	443	114	35	19	18
30	191	478	368	296	-----	350	513	412	83	482	18	17
31	266	-----	661	298	-----	400	-----	367	-----	482	17	-----
TOTAL	2,809	11,508	24,187	10,741	8,574	26,081	17,843	9,307	4,917	2,884	2,095	2,455
MEAN	90.6	384	780	346	306	841	595	300	164	93.0	67.6	81.8
MAX	266	938	2,880	1,230	1,480	2,850	2,220	972	482	482	482	482
MIN	37	139	310	140	120	130	130	147	56	22	17	15
CFSM	.39	1.66	3.38	1.50	1.32	3.64	2.58	1.30	.71	.40	.29	.35
IN.	.45	1.85	3.90	1.73	1.38	4.20	2.87	1.50	.79	.46	.34	.40

CAL YR 1972 TOTAL 154,548 MEAN 422 MAX 5,930 MIN 23 CFSM 1.83 IN 24.89
WTR YR 1973 TOTAL 123,401 MEAN 338 MAX 2,880 MIN 15 CFSM 1.46 IN 19.87

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-8	0300	12.66	4,020	3-18	1830	11.39	2,750
3-5	0030	12.54	3,840	4-6	0300	11.29	2,680

04218518 ELLICOTT CREEK BELOW WILLIAMSVILLE, N.Y.

LOCATION.--Lat 42°58'40", long 78°45'50", Erie county, 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.

EXTREMES.--Current year: Maximum discharge, 1,980 ft³/s (56.1 m³/s) Dec. 7 (gage height, 7.94 ft (2.420 m)); minimum discharge, 3.6 ft³/s (0.10 m³/s) July 23, 24; minimum gage height, 1.06 ft (0.323 m) Sept. 11, 12.
Period of record: Maximum discharge, 1,980 ft³/s (56.1 m³/s) Dec. 7, 1972 (gage height, 7.94 ft (2.420 m)); minimum discharge, 3.6 ft³/s (0.10 m³/s) July 23, 24, 1973; minimum gage height, 1.06 ft (0.323 m) Sept. 11, 12, 1973.

REMARKS.--Records fair. Regulation by intermittent pumpage 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 and September 1972.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	54	193	585	86	39	135	101	169	37	45	11
2	24	68	145	471	325	68	355	82	107	25	22	11
3	20	80	191	159	920	130	501	79	98	20	17	9.9
4	17	96	258	285	690	542	576	80	75	22	14	9.3
5	16	63	203	471	290	1,080	934	83	60	22	12	9.3
6	16	46	501	190	163	525	906	71	55	17	10	23
7	18	40	1,370	120	139	384	609	53	49	14	9.9	7.7
8	20	68	966	88	130	250	390	48	163	11	9.9	5.7
9	22	177	408	70	86	165	211	72	83	9.3	9.3	6.6
10	20	205	320	56	58	139	143	68	59	9.9	8.8	5.3
11	18	116	292	60	48	228	123	70	50	9.3	12	5.0
12	17	95	201	56	46	335	104	87	49	8.2	8.8	5.0
13	16	101	479	44	46	298	89	96	53	8.8	7.7	9.9
14	16	101	998	39	48	330	71	96	46	12	8.2	12
15	16	163	435	46	43	723	55	71	49	8.8	9.8	12
16	17	169	191	36	38	468	55	60	46	8.2	9.8	12
17	16	161	120	48	33	501	58	55	42	7.1	8.2	11
18	16	141	110	42	31	1,090	60	51	46	5.7	10	30
19	16	126	130	90	33	579	59	53	48	5.7	23	12
20	15	134	197	120	34	343	51	48	48	5.3	19	8.8
21	16	135	235	100	33	315	48	84	42	5.7	48	8.2
22	27	120	338	94	32	255	51	227	39	5.0	27	12
23	53	101	546	108	29	219	40	122	40	4.6	24	8.2
24	59	87	651	149	28	280	48	70	44	4.6	20	7.7
25	77	86	528	110	28	408	37	58	34	13	16	6.6
26	58	185	429	95	27	375	29	59	31	29	12	6.6
27	40	555	358	93	26	263	44	87	28	36	11	6.6
28	32	516	240	95	30	161	149	108	27	46	12	6.6
29	49	363	140	90	-----	110	390	165	151	32	12	6.6
30	55	258	147	78	-----	95	211	171	70	21	11	7.1
31	83	-----	255	70	-----	95	-----	128	-----	16	15	-----
TOTAL	906	4,610	11,575	4,158	3,520	10,793	6,532	2,703	1,901	479.2	482.4	292.7
MEAN	29.2	154	373	134	126	348	218	87.2	63.4	15.5	15.6	9.76
MAX	83	555	1,370	585	920	1,090	934	227	169	46	48	30
MIN	15	40	110	36	26	39	29	48	27	4.6	7.7	5.0
CFSM	.38	1.98	4.81	1.73	1.62	4.48	2.81	1.12	.82	.20	.20	.13
IN.	.43	2.21	5.55	1.99	1.69	5.17	3.13	1.30	.91	.23	.23	.14

WTR YR 1973 TOTAL 47,952.3 MEAN 131 MAX 1,370 MIN 4.6 CFSM 1.69 IN 22.99

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	1900	7.94	1,980	3-18	1500	5.99	1,270
2-3	1345	5.33	1,040	4-5	2215	5.87	1,220
3-5	0530	5.94	1,250				

NIAGARA RIVER BASIN

195

04219000 ERIE (BARGE) CANAL AT LOCK 30, MACEDON, N.Y.

LOCATION.--Lat 43°04'20", long 77°17'45", Wayne County, 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.

GAGE.--Water-stage recorder. Datum of gage is 448.80 ft (136.794 m) above mean sea level, Barge Canal datum. Nov. 1, 1919, to Dec. 28, 1920, nonrecording gage at same site at different datum.

AVERAGE DISCHARGE.--23 years (1950-73), 210 ft³/s (5.947 m³/s).

EXTREMES.--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.

REMARKS.--Records good except those for nonnavigation 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, Dec. 12 to Apr. 22, 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-valve openings, and elevations of water surface in Erie (Barge) Canal upstream and downstream from lock 30 furnished by New York State Department of Transportation.

REVISIONS (WATER YEARS).--WSP 1237: 1951.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	317	318	214	23	5.7	5.0	24	36	114	403	339	360
2	325	312	214	20	10	6.2	44	76	117	385	338	353
3	321	309	210	14	22	9.3	84	135	115	353	362	336
4	317	306	207	16	27	32	102	71	108	359	349	322
5	319	306	206	15	25	77	153	75	117	364	348	332
6	319	308	255	17	22	87	163	67	108	352	346	326
7	327	307	283	15	19	81	139	79	114	354	338	323
8	333	313	271	10	18	71	105	125	105	349	332	341
9	317	319	237	8.0	16	58	115	142	108	351	340	341
10	319	273	192	5.9	15	47	339	104	123	344	350	335
11	319	223	148	3.0	14	42	313	111	118	338	352	338
12	319	220	199	2.6	12	47	464	114	97	350	348	323
13	319	217	44	1.9	9.7	44	455	110	71	341	338	329
14	330	220	44	1.4	7.4	47	280	107	73	353	348	326
15	325	223	36	1.2	7.5	76	150	117	68	354	338	332
16	311	225	25	1.3	6.7	77	44	112	77	338	346	326
17	308	222	11	1.8	5.5	97	44	104	85	341	350	322
18	310	220	7.4	3.1	4.6	160	44	112	235	345	340	329
19	317	218	2.7	5.6	3.8	150	18	109	373	336	331	328
20	314	216	1.8	8.4	3.6	124	2.7	109	372	342	344	327
21	312	214	2.7	7.7	4.1	105	2.7	110	372	348	326	320
22	321	213	14	8.2	5.1	87	3.7	110	385	339	325	327
23	315	213	45	11	5.5	72	44	113	371	337	330	333
24	316	214	61	13	5.6	61	69	110	367	348	342	329
25	317	213	54	12	5.2	52	21	106	351	338	343	329
26	313	217	40	12	5.4	45	61	121	333	331	342	329
27	315	227	30	12	5.1	39	92	124	316	344	336	326
28	317	224	22	12	5.6	32	192	108	319	355	335	329
29	320	222	14	12	-----	27	37	105	316	351	333	329
30	310	218	11	9.3	-----	25	116	102	341	350	332	347
31	310	-----	13	7.5	-----	24	-----	116	-----	347	326	-----
TOTAL	9,852	7,450	3,114.6	290.9	296.1	1,906.5	3,721.1	3,240	6,169	10,840	10,547	9,947
MEAN	318	248	100	9.38	10.6	61.5	124	105	206	350	340	332
MAX	333	319	283	23	27	160	464	142	385	403	362	360
MIN	308	213	1.8	1.2	3.6	5.0	2.7	36	68	331	325	320

CAL YR 1972 TOTAL 45,506.0 MEAN 124 MAX 392 MIN 1.8
 WTR YR 1973 TOTAL 67,374.2 MEAN 185 MAX 464 MIN 1.2

STREAMS TRIBUTARY TO LAKE ONTARIO

04221000 GENESEE RIVER AT WELLSVILLE, N.Y.

LOCATION.--Lat 42°07'20", long 77°57'27", Allegany County, on left bank 35 ft (11 m) upstream from concrete weir at Wellsville, 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.

DRAINAGE AREA.--289 mi² (749 km²).

PERIOD OF RECORD.--August 1955 to September 1958, October 1972 to September 1973.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,470.00 ft (448.056 m) above mean sea level. August 1955 to September 1958, nonrecording gage at site 0.4 mi (0.6 km) upstream at datum 3.00 ft (0.91 m) higher.

EXTREMES.--Current year: Maximum discharge, 9,200 ft³/s (261 m³/s) Dec. 6 (gage height, 13.80 ft (4.206 m)); minimum, 31 ft³/s (0.88 m³/s) Sept. 14-15 (gage height, 3.97 ft (1.210 m)).

Period of record: Maximum discharge, 38,500 ft³/s (1,090 m³/s) June 23, 1972 (gage height, 14.12 ft (4.304 m), from floodmarks at site and datum then in use), from contracted-opening measurement of peak flow at bridge on State Highway 17 at Wellsville; minimum daily, 18 ft³/s (0.51 m³/s) Sept. 9, 1957.

REMARKS.--Records poor. Record for station 04221500 Genesee River at Scio 5.2 mi (8.4 km) downstream published for period June 1916 to September 1972.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	100	280	1,170	202	160	522	309	328	91	100	51
2	76	350	266	749	2,190	328	867	300	351	80	152	52
3	58	840	304	598	2,300	1,260	612	351	301	75	125	52
4	52	400	332	640	877	1,570	1,000	396	288	89	107	52
5	52	320	703	552	668	926	1,570	360	282	83	91	51
6	200	280	5,560	380	528	1,040	1,050	319	263	81	81	94
7	460	250	3,470	260	470	828	896	297	504	70	78	117
8	180	520	1,470	200	420	886	798	309	280	64	80	78
9	110	390	1,210	180	350	689	675	323	242	60	80	63
10	86	360	1,190	170	290	619	633	343	224	56	72	55
11	76	340	896	160	250	612	577	710	214	54	80	51
12	70	320	675	150	230	682	510	598	235	52	84	45
13	66	280	1,060	150	240	584	445	534	229	52	83	35
14	62	920	703	160	250	1,040	400	474	190	75	63	32
15	58	640	584	170	250	1,800	369	445	178	86	51	33
16	56	500	534	180	240	1,100	340	405	186	84	45	40
17	54	410	500	190	190	3,180	321	420	197	56	40	37
18	52	370	470	222	180	2,370	336	462	182	48	95	36
19	50	350	450	233	210	1,470	328	378	151	48	103	44
20	48	330	430	233	220	1,140	301	396	135	51	132	42
21	46	300	396	131	210	926	280	710	131	86	96	38
22	80	280	1,610	468	200	739	266	570	148	93	84	36
23	150	260	1,440	445	180	647	261	486	168	66	78	178
24	150	240	1,250	242	170	598	258	552	129	54	73	117
25	100	280	1,130	193	160	558	244	474	110	52	72	66
26	90	540	1,080	214	160	703	237	420	103	80	67	49
27	80	480	916	213	140	552	285	387	100	298	63	44
28	80	400	720	233	140	468	546	468	107	127	61	41
29	140	340	577	280	-----	435	405	462	121	164	57	40
30	200	300	522	170	-----	435	323	391	101	125	55	37
31	120	-----	769	200	-----	415	-----	360	-----	91	52	-----
TOTAL	3,202	11,690	31,497	9,536	11,915	28,760	15,655	13,409	6,178	2,591	2,500	1,706
MEAN	103	390	1,016	308	426	928	522	433	206	83.6	80.6	56.9
MAX	460	920	5,560	1,170	2,300	3,180	1,570	710	504	298	152	178
MIN	46	100	266	131	140	160	237	297	100	48	40	32
CFSM	.36	1.35	3.52	1.07	1.47	3.21	1.81	1.50	.71	.29	.28	.20
IN.	.41	1.50	4.05	1.23	1.53	3.70	2.02	1.73	.80	.33	.32	.22
CAL YR 1972	TOTAL 246,796	MEAN 674	MAX 26,000	MIN 30	CFSM 2.33	IN 31.77						
WTR YR 1973	TOTAL 138,639	MEAN 380	MAX 5,560	MIN 32	CFSM 1.31	IN 17.85						

PEAK DISCHARGE (BASE, 3,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-06	1500	13.80	9,200	3-17	1830	12.20	5,200
2-02	2100	12.06	4,920				

STREAMS TRIBUTARY TO LAKE ONTARIO

197

04221990 RUSHFORD LAKE AT CANEADEA DAM, N.Y.

04221991 CANEADEA CREEK AT CANEADEA DAM, N.Y.

LOCATION.--Lat 42°22'49", long 78°11'00", Allegany County, 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 (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 the period July 1949 to September 1968 as 04222000 Caneadea Creek at Caneadea, New York.

COOPERATION.--Records furnished by Rochester Gas & Electric Corp.

MONTHEND ELEVATIONS, CONTENTS, AND MONTHLY DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	04221990 RUSHFORD LAKE			04221991 CANEADEA CREEK AT CANEADEA DAM			
	Elevation FT	Contents CU FT	Change in contents CFS	Observed discharge MEAN	* Adjusted for change in contents in Rushford Lake, MEAN	CFSM	IN.
October	1,433.5	11,037	-28.3	106	78.1	1.29	1.48
November	1,436.4	11,802	+25.5	86.6	112	1.85	2.06
December	1,438.9	12,496	+22.4	298	321	5.29	6.09
CAL YR 1972			+10.7	120	131	2.16	29.31
January	1,390.5	3,290	-297	435	138	2.27	2.62
February	1,407.7	5,734	+87.3	0	87.3	1.44	1.50
March	1,435.1	11,442	+184	67.6	252	4.15	4.78
April	1,438.5	12,385	+31.4	140	171	2.82	3.14
May	1,439.0	12,523	+4.45	83.4	87.8	1.45	1.67
June	1,439.4	12,634	+3.70	33.5	37.2	.61	.68
July	1,439.3	12,607	-0.87	9.16	8.29	.14	.16
August	1,439.2	12,579	-0.90	8.48	7.58	.12	.14
September	1,435.3	11,498	-36.0	43.5	7.50	.12	.14
WTR YR 1973			-1.14	111	109	1.80	24.47

/ Elevation at 2400 hrs last day of month.

* Adjustments made by Geological Survey.

NOTE.--All figures of contents expressed in millions.

04223000 GENESEE RIVER AT PORTAGEVILLE, N.Y.

LOCATION.--Lat 42°34'13", long 78°02'33", Wyoming County, 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.

DRAINAGE AREA.--981 mi² (2,541 km²).

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.

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), and 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.

AVERAGE DISCHARGE.--65 years, 1,218 ft³/s (34.49 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 35,900 ft³/s (1,020 m³/s) Dec. 7 (gage height, 22.55 ft (6.873 m) from high-water mark); minimum discharge, 145 ft³/s (4.11 m³/s) Aug. 12-14, Sept. 30; minimum gage height, 8.23 ft (2.509 m) Aug. 12-14.

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), from high-water mark, site and datum then in use), 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).

REMARKS.--Records poor except those after May 18, which are fair. Some seasonal regulation by Rushford Lake since July 1928. 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.

REVISIONS (WATER YEARS).--WSP 264: 1908. WSP 564: 1916(M). WRD N.Y. 1966: Drainage area. WRD N.Y. 1972: 1950(M), 1951(M), 1956(M), 1959(M), 1964(M), 1967(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,200	1,400	1,500	7,400	660	430	1,200	1,300	1,610	479	198	170
2	580	2,100	1,400	5,000	4,700	500	4,400	1,100	2,010	418	202	170
3	320	6,000	1,600	2,000	11,000	1,200	2,900	1,000	1,460	392	202	174
4	250	2,000	2,100	2,500	3,200	8,400	3,100	1,600	1,160	372	194	166
5	360	1,200	1,700	3,000	2,000	5,200	9,200	1,300	1,150	418	174	202
6	340	1,200	16,000	1,800	1,300	4,800	4,800	1,300	1,010	385	166	814
7	3,200	1,500	16,000	1,600	1,400	3,700	3,500	1,000	1,940	308	166	891
8	1,800	3,500	5,000	1,500	1,400	2,900	2,300	820	1,460	272	166	411
9	800	3,300	3,700	1,500	1,200	2,200	1,700	820	902	242	163	298
10	330	1,900	3,500	1,400	1,000	1,800	1,700	1,200	720	219	163	238
11	410	1,700	3,200	1,300	820	1,800	1,700	4,100	643	210	156	215
12	430	1,800	2,300	1,300	660	1,900	1,700	2,700	580	198	148	219
13	410	1,300	3,900	1,300	640	1,900	1,400	2,000	957	202	145	206
14	320	3,200	3,700	1,400	660	2,300	1,000	1,300	1,020	219	145	174
15	300	4,300	2,300	1,300	660	8,000	900	1,300	661	215	174	156
16	230	2,600	1,500	1,200	620	3,600	940	1,200	625	206	170	156
17	230	2,100	1,200	1,100	520	13,000	820	1,200	770	206	170	159
18	290	1,800	1,200	1,300	440	13,000	820	1,600	803	194	194	163
19	240	1,600	1,900	1,600	470	5,200	1,100	1,420	869	182	516	166
20	210	1,700	2,900	1,500	520	3,400	960	1,340	760	174	392	159
21	210	1,600	1,600	1,300	580	2,700	760	5,490	750	178	372	152
22	390	1,200	4,000	1,200	580	2,000	720	3,990	1,150	190	266	152
23	520	1,100	6,600	2,200	540	1,700	460	2,160	814	206	224	198
24	1,000	1,000	5,400	1,300	440	1,700	640	2,050	700	194	206	366
25	740	960	4,700	1,100	380	1,800	520	1,780	598	190	190	760
26	440	2,400	4,100	800	370	1,800	580	1,500	472	198	178	710
27	500	3,500	3,500	900	380	1,500	580	1,400	437	210	166	228
28	460	2,300	2,200	980	400	1,400	3,700	1,370	424	282	156	159
29	470	1,800	1,400	920	-----	1,200	3,000	1,960	858	277	163	152
30	1,200	1,300	1,600	780	-----	1,200	1,600	1,560	598	228	159	148
31	2,100	-----	1,400	640	-----	1,100	-----	2,050	-----	219	156	-----
TOTAL	20,280	63,360	113,100	53,120	37,540	103,330	58,700	54,910	27,911	7,883	6,240	8,332
MEAN	654	2,112	3,648	1,714	1,341	3,333	1,957	1,771	930	254	201	278
MAX	3,200	6,000	16,000	7,400	11,000	13,000	9,200	5,490	2,010	479	516	891
MIN	210	960	1,200	640	370	430	460	820	424	174	145	148

CAL YR 1972 TOTAL 791,369 MEAN 2,162 MAX 72,000 MIN 98
WTR YR 1973 TOTAL 554,706 MEAN 1,520 MAX 16,000 MIN 145

PEAK DISCHARGE (BASE, 15,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	10100	22.55	35,900	3-17	2230	19.22	26,200
2-2	12400	16.9	17,100				f About.

04224000 MOUNT MORRIS LAKE NEAR MOUNT MORRIS, N.Y.

LOCATION.--Lat 42°44'00", long 77°54'40", Livingston County, 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.

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.

EXTREMES.--Current year: Maximum elevation, 668.93 ft (203,890 m) Mar. 21 (contents, 96,050 acre-ft (118 hm³)); minimum, 586.11 ft (178.646 m) Jan. 13 (contents, 806 acre-ft (994,000 m³)).
Period of record: Maximum elevation, 755.46 ft (230.264 m) June 25, 1972 (contents, 322,600 acre-ft (398 hm³)); minimum, 584.80 ft (178.247 m) Feb. 8, 1967, Apr. 30, June 24, 25, Nov. 6-9, 14-15, 1968 (contents, 574 acre-ft (708,000 m³)).

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.

REVISIONS.--WSP 1437: 1955. WRD N.Y. 1967: Drainage area.

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Furnished by Corps of Engineers in 1953)

586.00	782	610.00	11,600
588.00	1,210	620.00	19,800
590.00	1,730	630.00	30,500
595.00	3,410	640.00	43,700
600.00	5,610	660.00	78,200
605.00	8,250	680.00	119,800

ELEVATION, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	601.37	601.44	623.16	626.80	590.91	590.13	623.46	601.37	620.48	598.04	598.39	601.12
2	600.24	598.63	620.15	627.65	596.74	591.55	620.36	595.04	619.81	598.19	598.50	601.17
3	599.37	605.35	617.04	623.83	621.37	594.14	624.16	594.14	619.48	597.87	598.58	601.24
4	600.01	604.46	614.85	618.27	626.12	615.12	625.32	596.22	617.99	598.26	598.60	601.30
5	600.05	600.59	611.79	615.71	622.10	627.12	636.31	596.20	615.67	599.12	598.49	601.36
6	599.71	599.52	617.99	612.24	614.15	631.33	645.99	595.97	611.91	599.86	598.23	601.15
7	603.58	597.37	651.94	609.95	599.95	634.12	651.09	595.14	607.91	599.36	598.29	601.46
8	611.05	597.08	660.37	609.22	591.83	635.45	653.71	593.22	606.64	598.41	598.45	600.64
9	610.08	598.48	662.63	603.92	593.18	634.61	654.94	592.91	602.07	597.73	598.57	600.80
10	606.89	597.53	663.84	590.20	592.72	630.96	655.59	594.60	595.38	597.50	598.62	600.99
11	603.22	599.38	664.88	586.66	591.89	626.43	655.88	602.07	596.99	597.68	598.70	601.24
12	600.77	600.52	664.60	586.35	591.32	621.65	655.51	607.66	599.57	597.78	598.70	601.28
13	598.55	599.13	664.32	586.16	590.44	617.40	654.34	605.54	600.50	597.75	599.03	601.21
14	599.17	601.59	665.75	586.19	590.74	612.52	652.40	601.51	600.79	597.92	599.40	601.08
15	599.61	616.48	664.77	586.21	591.44	620.30	649.40	596.12	597.65	598.19	599.76	600.90
16	599.64	618.52	662.58	590.50	591.03	626.62	645.43	595.33	598.30	598.37	600.07	600.81
17	599.40	617.93	659.45	592.62	589.82	631.63	641.09	595.15	599.42	598.43	600.15	600.86
18	599.04	617.22	655.44	592.79	590.03	654.48	636.39	596.65	599.49	598.48	600.32	601.43
19	598.51	616.93	651.47	593.82	589.44	663.26	631.80	597.14	598.87	598.35	600.57	601.94
20	597.88	616.61	647.55	595.00	588.33	667.05	626.93	595.45	598.26	598.12	599.50	602.08
21	597.60	616.31	643.22	593.00	588.00	668.68	621.18	604.88	598.19	598.32	600.79	601.58
22	598.71	616.15	639.48	593.51	588.36	668.07	614.19	615.36	601.13	598.63	600.84	601.00
23	600.32	615.78	641.62	595.88	589.13	665.34	604.68	614.18	598.86	598.90	600.70	600.91
24	603.31	615.50	643.58	595.53	589.39	661.63	592.35	610.01	598.00	598.88	600.74	601.29
25	603.83	615.56	644.60	593.23	589.38	657.67	590.80	605.47	598.07	598.69	600.75	599.80
26	602.96	617.10	644.80	592.52	589.86	653.76	590.44	599.01	598.07	598.54	600.96	597.57
27	601.45	623.88	643.83	593.06	589.89	650.01	590.75	595.08	598.21	598.40	601.07	598.35
28	599.29	626.91	641.11	593.27	589.66	645.71	600.27	598.37	598.20	598.14	601.13	598.22
29	597.46	627.22	636.85	594.13	-----	640.80	608.37	608.34	598.19	598.45	601.11	597.67
30	600.56	625.94	631.54	592.08	-----	635.37	607.26	615.28	597.82	597.84	601.15	597.39
31	603.73	-----	625.98	590.96	-----	629.78	-----	619.77	-----	598.15	601.16	-----
MEAN	601.21	610.17	644.55	598.75	595.26	635.57	628.68	601.07	603.06	598.33	599.72	600.59
MAX	611.05	627.22	665.75	627.65	626.12	668.68	655.88	619.77	620.48	599.86	601.16	602.08
MIN	597.46	597.08	611.79	586.16	588.00	590.13	590.44	592.91	595.38	597.50	598.23	597.39
/	7,442	24,570	24,660	2,117	1,642	26,800	8,210	20,570	4,604	4,814	6,188	4,316
*	+42	+288	+1.4	-367	-8.6	+409	-312	+201	-268	+3.4	+22	-31

CAL YR 1972 MEAN 624.06 MAX 755.13 MIN 586.55 * +4.1
WTR YR 1973 MEAN 609.86 MAX 668.68 MIN 586.16 * - .8

/ Contents, in acre-feet, at end of month.

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

04225000 CANASERAGA CREEK NEAR DANSVILLE, N.Y.

LOCATION.--Lat 42°33'36", long 77°42'57", Livingston County, on left bank 200 ft (61 m) upstream from 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). October 1917 to September 1919, October 1938 to September 1940, 155 mi² (401 km²).

PERIOD OF RECORD.--July 1910 to December 1912, July 1915 to June 1917, October 1917 to September 1919 (published as "at Cumminsville"), March 1919 to September 1968, July 1970 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 640.00 ft (195.072 m) above mean sea level (levels by New York State Conservation Commission). Prior to Oct. 19, 1920, nonrecording gage at or within 1 mi (2 km) of present site at various datums. Oct. 19, 1920, to Sept. 30, 1938, water-stage recorder at present site and datum, and Oct. 1, 1938, to Oct. 8, 1940, water-stage recorder at site 0.9 mi (1.4 km) downstream at datum 15.70 ft (4.785 m) lower.

AVERAGE DISCHARGE.--56 years (1910-12, 1915-16, 1917-19, 1920-68, 1971-73), 152 ft³/s (4.305 m³/s) (13.49 in/yr (342.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 3,370 ft³/s (94.4 m³/s) Dec. 6 (gage height, 9.76 ft (2.975 m)); minimum discharge, 30 ft³/s (0.85 m³/s) Sept. 20, 21-22, 29,30; minimum gage height, 4.24 ft (1.292 m) Jan. 16. 5.07 ft (1.545 m)).

Period of record: Maximum discharge at present site, 9,600 ft³/s (272 m³/s) June 23, 1972 (gage height, 14.85 ft (4.526 m), from floodmarks), from rating curve extended on basis of contracted-opening measurement of peak flow; minimum daily, 3 ft³/s (0.085 m³/s) Apr. 28, 1912.

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

REVISIONS.--WRD N.Y. 1972: 1967, 1968.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	91	250	494	130	140	350	240	180	68	53	53
2	80	290	233	277	520	185	1,010	192	345	65	56	56
3	66	507	281	191	790	436	623	215	215	65	53	48
4	58	268	268	233	367	961	1,140	225	192	65	50	48
5	52	217	277	205	285	660	1,560	220	172	65	50	62
6	58	170	1,720	150	230	592	947	184	192	68	46	152
7	611	145	946	110	210	490	758	160	438	59	48	77
8	263	395	443	100	200	430	552	148	172	56	48	59
9	161	786	351	100	170	371	438	152	120	53	46	53
10	120	520	346	120	140	353	404	164	88	53	48	50
11	96	481	277	110	120	344	380	295	68	53	48	48
12	89	379	225	100	110	376	330	215	84	50	46	48
13	87	290	401	110	100	340	275	200	156	56	46	46
14	78	395	272	130	110	557	250	172	96	59	46	46
15	72	390	209	130	120	592	225	156	65	53	84	46
16	69	346	140	124	110	448	200	136	71	53	62	43
17	66	305	100	128	100	1,790	184	152	84	53	50	43
18	63	245	96	153	94	1,170	180	188	156	50	104	48
19	58	237	100	172	100	650	180	144	152	48	112	43
20	55	250	110	165	110	466	168	192	124	50	62	39
21	54	221	128	130	130	380	156	947	136	56	46	30
22	70	225	555	165	120	310	152	695	160	53	43	53
23	112	184	507	254	110	280	148	417	132	53	41	88
24	145	177	462	183	110	270	140	380	96	50	39	48
25	105	170	413	150	110	260	124	320	88	53	41	41
26	89	632	373	146	120	270	116	270	80	53	41	35
27	81	455	295	146	120	235	210	245	77	56	39	32
28	76	335	241	153	130	205	528	235	74	56	37	32
29	94	300	195	140	-----	188	392	250	84	59	41	32
30	131	263	177	130	-----	196	300	225	71	48	46	30
31	105	-----	330	130	-----	184	-----	255	-----	48	46	-----
TOTAL	3,390	9,669	10,721	5,029	5,066	14,129	12,420	7,989	4,168	1,727	1,618	1,529
MEAN	109	322	346	162	181	456	414	258	139	55.7	52.2	51.0
MAX	611	786	1,720	494	790	1,790	1,560	947	438	68	112	152
MIN	52	91	96	100	94	140	116	136	65	48	37	30
CFSM	.71	2.10	2.26	1.06	1.18	2.98	2.71	1.69	.91	.36	.34	.33
IN.	.82	2.35	2.61	1.22	1.23	3.44	3.02	1.94	1.01	.42	.39	.37

CAL YR 1972 TOTAL 97,019 MEAN 265 MAX 4,720 MIN 37 CFSM 1.73 IN 23.59
WTR YR 1973 TOTAL 77,455 MEAN 212 MAX 1,790 MIN 30 CFSM 1.39 IN 18.83

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-06	1315	9.76	3,370	4-04	2115	8.34	2,670
3-17	1830	8.09	2,850				

STREAMS TRIBUTARY TO LAKE ONTARIO

201

04227500 GENESEE RIVER NEAR MOUNT MORRIS, N.Y.

LOCATION.--Lat 42°46'00", long 77°50'21", Livingston County, on right bank at Jones Bridge, 0.8 mi (1.3 km) downstream from Canaseraga Creek and 2.8 mi (4.5 km) northeast of Mount Morris.

DRAINAGE AREA.--1,417 mi² (3,670 km²).

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."

GAGE.--Water-stage recorder. Datum of gage is 540.12 ft (164.629 m) above mean sea level (revised). Prior to Sept. 11, 1915, nonrecording gage on bridge at datum 2.85 ft (0.869 m) lower.

AVERAGE DISCHARGE.--63 years (1908-13, 1915-73), 1,617 ft³/s (45.79 m³/s).

EXTREMES.--Current year: Maximum discharge, 6,920 ft³/s (196 m³/s) Dec. 28 (gage height, 10.96 ft (3.341 m)); minimum, 102 ft³/s (2.89 m³/s) Aug. 13 (gage height, 1.25 ft (0.381 m)).
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.

REMARKS.--Records good except those for winter periods, which are fair.. Diurnal fluctuation at low flow caused by powerplants. 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.

REVISIONS (WATER YEARS).--WSP 1277: 1952. WSP 1387: 1913. WSP 1437: 1955. WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,330	2,450	3,770	6,180	1,190	700	4,970	3,050	2,400	540	259	198
2	1,390	1,570	3,600	6,020	2,290	940	5,240	2,110	2,530	481	266	206
3	848	4,490	3,570	5,740	5,610	1,710	3,860	1,830	2,440	472	263	209
4	590	4,090	3,700	5,870	5,750	5,390	3,680	2,260	2,360	364	256	206
5	580	2,470	3,610	5,530	5,620	4,490	3,110	2,280	2,530	414	253	198
6	570	1,940	4,070	4,080	5,510	3,900	2,740	2,190	2,620	396	238	580
7	1,490	1,970	4,540	2,290	4,370	3,940	2,520	1,880	2,630	477	187	340
8	2,330	2,230	4,590	2,260	2,240	3,610	2,700	1,520	2,470	427	195	310
9	2,150	3,890	4,260	4,250	1,920	4,540	2,690	1,460	2,210	360	195	300
10	1,950	3,190	4,220	2,970	1,550	5,140	2,680	1,660	1,320	310	195	300
11	1,490	2,610	4,310	2,580	1,200	4,920	2,930	2,680	811	269	201	300
12	1,160	2,660	4,640	2,400	1,000	4,720	3,480	3,140	673	266	195	295
13	841	2,470	4,940	2,300	940	4,420	3,880	3,030	972	269	142	290
14	605	2,460	5,120	2,200	840	4,190	4,250	2,760	1,500	279	134	290
15	600	3,900	5,600	2,200	760	4,130	4,860	2,110	1,170	269	223	290
16	585	3,770	5,700	2,100	720	3,990	5,100	1,820	755	266	285	280
17	580	3,370	5,650	2,100	800	5,240	4,910	1,680	792	266	220	260
18	565	2,810	6,030	2,000	800	3,670	4,690	1,880	970	263	229	170
19	560	2,530	6,270	2,000	780	2,600	4,520	1,960	1,090	259	560	198
20	540	2,530	6,250	1,900	740	2,860	4,300	1,700	1,010	250	724	266
21	486	2,400	6,280	1,900	720	3,700	4,030	3,460	774	220	244	310
22	352	2,130	6,470	1,980	700	5,090	3,690	4,180	1,210	223	450	285
23	450	1,960	6,560	2,710	660	6,210	3,210	3,850	1,460	212	310	344
24	932	1,740	6,510	2,610	620	6,800	1,700	3,570	808	263	275	336
25	1,230	1,610	6,410	1,590	600	6,640	1,210	3,270	712	259	244	1,060
26	1,170	2,270	6,480	1,460	580	6,460	1,110	2,750	620	259	217	754
27	1,110	2,810	6,790	1,400	600	6,250	1,170	2,070	505	282	203	520
28	1,020	3,000	6,850	1,300	620	5,980	2,960	1,280	505	289	206	299
29	790	3,300	6,810	1,200	-----	5,700	3,580	540	834	384	201	269
30	904	3,610	6,640	1,100	-----	5,450	3,410	460	724	328	195	238
31	1,770	-----	6,350	1,140	-----	5,200	-----	1,100	-----	253	192	-----
TOTAL	30,968	82,230	166,590	85,360	49,730	138,580	103,180	69,530	41,405	9,869	7,957	9,901
MEAN	999	2,741	5,374	2,754	1,776	4,470	3,439	2,243	1,380	318	257	330
MAX	2,330	4,490	6,850	6,180	5,750	6,800	5,240	4,180	2,630	540	724	1,060
MIN	352	1,570	3,570	1,100	580	700	1,110	460	505	212	134	170

CAL YR 1972 TOTAL 1,137,865. MEAN 3,109 MAX 16,500 MIN 192
WTR YR 1973 TOTAL 795,300 MEAN 2,179 MAX 6,850 MIN 134

LOCATION.--Lat 42°47'39", long 77°43'15", Livingston County, 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.

PERIOD OF RECORD.--July 1963 to current year. Since 1930 in files of village of Geneseo.

EXTREMES.--Current year: Maximum gage height, 20.88 ft (6.364 m) Apr. 7; minimum, 17.09 ft (5.209 m) Sept. 30.
Period of record: Maximum gage height, 22.50 ft (6.858 m) June 24, 1972; minimum observed, 16.33 ft (4.977 m) (present datum) Nov. 3-8, 1963.

REVISIONS.--WRD N. Y. 1967: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.62	17.40	19.10	19.80	18.50	18.23	19.52	19.43	19.13	18.51	17.86	17.47
2	17.60	17.43	19.11	19.76	18.54	18.21	19.67	19.39	19.14	18.48	17.86	17.49
3	17.58	17.55	19.10	19.71	18.69	18.27	19.94	19.37	19.12	18.45	17.84	17.49
4	17.56	17.60	19.12	19.71	18.74	18.65	20.13	19.34	19.11	18.43	17.82	17.48
5	17.55	17.65	19.14	19.67	18.75	18.88	20.63	19.30	19.08	18.43	17.80	17.47
6	17.55	17.70	19.48	19.61	18.74	19.03	20.82	19.26	19.06	18.39	17.78	17.48
7	17.62	17.75	19.95	19.53	18.72	19.12	20.86	19.22	19.04	18.36	17.77	17.45
8	17.59	17.80	20.05	19.51	18.74	19.15	20.82	19.18	19.00	18.33	17.75	17.41
9	17.57	18.10	20.06	19.51	18.73	19.15	20.74	19.15	18.96	18.30	17.73	17.38
10	17.55	18.25	20.06	19.52	18.69	19.16	20.67	19.14	18.91	18.27	17.72	17.35
11	17.52	18.35	20.04	19.55	18.66	19.16	20.58	19.16	18.86	18.23	17.70	17.33
12	17.36	18.35	20.01	19.56	18.66	19.17	20.48	19.14	18.82	18.19	17.67	17.30
13	17.31	18.30	20.00	19.57	18.68	19.16	20.39	19.12	18.79	18.16	17.65	17.27
14	17.27	18.41	19.98	19.18	18.71	19.20	20.29	19.08	18.73	18.15	17.63	17.25
15	17.30	18.51	19.95	19.00	18.71	19.33	20.20	19.05	18.67	18.14	17.64	17.24
16	17.32	18.55	19.92	18.80	18.72	19.36	20.11	19.01	18.65	18.12	17.64	17.22
17	17.36	18.59	19.86	18.88	18.75	19.61	20.03	18.98	18.64	18.09	17.62	17.20
18	17.33	18.60	19.79	18.84	18.67	20.03	19.95	18.95	18.62	18.07	17.62	17.20
19	17.31	18.62	19.72	18.82	18.81	20.12	19.87	18.91	18.60	18.05	17.61	17.19
20	17.28	18.65	19.67	18.79	18.59	20.12	19.80	18.89	18.58	18.03	17.59	17.17
21	17.27	18.66	19.63	18.75	18.38	20.09	19.73	19.02	18.61	18.03	17.58	17.15
22	17.32	18.66	19.71	18.72	18.38	20.04	19.67	19.15	18.70	18.01	17.56	17.15
23	17.40	18.65	19.86	18.72	18.37	19.99	19.60	19.19	18.71	17.98	17.53	17.16
24	17.41	18.65	19.94	18.69	18.35	19.94	19.53	19.19	18.70	17.97	17.51	17.15
25	17.38	18.64	19.98	18.66	18.32	19.89	19.66	19.17	18.67	17.95	17.49	17.14
26	17.37	18.77	19.98	18.63	18.30	19.83	19.39	19.17	18.65	17.93	17.48	17.13
27	17.33	18.94	19.98	18.60	18.28	19.77	19.36	19.16	18.62	17.93	17.47	17.13
28	17.33	19.03	19.94	18.59	18.25	19.71	19.44	19.15	18.60	17.91	17.47	17.11
29	17.37	19.08	19.89	18.58	-----	19.64	19.46	19.15	18.57	17.90	17.46	17.11
30	17.40	19.09	19.84	18.55	-----	19.59	19.45	19.13	18.54	17.88	17.44	17.10
31	17.40	-----	19.81	18.52	-----							

STREAMS TRIBUTARY TO LAKE ONTARIO

203

04228500 GENESEE RIVER AT AVON, N.Y.

LOCATION.--Lat 42°55'04", long 77°45'27", Livingston County, 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.

DRAINAGE AREA.--1,667 mi² (4,318 km²).

PERIOD OF RECORD.--August 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft (152.400 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--18 years, 1,850 ft³/s (52.39 m³/s).

EXTREMES.--Current year: Maximum discharge, 11,500 ft³/s (326 m³/s) Mar. 18 (gage height, 33.73 ft (10.281 m)); minimum, 100 ft³/s (2.83 m³/s) Sept. 19 (gage height, 13.95 ft (4.252 m)).

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).

REMARKS.--Records good except those for winter periods, which are fair. Diurnal fluctuation at low flow caused by powerplants. Flow regulated to some extent by Rushford Lake (see station 04221990) and 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.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	846	1,570	3,890	7,060	1,300	620	5,570	3,470	1,960	684	258	216
2	1,400	2,160	3,820	6,720	2,000	1,000	6,770	2,930	2,490	570	261	237
3	1,050	1,750	3,720	6,190	5,300	1,490	6,300	2,150	2,540	480	261	246
4	666	3,950	3,930	6,360	6,340	5,720	5,260	2,040	2,380	465	261	240
5	588	4,110	3,900	6,360	5,960	7,430	7,250	2,390	2,330	453	255	234
6	585	2,560	5,110	5,180	5,830	5,270	5,250	2,350	2,610	537	249	402
7	756	1,910	6,550	3,150	5,440	5,020	4,890	2,170	2,620	522	228	920
8	1,900	1,910	5,770	2,080	3,380	4,190	3,940	1,880	2,570	528	180	997
9	1,990	2,390	5,010	3,300	2,290	4,560	3,720	1,600	2,330	471	177	507
10	1,840	4,270	4,840	5,300	1,880	5,460	3,360	1,550	1,910	399	177	381
11	1,640	2,910	4,700	3,400	1,600	5,610	3,350	1,780	1,120	351	180	219
12	1,170	2,790	4,850	3,000	1,300	5,570	3,680	2,700	813	312	180	261
13	1,030	2,600	5,500	2,700	1,100	5,140	4,100	3,110	861	315	180	255
14	690	2,630	5,740	2,600	980	5,180	4,330	3,010	1,290	324	135	258
15	603	3,850	5,910	2,500	880	5,910	4,830	2,740	1,440	324	117	255
16	594	4,200	6,050	2,400	840	4,960	5,310	2,150	943	309	231	249
17	582	3,740	5,760	2,400	860	7,430	5,270	1,850	840	294	255	228
18	570	3,230	6,060	2,400	860	9,480	5,030	1,720	950	291	216	147
19	561	2,720	6,380	2,300	840	5,260	4,810	1,840	1,110	285	288	103
20	546	2,630	6,470	2,200	800	3,600	4,590	1,930	1,060	276	684	174
21	534	2,620	6,670	2,200	780	3,910	4,330	1,830	1,340	261	468	261
22	471	2,340	7,110	2,100	760	5,070	4,000	4,410	1,420	234	332	318
23	390	2,160	8,130	2,100	740	6,460	3,570	4,250	1,690	234	402	297
24	480	1,970	7,900	3,090	700	7,360	2,710	3,840	1,140	231	318	333
25	909	1,790	7,430	2,090	680	7,560	1,530	3,490	876	270	291	501
26	1,120	2,350	7,150	1,630	640	7,340	1,320	3,100	756	270	258	1,040
27	1,070	3,910	7,290	1,580	620	7,040	1,260	2,490	654	273	243	708
28	1,020	3,680	7,340	1,500	620	6,670	2,130	2,000	603	303	222	411
29	962	3,580	7,180	1,400	-----	6,330	3,720	1,120	720	285	222	321
30	846	3,660	7,050	1,300	-----	6,010	3,800	807	909	402	216	279
31	876	-----	6,980	1,300	-----	5,800	-----	959	-----	306	213	-----
TOTAL	28,285	85,940	184,190	97,890	55,320	168,450	125,980	73,656	44,275	11,259	7,958	10,998
MEAN	912	2,865	5,942	3,158	1,976	5,434	4,199	2,376	1,476	363	257	367
MAX	1,990	4,270	8,130	7,060	6,340	9,480	7,250	4,410	2,620	684	684	1,040
MIN	390	1,570	3,720	1,300	620	620	1,260	807	603	231	117	103
CAL YR 1972	TOTAL	1,204,454	MEAN	3,291	MAX	16,200	MIN	261				
WTR YR 1973	TOTAL	894,201	MEAN	2,450	MAX	9,480	MIN	103				

LOCATION.--Lat 42°45'44", long 77°30'21", Ontario County, 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.

PERIOD OF RECORD.--July to December 1963. Occasional readings January to August 1964. October 1964 to current year.

EXTREMES.--Current year: Maximum gage height, 4.80 ft (1.463 m) Apr. 6; minimum, 2.68 ft (0.817 m) Sept. 21-22.
Period of record: Maximum gage height, 6.91 ft (2.106 m) June 23, 1972; minimum observed, 2.15 ft (0.655 m) Oct. 5, 1965,
Oct. 1, 2, 1970 (present datum).

REMARKS.--Area of water surface, 2.71 mi² (7.02 km²).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.02	3.28	4.19	4.19	3.54	3.43	3.82	3.78	3.82	3.52	3.05	2.85
2	3.02	3.32	4.17	4.17	3.60	3.43	4.00	3.77	3.82	3.48	3.05	2.85
3	3.02	3.41	4.16	4.14	3.79	3.49	4.20	3.77	3.79	3.46	3.04	2.85
4	3.02	3.44	4.15	4.19	3.84	3.83	4.33	3.77	3.77	3.52	3.02	2.84
5	3.02	3.46	4.15	4.16	3.85	3.97	4.69	3.77	3.74	3.50	3.00	2.84
6	3.03	3.48	4.44	4.09	3.83	4.04	4.77	3.75	3.76	3.46	2.99	2.87
7	3.09	3.49	4.72	4.02	3.82	4.08	4.77	3.73	3.95	3.43	3.01	2.84
8	3.11	3.57	4.71	3.95	3.83	4.05	4.68	3.73	3.99	3.40	2.98	2.82
9	3.11	3.86	4.66	3.90	3.82	4.02	4.57	3.69	3.97	3.36	2.95	2.80
10	3.10	3.98	4.62	3.85	3.79	4.01	4.50	3.68	3.93	3.33	2.94	2.79
11	3.11	4.04	4.54	3.80	3.75	3.99	4.42	3.70	3.88	3.29	2.94	2.77
12	3.10	4.06	4.47	3.76	3.71	3.97	4.34	3.69	3.88	3.25	2.92	2.75
13	3.10	4.05	4.43	3.72	3.68	3.94	4.24	3.69	3.88	3.23	2.90	2.73
14	3.11	4.10	4.37	3.69	3.65	3.96	4.17	3.67	3.81	3.21	2.89	2.72
15	3.10	4.15	4.31	3.66	3.65	4.05	4.10	3.65	3.76	3.20	2.91	2.72
16	3.11	4.13	4.30	3.64	3.65	4.03	4.04	3.64	3.73	3.18	2.92	2.71
17	3.10	4.11	4.22	3.62	3.62	4.23	3.98	3.62	3.71	3.16	2.91	2.70
18	3.10	4.08	4.16	3.62	3.60	4.51	3.93	3.62	3.71	3.14	2.91	2.71
19	3.09	4.06	4.12	3.63	3.57	4.51	3.89	3.60	3.70	3.12	2.91	2.71
20	3.09	4.05	4.08	3.63	3.55	4.45	3.86	3.60	3.67	3.11	2.91	2.71
21	3.10	4.02	4.05	3.61	3.54	4.38	3.82	3.82	3.74	3.13	2.89	2.69
22	3.11	3.99	4.15	3.60	3.54	4.30	3.78	3.96	3.88	3.12	2.88	2.70
23	3.15	3.96	4.27	3.63	3.53	4.22	3.75	3.97	3.83	3.11	2.85	2.72
24	3.17	3.93	4.29	3.63	3.51	4.17	3.71	3.95	3.77	3.10	2.84	2.71
25	3.17	3.92	4.29	3.61	3.50	4.12	3.67	3.93	3.72	3.09	2.83	2.71
26	3.18	4.10	4.29	3.60	3.48	4.06	3.64	3.91	3.68	3.09	2.83	2.71
27	3.19	4.23	4.27	3.59	3.46	4.00	3.64	3.90	3.64	3.09	2.85	2.71
28	3.20	4.23	4.25	3.58	3.45	3.97	3.77	3.88	3.59	3.09	2.86	2.70
29	3.24	4.22	4.20	3.59	-----	3.91	3.80	3.87	3.59	3.08	2.85	2.70
30	3.26	4.20	4.16	3.58	-----	3.86	3.79	3.85	3.55	3.06	2.84	2.69
31	3.27	-----	4.17	3.55	-----	3.83	-----	3.84	-----	3.05	2.84	-----
MEAN	3.12	3.90	4.30	3.77	3.65	4.03	4.09	3.77	3.78	3.24	2.92	2.75
MAX	3.27	4.23	4.72	4.19	3.85	4.51	4.77	3.97	3.99	3.52	3.05	2.87
MIN	3.02	3.28	4.05	3.55	3.45	3.43	3					

STREAMS TRIBUTARY TO LAKE ONTARIO

205

04228950 CANADICE LAKE NEAR HEMLOCK, N.Y.

04229000 CANADICE OUTLET NEAR HEMLOCK, N.Y.

LOCATION.--Lake: Lat 42°44'27", long 77°34'20", Ontario County, 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 Candice Lake Outlet.

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).

AVERAGE DISCHARGE.--70 years, 11.6 ft³/s (0.329 m³/s) (unadjusted).

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.

COOPERATION.--Records furnished by Department of Public Works, City of Rochester.

REVISIONS (WATER YEARS).--WRD N.Y. 1967: Drainage area. WRD N.Y. 1968: 1967.

MONTHEND ELEVATIONS, CONTENTS, AND MONTHLY DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

04228950 CANADICE LAKE

04229000 CANADICE OUTLET

	† Elevation FT	Contents CU FT	Change in contents CFS	Observed discharge MEAN	‡ Adjusted for change in contents in Canadice Lake		
					MEAN	CFSM	IN.
October	1,098.59	485.06	+6.3	0	.63	.05	.06
November	1,098.88	494.92	+3.80	0	3.80	.31	.34
December	1,098.33	476.22	-6.98	37.2	30.2	2.44	2.81
CAL YR 1972			+5.46	7.68	13.1	1.06	14.42
January	1,097.83	459.39	-6.28	16.3	10.0	.81	.93
February	1,097.23	439.59	-8.18	23.1	14.9	1.20	1.25
March	1,098.09	468.06	+10.63	26.1	36.8	2.97	3.42
April	1,097.65	453.45	-5.64	5.62	-.01	.00	.00
May	1,098.25	473.50	+7.49	10.8	18.3	1.48	1.70
June	1,096.91	429.12	-17.12	26.5	9.35	.75	.84
July	1,096.83	426.56	-.96	0	-.96	-.08	-.09
August	1,096.75	424.00	-.96	0	-.96	-.08	-.09
September	1,096.60	419.20	-1.85	.01	-1.84	.15	-.17
WTR YR 1973			-2.03	12.1	10.1	.81	11.01

† Elevation at 2400 hrs last day of month.

‡ Adjustments by Geological Survey. Negative figures indicate that natural losses from Canadice Lake exceeded inflow.

NOTE.--All figures of contents expressed in millions.

STREAMS TRIBUTARY TO LAKE ONTARIO

04229500 HONEOYE CREEK AT HONEOYE FALLS, N.Y.

LOCATION.--Lat 42°57'24", long 77°35'21", Monroe County, 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.

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 (185.85 m) above mean sea level (609.98 ft (185.92 m), levels by Corps of Engineers).

AVERAGE DISCHARGE.--26 years (1946-70,1973), 111 ft³/s (3.144 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,800 ft³/s (79.3 m³/s) Apr. 5 (gage height, 4.61 ft (1.405 m)); minimum, 0.40 ft³/s (0.011 m³/s) Sept. 17-18 (gage height, 0.22 ft (0.067 m)).

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.

REMARKS.--Records fair. Outlet of Honeoye Lake not controlled (see sta. no. 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 (maximum capacity, 600 GPM (1.3 ft³/s (0.037 m³/s))) which enters Creek upstream from gage.

REVISIONS.--WRD N.Y. 1966: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	47	232	495	80	76	227	182	253	69	7.7	4.5
2	25	53	212	424	180	94	592	162	275	58	7.7	18
3	18	199	261	340	540	187	1,140	165	257	53	8.0	16
4	14	160	301	403	344	1,130	1,070	193	217	70	8.8	11
5	12	101	229	398	215	879	2,360	182	208	70	8.0	8.8
6	12	80	761	270	148	498	2,140	162	237	62	7.3	8.0
7	27	70	1,870	200	174	406	1,710	137	310	53	6.3	5.9
8	51	142	924	160	165	330	1,190	124	402	43	5.2	5.6
9	41	777	541	130	110	275	897	137	314	38	4.5	4.2
10	29	737	465	120	110	260	766	137	268	32	3.9	3.0
11	22	409	424	110	110	275	726	190	243	30	3.3	2.2
12	19	335	331	100	110	310	634	168	162	28	2.7	1.7
13	18	261	419	100	110	250	482	145	145	25	2.4	1.1
14	18	284	447	110	110	326	338	137	150	25	2.7	.92
15	15	387	326	120	100	661	290	122	128	28	3.0	.92
16	13	340	239	110	90	420	268	113	119	26	3.0	.63
17	13	276	179	115	70	798	250	113	133	23	3.6	.40
18	13	243	236	133	66	1,650	227	133	142	20	5.2	.77
19	16	212	276	146	60	798	217	119	162	17	4.9	.92
20	13	206	250	130	74	598	211	111	135	15	5.9	.77
21	12	203	269	96	82	580	196	498	128	14	4.9	1.5
22	12	187	495	120	76	532	184	879	450	14	4.2	2.2
23	15	174	951	137	72	482	173	544	388	12	2.4	2.4
24	24	171	705	121	70	465	168	411	217	11	1.9	2.2
25	30	174	495	93	70	425	109	260	150	9.6	2.4	2.2
26	26	574	419	93	66	397	100	217	130	8.8	3.6	2.4
27	24	1,110	390	91	64	298	106	243	106	10	12	1.9
28	21	652	360	91	62	253	318	237	79	15	8.0	1.7
29	24	387	350	70	-----	240	358	243	74	14	7.7	1.3
30	76	265	360	54	-----	230	237	199	83	9.6	6.3	.92
31	65	-----	447	50	-----	223	-----	268	-----	8.0	4.5	-----
TOTAL	754	9,216	14,164	5,130	3,528	14,346	17,684	6,931	6,065	911.0	162.0	114.05
MEAN	24.3	307	457	165	126	463	589	224	202	29.4	5.23	3.80
MAX	76	1,110	1,870	495	540	1,650	2,360	879	450	70	12	18
MIN	12	47	179	50	60	76	100	111	74	8.0	1.9	.40

WTR YR 1973 TOTAL 79,005.05 MEAN 216 MAX 2,360 MIN .40

STREAMS TRIBUTARY TO LAKE ONTARIO

207

04230380 OATKA CREEK AT WARSAW, N.Y.

LOCATION.--Lat 42°44'39", long 78°08'16", Wyoming County, on right bank 400 ft (122 m) downstream from bridge on Court St., Warsaw.

DRAINAGE AREA.--41.9 mi² (109 km²).

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 987.15 ft (300.883 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--9 years (1964-73), 49.5 ft³/s (1.402 m³/s) (16.04 in/yr (407.4 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 1,490 ft³/s (42.2 m³/s) Dec. 6 (gage height, 6.80 ft (2.073 m)); minimum, 1.5 ft³/s (0.042 m³/s) Aug. 30, Aug. 31 to Sept. 1, Sept. 4-5 (gage height, 1.18 ft (0.360 m)).

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 flow; minimum, 0.90 ft³/s (0.025 m³/s) Aug. 1, 1965; minimum gage height, 1.18 ft (0.360 m) Aug. 30, Aug. 31 to Sept. 1, Sept. 4-5, 1973.

REMARKS.--Records fair.

REVISIONS.--WRD N.Y. 1966: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	15	53	233	140	32	104	51	51	12	5.9	3.4
2	15	73	53	94	354	48	165	49	61	11	6.5	2.6
3	11	131	87	72	205	177	167	80	41	9.8	5.3	2.2
4	9.0	53	72	165	87	348	228	73	37	11	4.3	1.9
5	7.5	43	82	92	66	158	300	69	34	22	3.8	3.0
6	37	34	650	64	67	166	239	48	39	12	3.4	12
7	121	30	190	52	56	125	216	40	46	9.1	3.4	4.8
8	32	83	110	44	57	97	131	39	21	7.7	3.4	3.4
9	15	103	100	42	50	69	94	42	19	7.1	3.0	3.0
10	13	58	110	40	45	72	87	46	16	6.5	3.4	3.0
11	9.8	67	82	38	42	85	85	73	14	6.5	3.4	2.6
12	8.3	57	70	36	40	98	83	63	13	6.5	3.0	2.6
13	9.0	43	272	35	40	74	73	53	11	11	3.4	3.0
14	8.3	72	116	37	39	207	63	42	18	8.4	3.4	3.4
15	7.0	66	82	37	38	158	57	40	15	7.1	5.3	3.4
16	6.5	63	56	38	37	90	52	35	16	6.5	4.8	2.6
17	6.1	60	50	42	35	649	47	34	19	5.9	3.8	3.4
18	5.7	52	76	97	35	214	46	33	20	5.3	3.8	4.3
19	5.3	53	70	101	39	139	46	30	19	4.8	3.8	3.4
20	5.3	60	66	80	42	120	42	70	18	5.3	3.4	2.6
21	4.9	54	63	66	39	99	37	193	43	6.5	3.8	3.0
22	5.7	51	154	56	36	87	36	85	34	5.9	4.8	7.7
23	30	47	169	82	34	86	37	54	20	4.8	3.8	9.8
24	26	46	165	49	33	106	33	52	17	4.3	3.8	4.3
25	16	47	144	48	32	130	31	43	15	4.8	3.4	4.3
26	14	114	131	49	31	135	30	54	13	6.5	3.0	3.0
27	13	101	99	56	30	98	70	49	12	7.7	3.0	2.6
28	12	75	74	52	31	73	173	51	13	8.4	3.0	2.2
29	47	61	60	47	-----	64	104	61	16	7.1	2.2	2.2
30	48	52	66	44	-----	75	60	61	13	5.3	1.9	1.9
31	23	-----	241	40	-----	69	-----	103	-----	4.8	1.9	-----
TOTAL	594.4	1,864	3,813	2,028	1,780	4,148	2,936	1,816	724	241.6	115.1	111.6
MEAN	19.2	62.1	123	65.4	63.6	134	97.9	58.6	24.1	7.79	3.71	3.72
MAX	121	131	650	233	354	649	300	193	61	22	6.5	12
MIN	4.9	15	50	35	30	32	30	30	11	4.3	1.9	1.9
CFSM	.46	1.48	2.94	1.56	1.52	3.20	2.34	1.40	.58	.19	.09	.09
IN.	.53	1.65	3.39	1.80	1.58	3.68	2.61	1.61	.64	.21	.10	.10

CAL YR 1972 TOTAL 25,998.2 MEAN 71.0 MAX 1,510 MIN 4.5 CFSM 1.69 IN 23.08
WTR YR 1973 TOTAL 20,171.7 MEAN 55.3 MAX 650 MIN 1.9 CFSM 1.32 IN 17.91

PEAK DISCHARGE (BASE, 690 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1330	6.80	1,490	3-17	1400	6.62	1,400
2-2	1015	5.68	1,010				

STREAMS TRIBUTARY TO LAKE ONTARIO

04230500 OATKA CREEK AT GARBUTT, N.Y.

LOCATION.--Lat 43°00'36", long 77°47'30", Monroe County, 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.

DRAINAGE AREA.--204 mi² (528 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 560.89 ft (170.959 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--28 years, 200 ft³/s (5.664 m³/s) (13.31 in/yr (338.1 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 3,450 ft³/s (97.7 m³/s) Mar. 18 (gage height, 6.63 ft (2.021 m)); minimum, 23 ft³/s (0.65 m³/s) Sept. 30 (gage height, 2.25 ft (0.686 m)).

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.

REMARKS.--Records good.

REVISIONS.--WRD N.Y. 1966: Drainage area. WRD N.Y. 1971: 1960(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	128	380	830	221	150	455	355	313	77	45	31
2	65	122	345	953	300	164	689	287	278	72	44	31
3	63	174	341	721	781	221	975	270	233	69	42	31
4	53	283	439	582	930	879	938	295	199	67	41	30
5	47	249	411	663	669	1,500	1,610	309	170	65	39	31
6	49	184	650	528	417	1,220	1,830	283	157	63	39	41
7	74	153	1,280	365	341	851	1,430	241	241	67	39	33
8	157	203	1,530	300	332	689	1,160	214	203	63	37	30
9	147	411	1,040	270	300	534	795	210	160	59	37	30
10	94	439	708	237	241	444	606	206	128	53	37	29
11	69	355	582	221	237	439	528	217	111	53	41	29
12	61	313	494	214	221	483	477	257	105	51	37	28
13	59	295	606	210	206	472	439	245	102	49	37	28
14	55	295	823	210	195	522	390	233	91	49	36	28
15	59	365	865	206	195	923	355	206	89	49	37	28
16	55	380	522	203	177	930	327	191	89	49	36	29
17	51	360	332	210	177	1,270	304	181	89	49	36	28
18	51	322	304	241	181	3,270	283	167	94	49	37	31
19	51	295	350	318	170	2,170	270	164	97	49	37	29
20	51	291	395	370	174	1,110	261	160	94	49	36	28
21	49	327	400	313	174	851	249	341	102	49	36	27
22	53	318	483	265	174	721	233	540	144	47	36	27
23	63	283	747	274	170	637	221	522	210	45	34	27
24	86	265	960	309	170	669	217	332	144	45	34	27
25	113	261	990	265	164	734	210	257	108	48	34	27
26	99	313	886	237	160	747	199	241	94	54	33	26
27	86	558	774	245	150	689	210	283	84	60	39	26
28	79	637	637	253	144	582	370	261	79	50	34	24
29	84	564	499	253	-----	472	528	249	89	48	33	26
30	99	455	444	225	-----	439	510	257	81	46	31	24
31	160	-----	522	206	-----	450	-----	265	-----	45	31	-----
TOTAL	2,339	9,598	19,739	10,697	7,771	25,232	17,069	8,239	4,178	1,688	1,145	864
MEAN	75.5	320	637	345	278	814	569	266	139	54.5	36.9	28.8
MAX	160	637	1,530	953	930	3,270	1,830	540	313	77	45	41
MIN	47	122	304	203	144	150	199	160	79	45	31	24
CFSM	.37	1.57	3.12	1.69	1.36	3.99	2.79	1.30	.68	.27	.18	.14
IN.	.43	1.75	3.60	1.95	1.42	4.60	3.11	1.50	.76	.31	.21	.16

CAL YR 1972 TOTAL 121,116 MEAN 331 MAX 3,170 MIN 40 CFSM 1.62 IN 22.09
WTR YR 1973 TOTAL 108,559 MEAN 297 MAX 3,270 MIN 24 CFSM 1.46 IN 19.80

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-8	0830	5.07	1,630	3-18	1645	6.63	3,450
3-5	1730	5.03	1,590	4-6	0530	5.43	1,980

STREAMS TRIBUTARY TO LAKE ONTARIO

209

04231000 BLACK CREEK AT CHURCHVILLE, N.Y.

LOCATION.--Lat 43°06'02", long 77°52'57", Monroe County, on right bank at east end of Carrol 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).

AVERAGE DISCHARGE.--28 years, 109 ft³/s (3.087 m³/s) (12.03 in/yr (305.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 1,660 ft³/s (47.0 m³/s) Mar. 18 (gage height, 6.49 ft (1.978 m)); minimum, 7.8 ft³/s (0.22 m³/s) Sept. 8, 9 (gage height, 1.36 ft (0.415 m)).

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.

REMARKS.--Records fair. Prior to May 1952, small diversion by Penn Central Transportation Co. and slight regulation by pumping operations upstream from station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	57	280	573	110	82	226	235	213	48	20	16
2	51	62	210	608	190	92	429	200	190	37	22	13
3	37	93	200	340	545	122	755	196	172	31	20	11
4	27	93	200	350	695	329	775	188	155	28	17	11
5	23	78	202	320	403	842	1,040	178	119	28	15	12
6	25	65	397	250	237	1,010	1,230	159	100	27	13	12
7	64	57	540	230	202	632	747	141	122	24	11	11
8	85	157	905	190	180	455	538	132	194	22	10	9.8
9	65	351	735	120	120	324	351	139	192	18	10	11
10	46	390	436	100	90	255	275	146	112	16	11	20
11	37	337	324	68	90	243	241	150	75	16	12	21
12	33	232	263	64	88	286	219	157	60	16	12	20
13	34	180	300	68	80	305	196	161	60	16	11	19
14	33	182	485	79	74	332	174	144	49	16	11	16
15	29	198	524	79	72	590	161	134	42	20	10	14
16	27	235	240	84	66	639	152	127	44	21	9.3	13
17	24	248	220	98	72	874	143	120	58	19	8.8	11
18	22	221	220	137	78	1,480	144	116	81	18	9.3	14
19	22	188	190	174	78	1,120	157	108	109	16	9.8	15
20	22	168	241	184	84	646	153	103	100	16	9.3	14
21	22	159	263	120	85	449	143	174	174	17	11	12
22	26	159	340	134	88	357	135	235	283	19	12	13
23	45	152	465	161	88	313	130	263	200	16	12	15
24	67	141	678	168	88	321	128	190	101	14	12	16
25	64	137	678	143	88	384	120	137	68	13	11	14
26	54	204	601	134	86	384	116	117	51	19	10	13
27	44	393	510	130	76	310	125	122	44	32	13	12
28	37	678	409	120	72	243	232	148	60	28	15	11
29	46	639	283	110	-----	198	335	204	108	23	14	11
30	69	419	258	92	-----	180	318	243	65	21	15	9.3
31	69	-----	321	100	-----	190	-----	219	-----	18	12	-----
TOTAL	1,311	6,673	11,918	5,528	4,225	13,987	9,888	5,086	3,401	673	388.5	410.1
MEAN	42.3	222	384	178	151	451	330	164	113	21.7	12.5	13.7
MAX	85	678	905	608	695	1,480	1,230	263	283	48	22	21
MIN	22	57	190	64	66	82	116	103	42	13	8.8	9.3
CFSM	.34	1.80	3.12	1.45	1.23	3.67	2.68	1.33	.92	.18	.10	.11
IN.	.40	2.02	3.60	1.67	1.28	4.23	2.99	1.54	1.03	.20	.12	.12

CAL YR 1972 TOTAL 67,312.0 MEAN 184 MAX 1,130 MIN 12 CFSM 1.50 IN 20.36
WTR YR 1973 TOTAL 63,488.6 MEAN 174 MAX 1,480 MIN 8.8 CFSM 1.41 IN 19.20

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-8	1230	4.93	965	3-18	1700	6.49	1,660
3-6	0100	5.35	1,180	4-6	0300	5.77	1,400

STREAMS TRIBUTARY TO LAKE ONTARIO

04232000 GENESEE RIVER AT ROCHESTER, N.Y.

LOCATION.--Lat 43°10'50", long 77°37'40", Monroe County, 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.

DRAINAGE AREA.--2,457 mi² (6,364 km²).

PERIOD OF RECORD.--April 1904 to September 1918, December 1919 to current year. Published as "at Driving Park Avenue" 1919-68.

GAGE.--Water-stage recorder. Datum of gage is 246.24 ft (75.054 m) above mean sea level (formerly published as 247 ft (75 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 ft (76 m), Barge Canal datum.

AVERAGE DISCHARGE.--66 years (1905-18, 1920-73), 2,712 ft³/s (76.80 m³/s) (14.99 in/yr (380.7 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 18,000 ft³/s (510 m³/s) Mar. 18 (gage height, 12.58 ft (3.834 m)); minimum, 254 ft³/s (7.19 m³/s) Sept. 30 (gage height, 1.13 ft (0.344 m), result of regulation).

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.

Maximum discharge known, about 54,000 ft³/s (1,530 m³/s) Mar. 18, 1865.

REMARKS.--Records good except those below 1,000 ft³/s (28.3 m³/s) which are 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. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,440	2,780	5,670	9,360	1,710	1,450	6,650	5,360	3,520	1,560	875	635
2	2,120	3,200	5,490	9,050	2,920	1,550	8,790	4,480	4,070	1,520	835	627
3	1,880	3,510	5,190	8,260	6,770	2,320	10,600	3,830	4,190	1,300	775	671
4	1,390	5,200	5,330	8,250	8,800	6,960	9,240	3,800	3,940	1,400	835	689
5	929	4,570	5,260	8,440	8,070	12,200	13,500	4,030	3,770	1,200	770	680
6	1,230	3,400	7,070	6,730	7,170	9,190	11,400	3,880	3,990	1,380	766	820
7	1,420	2,890	11,300	4,480	6,550	8,170	10,400	3,700	4,190	1,150	770	1,100
8	2,300	3,950	10,300	2,860	4,880	6,440	7,600	3,350	4,130	1,340	712	1,750
9	2,930	6,210	8,900	2,470	3,340	5,920	6,260	3,050	3,950	1,320	703	1,060
10	2,600	7,330	8,200	3,670	2,790	6,680	5,370	3,210	3,610	1,050	622	698
11	2,460	5,520	7,290	3,190	2,140	6,950	5,010	3,380	2,670	1,050	671	748
12	2,050	4,450	6,680	2,560	2,110	7,030	5,100	4,200	2,340	1,040	635	698
13	1,700	4,400	7,620	2,680	1,790	6,620	5,350	4,360	2,080	1,100	635	531
14	1,320	4,100	8,520	2,530	1,610	6,950	5,440	4,290	2,330	996	619	555
15	1,070	5,040	8,470	2,900	1,850	9,230	5,700	4,060	2,620	1,000	575	535
16	1,220	6,040	7,790	2,990	1,880	7,740	6,190	3,500	2,330	931	507	539
17	1,280	5,310	6,270	2,860	1,620	10,500	6,210	3,210	1,940	992	635	608
18	1,100	4,540	6,740	3,080	1,330	17,400	5,900	3,110	2,050	905	725	673
19	1,080	4,030	7,210	3,520	1,480	12,900	5,640	3,360	1,950	932	603	515
20	1,010	4,130	7,630	3,790	1,500	7,900	4,800	3,200	2,220	895	980	513
21	1,120	3,820	7,910	3,420	1,840	6,680	4,190	4,230	2,240	980	1,150	536
22	1,100	3,690	8,770	3,130	1,770	7,170	4,010	7,260	3,110	855	619	912
23	1,120	3,390	10,900	3,210	1,730	8,400	3,220	7,050	3,280	810	644	645
24	1,290	3,790	11,100	3,850	1,590	9,350	3,840	5,850	2,800	835	752	698
25	1,950	3,270	10,600	3,480	1,610	9,680	3,090	5,180	1,940	761	680	859
26	1,900	3,640	9,930	2,590	1,510	9,510	2,830	4,570	1,890	1,020	689	1,580
27	1,830	6,800	9,590	2,190	1,390	8,920	2,790	4,160	1,590	910	974	1,210
28	1,760	6,860	9,430	2,270	1,300	8,340	3,860	3,800	1,570	860	790	886
29	1,770	6,200	8,720	2,650	-----	7,650	5,700	3,200	1,570	926	707	689
30	1,820	5,840	8,420	2,260	-----	7,100	5,760	2,490	1,700	790	795	680
31	1,760	-----	8,650	1,850	-----	6,900	-----	2,860	-----	986	694	-----
TOTAL	49,949	137,900	250,950	124,570	83,050	243,800	184,440	126,010	83,580	32,794	22,742	23,340
MEAN	1,611	4,597	8,095	4,018	2,966	7,865	6,148	4,065	2,786	1,058	734	778
MAX	2,930	7,330	11,300	9,360	8,800	17,400	13,500	7,260	4,190	1,560	1,150	1,750
MIN	929	2,780	5,190	1,850	1,300	1,450	2,790	2,490	1,570	761	507	513

CAL YR 1972 TOTAL 1,737,041 MEAN 4,746 MAX 24,900 MIN 479
WTR YR 1973 TOTAL 1,363,125 MEAN 3,735 MAX 17,400 MIN 507

04232050 ALLEN CREEK NEAR ROCHESTER, N.Y.

LOCATION.--Lat 43°07'49", long 77°31'08", Monroe County, on right bank 525 ft (160 m) downstream from Penn Central Transportation Co. bridge, near Rochester, 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.

GAGE.--Water-stage recorder. Datum of gage is 323.54 ft (98.615 m) above mean sea level.

AVERAGE DISCHARGE.--13 years (1960-73), 30.8 ft³/s (0.872 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,630 ft³/s (46.2 m³/s) Mar. 17 (gage height, 4.98 ft (1.518 m)) from rating curve extended above 400 ft³/s (11.3 m³/s); minimum discharge, 8.8 ft³/s (0.25 m³/s) Jan. 13, Sept. 24; minimum gage height, 2.05 ft (0.625 m) Jan. 13.

Period of record: Maximum discharge, 5,040 ft³/s (143 m³/s) Mar. 30, 1960 (gage height, 6.06 ft (1.847 m)), from rating curve extended above 1,300 ft³/s (36.8 m³/s); minimum daily, 1.7 ft³/s (0.048 m³/s) Jan. 24, 1963; minimum gage height, 1.16 ft (0.354 m) Feb. 19, 1962.

REMARKS.--Records good except those for winter periods, which are fair. Discharge includes undetermined diversion from Erie (Barge) Canal upstream from station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	33	53	78	15	15	34	45	48	29	33	33
2	27	63	49	39	50	26	140	44	43	27	27	30
3	24	68	73	35	208	54	172	64	38	27	25	27
4	22	45	54	132	65	424	215	51	39	27	26	24
5	21	40	50	53	42	140	431	43	36	29	25	25
6	31	35	310	28	25	70	95	39	47	27	25	27
7	55	35	86	18	25	50	58	37	43	25	25	24
8	31	417	46	16	30	35	39	36	35	25	24	22
9	27	466	56	14	22	26	30	38	33	24	24	29
10	24	100	68	12	20	28	45	39	31	24	24	35
11	23	70	46	10	15	43	39	44	31	24	30	42
12	27	55	33	9.6	15	46	30	41	33	24	27	40
13	25	46	74	9.2	15	30	24	37	32	24	25	37
14	24	90	43	9.2	13	223	20	34	30	26	25	30
15	25	95	32	9.6	12	107	19	34	30	35	30	27
16	23	83	25	10	10	48	16	33	34	20	26	23
17	23	67	21	12	10	536	15	33	34	13	25	30
18	23	55	23	17	10	235	15	33	63	12	27	34
19	26	51	29	18	12	73	17	32	36	12	27	25
20	23	59	53	17	13	58	14	43	47	15	26	22
21	24	55	47	12	16	49	25	140	68	30	30	21
22	28	50	175	14	20	40	29	67	45	26	33	26
23	67	49	115	23	16	38	27	48	36	25	29	23
24	64	49	84	17	16	40	26	44	32	25	27	19
25	40	53	63	15	15	34	25	41	30	26	25	22
26	33	386	61	14	14	30	24	42	30	35	28	21
27	30	212	50	15	13	23	80	41	29	35	31	21
28	32	111	40	17	14	20	130	46	31	27	33	21
29	58	69	28	16	-----	19	64	48	41	26	29	21
30	48	53	35	15	-----	25	46	42	31	25	26	21
31	36	-----	77	13	-----	24	-----	71	-----	25	30	-----
TOTAL	1,002	3,060	1,999	717.6	751	2,609	1,944	1,430	1,136	774	847	802
MEAN	32.3	102	64.5	23.1	26.8	84.2	64.8	46.1	37.9	25.0	27.3	26.7
MAX	67	466	310	132	208	536	431	140	68	35	33	42
MIN	21	33	21	9.2	10	15	14	32	29	12	24	19
CAL YR 1972	TOTAL 18,013.4	MEAN 49.2	MAX 760	MIN 5.0								
WTR YR 1973	TOTAL 17,071.6	MEAN 46.8	MAX 536	MIN 9.2								

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	0730	4.28	710	3-14	1645	4.12	560
11-26	1545	4.15	605	3-17	1515	4.98	1,630
12-6	1330	4.14	596	4-5	0130	4.52	984
3-4	1915	4.26	710				

STREAMS TRIBUTARY TO LAKE ONTARIO

04232100 STERLING CREEK AT STERLING, N.Y.

LOCATION.--Lat 43°19'31", long 76°38'51", Cayuga County, 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.

AVERAGE DISCHARGE.--16 years, 61.3 ft³/s (1.736 m³/s) (18.75 in/yr (476.2 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 800 ft³/s (22.7 m³/s) Apr. 5 (gage height, 4.20 ft (1.280 m)); minimum, 0.65 ft³/s (0.018 m³/s) Sept. 15 (gage height, 1.57 ft (0.479 m)).

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)).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	36	138	325	140	34	133	88	48	26	5.6	2.7
2	23	43	113	303	150	38	382	83	47	23	6.6	2.4
3	16	65	107	222	400	52	539	106	44	21	6.1	2.1
4	14	66	90	225	300	258	562	108	41	18	5.5	2.1
5	12	68	87	192	200	352	766	104	41	16	4.9	3.5
6	12	55	204	160	130	450	601	90	39	14	4.4	4.4
7	30	49	250	110	100	363	386	76	43	12	4.5	3.5
8	26	168	270	84	90	273	222	65	38	11	3.9	3.5
9	18	390	220	70	80	181	153	70	33	9.4	3.3	2.4
10	15	265	180	56	70	148	144	74	29	8.3	4.3	1.8
11	13	219	160	50	60	120	144	88	26	7.5	8.4	1.5
12	13	171	140	46	54	136	129	95	24	6.8	9.5	1.2
13	12	100	130	44	50	129	100	95	43	6.8	6.6	1.2
14	13	107	110	44	45	138	89	80	45	6.5	4.7	.90
15	12	113	100	38	40	176	77	70	34	6.1	4.6	.72
16	13	102	94	40	38	173	58	62	33	5.9	6.2	.80
17	12	92	90	42	41	325	57	62	34	5.8	5.3	.90
18	15	80	86	59	41	422	57	68	31	5.6	6.1	1.8
19	15	73	84	136	40	348	74	69	33	4.9	4.6	3.0
20	13	78	98	195	40	265	66	63	30	4.5	4.3	4.0
21	12	76	100	207	38	195	59	91	28	5.2	4.2	2.4
22	12	71	156	153	38	153	58	87	31	4.9	4.2	2.7
23	60	66	195	190	37	135	59	73	29	4.6	4.2	2.4
24	73	63	216	170	36	121	59	64	28	4.4	4.1	2.1
25	36	63	219	140	36	103	48	58	30	4.2	4.2	1.8
26	81	261	230	120	36	91	44	51	29	4.1	3.7	2.1
27	51	336	200	110	35	79	65	52	25	4.8	3.0	2.1
28	22	277	170	110	34	70	178	48	20	5.0	3.5	2.1
29	37	235	150	110	-----	48	142	53	24	5.6	3.5	2.1
30	47	179	140	120	-----	57	106	48	25	5.2	3.0	2.1
31	42	-----	181	130	-----	55	-----	50	-----	5.4	2.7	-----
TOTAL	803	3,967	4,708	4,001	2,399	5,488	5,557	2,291	1,005	272.5	149.7	66.32
MEAN	25.9	132	152	129	85.7	177	185	73.9	33.5	8.79	4.83	2.21
MAX	81	390	270	325	400	450	766	108	48	26	9.5	4.4
MIN	12	36	84	38	34	34	44	48	20	4.1	2.7	.72
CFSM	.58	2.97	3.42	2.91	1.93	3.99	4.17	1.66	.75	.20	.11	.05
IN.	.67	3.32	3.94	3.35	2.01	4.60	4.66	1.92	.84	.23	.13	.06

CAL YR 1972 TOTAL 36,557.90 MEAN 99.9 MAX 588 MIN 4.8 CFSM 2.25 IN 30.63
WTR YR 1973 TOTAL 30,707.52 MEAN 84.1 MAX 766 MIN .72 CFSM 1.89 IN 25.73

PEAK DISCHARGE (BASE, 630 CFS).-- April 5 (1400) 800 cfs (4.20 ft).

213

LOCATION.--Lat 42°23'00", long 76°52'05", Schuyler County, on east bank about 300 ft (91 m) from lake on shorter of two boat slips at Watkins Glen.

PERIOD OF RECORD.--October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 438.41 ft (133.627 m) above mean sea level (440.00 ft (134.112 m) Barge Canal datum).

EXTREMES.--Current year: Maximum gage height, 8.06 ft (2.457 m) Dec. 11; minimum 5.42 ft (1.652 m) Feb. 14.
Period of record: Maximum gage height, 10.47 ft (3.191 m) June 25, 1972; minimum daily, 4.48 ft (1.366 m) Jan. 5, 1962.

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.

REVISIONS.--WRD N.Y. 1970: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.62	6.33	7.33	7.58	5.57	5.51	6.77	7.21	6.86	6.72	6.46	6.00
2	6.53	6.35	7.37	7.55	5.60	5.55	6.96	7.22	6.90	6.70	6.45	6.04
3	6.55	6.46	7.41	7.47	5.88	5.57	7.10	7.23	6.91	6.72	6.48	6.00
4	6.55	6.52	7.48	7.42	5.89	5.73	7.19	7.21	6.92	6.72	6.42	6.02
5	6.52	6.54	7.47	7.41	5.91	5.84	7.57	7.19	6.96	6.76	6.40	5.95
6	6.56	6.51	7.63	7.37	5.83	5.87	7.62	7.15	7.08	6.73	6.32	6.03
7	6.67	6.44	7.93	7.28	5.77	5.90	7.63	7.11	7.13	6.64	6.32	6.07
8	6.64	6.55	7.92	7.17	5.77	5.93	7.60	7.04	7.11	6.63	6.32	6.01
9	6.60	6.91	7.97	7.06	5.72	5.92	7.52	7.02	7.08	6.65	6.28	6.03
10	6.62	6.93	8.00	6.97	5.65	5.87	7.47	6.99	7.07	6.62	6.32	5.95
11	6.51	6.90	8.02	6.88	5.60	5.85	7.45	6.98	7.06	6.68	6.29	5.91
12	6.49	6.89	7.96	6.81	5.51	5.89	7.39	6.97	7.02	6.64	6.32	5.94
13	6.51	6.88	7.97	6.74	5.46	5.89	7.33	6.96	7.04	6.54	6.29	5.87
14	6.42	7.03	7.95	6.67	5.46	5.88	7.27	6.93	7.04	6.56	6.22	5.88
15	6.41	7.17	7.91	6.61	5.51	5.96	7.21	6.90	7.02	6.61	6.27	5.90
16	6.38	7.16	7.87	6.42	5.53	6.03	7.16	6.84	6.97	6.57	6.29	5.87
17	6.37	7.13	7.81	6.21	5.50	6.15	7.16	6.85	7.01	6.62	6.20	5.84
18	6.37	7.08	7.68	6.19	5.47	6.41	7.12	6.82	7.03	6.58	6.23	5.78
19	6.38	7.06	7.62	6.16	5.48	6.53	7.09	6.82	6.97	6.53	6.22	5.84
20	6.32	7.11	7.59	6.15	5.49	6.57	7.07	6.90	6.91	6.55	6.18	5.75
21	6.28	7.07	7.52	6.14	5.50	6.60	7.03	7.04	6.90	6.58	6.18	5.78
22	6.25	7.03	7.63	6.13	5.51	6.63	7.03	7.09	6.89	6.59	6.22	5.68
23	6.27	7.02	7.78	6.12	5.49	6.63	7.04	7.07	6.87	6.55	6.15	5.74
24	6.36	7.03	7.81	6.13	5.50	6.61	7.04	7.05	6.85	6.51	6.13	5.80
25	6.37	7.04	7.82	6.05	5.52	6.62	7.02	7.03	6.86	6.46	6.09	5.72
26	6.33	7.18	7.81	5.99	5.55	6.68	7.01	6.99	6.80	6.47	6.08	5.66
27	6.30	7.32	7.79	5.93	5.54	6.70	7.05	6.96	6.72	6.47	6.07	5.72
28	6.32	7.37	7.77	5.87	5.53	6.67	7.15	6.92	6.68	6.45	6.09	5.74
29	6.39	7.38	7.70	5.88	-----	6.66	7.22	6.92	6.73	6.49	6.08	5.70
30	6.41	7.35	7.58	5.73	-----	6.69	7.23	6.90	6.74	6.48	6.02	5.72
31	6.39	-----	7.56	5.71	-----	6.69	-----	6.90	-----	6.43	6.03	-----
MEAN	6.44	6.92	7.73	6.57	5.60	6.19	7.22	7.01	6.94	6.59	6.24	5.86
MAX	6.67	7.38	8.02	7.58	5.91	6.70	7.63	7.23	7.13	6.76	6.48	6.07
MIN	6.25	6.33	7.33	5.71	5.46	5.51	6					

STREAMS TRIBUTARY TO LAKE ONTARIO

04232450 KEUKA LAKE AT HAMMONDSPORT, N.Y.

LOCATION.--Lat 42°24'22", long 77°13'08", Steuben County, on left bank of Keuka Inlet at end of Liberty Steet 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.

GAGE.--Water-stage recorder. Datum of gage is 710.00 ft (216.408 m) above mean sea level.

EXTREMES.--Current year: Maximum gage height, 5.38 ft (1.640 m) Apr. 7; minimum, 3.05 ft (0.930 m) Nov. 7.
Period of record: Maximum gage height, 9.35 ft (2.850 m) June 24, 1972; minimum daily, 1.40 ft (0.427 m) Feb. 2, 3, 1961.

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.

REVISIONS.--WRD N.Y. 1968: Drainage area.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.19	3.15	3.73	5.27	3.99	3.70	3.09	4.82	4.50	3.94	3.82	3.56
2	3.19	3.17	3.74	5.27	4.04	3.70	3.21	4.78	4.52	3.95	3.82	3.59
3	3.18	3.22	3.75	5.24	4.29	3.70	3.28	4.76	4.51	3.94	3.80	3.67
4	3.17	3.21	3.78	5.23	4.33	3.90	3.36	4.74	4.49	3.96	3.79	3.70
5	3.17	3.18	3.80	5.23	4.34	4.12	3.73	4.71	4.49	3.98	3.77	3.70
6	3.18	3.14	4.08	5.19	4.30	4.27	3.81	4.68	4.49	3.97	3.75	3.82
7	3.31	3.10	4.53	5.13	4.29	4.35	3.84	4.63	4.51	3.95	3.75	3.81
8	3.28	3.19	4.55	5.05	4.30	4.42	3.83	4.58	4.22	3.94	3.73	3.79
9	3.28	3.42	4.59	4.98	4.28	4.48	3.79	4.54	4.20	3.94	3.72	3.77
10	3.28	3.45	4.64	4.90	4.26	4.45	3.77	4.51	4.19	3.93	3.73	3.73
11	3.24	3.45	4.67	4.90	4.22	4.44	3.75	4.50	4.16	3.94	3.72	3.70
12	3.23	3.46	4.66	4.85	4.11	4.46	3.75	4.50	4.15	3.91	3.71	3.69
13	3.25	3.44	4.67	4.75	4.05	4.46	4.99	4.46	4.16	3.90	3.70	3.67
14	3.21	3.55	4.71	4.70	4.05	4.47	4.94	4.43	4.15	3.90	3.67	3.67
15	3.22	3.58	4.71	4.60	4.04	4.56	4.89	4.39	4.13	3.92	3.69	3.68
16	3.17	3.58	4.70	4.54	4.04	4.60	4.84	4.33	4.11	3.94	3.68	3.67
17	3.18	3.57	4.69	4.51	4.04	4.72	4.80	4.31	4.12	3.93	3.65	3.63
18	3.18	3.56	4.65	4.47	4.04	4.90	4.76	4.28	4.10	3.91	3.66	3.61
19	3.19	3.55	4.63	4.42	4.04	4.92	4.71	4.27	4.09	3.89	3.66	3.63
20	3.16	3.56	4.63	4.39	4.00	4.91	4.66	4.31	4.05	3.85	3.64	3.61
21	3.13	3.55	4.62	4.33	3.95	4.90	4.61	4.45	4.05	3.88	3.63	3.60
22	3.12	3.53	4.78	4.28	3.95	4.88	4.55	4.53	4.06	3.88	3.63	3.56
23	3.15	3.49	4.98	4.28	3.90	4.84	4.51	4.54	4.04	3.87	3.59	3.67
24	3.17	3.46	5.07	4.25	3.85	4.80	4.46	4.54	4.01	3.84	3.58	3.66
25	3.17	3.43	5.13	4.21	3.80	4.77	4.41	4.54	4.00	3.82	3.56	3.64
26	3.15	3.52	5.18	4.18	3.80	4.77	4.36	4.52	3.93	3.80	3.55	3.62
27	3.15	3.57	5.21	4.15	3.75	4.74	4.53	4.51	3.92	3.81	3.55	3.61
28	3.15	3.61	5.21	4.12	3.70	3.19	4.90	4.50	3.92	3.82	3.57	3.63
29	3.19	3.73	5.20	4.12	-----	3.14	4.90	4.49	3.94	3.85	3.56	3.61
30	3.19	3.73	5.15	4.05	-----	3.12	4.87	4.50	3.94	3.83	3.55	3.60
31	3.18	-----	5.18	4.06	-----	3.09	-----	4.52	-----	3.81	3.54	-----
MEAN	3.19	3.44	4.63	4.63	4.06	4.32	4.31	4.52	4.17	3.90	3.67	3.66
MAX	3.31	3.73	5.21	5.27	4.34	4.92	5.19	4.82	4.52	3.98	3.82	3.82
MIN	3.12	3.10	3.73	4.05	3.70	3.09	3.09	4.27	3.92	3.80	3.54	3.56
CAL YR 1972	MEAN 4.32		MAX 9.33		MIN 2.25							
WTR YR 1973	MEAN 4.04		MAX 5.27		MIN 3.09							

STREAMS TRIBUTARY TO LAKE ONTARIO

215

04232482 KEUKA LAKE OUTLET AT DRESDEN, N.Y.

LOCATION.--Lat 42°40'49", long 76°57'15", Yates County, on right bank at upstream side of bridge on Milo Street in Dresden, and 0.4 mi (0.6 km) upstream from mouth.

DRAINAGE AREA.--207 mi² (536 km²).

PERIOD OF RECORD.--April 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 446.67 ft (136.145 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 197 ft³/s (5.579 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,270 ft³/s (64.3 m³/s) Dec. 6 (gage height, 5.48 ft (1.670 m)); minimum, 19 ft³/s (0.54 m³/s) Aug. 31.

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.

REMARKS.--Records fair except those for October, 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 sta 01528700.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	95	289	515	350	100	435	420	255	47	47	30
2	46	106	280	494	498	110	528	427	255	46	47	23
3	45	154	296	506	458	192	502	447	255	46	42	23
4	44	261	283	519	389	292	815	439	258	46	24	21
5	42	258	289	528	382	200	775	431	261	46	23	27
6	42	252	950	498	371	200	551	416	280	46	23	50
7	54	249	528	482	371	175	528	389	270	44	23	52
8	46	447	462	470	375	168	510	375	258	44	29	48
9	43	435	486	466	368	241	498	371	258	43	30	47
10	41	296	510	470	364	451	498	371	255	44	31	47
11	38	289	482	470	368	454	490	371	255	44	30	47
12	36	280	462	470	343	470	486	364	258	42	30	46
13	36	264	490	454	336	451	474	364	258	41	29	46
14	34	371	470	443	340	528	466	357	246	40	30	48
15	33	326	454	435	350	510	454	354	241	41	30	47
16	31	302	451	416	340	482	458	350	241	41	27	47
17	31	286	427	401	320	700	470	312	235	41	26	46
18	31	274	431	397	300	551	466	246	246	41	28	47
19	31	270	427	389	280	506	458	244	241	41	26	46
20	30	274	431	379	280	502	454	264	235	41	26	46
21	29	267	431	371	300	494	451	329	238	42	27	44
22	80	267	745	371	280	482	447	286	238	41	26	46
23	76	264	630	375	260	474	439	270	232	64	26	46
24	72	261	582	368	250	470	427	270	229	49	26	46
25	68	261	551	368	250	466	416	267	150	47	26	46
26	64	506	528	364	200	462	408	264	55	48	26	46
27	62	389	524	361	100	451	364	264	49	48	23	46
28	62	336	502	364	100	447	462	264	48	49	23	46
29	70	309	478	364	-----	439	439	261	49	47	20	44
30	80	289	474	360	-----	435	431	255	48	47	20	44
31	102	-----	482	350	-----	423	-----	261	-----	46	25	-----
TOTAL	1,546	8,638	14,825	13,218	8,923	12,326	14,600	10,303	6,397	1,393	869	1,288
MEAN	49.9	288	478	426	319	398	487	332	213	44.9	28.0	42.9
MAX	102	506	950	528	498	700	815	447	280	64	47	52
MIN	29	95	280	350	100	100	364	244	48	40	20	21
CAL YR 1972	TOTAL	144,637	MEAN	395	MAX	2,200	MIN	29				
WTR YR 1973	TOTAL	94,326	MEAN	258	MAX	950	MIN	20				

STREAMS TRIBUTARY TO LAKE ONTARIO

04233000 CAYUGA INLET NEAR ITHACA, N.Y.

LOCATION.--Lat 42°23'35", long 76°32'43", Tompkins County, 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.

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).

AVERAGE DISCHARGE.--36 years, 38.1 ft³/s (1.079 m³/s) (14.70 in/yr (373.4 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 1,010 ft³/s (28.6 m³/s) Dec. 6 (gage height, 3.57 ft (1.088 m)); minimum, 4.0 ft³/s (0.11 m³/s) Sept. 5 (gage height, 0.54 ft (0.165 m)).

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.

REMARKS.--Records good.

REVISIONS: WRD N.Y. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	58	98	34	26	85	51	33	12	8.4	6.4
2	11	20	53	77	223	55	207	48	37	11	16	5.7
3	10	26	57	66	243	94	174	55	30	11	25	5.3
4	9.6	18	52	81	117	125	264	54	41	11	11	5.0
5	9.6	16	69	71	96	92	306	50	34	10	8.4	5.3
6	9.2	14	474	47	79	83	174	44	29	9.6	7.2	20
7	23	13	210	35	72	72	132	40	29	9.2	6.4	10
8	19	253	157	32	68	72	107	37	24	8.8	6.0	8.0
9	12	233	223	31	58	60	87	40	22	8.4	5.7	7.2
10	11	100	168	31	45	54	120	43	20	8.0	7.6	6.8
11	10	74	122	31	38	53	105	47	18	8.0	8.0	6.4
12	11	57	98	30	33	55	83	42	19	7.6	6.4	6.4
13	11	47	109	29	32	54	72	40	24	8.4	6.0	6.0
14	10	233	88	29	31	83	64	37	19	8.4	5.7	15
15	9.6	144	77	30	31	85	60	39	16	11	8.8	22
16	9.6	92	68	30	30	71	55	39	16	11	7.6	12
17	9.6	76	50	34	29	271	51	39	19	8.8	6.4	9.6
18	9.2	63	58	40	28	185	50	43	27	8.0	6.4	13
19	9.6	54	57	41	27	127	50	36	22	7.2	6.4	9.6
20	9.2	79	63	37	29	102	51	58	18	7.2	10	8.4
21	9.2	61	66	32	32	88	44	96	19	9.6	7.6	7.6
22	9.6	51	260	80	32	77	41	69	22	8.4	6.8	16
23	12	47	177	105	28	66	40	57	18	7.2	5.7	23
24	13	44	142	60	26	61	39	55	22	6.4	5.3	13
25	11	44	125	47	23	60	36	50	16	6.0	5.3	11
26	10	111	127	44	23	105	37	43	15	6.4	8.8	10
27	10	94	115	43	22	72	64	41	13	22	8.0	9.2
28	10	77	92	46	23	60	98	41	13	15	7.6	8.8
29	14	69	76	50	-----	55	66	40	16	35	6.4	8.4
30	14	58	74	37	-----	53	55	36	13	13	6.0	7.6
31	12	-----	92	35	-----	51	-----	39	-----	9.2	6.0	-----
TOTAL	350.0	2,279	3,657	1,479	1,552	2,567	2,817	1,449	664	322.8	246.9	302.7
MEAN	11.3	76.0	118	47.7	55.4	82.8	93.9	46.7	22.1	10.4	7.96	10.1
MAX	23	253	474	105	243	271	306	96	41	35	25	23
MIN	9.2	11	50	29	22	26	36	36	13	6.0	5.3	5.0
CFSM	.32	2.16	3.35	1.36	1.57	2.35	2.67	1.33	.63	.30	.23	.29
IN.	.37	2.41	3.86	1.56	1.64	2.71	2.98	1.53	.70	.34	.26	.32

CAL YR 1972 TOTAL 25,795.9 MEAN 70.5 MAX 1,690 MIN 8.6 CFSM 2.00 IN 27.26
WTR YR 1973 TOTAL 17,686.4 MEAN 48.5 MAX 474 MIN 5.0 CFSM 1.38 IN 18.69

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-6	1345	3.57	1,010	3-17	1330	3.10	770
2-2	2145	3.53	991	4-4	2115	3.13	785

LOCATION.--Lat 42°26'45", long 76°30'45", Tompkins County, 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.

GAGE.--Water-stage recorder. Dam of gage is 376.57 ft (114.779 m) above mean sea level (378.00 ft (115.214 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 2.0 ft (0.61 m) higher.

Period of record (1905-25 and since 1956): Maximum gage height, 9.76 ft (2.975 m) June 26, 1972; minimum daily, 1.07 ft (0.326 m) (present datum) Mar. 28, 1960.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.01	4.96	5.54	6.52	3.59	2.11	4.35	5.84	5.94	5.92	5.64	5.51
2	4.94	4.97	5.43	6.53	3.59	2.08	4.70	5.87	5.91	5.85	5.64	5.54
3	4.97	5.15	5.34	6.43	3.99	2.03	5.11	5.97	5.81	5.81	5.69	5.53
4	4.94	5.18	5.26	6.36	4.03	2.00	5.28	6.03	5.72	5.82	5.67	5.53
5	4.92	5.20	5.22	6.40	4.07	2.01	5.85	6.10	5.68	5.85	5.68	5.49
6	4.94	5.17	5.47	6.38	3.98	2.07	6.03	6.13	5.66	5.83	5.63	5.58
7	5.09	5.16	5.97	6.27	3.96	2.15	6.16	6.12	5.67	5.79	5.64	5.65
8	5.05	5.42	6.00	6.06	4.00	2.33	6.27	6.04	5.67	5.80	5.62	5.60
9	5.04	6.18	6.22	5.95	3.94	2.53	6.23	6.08	5.68	5.80	5.60	5.60
10	5.04	6.21	6.38	5.83	3.85	2.62	6.25	6.07	5.68	5.81	5.63	5.52
11	4.89	6.17	6.47	5.69	3.78	2.72	6.36	6.10	5.64	5.89	5.65	5.51
12	4.95	6.18	6.39	5.55	3.68	2.95	6.32	6.09	5.63	5.84	5.69	5.52
13	5.07	6.14	6.45	5.37	3.54	3.12	6.30	6.11	5.68	5.68	5.59	5.46
14	5.03	6.25	6.50	5.22	3.35	3.21	6.18	6.10	5.74	5.74	5.58	5.49
15	5.08	6.44	6.50	5.11	3.23	3.42	6.05	6.08	5.74	5.74	5.63	5.57
16	4.99	6.34	6.55	4.93	3.26	3.60	5.92	6.02	5.74	5.72	5.65	5.55
17	5.03	6.25	6.53	4.79	3.04	3.85	5.93	6.04	5.80	5.76	5.58	5.40
18	4.98	6.20	6.34	4.67	2.82	4.47	5.87	6.02	5.78	5.70	5.59	5.45
19	5.03	6.12	6.27	4.57	2.64	4.62	5.82	5.94	5.83	5.67	5.60	5.48
20	4.97	6.15	6.22	4.58	2.49	4.68	5.81	5.90	5.88	5.67	5.56	5.41
21	4.91	6.09	6.10	4.40	2.39	4.70	5.76	5.99	5.97	5.70	5.53	5.43
22	4.89	6.00	6.23	4.27	2.32	4.75	5.77	6.03	6.01	5.73	5.64	5.28
23	4.92	5.84	6.41	4.32	2.21	4.71	5.76	6.03	6.01	5.72	5.53	5.39
24	5.03	5.68	6.48	4.31	2.18	4.61	5.78	6.04	6.01	5.69	5.54	5.44
25	5.05	5.48	6.52	4.21	2.18	4.54	5.74	6.04	6.03	5.64	5.50	5.35
26	5.01	5.46	6.55	4.14	2.17	4.58	5.70	5.99	5.98	5.63	5.51	5.30
27	4.98	5.48	6.60	4.07	2.16	4.56	5.73	5.95	5.92	5.63	5.51	5.35
28	4.99	5.54	6.64	3.99	2.14	4.41	5.80	5.92	5.93	5.65	5.55	5.37
29	5.09	5.57	6.55	4.10	-----	4.32	5.86	5.96	6.04	5.72	5.53	5.36
30	5.10	5.53	6.40	3.85	-----	4.36	5.85	5.96	6.02	5.69	5.51	5.37
31	5.06	-----	6.41	3.81	-----	4.33	-----	5.97	-----	5.65	5.51	-----
MEAN	5.00	5.75	6.19	5.12	3.16	3.50	5.82	6.02	5.83	5.75	5.59	5.47
MAX	5.10	6.44	6.64	6.53	4.07	4.75	6.36	6.13	6.04	5.92	5.69	5.65
MIN	4.89	4.96	5.22	3.81	2.14	2.00	4.35	5.84	5.63	5.63	5.50	5.28</

STREAMS TRIBUTARY TO LAKE ONTARIO

04234000 FALL CREEK NEAR ITHACA, N.Y.

LOCATION.--Lat 42°27'12", long 76°28'23", Tompkins County, 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.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 794.81 ft (242.258 m) above mean sea level (levels by Corps of Engineers). July 1908 to June 1909, nonrecording gage at bridge 1.2 mi (1.9 km) downstream at different datum.

AVERAGE DISCHARGE.--48 years (1925-73), 182 ft³/s (5.154 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,840 ft³/s (80.4 m³/s) Dec. 6 (gage height, 4.35 ft (1.326 m)); minimum, 4.4 ft³/s (0.12 m³/s) Aug. 28 (gage height, 0.17 ft (0.052 m)); result of regulation; minimum daily, 14 ft³/s (0.40 m³/s) Sept. 5.

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.

REMARKS.--Records good except those for winter periods, which are fair. Diversion from point about 1 mi (2 km) above 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.

REVISIONS (WATER YEARS).--WSP 874: 1935-38. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	57	242	1,110	140	100	360	191	145	63	24	19
2	52	135	238	632	390	150	1,190	194	137	54	32	18
3	40	337	245	416	1,560	276	1,200	220	118	51	63	16
4	35	181	240	421	507	660	834	268	137	48	41	15
5	32	156	300	416	380	577	1,520	242	128	70	29	14
6	30	135	1,640	261	280	427	842	203	103	62	24	59
7	50	112	1,610	194	280	346	698	166	123	44	22	73
8	95	720	597	170	289	351	483	147	101	38	21	34
9	69	1,670	1,450	150	220	297	385	158	84	35	20	24
10	54	571	866	160	160	249	483	194	78	31	26	21
11	47	390	618	140	140	234	545	293	69	31	38	19
12	40	370	400	130	140	289	395	234	78	30	28	18
13	45	272	438	130	140	370	351	306	166	28	24	17
14	43	962	400	140	150	427	301	210	130	29	21	23
15	41	758	323	150	150	604	276	188	81	33	23	58
16	41	385	270	150	130	421	245	238	79	40	24	50
17	39	301	160	156	110	758	220	185	99	33	24	32
18	38	257	220	185	120	1,030	214	257	197	28	23	36
19	37	224	300	214	120	519	214	238	191	25	24	48
20	37	319	280	272	120	443	224	231	112	24	34	33
21	35	276	290	140	130	385	185	618	90	37	28	26
22	36	217	834	220	130	337	172	432	93	38	23	30
23	41	191	834	632	110	297	203	280	84	30	20	56
24	103	185	577	310	100	314	194	261	92	24	19	40
25	76	181	507	217	100	346	164	220	88	22	19	31
26	60	507	551	214	94	577	156	191	70	23	18	27
27	50	571	545	200	76	405	164	181	60	58	18	25
28	47	342	400	210	84	293	410	181	54	45	17	24
29	63	301	310	210	-----	257	355	185	90	36	18	22
30	97	234	306	140	-----	234	231	164	83	37	17	21
31	73	-----	735	170	-----	234	-----	175	-----	28	17	-----
TOTAL	1,632	11,317	16,726	8,260	6,350	12,207	13,214	7,251	3,160	1,175	779	929
MEAN	52.6	377	540	266	227	394	440	234	105	37.9	25.1	31.0
MAX	103	1,670	1,640	1,110	1,560	1,030	1,520	618	197	70	63	73
MIN	30	57	160	130	76	100	156	147	54	22	17	14
CFSM	.42	2.99	4.29	2.11	1.80	3.13	3.49	1.86	.83	.30	.20	.25
IN.	.48	3.34	4.94	2.44	1.87	3.60	3.90	2.14	.93	.35	.23	.27
CAL YR 1972	TOTAL	107,586	MEAN	294	MAX	3,890	MIN	23	CFSM	2.33	IN	31.76
WTR YR 1973	TOTAL	83,000	MEAN	227	MAX	1,670	MIN	14	CFSM	1.80	IN	24.50

PEAK DISCHARGE (BASE, 1,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	0100	4.12	2,510	2-3	0630	3.89	2,190
12-6	2400	4.35	2,840	4-5	0330	3.72	1,970

STREAMS TRIBUTARY TO LAKE ONTARIO

219

04234500 CANANDAIGUA LAKE AT CANANDAIGUA, N.Y.

LOCATION.--Lat 42°52'19", long 77°16'22", Ontario County, 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.

GAGE.--Water-stage recorder. Datum of gage is 681.17 ft (207.621 m) above mean sea level. Prior to June 26, 1946, nonrecording gage at E.T. Waldorf's boathouse at same datum.

EXTREMES.--Current year: Maximum gage height, 8.00 ft (2.438 m) Apr. 7; minimum, 5.88 ft (1.792 m) Mar. 1.
Period of record: Maximum gage height, 10.94 ft (3.335 m) June 24, 1972; minimum daily, 4.45 ft (1.356 m) Jan. 30, 1942.

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 3.2 ft (0.98 m) and 3.77 ft (1.149 m) respectively. Water diverted for municipal supply for village of Newark and Palmyra. Records of diversion in files of City of Canandaigua. Area of water surface 16.2 mi² (43.0 km²).

REVISIONS.--WRD N.Y. 1967: Drainage area. WRD N.Y. 1971.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.46	6.35	7.08	7.50	6.34	5.92	6.92	7.40	7.63	7.33	6.95	6.68
2	6.45	6.38	7.06	7.49	6.35	5.91	7.04	7.43	7.60	7.33	6.94	6.68
3	6.44	6.41	7.03	7.46	6.46	5.93	7.21	7.46	7.57	7.33	6.92	6.67
4	6.43	6.44	7.03	7.49	6.51	6.14	7.32	7.51	7.57	7.32	6.90	6.66
5	6.42	6.45	7.04	7.41	6.50	6.29	7.70	7.52	7.55	7.31	6.88	6.67
6	6.43	6.47	7.21	7.35	6.50	6.38	7.89	7.53	7.56	7.29	6.87	6.68
7	6.45	6.49	7.55	7.29	6.48	6.48	7.94	7.55	7.64	7.29	6.85	6.64
8	6.49	6.54	7.64	7.22	6.48	6.44	7.92	7.59	7.65	7.27	6.84	6.60
9	6.47	6.68	7.62	7.17	6.47	6.44	7.90	7.58	7.65	7.25	6.83	6.55
10	6.45	6.81	7.61	7.10	6.44	6.48	7.89	7.61	7.59	7.23	6.82	6.53
11	6.50	6.89	7.60	7.05	6.40	6.51	7.85	7.65	7.59	7.17	6.84	6.51
12	6.43	6.92	7.60	6.98	6.36	6.50	7.81	7.64	7.57	7.15	6.81	6.47
13	6.41	6.95	7.57	6.92	6.33	6.49	7.75	7.63	7.54	7.17	6.79	6.43
14	6.42	7.01	7.53	6.86	6.30	6.54	7.70	7.60	7.48	7.15	6.78	6.42
15	6.38	7.06	7.51	6.80	6.29	6.69	7.65	7.59	7.45	7.15	6.82	6.40
16	6.42	7.07	7.49	6.76	6.26	6.70	7.61	7.61	7.43	7.13	6.85	6.38
17	6.36	7.05	7.43	6.71	6.23	6.91	7.53	7.60	7.40	7.11	6.84	6.37
18	6.34	7.02	7.41	6.68	6.20	7.17	7.49	7.61	7.45	7.10	6.83	6.38
19	6.30	7.00	7.35	6.66	6.17	7.22	7.44	7.57	7.46	7.10	6.82	6.35
20	6.30	6.98	7.29	6.60	6.14	7.24	7.40	7.54	7.48	7.09	6.82	6.33
21	6.31	6.95	7.28	6.59	6.11	7.22	7.36	7.62	7.47	7.08	6.80	6.30
22	6.31	6.92	7.36	6.60	6.10	7.19	7.31	7.68	7.53	7.07	6.76	6.35
23	6.33	6.89	7.50	6.57	6.08	7.17	7.26	7.69	7.50	7.06	6.75	6.29
24	6.31	6.86	7.56	6.54	6.06	7.16	7.20	7.66	7.47	7.05	6.73	6.28
25	6.30	6.85	7.59	6.50	6.02	7.14	7.15	7.63	7.43	7.05	6.72	6.29
26	6.30	6.95	7.60	6.46	5.99	7.09	7.11	7.63	7.42	7.04	6.71	6.28
27	6.30	7.09	7.59	6.44	5.97	7.07	7.13	7.65	7.40	7.06	6.72	6.27
28	6.30	7.10	7.57	6.41	5.95	7.06	7.29	7.68	7.34	7.04	6.71	6.25
29	6.30	7.10	7.55	6.37	-----	7.02	7.34	7.64	7.33	6.99	6.71	6.23
30	6.32	7.09	7.54	6.38	-----	6.97	7.36	7.62	7.34	6.97	6.70	6.23
31	6.32	-----	7.52	6.32	-----	6.94	-----	7.63	-----	6.95	6.69	-----
MEAN	6.38	6.83	7.43	6.86	6.27	6.72	7.48	7.59	7.50	7.15	6.81	6.44
MAX	6.50	7.10	7.64	7.50	6.51	7.24	7.94	7.69	7.65	7.33	6.95	6.68
MIN	6.30	6.35	7.03	6.32	5.95	5.91	6.92	7.40	7.33	6.95	6.69	6.23

CAL YR 1972 MEAN 7.33 MAX 10.90 MIN 6.22
WTR YR 1973 MEAN 6.96 MAX 7.94 MIN 5.91

STREAMS TRIBUTARY TO LAKE ONTARIO

04235000 CANANDAIGUA OUTLET AT CHAPIN, N.Y.

LOCATION.--Lat 42°55'00", long 77°14'00", Ontario County, on left bank at Chapin, 500 ft (152 m) upstream from bridge on State Highway 488, and 3 mi (5 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.

GAGE.--Water-stage recorder. Datum of gage is 673.6 ft (205.31 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--33 years (1940-73), 147 ft³/s (4.163 m³/s).

EXTREMES.--Current year: Maximum discharge, 818 ft³/s (23.2 m³/s) Apr. 4 (gage height, 3.94 ft (1.201 m)); minimum, 5.5 ft³/s (0.16 m³/s) Sept. 27-28 (gage height, 1.34 ft (0.408 m)).

Period of record: Maximum discharge, 1,710 ft³/s (48.4 m³/s) June 24, 1972 (gage height, 5.62 ft (1.713 m)); minimum, 4.6 ft³/s (0.13 m³/s) Sept. 17, 1948; minimum gage height, 1.12 ft (0.341 m) Mar. 12, 1965, Feb. 23, 1967.

REMARKS.--Records fair. 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.

REVISIONS (WATER YEARS): WRD N.Y. 1967: 1966; drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	44	435	500	240	170	397	76	317	36	27	29
2	41	69	435	490	260	180	498	67	311	36	27	24
3	41	80	446	480	280	242	557	72	305	36	25	33
4	41	60	439	490	260	421	569	93	302	39	25	28
5	39	56	432	460	260	299	719	124	293	39	25	31
6	39	54	593	440	260	308	661	126	284	38	28	42
7	51	51	573	420	260	308	665	126	287	36	28	39
8	44	115	565	410	260	281	645	115	248	36	28	39
9	41	185	573	400	260	296	637	105	236	36	28	39
10	39	99	577	390	250	311	637	131	230	35	28	39
11	38	111	569	350	250	320	629	168	227	35	29	39
12	36	115	557	330	250	329	609	308	224	31	25	36
13	36	109	577	310	250	314	581	320	218	25	25	30
14	35	197	549	300	240	383	565	293	212	23	24	31
15	35	383	525	320	240	393	553	191	206	23	38	29
16	36	397	513	340	240	362	533	126	227	24	29	29
17	36	390	513	340	230	529	505	109	236	23	27	29
18	38	379	525	340	240	505	491	191	78	22	27	23
19	38	369	488	341	240	481	481	418	105	22	25	27
20	38	365	463	332	230	484	467	470	103	23	17	25
21	38	359	467	320	230	477	460	621	197	23	23	24
22	39	350	560	242	220	467	446	505	369	23	22	18
23	41	344	550	296	220	460	470	477	287	24	22	18
24	42	338	545	320	210	456	425	467	260	23	21	18
25	41	335	541	330	200	449	390	425	233	23	21	17
26	42	467	537	340	200	435	275	326	248	22	21	16
27	42	449	533	350	190	421	138	293	248	24	21	6.4
28	41	460	529	360	180	418	163	290	180	31	21	9.3
29	53	449	513	320	-----	414	135	284	42	31	22	27
30	54	439	500	270	-----	404	111	272	38	29	21	24
31	48	-----	520	260	-----	393	-----	320	-----	29	101	-----
TOTAL	1,267	7,618	16,142	11,191	6,650	11,710	14,412	7,909	6,751	900	851	818.7
MEAN	40.9	254	521	361	238	378	480	255	225	29.0	27.5	27.3
MAX	54	467	593	500	280	529	719	621	369	39	101	42
MIN	35	44	432	242	180	170	111	67	38	22	17	6.4

CAL YR 1972 TOTAL 127,343.0 MEAN 348 MAX 1,680 MIN 22
WTR YR 1973 TOTAL 86,219.7 MEAN 236 MAX 719 MIN 6.4

221

LOCATION.--Lat 42°42'09", long 77°12'25", Yates County, on left bank 30 ft (9 m) downstream from culverts 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.

PERIOD OF RECORD.--March 1964 to September 1968, October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 883.93 ft (269.422 m) above mean sea level.

AVERAGE DISCHARGE.--7 years (1964-68, 1970-73), 30.8 ft³/s (0.872 m³/s) (13.49 in/yr (342.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 778 ft³/s (22.0 m³/s) Dec. 7 (gage height, 6.83 ft (2.082 m)); minimum discharge, 0.06 ft³/s (0.002 m³/s) Sept. 30; minimum gage height, 2.16 ft (0.658 m) July 25.
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, 1.58 ft (0.482 m) Sept. 2, 1966.

REMARKS.--Records poor.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	31	58	146	22	15	44	42	28	11	3.8	.85
2	3.4	24	54	136	46	27	82	38	26	8.8	8.4	1.2
3	2.8	17	54	69	228	40	153	38	23	8.4	4.0	2.5
4	2.3	14	58	60	147	150	126	42	23	8.0	2.5	2.8
5	5.4	22	57	61	74	350	351	40	50	7.4	1.4	2.6
6	33	87	274	38	52	320	228	36	128	7.1	1.5	2.5
7	31	143	766	31	46	260	137	32	59	7.1	1.1	2.4
8	17	75	748	27	39	170	99	29	42	6.2	.76	2.3
9	11	58	284	24	32	130	70	29	30	4.8	3.4	2.2
10	8.7	52	108	21	29	110	62	29	25	4.6	1.8	2.0
11	7.7	49	98	21	27	84	62	36	22	4.4	.58	1.7
12	7.4	47	73	20	25	94	55	34	19	4.0	.42	1.5
13	6.4	46	72	20	24	86	48	33	28	3.8	.42	1.3
14	5.8	46	68	20	22	110	43	29	21	3.8	.58	1.0
15	5.8	54	60	20	20	150	39	27	17	3.6	3.0	1.1
16	5.4	46	54	21	19	180	36	26	18	4.2	4.3	1.0
17	5.4	39	48	24	20	150	34	25	22	3.8	2.2	1.2
18	4.8	36	46	29	20	240	32	26	23	3.6	2.8	1.2
19	4.5	33	46	33	19	190	32	24	26	3.4	3.8	.85
20	4.3	33	46	33	19	150	30	28	22	3.4	6.1	.76
21	4.0	32	46	23	18	120	29	67	20	4.4	4.0	.67
22	4.5	30	77	27	18	96	27	132	21	5.3	4.3	.67
23	7.0	28	177	43	17	80	27	79	20	8.8	3.8	.85
24	12	28	146	41	17	68	26	55	17	8.0	3.6	1.4
25	8.7	28	120	30	16	60	24	45	15	5.3	3.2	1.2
26	6.7	71	111	28	16	54	24	39	14	4.6	2.0	1.3
27	6.1	158	101	27	15	50	39	37	13	6.7	1.5	.95
28	6.1	140	79	27	15	47	66	34	12	4.5	2.0	.76
29	8.7	87	63	26	-----	45	68	32	12	3.8	3.0	1.1
30	7.7	65	55	23	-----	44	50	29	13	3.4	3.2	.58
31	15	-----	63	22	-----	44	-----	30	-----	3.0	1.5	-----
TOTAL	263.1	1,619	4,110	1,171	1,062	3,714	2,143	1,222	809	169.2	84.96	42.44
MEAN	8.49	54.0	133	37.8	37.9	120	71.4	39.4	27.0	5.46	2.74	1.41
MAX	33	158	766	146	228	350	351	132	128	11	8.4	2.8
MIN	2.3	14	46	20	15	15	24	24	12	3.0	.42	.58
CFSM	.27	1.74	4.29	1.22	1.22	3.87	2.30	1.27	.87	.18	.09	.05
IN.	.32	1.94	4.93	1.41	1.27	4.46	2.57	1.47	.97	.20	.10	.05

CAL YR 1972	TOTAL 24,179.10	MEAN 66.1	MAX 2,890	MIN 2.3	CFSM 2.13	IN 29.01
WTR YR 1973	TOTAL 16,409.70	MEAN 45.0	MAX 766	MIN .42	CFSM 1.45	IN 19.69

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	
12-7	0130	6.83	778	3-5	1400	5.9	360	
2-3	1345	5.78	335	4-5	1130	6.16	441	4 About.

STREAMS TRIBUTARY TO LAKE ONTARIO

04235250 FLINT CREEK AT PHELPS, N.Y.

LOCATION.--Lat 42°57'28", long 77°04'06", Ontario County, 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.

GAGE.--Water-stage recorder. Datum of gage is 523.14 ft (159.453 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 84.3 ft³/s (2.387 m³/s) (11.22 in/yr (285.0 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 1,290 ft³/s (36.5 m³/s) Apr. 5 (gage height, 4.62 ft (1.408 m)); minimum discharge, 1.4 ft³/s (0.040 m³/s) Sept. 29; minimum gage height, 1.21 ft (0.37 m) Aug. 10.
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.

REMARKS.--Records fair 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. Inversion from Canandaigua Lake since 1967 for municipal supply of village of Gorham; presently not exceeding 0.3 ft³/s (0.008 m³/s).

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	46	200	333	68	40	107	130	69	26	4.6	3.8
2	29	78	173	328	239	56	290	113	64	22	4.9	4.7
3	21	173	179	274	593	100	533	133	54	20	4.6	14
4	17	126	197	239	456	813	596	149	47	18	5.7	6.6
5	15	107	188	235	352	620	1,060	130	46	18	3.8	5.2
6	14	84	724	160	225	505	685	105	396	15	3.1	7.1
7	39	71	764	80	167	387	578	86	560	13	2.7	5.4
8	78	282	572	62	120	302	440	74	324	13	2.4	5.3
9	65	602	614	58	100	235	306	80	160	12	2.0	5.3
10	44	382	549	54	90	207	260	86	99	9.8	2.5	4.0
11	32	319	430	54	80	204	253	103	75	9.6	6.0	3.1
12	27	282	298	52	74	239	204	101	61	8.9	4.9	2.5
13	24	204	270	52	68	214	157	99	60	8.8	3.1	2.3
14	23	253	230	52	66	355	128	84	61	9.1	2.2	2.3
15	21	286	200	52	64	489	111	72	47	10	15	2.5
16	19	256	120	54	56	369	98	65	45	9.3	7.7	2.2
17	19	211	98	60	50	633	87	61	61	7.8	6.6	2.4
18	18	173	96	84	50	685	81	64	83	7.3	7.5	4.3
19	18	149	96	90	48	522	80	59	96	6.6	5.4	3.1
20	17	142	100	98	48	420	75	72	72	6.0	4.8	2.3
21	17	139	165	68	45	324	68	260	144	6.2	4.9	2.2
22	18	130	440	80	45	253	64	319	204	6.6	4.8	2.2
23	30	121	646	110	43	204	61	263	137	7.5	4.7	2.5
24	46	119	590	137	43	185	57	185	91	6.5	4.4	3.4
25	41	123	500	109	42	173	53	130	72	7.1	4.1	2.7
26	36	435	430	91	42	165	49	101	52	6.0	3.6	2.4
27	31	538	373	86	40	147	65	130	40	4.9	4.1	2.2
28	30	430	300	93	40	126	263	103	33	6.7	4.0	1.9
29	46	351	220	90	-----	111	253	93	32	7.2	3.7	1.7
30	66	263	190	74	-----	103	179	80	31	5.0	3.3	2.1
31	54	-----	263	70	-----	103	-----	78	-----	4.4	3.2	-----
TOTAL	992	6,875	10,215	3,479	3,354	9,289	7,241	3,608	3,316	318.3	144.3	111.7
MEAN	32.0	229	330	112	120	300	241	116	111	10.3	4.65	3.72
MAX	78	602	764	333	593	813	1,060	319	560	26	15	14
MIN	14	46	96	52	40	40	49	59	31	4.4	2.0	1.7
CFSM	.31	2.25	3.24	1.10	1.18	2.94	2.36	1.14	1.09	.10	.05	.04
IN.	.36	2.51	3.73	1.27	1.22	3.39	2.64	1.32	1.21	.12	.05	.04

CAL YR 1972	TOTAL 70,155.3	MEAN 192	MAX 2,670	MIN 8.0	CFSM 1.88	IN 25.59
WTR YR 1973	TOTAL 48,943.3	MEAN 134	MAX 1,060	MIN 1.7	CFSM 1.31	IN 17.85

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-06	1730	4.61	1,280	4-05	0230	4.62	1,290
3-04	1630	4.31	984				

223

LOCATION.--Lat 42°53'56", long 76°32'17", Cayuga County, 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. Gage-height records since 1912 collected by, and in files of, city of Auburn.

EXTREMES.--Current year: Maximum observed gage height, 9.65 ft (2.941 m) Dec. 11; minimum observed, 6.31 ft (1.923 m) Nov. 2.
Period of record: Maximum observed gage height, 12.50 ft (3.810 m) June 25, 1972; minimum observed, 5.17 ft (1.576 m) Mar.
10-14, 1969. Maximum gage height observed since 1912, 12.53 ft (3.819 m) Mar. 23, 1936, Apr. 9, 1940.

COOPERATION.--Records furnished by city of Auburn.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.71	6.32	8.51	8.95	7.63	7.55	7.09	7.80	7.68	8.05	7.70	7.43
2	7.75	6.31	8.50	9.05	7.66	7.51	7.27	7.77	7.72	7.98	7.70	7.42
3	7.75	6.49	8.43	8.99	8.16	7.51	7.70	7.74	7.72	7.98	7.69	7.37
4	7.75	6.57	8.42	8.99	8.45	7.70	7.91	7.76	7.68	7.97	7.69	7.33
5	7.75	6.60	8.47	8.94	8.48	7.93	8.33	7.75	7.72	7.97	7.65	7.32
6	7.75	6.61	8.55	8.73	8.48	8.08	8.63	7.72	7.80	8.00	7.63	7.43
7	7.80	6.61	9.43	8.59	8.46	8.08	8.65	7.68	7.84	7.99	7.63	7.42
8	7.91	6.61	9.43	8.43	8.46	8.10	8.55	7.52	7.91	7.91	7.61	7.38
9	7.95	7.50	9.48	8.30	8.46	8.07	8.44	7.35	7.96	7.87	7.61	7.35
10	8.00	8.01	9.64	8.15	8.41	7.99	8.29	7.27	7.73	7.87	7.60	7.35
11	8.02	8.08	9.65	8.05	8.33	7.85	8.25	7.32	7.56	7.82	7.65	7.31
12	7.93	8.08	9.53	7.90	8.28	7.80	8.17	7.45	7.56	7.85	7.65	7.28
13	7.85	8.08	9.58	7.81	8.21	7.73	8.03	7.40	7.67	7.85	7.62	7.27
14	7.79	8.02	9.20	7.71	8.15	7.65	7.93	7.42	7.72	7.80	7.62	7.25
15	7.67	8.27	9.12	7.60	8.12	7.83	7.82	7.52	7.75	7.79	7.60	7.30
16	7.62	8.27	9.00	7.52	8.08	7.83	7.73	7.59	7.77	7.76	7.63	7.28
17	7.48	8.31	8.85	7.47	8.03	7.86	7.61	7.61	7.74	7.76	7.63	7.25
18	7.33	8.31	8.70	7.40	7.97	8.42	7.60	7.57	7.82	7.75	7.63	7.30
19	7.17	8.31	8.60	7.38	7.93	8.55	7.58	7.66	7.86	7.75	7.61	7.25
20	7.05	8.31	8.50	7.35	7.90	8.50	7.56	7.55	7.89	7.76	7.60	7.24
21	6.93	8.30	8.40	7.35	7.83	8.38	7.59	7.57	7.90	7.75	7.60	7.19
22	6.80	8.28	8.40	7.32	7.80	8.24	7.54	7.61	8.05	7.71	7.60	7.26
23	6.74	8.23	8.65	7.43	7.75	8.09	7.54	7.60	8.10	7.70	7.58	7.16
24	6.68	8.19	8.72	7.55	7.72	7.95	7.61	7.70	8.11	7.70	7.55	7.16
25	6.63	8.18	8.76	7.60	7.70	7.85	7.67	7.79	8.10	7.73	7.54	7.16
26	6.58	8.17	8.76	7.60	7.66	7.76	7.72	7.85	8.15	7.70	7.52	7.19
27	6.52	8.46	8.84	7.62	7.62	7.71	7.75	7.75	8.18	7.75	7.52	7.18
28	6.44	8.53	8.84	7.62	7.58	7.60	7.87	7.58	8.19	7.75	7.51	7.15
29	6.38	8.55	8.75	7.68	-----	7.50	7.85	7.42	8.24	7.72	7.50	7.15
30	6.38	8.53	8.71	7.68	-----	7.34	7.83	7.45	8.10	7.70	7.49	7.12
31	6.37	-----	8.60	7.65	-----	7.20	-----	7.58	-----	7.70	7.48	-----
MEAN	7.31	7.77	8.87	7.95	8.05	7.88	7.87	7.59	7.87	7.82	7.60	7.28
MAX	8.02	8.55	9.65	9.05	8.48	8.55	8.65	7.85	8.24	8.05	7.70	7.43
MIN	6.37	6.31	8.40	7.32	7.58	7.20	7.09	7.27	7.56	7.70	7.48	7.12</

STREAMS TRIBUTARY TO LAKE ONTARIO

04235500 OWASCO OUTLET NEAR AUBURN, N.Y.

LOCATION.--Lat 42°56'48", long 76°35'56", Cayuga County, 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.

DRAINAGE AREA.--206 mi² (534 km²).

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.

AVERAGE DISCHARGE.--60 years (1913-73), 284 ft³/s (8.043 m³/s).

EXTREMES.--Current year: Maximum discharge 1,370 ft³/s (38.8 m³/s) Dec. 9 (gage height, 3.75 ft (1.143 m)); minimum, 2.8 ft³/s (0.079 m³/s) June 26 (gage height, 1.19 ft (0.363 m)).

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.

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. Water-quality records for the current year are published in Part 2 of this report for station 04235505 below Auburn, 2.0 mi (3.2 km) downstream.

REVISIONS (WATER YEARS).--WSP 824: 1913-14, 1916, 1920(M), 1922(M), 1928(M), 1929, 1932(M). WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	340	549	1,010	290	250	790	435	73	370	18	147
2	103	409	542	1,040	350	273	865	429	147	163	23	144
3	103	377	535	1,000	481	340	972	422	416	33	26	147
4	103	358	521	1,010	521	390	1,080	422	186	122	71	90
5	64	346	528	933	528	284	1,230	416	93	57	68	55
6	36	358	670	873	521	570	1,310	409	113	55	40	27
7	122	377	1,120	813	521	528	1,300	663	73	239	18	32
8	122	468	1,280	768	514	584	1,220	918	27	226	18	64
9	127	648	1,340	715	510	670	1,160	655	278	90	18	17
10	182	805	1,340	670	480	775	1,110	253	996	13	26	40
11	294	850	1,310	626	470	775	1,040	83	352	13	21	76
12	370	753	1,300	584	450	768	980	334	68	13	16	53
13	422	775	1,200	563	430	768	880	723	29	27	18	17
14	422	843	1,120	528	420	790	858	64	26	124	20	46
15	383	903	1,050	494	416	783	820	68	24	127	24	98
16	474	715	980	468	403	730	790	73	38	62	18	83
17	570	500	903	455	390	753	535	299	113	18	18	46
18	591	494	858	435	370	873	383	305	160	18	21	55
19	549	494	813	429	360	964	377	310	80	18	16	76
20	514	494	775	409	352	1,100	346	858	76	24	18	66
21	487	481	753	403	340	1,120	310	619	59	78	18	51
22	461	474	805	322	328	1,050	305	598	24	76	20	16
23	461	455	858	273	316	988	166	328	44	44	18	13
24	435	442	895	278	305	940	32	30	141	18	18	15
25	422	442	895	284	294	895	68	48	66	18	17	13
26	403	500	918	284	280	873	111	364	16	32	26	13
27	383	549	940	284	270	843	221	996	17	36	64	13
28	358	563	918	294	260	820	474	940	64	111	48	13
29	328	563	888	290	-----	783	474	328	244	98	59	27
30	294	556	865	290	-----	775	442	66	396	51	83	113
31	289	-----	880	290	-----	768	-----	73	-----	20	90	-----
TOTAL	9,972	16,332	28,349	17,115	11,170	22,823	20,649	12,529	4,439	2,394	977	1,666
MEAN	322	544	914	552	399	736	688	404	148	77.2	31.5	55.5
MAX	591	903	1,340	1,040	528	1,120	1,310	996	996	370	90	147
MIN	36	340	521	273	260	250	32	30	16	13	16	13
CAL YR 1972	TOTAL 201,625	MEAN 551	MAX 3,200	MIN 13								
WTR YR 1973	TOTAL 148,415	MEAN 407	MAX 1,340	MIN 13								

STREAMS TRIBUTARY TO LAKE ONTARIO

225

04236000 SKANEATELES LAKE AT SKANEATELES, N.Y.

LOCATION.--Lat 42°56'42", long 76°25'46", Onondaga County, on east side of breakwater, enclosed in city of Syracuse boat house, at Skaneateles.

DRAINAGE AREA.--72.7 mi² (188 km²).

PERIOD OF RECORD.--October 1967 to current year. Gage-height 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 800.00 ft (243.840 m) above mean sea level (levels by Syracuse Department of Engineering).

EXTREMES.--Current year: Maximum observed gage height, 62.50 ft (19.050 m) Jan. 4; minimum observed, 59.99 ft (18.285 m) Mar. 2, 3.

Period of record (since 1890): Maximum observed gage height, 65.20 ft (19.873 m) June 25, 26, 1972; minimum observed, 57.15 ft (17.419 m) Nov. 15, 1965.

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.

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61.49	61.34	62.07	62.45	61.12	60.00	61.03	61.72	62.29	62.40	61.70	60.96
2	61.42	61.33	62.05	62.48	61.08	59.99	61.16	61.75	62.30	62.38	61.68	60.92
3	61.41	61.44	62.03	62.48	61.20	59.99	61.35	61.75	62.32	62.35	61.66	60.90
4	61.41	61.48	61.99	62.50	61.21	60.06	61.43	61.79	62.32	62.33	61.66	60.89
5	61.38	61.50	61.98	62.42	61.18	60.10	61.68	61.82	62.32	62.33	61.61	60.90
6	61.35	61.50	62.01	62.40	61.14	60.12	61.75	61.81	62.38	62.30	61.59	60.94
7	61.53	61.50	62.30	62.35	61.07	60.17	61.82	61.80	62.40	62.29	61.57	60.91
8	61.55	61.56	62.36	62.30	61.05	60.21	61.85	61.79	62.40	62.27	61.51	60.89
9	61.62	61.82	62.43	62.25	61.02	60.21	61.81	61.80	62.42	62.22	61.49	60.86
10	61.62	61.98	62.45	62.15	61.00	60.23	61.80	61.82	62.38	62.22	61.46	60.85
11	61.65	62.06	62.45	62.12	60.92	60.26	61.83	61.84	62.39	62.20	61.49	60.83
12	61.60	62.07	62.45	62.02	60.88	60.30	61.83	61.85	62.39	62.12	61.45	60.76
13	61.55	62.08	62.45	61.98	60.84	60.33	61.80	61.91	62.48	62.10	61.42	60.70
14	61.56	62.10	62.42	61.95	60.76	60.36	61.77	61.92	62.45	62.09	61.39	60.68
15	61.52	62.15	62.40	61.87	60.72	60.50	61.74	61.92	62.44	62.06	61.38	60.70
16	61.57	62.17	62.40	61.82	60.67	60.56	61.72	61.93	62.44	62.06	61.39	60.67
17	61.52	62.16	62.39	61.77	60.62	60.59	61.69	61.92	62.42	62.03	61.34	60.65
18	61.43	62.15	62.39	61.69	60.57	60.77	61.66	61.95	62.45	62.01	61.32	60.64
19	61.42	62.12	62.37	61.64	60.51	60.82	61.66	61.98	62.46	61.97	61.27	60.61
20	61.39	62.11	62.33	61.61	60.48	60.86	61.65	61.96	62.42	61.94	61.26	60.59
21	61.40	62.11	62.29	61.56	60.40	60.88	61.65	62.02	62.42	61.95	61.23	60.53
22	61.40	62.09	62.32	61.53	60.34	60.89	61.65	62.11	62.47	61.90	61.24	60.51
23	61.35	62.03	62.38	61.56	60.29	60.90	61.66	62.17	62.48	61.87	61.23	60.50
24	61.36	62.00	62.40	61.51	60.23	60.93	61.66	62.15	62.48	61.83	61.20	60.46
25	61.38	62.00	62.38	61.45	60.19	60.94	61.67	62.12	62.47	61.82	61.16	60.43
26	61.38	61.97	62.38	61.45	60.10	60.98	61.63	62.13	62.46	61.80	61.12	60.41
27	61.37	62.05	62.39	61.34	60.09	61.00	61.63	62.15	62.47	61.79	61.08	60.40
28	61.35	62.10	62.38	61.28	60.04	61.01	61.71	62.18	62.45	61.80	61.06	60.35
29	61.34	62.07	62.34	61.24	-----	61.03	61.73	62.20	62.44	61.81	61.03	60.32
30	61.33	62.07	62.32	61.21	-----	61.03	61.73	62.21	62.40	61.78	61.00	60.29
31	61.36	-----	62.34	61.15	-----	61.02	-----	62.25	-----	61.74	60.98	-----
MEAN	61.45	61.90	62.31	61.86	60.70	60.55	61.66	61.96	62.41	62.06	61.35	60.67
MAX	61.65	62.17	62.45	62.50	61.21	61.03	61.85	62.25	62.48	62.40	61.70	60.96
MIN	61.33	61.33	61.98	61.15	60.04	59.99	61.03	61.72	62.29	61.74	60.98	60.29
CAL YR 1972	MEAN 62.13		MAX 65.20	MIN 60.31								
WTR YR 1973	MEAN 61.58		MAX 62.50	MIN 59.99								

STREAMS TRIBUTARY TO LAKE ONTARIO

04237500 SENECA RIVER AT BALDWINVILLE, N.Y.

LOCATION.--Lat 43°09'26", Long 76°19'56", Onondaga County, 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.

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.

AVERAGE DISCHARGE.--23 years (1950-73), 3,321 ft³/s (94.05 m³/s).

EXTREMES.--Current year: Maximum daily discharge, 12,100 ft³/s (343 m³/s) Apr. 8; maximum gage height, 6.75 ft (2.057 m) Apr. 8; minimum daily discharge, 520 ft³/s (14.7 m³/s) July 16; minimum observed gage height, 1.20 ft (0.366 m) July 9.

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.

REMARKS.--Records fair. Discharge from 1898 to 1908 determined on basis of head on dam, flow through ten 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 powerplants 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). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records of lockages at lock 24 furnished by New York Department of Transportation (since November 1949).

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,250	2,700	8,580	10,400	6,650	2,910	5,100	4,350	4,750	3,600	1,200	1,200
2	1,410	2,850	8,240	10,400	6,880	2,720	5,930	4,180	4,740	4,000	1,200	1,200
3	1,440	3,110	7,970	10,200	7,720	2,510	7,060	3,440	4,720	3,600	1,190	1,200
4	1,240	3,500	7,790	10,300	8,030	3,210	8,470	3,970	4,520	2,300	1,150	1,200
5	1,400	3,500	7,730	10,200	8,190	5,180	10,500	4,450	4,300	1,900	1,160	1,200
6	1,510	3,360	7,880	9,850	8,070	6,760	11,400	4,380	4,250	1,700	1,170	1,300
7	1,460	3,350	8,590	9,380	7,880	7,020	11,900	4,210	4,470	1,300	1,180	1,300
8	1,530	3,450	9,290	8,780	7,680	6,780	12,100	4,490	4,770	1,100	1,130	1,300
9	1,560	5,410	9,850	8,210	7,450	6,290	12,000	4,890	4,720	800	1,110	1,200
10	1,540	7,570	10,200	7,540	7,270	5,770	11,600	4,960	4,400	940	783	1,200
11	1,670	8,510	10,200	7,980	7,100	5,410	11,300	4,820	3,810	780	1,060	1,200
12	1,860	8,930	9,960	7,840	6,770	5,110	10,800	4,760	3,480	800	1,190	1,200
13	1,780	8,960	9,860	7,780	6,610	4,880	10,400	4,940	3,090	680	1,100	1,200
14	1,720	8,810	9,460	7,700	6,650	4,770	10,000	5,030	2,650	800	1,100	1,200
15	1,700	8,870	9,080	7,590	6,620	5,520	9,720	4,920	2,070	580	1,200	1,300
16	1,670	9,060	9,160	7,350	6,460	6,400	9,270	4,740	1,720	520	1,100	1,300
17	1,700	9,030	8,910	7,220	6,060	6,920	8,360	4,570	1,690	580	1,100	1,200
18	1,710	8,760	8,530	7,380	6,000	8,180	7,500	4,580	1,800	860	1,100	1,200
19	1,800	8,470	8,280	7,470	6,120	8,810	6,950	4,530	2,060	900	1,200	1,200
20	1,830	8,270	8,380	7,530	6,020	8,950	5,810	4,560	2,130	1,000	1,200	1,260
21	1,800	8,030	8,560	7,350	5,900	8,880	5,140	4,980	2,200	1,200	1,200	1,280
22	1,770	7,740	8,990	7,280	5,660	8,550	4,850	5,550	3,330	1,300	1,200	1,150
23	1,890	7,520	9,550	7,420	5,410	8,250	4,660	5,890	4,100	1,300	1,200	1,120
24	2,020	7,350	10,100	7,390	5,020	7,900	4,430	5,860	4,080	1,500	1,200	1,140
25	2,470	7,310	10,700	7,330	4,240	7,460	4,330	5,570	3,850	1,300	1,200	1,140
26	2,840	7,560	11,000	7,300	3,930	7,380	4,110	4,950	3,520	1,300	1,200	1,130
27	2,480	8,260	10,900	7,330	3,750	7,250	3,220	4,550	2,990	1,100	1,200	1,140
28	2,300	8,740	10,900	7,330	3,200	7,010	3,110	4,770	2,300	1,600	1,200	1,120
29	2,230	9,010	10,600	7,320	-----	6,700	4,100	5,120	2,100	1,400	1,200	1,040
30	2,220	8,870	10,400	7,180	-----	6,020	4,560	5,020	2,800	1,300	1,100	1,030
31	2,480	-----	10,200	6,940	-----	5,360	-----	4,880	-----	1,200	1,100	-----
TOTAL	56,280	206,860	289,840	251,270	177,340	194,860	228,680	147,910	101,410	43,240	35,623	35,850
MEAN	1,815	6,895	9,350	8,105	6,334	6,286	7,623	4,771	3,380	1,395	1,149	1,195
MAX	2,840	9,060	11,000	10,400	8,190	8,950	12,100	5,890	4,770	4,000	1,200	1,300
MIN	1,240	2,700	7,730	6,940	3,200	2,510	3,110	3,440	1,690	520	783	1,030

CAL YR 1972 TOTAL 2,270,337 MEAN 6,203 MAX 17,200 MIN 987
WTR YR 1973 TOTAL 1,769,163 MEAN 4,847 MAX 12,100 MIN 520

04238500 ONONDAGA RESERVOIR NEAR NEDROW, N.Y.

LOCATION.--Lat 42°55'51", long 76°10'24", Onondaga County, 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).

EXTREMES.--Current year: Maximum elevation, 469.06 ft (142.969 m) Dec. 8 (contents, 521 acre-ft (642,000 m³)); minimum elevation 459.91 ft (140.181 m) Sept. 5-6; minimum contents, 0 acre-ft (0.000 m³) Aug. 10-11, Sept. 1-18, 26-30.

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.

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 (22.4 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.

Capacity table (elevation, in feet, and contents, in acre-feet)

460.00	0	466.00	135
462.00	15	469.00	510
464.00	50	470.00	700

GAGE HEIGHT*, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.98	60.98	63.02	65.30	62.15	60.87	62.02	61.73	62.29	60.98	60.12	60.00
2	60.99	60.99	62.79	66.58	62.18	60.90	62.94	61.68	62.44	60.92	60.12	59.98
3	60.97	61.54	62.64	65.57	64.16	61.11	64.77	61.66	62.45	60.86	60.13	59.96
4	60.94	61.93	62.61	64.54	65.65	61.76	66.04	61.75	62.24	60.80	60.12	59.94
5	60.90	61.95	62.52	64.39	64.82	62.27	67.00	61.76	62.05	60.89	60.10	59.92
6	60.86	61.92	63.28	63.96	63.75	62.34	68.43	61.72	62.07	61.01	60.08	59.93
7	60.95	61.85	67.47	63.48	63.31	62.31	68.25	61.65	62.44	61.08	60.06	59.98
8	61.23	61.79	69.00	62.54	63.11	62.25	65.86	61.56	62.62	61.04	60.04	59.98
9	61.31	63.49	68.55	61.95	62.95	62.14	64.11	61.49	62.33	61.00	60.01	59.97
10	61.31	65.47	67.70	61.79	62.82	62.02	63.68	61.50	62.00	60.90	59.99	59.96
11	61.28	65.01	65.88	61.66	62.62	61.95	64.16	61.51	61.74	60.80	60.00	59.96
12	61.23	64.16	64.36	61.53	62.09	61.92	64.19	61.55	61.59	60.80	60.03	59.95
13	61.18	63.68	63.88	61.43	61.70	61.94	63.84	61.63	61.80	60.70	60.03	59.93
14	61.14	63.40	63.82	61.38	61.49	62.02	63.45	61.64	61.86	60.70	60.02	59.93
15	61.13	63.44	63.65	61.35	61.41	62.78	63.14	61.60	61.67	60.60	60.04	59.96
16	61.13	63.38	63.47	61.31	61.35	62.93	62.88	61.56	61.48	60.56	60.13	59.99
17	61.11	63.24	63.17	61.29	61.20	62.99	62.67	61.50	61.37	60.54	60.14	60.00
18	61.08	63.01	62.96	61.44	61.12	64.37	62.48	61.50	61.35	60.50	60.15	60.00
19	61.04	62.72	62.86	61.66	61.06	64.69	62.33	61.56	61.41	60.40	60.17	60.02
20	60.99	62.61	62.79	61.86	61.03	64.12	62.20	61.59	61.37	60.30	60.19	60.02
21	60.94	62.59	62.74	61.89	61.05	63.67	62.04	62.17	61.32	60.26	60.20	60.02
22	60.90	62.48	62.94	61.81	60.65	63.34	61.90	63.11	61.82	60.22	60.18	60.02
23	60.89	62.29	63.93	62.49	61.05	63.06	61.83	63.19	61.91	60.22	60.17	60.02
24	60.95	62.09	64.35	62.81	61.00	62.88	61.77	62.95	61.75	60.20	60.15	60.01
25	60.97	61.94	64.40	62.72	60.94	62.78	61.70	62.67	61.57	60.18	60.13	60.01
26	60.98	62.14	64.40	62.57	60.88	62.72	61.64	62.40	61.39	60.15	60.12	60.00
27	60.97	63.29	64.43	62.45	60.81	62.66	61.57	62.23	61.25	60.14	60.10	60.00
28	60.95	63.55	64.37	62.38	60.87	62.51	61.64	62.12	61.14	60.13	60.08	59.99
29	60.94	63.47	64.04	62.35	-----	62.34	61.78	62.06	61.08	60.14	60.07	59.98
30	60.97	63.27	63.65	62.37	-----	62.18	61.79	62.05	61.03	60.14	60.04	59.97
31	60.98	-----	63.74	62.25	-----	62.07	-----	62.15	-----	60.13	60.02	-----
MEAN	61.04	62.79	64.17	62.62	62.04	62.51	63.40	61.91	61.76	60.56	60.09	59.98
MAX	61.31	65.47	69.00	66.58	65.65	64.69	68.43	63.19	62.62	61.08	60.20	60.02
MIN	60.86	60.98	62.52	61.29	60.65	60.87	61.57	61.49	61.03	60.13	59.99	59.92
/	4.9	32.6	56.9	17.4	4.4	15.3	12.6	19.4	5.1	.6	.1	0
*	+ .01	+ .47	+ .40	- .64	- .24	+ .18	- .05	+ .11	- .24	- .07	- .01	0

CAL YR 1972 MEAN 62.38 MAX 80.11 MIN 60.24 * +.07

WTR YR 1973 MEAN 61.90 MAX 69.00 MIN 59.92 * -.01

/ Contents, in acre-feet, at end of period.

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

* Add 400 feet to obtain elevations above mean sea level.

STREAMS TRIBUTARY TO LAKE ONTARIO

04239000 ONONDAGA CREEK AT DORWIN AVENUE, SYRACUSE, N.Y.

LOCATION.--Lat 42°59'00", long 76°09'04", Onondaga County, 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.

GAGE.--Water-stage recorder. Datum of gage is 413.59 ft (126.062 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--22 years, 118 ft³/s (3.342 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,150 ft³/s (32.6 m³/s) Dec. 6 (gage height, 4.32 ft (1.317 m)); minimum, 21 ft³/s (0.59 m³/s) Sept. 5 (gage height, 1.44 ft (0.439 m)).

Period of record: Maximum discharge, 3,200 ft³/s (90.6 m³/s) June 23, 1972 (gage height, 6.12 ft (1.865 m), backwater from tree) from rating curve extended above 1,400 ft³/s (39.6 m³/s); 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.

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.

REVISIONS.--WRD NY 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	83	211	699	150	80	257	152	205	63	35	25
2	83	136	192	600	235	119	545	150	253	63	46	25
3	65	421	222	368	586	160	687	169	189	56	43	25
4	58	230	217	326	461	303	649	213	148	56	38	24
5	54	171	207	315	269	254	832	178	134	141	35	22
6	52	142	711	231	185	198	744	157	209	111	31	53
7	189	123	882	187	196	173	640	132	303	72	29	40
8	228	224	743	182	202	164	520	118	219	60	29	32
9	138	751	656	174	175	143	460	123	146	54	29	29
10	116	651	541	179	160	140	500	157	124	49	31	27
11	91	365	392	149	160	143	540	160	109	48	59	25
12	79	268	274	131	150	159	400	170	107	47	46	25
13	80	211	318	128	140	177	283	192	199	45	36	25
14	76	307	299	126	130	236	263	148	148	47	31	31
15	109	363	242	126	130	362	237	130	102	48	59	58
16	89	263	226	121	130	260	216	124	94	49	59	39
17	81	219	181	127	140	351	195	118	94	44	34	32
18	73	191	205	140	130	542	190	156	105	42	49	33
19	69	178	200	160	130	373	182	181	128	40	72	35
20	66	243	211	160	113	285	172	175	100	41	46	32
21	63	213	214	116	122	271	157	444	126	46	39	28
22	63	179	446	150	122	236	150	400	234	46	37	29
23	96	160	531	347	109	207	158	259	137	41	36	29
24	133	154	466	236	103	205	155	206	107	38	33	28
25	99	152	420	173	96	206	146	179	89	37	33	27
26	87	378	411	164	80	210	144	161	77	37	30	25
27	78	501	423	160	74	190	147	166	69	40	29	26
28	73	339	337	160	70	162	213	153	65	41	29	27
29	90	286	256	160	-----	149	226	166	75	49	29	28
30	121	222	240	150	-----	142	180	164	74	42	27	25
31	93	-----	439	140	-----	143	-----	248	-----	37	26	-----
TOTAL	2,931	8,124	11,313	6,585	4,748	6,743	10,188	5,649	4,169	1,630	1,185	909
MEAN	94.5	271	365	212	170	218	340	182	139	52.6	38.2	30.3
MAX	228	751	882	699	586	542	832	444	303	141	72	58
MIN	52	83	181	116	70	80	144	118	65	37	26	22

CAL YR 1972 TOTAL 82,331 MEAN 225 MAX 1,510 MIN 34
WTR YR 1973 TOTAL 64,174 MEAN 176 MAX 882 MIN 22

STREAMS TRIBUTARY TO LAKE ONTARIO

229

04240010 ONONDAGA CREEK AT SPENCER STREET, SYRACUSE, N.Y.

LOCATION.--Lat 43°03'27", long 76°09'46", Onondaga County, 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.

GAGE.--Water-stage recorder. Datum of gage is 362.44 ft (110.472 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,720 ft³/s (48.7 m³/s) May 31 (gage height, 6.81 ft (2.076 m)); minimum, 45 ft³/s (1.27 m³/s) Sept. 12, 14 (gage height, 2.39 ft (0.728 m)).

Period of record: Maximum discharge, about 3,400 ft³/s (96.3 m³/s) June 23, 1972; maximum gage height, 8.09 ft (2.466 m) June 23, 1972 (backwater from Onondaga Lake); minimum discharge, 36 ft³/s (1.02 m³/s) Oct. 20, 21, Dec. 5, 1972 (gage height, 2.34 ft (0.713 m)).

REMARKS.--Records good. 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.

REVISIONS.--WRD N.Y. 1972: 1971(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	118	286	450	217	139	410	193	234	131	65	57
2	114	253	265	440	520	173	616	193	276	118	80	55
3	96	392	294	450	541	227	736	253	217	110	74	55
4	88	251	278	440	389	343	748	238	190	163	67	55
5	83	208	278	420	281	299	922	213	311	192	62	68
6	103	180	745	380	264	252	760	197	304	144	61	152
7	219	161	811	320	262	229	700	180	353	115	59	76
8	229	315	713	275	263	222	620	170	253	105	58	60
9	163	643	682	241	206	200	520	184	201	100	105	55
10	140	574	591	227	214	210	560	204	178	92	87	55
11	122	383	496	212	183	213	600	207	166	91	116	52
12	116	307	403	208	191	231	540	220	227	87	81	48
13	114	265	445	210	204	240	480	219	246	84	72	47
14	116	386	415	210	197	325	420	186	194	88	68	138
15	140	406	353	208	171	409	370	174	158	92	140	88
16	120	326	334	199	180	314	340	165	151	88	105	66
17	114	286	265	201	178	439	296	165	152	81	79	58
18	105	255	275	243	176	550	257	196	185	79	116	83
19	103	243	286	265	189	431	238	208	178	77	105	61
20	99	310	299	212	185	350	229	237	150	77	85	57
21	96	270	302	196	170	323	215	452	248	85	72	54
22	97	243	505	345	170	298	216	415	292	82	69	57
23	156	224	553	342	159	270	214	285	194	76	66	55
24	158	217	529	263	151	265	206	242	167	71	64	52
25	130	219	526	236	143	265	192	218	149	67	64	51
26	122	445	550	231	140	271	189	203	138	70	63	50
27	112	505	584	229	126	252	207	213	128	73	71	51
28	112	394	541	253	123	228	266	206	119	124	66	51
29	144	345	460	210	-----	211	249	220	141	80	63	51
30	150	294	412	212	-----	200	209	205	126	73	60	48
31	126	-----	535	178	-----	202	-----	346	-----	68	57	-----
TOTAL	3,945	9,418	14,011	8,506	6,193	8,581	12,525	7,007	6,026	2,983	2,400	1,906
MEAN	127	314	452	274	221	277	418	226	201	96.2	77.4	63.5
MAX	229	643	811	450	541	550	922	452	353	192	140	152
MIN	83	118	265	178	123	139	189	165	119	67	57	47

CAL YR 1972 TOTAL 104,532 MEAN 286 MAX 1,800 MIN 63
WTR YR 1973 TOTAL 83,501 MEAN 229 MAX 922 MIN 47

STREAMS TRIBUTARY TO LAKE ONTARIO

04240100 HARBOR BROOK AT SYRACUSE, N.Y.

LOCATION.--Lat 43°02'08", long 76°11'17", Onondaga County, on right bank 145 ft (44 m) downstream from bridge on Velasco Road at Syracuse, and about 3 mi (5 km) upstream from mouth.

DRAINAGE AREA.--9.63 mi² (24.9 km²).

PERIOD OF RECORD.--June 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 394.79 ft (120.332 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 8.40 ft³/s (0.238 m³/s) (11.85 in/yr (301.0 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 222 ft³/s (6.29 m³/s) Apr. 4 (gage height, 6.10 ft (1.859 m)) from rating curve extended as explained below; minimum, 3.7 ft³/s (0.10 m³/s) Sept. 8-13, 17, 21 (gage height, 3.60 ft (1.097 m)). ft).
Period of record: Maximum discharge, 458 ft³/s (13.0 m³/s) June 23, 1972 (gage height, 7.45 ft (2.271 m)) from rating curve extended above 180 ft³/s (5.10 m³/s); 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.

REMARKS.--Records poor. Flow includes some sewage and storm sewer inflow, some originating outside the basin.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	21	11	31	8.0	5.7	42	9.1	9.1	7.5	4.7	4.4
2	4.2	27	11	17	19	6.2	56	8.7	9.5	5.9	4.9	4.5
3	3.9	13	13	15	19	9.5	53	14	7.5	5.5	4.7	4.5
4	3.9	8.3	11	20	10	29	62	9.5	7.1	13	4.7	4.5
5	3.9	8.5	11	15	9.3	15	89	9.1	24	6.3	4.5	5.0
6	6.2	7.8	53	13	8.3	13	46	7.9	25	5.5	4.5	9.1
7	8.0	7.4	19	12	8.5	13	37	7.5	13	5.2	4.7	3.9
8	5.0	23	13	11	8.8	12	32	7.5	11	5.0	4.5	3.8
9	4.7	29	20	10	7.8	12	28	8.3	10	4.9	7.1	3.7
10	4.2	13	17	9.5	7.4	13	40	7.5	12	5.0	6.7	3.7
11	4.2	13	13	9.3	7.0	13	33	7.9	21	4.9	5.3	3.8
12	4.2	12	12	9.0	6.6	14	26	9.1	10	4.7	4.5	3.8
13	4.2	10	18	8.8	6.6	13	23	7.1	8.7	5.2	4.4	3.8
14	4.7	17	13	8.5	6.4	25	20	6.7	8.7	4.9	4.4	12
15	4.2	13	12	8.5	6.4	19	19	7.1	7.9	4.5	7.5	4.5
16	4.2	11	11	8.5	6.2	14	18	6.3	10	4.5	4.5	3.9
17	4.2	10	10	9.0	6.2	39	16	8.3	7.9	4.5	4.4	3.8
18	3.9	9.5	9.8	12	6.2	23	15	9.1	7.1	4.5	6.3	5.3
19	3.9	9.3	10	12	6.2	17	14	7.1	16	4.5	4.2	4.2
20	3.9	11	11	11	6.2	16	14	18	16	4.4	4.1	4.1
21	3.9	9.8	11	9.0	6.2	14	13	35	8.7	4.2	3.9	3.8
22	4.2	9.0	27	12	6.0	12	14	17	7.5	4.4	4.1	4.2
23	7.4	8.8	23	18	6.2	12	12	11	6.3	4.4	4.1	4.1
24	4.5	8.5	21	11	6.0	12	10	9.5	6.2	4.2	4.1	4.1
25	4.7	8.8	20	9.5	5.8	10	10	8.7	6.0	4.2	4.1	4.1
26	5.3	30	21	9.5	5.8	10	9.5	8.3	6.7	4.7	4.2	3.8
27	6.5	18	19	9.3	5.7	8.7	13	8.3	6.7	6.2	4.4	3.9
28	9.5	16	16	9.8	5.5	7.9	15	9.1	7.1	9.0	4.1	3.9
29	32	13	13	9.8	-----	7.5	11	10	6.7	6.0	4.2	4.1
30	24	11	15	8.8	-----	7.1	9.1	8.7	5.9	4.7	4.2	4.2
31	21	-----	33	8.3	-----	6.7	-----	20	-----	4.7	4.2	-----
TOTAL	213.1	406.7	517.8	365.1	217.3	428.3	799.6	321.4	309.3	167.1	146.2	136.5
MEAN	6.87	13.6	16.7	11.8	7.76	13.8	26.7	10.4	10.3	5.39	4.72	4.55
MAX	32	30	53	31	19	39	89	35	25	13	7.5	12
MIN	3.9	7.4	9.8	8.3	5.5	5.7	9.1	6.3	5.9	4.2	3.9	3.7
CFSM	.71	1.41	1.73	1.23	.81	1.43	2.77	1.08	1.07	.56	.49	.47
IN.	.82	1.57	2.00	1.41	.84	1.65	3.09	1.24	1.19	.65	.56	.53

CAL YR 1972 TOTAL 4,853.2 MEAN 13.3 MAX 139 MIN 3.9 CFSM 1.38 IN 18.75
WTR YR 1973 TOTAL 4,028.4 MEAN 11.0 MAX 89 MIN 3.7 CFSM 1.14 IN 15.56

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-04	2145	6.10	222	6-05	1745	5.58	153

STREAMS TRIBUTARY TO LAKE ONTARIO

231

04240105 HARBOR BROOK AT HIAWATHA BOULEVARD, SYRACUSE, N.Y.

LOCATION.--Lat 43°03'22", long 76°11'07", Onondaga County, on left bank, 250 ft (76 m) downstream from culvert on Hiawatha Boulevard, in Syracuse, 3,000 ft (914 m) upstream from mouth.

DRAINAGE AREA.--11.3 mi² (29.3 km²).

PERIOD OF RECORD.--Occasional measurements, water years 1958-70. October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 365.86 ft (111.514 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 302 ft³/s (8.55 m³/s) July 4 (gage height, 5.45 ft (1.661 m)), from rating extended as explained below; minimum, 6.9 ft³/s (0.20 m³/s) July 30; minimum gage height, 1.16 ft (0.354 m) Sept. 4.

Period of record: Maximum discharge, 474 ft³/s (13.4 m³/s) June 21, 1972 (gage height, 6.55 ft (1.996 m)), from rating extended above 160 ft³/s (4.53 m³/s) on basis of step-backwater computations; minimum, 1.0 ft³/s (0.028 m³/s) June 25, 1971; minimum gage height, 0.40 ft (0.122 m) Nov. 9, 1971.

REMARKS.--Records fair. Flow includes some sewage and storm sewer inflow, some originating outside the basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	9.1	25	84	30	17	82	20	20	16	9.3	8.4
2	9.0	25	23	41	68	17	73	19	20	14	9.9	8.0
3	8.8	19	25	35	49	23	67	24	18	13	8.7	8.3
4	8.8	14	23	53	25	28	104	18	19	41	8.0	8.6
5	8.8	15	23	38	22	20	114	17	51	19	7.7	9.5
6	12	13	110	32	20	19	56	16	43	12	8.3	22
7	16	12	37	29	20	18	46	16	31	11	7.9	8.8
8	10	42	24	28	20	18	41	17	23	11	8.0	8.7
9	11	45	38	27	19	17	37	17	21	11	16	8.3
10	9.2	22	31	25	18	20	55	15	21	9.9	13	8.4
11	9.0	22	26	24	17	19	43	15	21	9.8	12	8.3
12	9.1	21	23	24	17	20	36	17	37	9.3	8.2	8.4
13	9.3	19	39	23	17	18	33	14	23	9.5	8.4	8.7
14	10	33	26	22	17	34	30	14	20	9.6	8.3	30
15	8.6	26	24	21	17	25	29	15	20	10	17	10
16	8.7	22	23	22	16	21	28	15	20	9.3	8.7	9.1
17	9.2	21	21	22	16	54	39	17	19	9.3	8.6	9.0
18	8.7	20	20	26	16	33	27	18	22	9.2	14	15
19	8.6	20	19	27	16	27	26	16	18	9.1	9.2	9.1
20	8.7	24	22	27	18	25	25	27	18	9.0	8.6	9.0
21	8.7	21	22	22	18	23	24	35	35	8.8	8.6	8.7
22	8.8	20	61	32	18	22	26	22	21	8.0	8.8	9.8
23	15	19	47	53	17	21	22	19	17	8.7	8.8	9.2
24	9.3	19	43	30	17	22	21	17	16	8.7	8.6	8.6
25	9.2	21	42	28	16	21	21	17	16	9.0	8.3	8.4
26	9.0	56	48	28	16	21	21	16	16	11	8.0	8.3
27	8.8	30	44	28	16	20	25	16	15	10	9.1	8.4
28	11	28	40	29	15	19	24	19	15	21	9.2	8.7
29	13	25	31	30	-----	19	21	21	16	8.6	9.1	8.4
30	9.2	23	34	26	-----	18	20	18	14	8.3	9.0	8.0
31	9.1	-----	75	25	-----	18	-----	38	-----	8.7	8.7	-----
TOTAL	303.6	706.1	1,089	961	591	697	1,216	585	666	362.8	296.0	302.1
MEAN	9.79	23.5	35.1	31.0	21.1	22.5	40.5	18.9	22.2	11.7	9.55	10.1
MAX	16	56	110	84	68	54	114	38	51	41	17	30
MIN	8.6	9.1	19	21	15	17	20	14	14	8.0	7.7	8.0
CFSM	.87	2.08	3.11	2.74	1.87	1.99	3.58	1.67	1.96	1.04	.85	.89
IN.	1.00	2.32	3.59	3.16	1.95	2.29	4.00	1.93	2.19	1.19	.97	.99

CAL YR 1972 TOTAL 8,455.2 MEAN 23.1 MAX 230 MIN 6.5 CFSM 2.04 IN 27.83
WTR YR 1973 TOTAL 7,775.6 MEAN 21.3 MAX 114 MIN 7.7 CFSM 1.89 IN 25.60

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-04	2400	5.29	279	7-04	2130	5.45	302

STREAMS TRIBUTARY TO LAKE ONTARIO

04240120 LEY CREEK AT PARK STREET, SYRACUSE, N.Y.

LOCATION.--Lat 43°04'38", long 76°10'14", Onondaga County, on left bank, 0.2 mi (0.3 km) upstream from bridge on Park Street, 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 September 1973.

GAGE.--Water-stage recorder. Datum of gage is 362.84 ft (110.594 m) above mean sea level.

EXTREMES.--Maximum discharge during period, about 500 ft³/s (14.2 m³/s) Apr. 5 (gage height, 4.18 ft (1.274 m)), occurred during period of backwater from Onondaga Lake; minimum discharge 9.0 ft³/s (0.25 m³/s) July 28, 29, 30, 31, Aug. 5, 6 (gage height, 0.80 ft (0.244 m)).

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			100	220	14	25	174	33	83	16	10	16
2			86	180	14	43	210	35	43	20	12	15
3			78	150	150	58	250	85	26	18	11	15
4			66	170	100	163	170	61	34	20	10	15
5			50	150	70	112	350	44	54	60	9.0	20
6			152	130	50	96	250	33	213	50	9.0	116
7			203	110	52	75	200	27	218	45	10	35
8			172	90	54	65	160	25	200	40	10	16
9			160	80	45	50	140	41	120	35	13	12
10			150	84	35	66	160	47	80	33	26	12
11			140	66	33	68	180	49	100	27	40	12
12			130	60	30	78	100	60	156	22	17	11
13			120	51	27	65	66	54	148	17	13	11
14			110	46	30	110	54	45	49	19	13	70
15			100	40	28	113	42	35	32	20	71	60
16			96	33	27	64	33	29	24	19	33	40
17			92	28	26	166	27	36	25	18	18	26
18			94	38	24	170	28	57	31	17	64	40
19			98	41	24	130	29	59	24	17	73	32
20			100	51	25	70	30	88	22	16	27	28
21			120	32	32	60	31	217	111	16	25	25
22			140	24	38	54	26	135	132	16	22	27
23			160	22	36	47	34	62	54	15	18	24
24			180	27	30	42	28	40	34	14	15	20
25			200	46	24	37	23	31	24	14	17	19
26			200	43	20	33	22	24	21	14	18	18
27			190	38	16	31	35	30	18	12	19	16
28			180	38	15	29	70	24	18	12	18	16
29			170	49	-----	28	52	48	28	9.0	18	15
30			150	36	-----	27	36	40	20	9.0	17	15
31		-----	200	24	-----	25	-----	178	-----	9.0	18	-----
TOTAL	-	-	4,187	2,197	1,069	2,200	3,010	1,772	2,142	669.0	694.0	797
MEAN	-	-	135	70.9	38.2	71.0	100	57.2	71.4	21.6	22.4	26.6
MAX	-	-	203	220	150	170	350	217	218	60	73	116
MIN	-	-	50	22	14	25	22	24	18	9.0	9.0	11
CFSM	-	-	4.52	2.37	1.28	2.37	3.34	1.91	2.39	.72	.75	.89
IN.	-	-	5.21	2.73	1.33	2.74	3.74	2.20	2.66	.83	.86	.99

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-01	1930	3.40	368	6-12	2000	3.35	358
4-05	0600	4.18	a500	6-21	2100	3.06	300
6-07	0200	3.20	326				

a Backwater from Onondaga Lake

STREAMS TRIBUTARY TO LAKE ONTARIO

233

04240180 NINEMILE CREEK NEAR MARIETTA, N.Y.

LOCATION.--Lat 42°55'15", long 76°19'47", Onondaga County, 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.

GAGE.--Water-stage recorder. Altitude of gage is 760 ft (232 m) (from topographic map).

AVERAGE DISCHARGE.--9 years, 36.8 ft³/s (1.042 m³/s).

EXTREMES.--Current year: Maximum discharge 285 ft³/s (8.07 m³/s) Dec. 6 (gage height, 4.93 ft (1.50 m)); minimum daily, 1.7 ft³/s (0.048 m³/s) Sept. 11, 12; minimum gage height, 0.68 ft (0.207 m) Sept. 11, 12.

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; minimum daily, 0.80 ft³/s (0.023 m³/s) Sept. 13, 18, 19, 1966.

REMARKS.--Records fair, except those for Aug. 14 to Sept. 30, which are poor. Flow regulated by Otisco Lake from which water is diverted for city of Syracuse water supply.

REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1966(M), 1968, 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	47	96	192	79	49	19	52	67	16	3.5	2.3
2	11	54	95	194	96	51	36	52	70	14	3.6	2.3
3	11	53	97	206	97	57	41	54	64	11	3.2	2.3
4	11	40	96	206	83	62	75	56	58	11	3.2	2.3
5	11	40	98	190	82	40	154	54	57	17	2.8	2.3
6	12	45	196	181	80	22	167	50	67	12	2.6	2.3
7	24	59	216	182	81	21	172	48	76	9.1	2.4	2.0
8	16	84	210	182	82	20	162	49	66	7.3	2.3	1.8
9	14	93	224	176	80	19	151	44	57	5.3	2.3	1.8
10	14	64	219	174	80	20	150	42	49	3.8	2.9	1.8
11	13	60	208	172	80	19	168	49	44	3.2	4.5	1.7
12	13	57	198	172	79	20	170	54	52	2.9	2.3	1.7
13	13	63	191	171	79	19	154	57	58	2.9	2.3	1.8
14	14	89	178	170	79	32	142	54	48	2.7	2.3	2.7
15	18	84	169	169	79	24	130	52	40	2.9	2.3	2.7
16	16	81	165	168	79	19	125	50	35	2.6	2.3	2.1
17	30	80	158	169	79	37	111	47	30	2.3	2.3	2.0
18	45	80	152	169	77	25	85	49	36	2.4	2.3	2.6
19	45	80	146	169	77	19	64	49	33	2.6	2.3	2.3
20	47	81	144	168	77	17	61	53	30	2.7	2.3	2.2
21	48	85	144	165	77	16	59	71	24	2.8	2.3	2.3
22	49	92	161	152	77	15	54	75	61	2.6	2.3	2.4
23	54	92	155	120	77	15	51	74	56	2.5	2.3	2.5
24	51	93	156	115	77	15	48	71	53	2.6	2.3	2.4
25	50	93	156	113	76	15	44	66	46	2.6	2.1	2.6
26	50	108	159	113	76	14	43	64	42	3.2	2.3	2.7
27	49	101	158	113	64	12	43	61	38	3.8	2.3	2.7
28	50	99	154	114	48	11	56	59	31	5.0	2.2	3.2
29	52	97	148	114	-----	9.6	56	53	26	4.4	2.3	3.3
30	50	97	149	103	-----	9.1	54	51	20	3.5	2.3	3.3
31	48	-----	169	79	-----	8.4	-----	66	-----	3.2	2.3	-----
TOTAL	942	2,291	4,965	4,881	2,197	732.1	2,845	1,726	1,434	169.9	79.0	70.4
MEAN	30.4	76.4	160	157	76.5	23.6	94.8	55.7	47.8	5.48	2.55	2.35
MAX	54	108	224	206	97	62	172	75	76	17	4.5	3.3
MIN	11	40	95	79	48	8.4	19	42	20	2.3	2.1	1.7

CAL YR 1972 TOTAL 29,366.0 MEAN 80.2 MAX 931 MIN 4.0
WTR YR 1973 TOTAL 22,332.4 MEAN 61.2 MAX 224 MIN 1.7

STREAMS TRIBUTARY TO LAKE ONTARIO

235

04240300 NINEMILE CREEK AT LAKELAND, N.Y.

LOCATION.--Lat 43°04'51", long 76°13'36", Onondaga County, on left bank, 25 ft (8 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 current year.

GAGE.--Water-stage recorder. Altitude of gage is 375 ft (114 m) (from topographic map).

EXTREMES.--Current year: Maximum discharge, 1,710 ft³/s (48.4 m³/s) Apr. 5 (gage height, 7.61 ft (2.320 m)); minimum daily, 76 ft³/s (2.15 m³/s) Sept. 30.

Period of record: Maximum discharge, 2,290 ft³/s (64.9 m³/s) June 23, 1972 (gage height, 8.58 ft (2.615 m)); minimum daily, 68 ft³/s (1.93 m³/s) Oct. 23, Nov. 1, 1971.

REMARKS.--Records poor. Flow regulated by Otisco Lake from which water is diverted for city of Syracuse water supply.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	186	423	1,150	236	181	312	260	300	160	120	90
2	180	280	393	986	305	213	748	250	400	150	130	88
3	150	380	388	858	857	263	951	270	300	150	130	88
4	127	280	374	872	577	488	759	290	270	140	120	86
5	122	240	326	853	528	432	1,500	280	310	190	110	86
6	120	240	579	733	478	341	1,240	260	520	160	110	130
7	165	240	1,110	628	475	309	1,000	250	410	150	110	110
8	159	300	699	544	460	287	900	240	310	140	110	90
9	143	618	738	495	418	249	700	240	270	140	110	88
10	129	510	786	426	372	247	600	250	240	150	110	86
11	118	393	744	393	343	249	700	260	220	150	150	90
12	106	366	654	393	319	259	680	270	300	140	110	92
13	112	366	676	393	297	257	620	280	450	140	100	90
14	116	393	654	380	291	258	600	260	300	140	100	110
15	122	465	602	369	297	427	520	250	230	150	110	120
16	118	432	537	345	279	320	480	240	210	150	110	100
17	115	401	441	334	281	346	450	240	200	140	110	94
18	137	366	393	385	260	745	400	250	240	140	120	100
19	150	336	400	388	250	544	350	260	240	140	150	100
20	137	348	400	390	230	450	300	270	200	140	120	94
21	133	345	420	334	250	350	250	300	210	150	100	96
22	134	340	596	359	240	310	225	400	290	150	100	94
23	175	328	748	534	230	290	227	350	240	140	96	94
24	200	312	744	433	220	270	240	300	230	130	94	90
25	191	310	778	353	210	260	260	290	210	120	92	86
26	193	532	817	338	200	270	240	280	200	140	90	82
27	186	669	891	332	180	250	240	270	190	160	88	80
28	191	510	825	334	169	230	280	270	180	140	94	78
29	214	483	729	353	-----	200	300	300	180	160	96	78
30	203	477	665	308	-----	185	280	270	170	130	92	76
31	186	-----	781	260	-----	166	-----	310	-----	120	90	-----
TOTAL	4,732	11,446	19,311	15,253	9,252	9,646	16,352	8,510	8,020	4,500	3,372	2,786
MEAN	153	382	623	492	330	311	545	275	267	145	109	92.9
MAX	214	669	1,110	1,150	857	745	1,500	400	520	190	150	130
MIN	106	186	326	260	169	166	225	240	170	120	88	76

CAL YR 1972 TOTAL 123,135 MEAN 336 MAX 2,110 MIN 91
WTR YR 1973 TOTAL 113,180 MEAN 310 MAX 1,500 MIN 76

NOTE.--No gage-height record Apr. 23 to Sept. 30.

LOCATION.--Lat 43°06'01", long 76°12'34", Onondaga County, on north shore of Onondaga Lake at Onondaga Park Marina basin, 200 ft (61 m) southwest of Onondaga Lake Parkway, 1.9 mi (3.1 km) upstream from outlet of lake.

PERIOD OF RECORD.--October 1970 to current year.

EXTREMES.--Current year: Maximum elevation, 366.84 ft (111.813 m) Apr. 7; minimum, 362.02 ft (110.344 m) June 16.
Period of record: Maximum elevation, 369.21 ft (112.535 m) June 30, 1972; minimum, 362.02 ft (110.344 m) June 16, 1973.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	362.63	362.57	364.85	366.12	363.65	362.52	362.70	362.80	363.20	362.98	362.74	362.63
2	362.63	362.74	364.71	366.21	363.67	362.47	363.46	363.02	363.14	363.09	362.74	362.64
3	362.76	363.09	364.60	366.09	364.47	362.54	364.53	363.03	363.09	362.99	362.74	362.65
4	362.78	362.92	364.47	366.04	364.79	362.99	365.20	363.04	363.02	362.59	362.71	362.67
5	362.69	362.77	364.36	366.03	364.84	363.62	366.11	363.18	362.94	362.60	362.70	362.68
6	362.64	362.69	364.52	365.75	364.80	363.71	366.61	363.20	363.05	362.62	362.72	362.80
7	362.74	362.82	365.12	365.13	364.70	363.80	366.80	363.13	363.17	362.55	362.72	362.78
8	362.76	363.07	365.31	364.88	364.59	363.75	366.83	363.11	363.17	362.53	362.70	362.71
9	362.74	363.83	365.46	364.93	364.46	363.60	366.75	363.19	363.13	362.47	362.72	362.62
10	362.71	364.26	365.60	364.72	364.26	363.48	366.68	363.10	363.00	362.31	362.83	362.52
11	362.61	364.61	365.67	364.52	363.98	363.32	366.66	363.06	362.83	362.47	362.88	362.60
12	362.40	364.82	365.56	364.44	363.85	363.20	366.45	363.16	362.83	362.66	362.96	362.64
13	362.59	364.87	365.55	364.35	363.67	363.08	366.21	363.27	363.08	362.70	362.97	362.60
14	362.66	364.94	365.45	364.27	363.52	363.13	365.97	363.30	362.63	362.64	362.95	362.62
15	362.70	365.01	365.31	364.19	363.48	363.28	365.75	363.33	362.56	362.73	363.02	362.83
16	362.68	365.01	365.15	363.95	363.44	363.41	365.55	363.28	362.77	362.69	362.95	362.87
17	362.70	364.96	364.80	363.95	363.49	363.77	365.29	363.19	362.91	362.73	362.84	362.82
18	362.62	364.86	364.51	363.95	363.44	364.50	364.94	363.14	362.86	362.64	362.88	362.75
19	362.46	364.71	364.39	364.04	363.39	364.88	364.62	363.12	362.57	362.60	362.93	362.67
20	362.38	364.62	364.43	364.12	363.34	365.04	364.20	363.14	362.49	362.74	362.98	362.64
21	362.34	364.50	364.55	364.04	363.30	365.03	363.58	363.51	362.63	362.96	362.97	362.63
22	362.30	364.36	364.83	363.96	363.20	364.99	363.15	363.71	363.02	363.10	362.95	362.60
23	362.39	364.28	365.24	364.25	363.10	364.84	363.18	363.53	363.05	363.03	362.90	362.59
24	362.51	364.12	365.53	364.34	363.14	364.65	363.44	363.40	362.98	362.70	362.84	362.57
25	362.56	364.00	365.76	364.24	362.98	364.44	363.20	363.29	362.88	362.76	362.81	362.55
26	362.78	364.22	365.95	364.14	362.70	364.19	362.98	363.17	362.74	362.76	362.79	362.55
27	362.79	364.63	366.11	364.09	362.55	364.08	362.59	362.88	362.56	362.89	362.80	362.52
28	362.72	364.81	366.12	364.06	362.66	363.92	362.61	362.93	362.50	362.5		

04242500 EAST BRANCH FISH CREEK AT TABERG, N.Y.

LOCATION.--Lat 43°18'06", long 75°37'09", Oneida County, 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, 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.

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.

AVERAGE DISCHARGE.--50 years, 532 ft³/s (15.07 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 5,800 ft³/s (164 m³/s) Mar. 18 (gage height, 7.00 ft (2.134 m)); minimum, 13 ft³/s (0.37 m³/s) Aug. 28 (gage height, 0.52 ft (0.158 m)).
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.

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

REVISIONS (WATER YEARS).--WSP 604: 1924. WSP 759: Drainage area. WSP 1034: 1944. WSP 1054: 1923-45.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	604	352	450	2,640	392	230	2,060	670	882	246	90	17
2	356	500	396	2,000	866	250	4,920	610	556	175	148	17
3	240	970	425	1,250	4,470	300	3,300	698	396	150	148	17
4	183	677	360	890	3,250	810	2,100	858	336	150	115	16
5	150	842	384	691	2,100	1,400	2,970	658	320	475	83	22
6	135	622	1,130	485	1,330	1,400	1,820	550	598	356	62	158
7	328	490	2,320	364	1,020	1,630	1,310	455	1,610	195	50	153
8	368	1,750	1,380	292	768	3,300	1,060	380	1,010	137	42	173
9	296	3,930	970	317	550	3,190	826	480	545	109	44	109
10	234	1,590	796	368	480	2,110	834	712	396	89	55	79
11	188	866	622	320	430	1,770	914	782	313	82	237	62
12	210	768	500	299	390	3,070	761	962	267	73	405	51
13	273	604	628	290	370	3,400	670	890	296	65	219	44
14	243	574	782	280	340	1,790	628	616	267	460	131	324
15	285	520	535	270	340	1,390	646	500	219	652	210	303
16	246	435	430	270	300	1,990	640	430	213	320	435	188
17	234	360	328	270	270	3,330	640	384	243	183	228	185
18	219	352	344	320	280	4,470	664	698	246	123	133	550
19	225	340	376	535	250	1,930	610	1,090	270	92	98	372
20	183	352	360	938	250	1,240	530	803	320	75	95	240
21	158	317	352	789	260	898	455	962	400	73	93	193
22	153	261	568	768	250	826	450	946	818	72	92	726
23	384	261	747	2,230	240	640	520	634	520	61	83	622
24	705	282	664	1,980	230	622	480	485	332	47	188	360
25	540	289	550	1,300	230	719	405	405	505	36	178	243
26	376	562	510	954	220	866	360	384	344	37	225	180
27	292	988	505	754	220	1,160	356	396	216	107	52	158
28	310	761	425	658	220	826	997	455	173	107	14	137
29	684	574	348	520	-----	747	1,190	604	279	195	18	113
30	705	440	356	405	-----	733	882	545	296	213	16	93
31	470	-----	628	405	-----	761	-----	988	-----	133	14	-----
TOTAL	9,977	21,629	19,169	23,852	20,316	47,798	33,998	20,030	13,186	5,288	4,001	5,905
MEAN	322	721	618	769	726	1,542	1,133	646	440	171	129	197
MAX	705	3,930	2,320	2,640	4,470	4,470	4,920	1,090	1,610	652	435	726
MIN	135	261	328	270	220	230	356	380	173	36	14	16
(#)	25.5	25.2	25.5	26.0	26.3	26.0	24.1	23.2	25.6	28.0	29.7	27.6

CAL YR 1972 TOTAL 253,648 MEAN 693 MAX 10,900 MIN 71 # 25.4
WTR YR 1973 TOTAL 225,149 MEAN 617 MAX 4,920 MIN 14 # 26.1

PEAK DISCHARGE (BASE, 4,900 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
2-03	0830	6.42	4,930	4-02	0130	6.84	5,560
3-18	0200	7.00	5,800				

Diversions, in cubic feet per second, by cities of Rome and Oneida for water supply (figures supplied by respective cities).

STREAMS TRIBUTARY TO LAKE ONTARIO

04243500 ONEIDA CREEK AT ONEIDA, N.Y.

LOCATION.--Lat 43°05'51", long 75°38'22", Madison County, 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.

GAGE.--Water-stage recorder. Datum of gage is 409.33 ft (124.764 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--24 years, 154 ft³/s (4.361 m³/s) (18.51 in/yr (470.2 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 2,820 ft³/s (79.9 m³/s) Dec. 6 (gage height, 9.93 ft (3.027 m)); minimum, 24 ft³/s (0.68 m³/s) Sept. 5 (gage height, 1.51 ft (0.460 m)).

Period of record: Maximum discharge, 9,260 ft³/s (262 m³/s) June 22, 1972 (gage height, 14.61 ft (4.453 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.

Waters of June 22, 1972 were higher than during flood of 1891 as reported by Corps of Engineers in "Flood Plain Information Oneida Creek New York".

REMARKS.--Records good except those for winter periods and those above 300 ft³/s (8.50 m³/s), which are poor. Occasional regulation by small mills upstream from station.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	106	269	1,600	150	110	250	139	162	69	30	29
2	80	234	242	653	390	170	600	150	162	77	46	26
3	71	482	318	431	1,010	263	960	176	126	67	38	26
4	65	240	262	458	383	446	780	192	192	63	31	25
5	60	267	260	386	302	353	1,100	164	186	86	29	24
6	58	203	1,610	280	230	299	674	145	150	65	27	79
7	112	168	1,240	230	216	269	533	124	245	56	26	48
8	131	446	536	200	224	287	413	112	128	51	26	33
9	134	1,560	626	180	190	219	335	159	103	49	46	30
10	107	575	575	160	170	216	464	205	92	44	83	29
11	87	395	473	150	150	205	473	236	86	43	42	28
12	81	363	362	140	140	266	374	293	116	46	38	29
13	93	280	515	130	130	344	326	284	157	42	31	28
14	92	439	311	130	130	305	296	184	99	43	28	41
15	119	446	213	140	140	338	302	162	83	47	101	88
16	99	351	189	140	130	260	281	176	79	44	83	47
17	90	287	130	150	120	506	242	148	82	38	42	38
18	82	248	150	170	110	473	222	512	82	35	38	55
19	78	242	170	230	120	317	208	584	83	34	69	52
20	74	477	170	170	130	270	189	374	72	34	65	38
21	71	323	184	208	140	240	169	737	71	40	43	34
22	69	249	500	335	140	210	164	515	74	36	38	34
23	130	211	464	626	140	199	169	338	74	33	35	37
24	154	202	431	338	130	192	159	269	79	31	33	37
25	112	201	434	236	110	184	143	224	116	34	31	34
26	99	848	431	216	100	278	137	192	96	31	29	32
27	86	574	401	208	96	220	139	208	82	36	30	31
28	85	406	287	200	94	200	210	192	79	38	30	31
29	192	351	227	180	-----	180	192	205	124	41	42	30
30	210	276	224	160	-----	160	154	176	86	34	34	29
31	135	-----	987	140	-----	150	-----	169	-----	32	29	-----
TOTAL	3,154	11,450	13,191	8,975	5,515	8,129	10,658	7,744	3,366	1,419	1,293	1,122
MEAN	102	382	426	290	197	262	355	250	112	45.8	41.7	37.4
MAX	210	1,560	1,610	1,600	1,010	506	1,100	737	245	86	101	88
MIN	58	106	130	130	94	110	137	112	71	31	26	24
CFSM	.90	3.38	3.77	2.57	1.74	2.32	3.14	2.21	.99	.41	.37	.33
IN.	1.04	3.77	4.34	2.95	1.82	2.68	3.51	2.55	1.11	.47	.43	.37

CAL YR 1972 TOTAL 107,478 MEAN 294 MAX 3,800 MIN 39 CFSM 2.60 IN 35.38
WTR YR 1973 TOTAL 76,016 MEAN 208 MAX 1,610 MIN 24 CFSM 1.84 IN 25.02

PEAK DISCHARGE (BASE, 1,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	1045	9.12	2,310	1-01	0800	8.70	2,280
12-06	2115	9.93	2,820				

STREAMS TRIBUTARY TO LAKE ONTARIO

239

04245000 LIMESTONE CREEK AT FAYETTEVILLE, N.Y.

LOCATION.--Lat43°01'48", long 76°00'49", Onondaga County, 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.

GAGE.--Water-stage recorder. Datum of gage is 427.62 ft (130.339 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--33 years (1940-73), 138 ft³/s (3.908 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,810 ft³/s (51.3 m³/s) Dec. 6 (gage height, 5.14 ft (1.567 m)); minimum, 27 ft³/s (0.76 m³/s) Aug. 7, 8, 9, Sept. 5; minimum gage height, 1.29 ft (0.393 m) July 25, 26.

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, 7.95 ft (2.423 m) Mar. 5, 1964; minimum discharge, 1.4 ft³/s (0.040 m³/s) Aug. 19, 1969.

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.

REVISIONS (WATER YEARS).--WSP 954: 1941. WSP 1912: 1958(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	116	215	878	133	93	346	116	146	69	31	30
2	83	224	197	455	322	128	675	123	152	123	37	30
3	71	490	224	289	755	214	824	138	123	58	35	30
4	65	215	200	319	303	382	585	157	116	57	31	31
5	61	203	224	289	244	255	1,000	136	143	123	31	30
6	61	173	1,070	205	189	205	585	123	138	67	30	43
7	215	150	1,090	168	202	187	451	106	131	53	30	42
8	263	280	386	165	205	189	334	98	101	43	28	32
9	176	1,000	585	143	170	162	268	118	91	38	31	31
10	158	670	446	143	152	170	415	149	82	35	38	31
11	121	336	342	136	138	168	446	157	71	35	43	30
12	109	308	261	133	128	192	330	162	80	34	35	30
13	131	233	366	136	118	227	292	192	108	32	32	30
14	121	368	296	136	131	289	258	141	75	35	31	37
15	164	376	244	152	133	398	255	128	64	34	58	64
16	128	270	227	136	126	248	224	152	65	34	80	42
17	116	230	170	141	113	402	192	128	75	35	40	37
18	104	206	192	214	116	473	184	179	73	37	43	37
19	97	200	218	221	116	282	176	238	80	34	58	42
20	95	324	231	244	121	255	165	211	64	32	43	35
21	90	236	221	128	128	234	152	525	69	38	37	34
22	88	197	487	211	131	214	146	455	98	38	37	32
23	152	176	464	473	116	195	152	265	67	31	35	34
24	164	173	402	241	108	195	143	218	67	31	34	31
25	121	173	382	187	101	184	131	187	123	30	34	31
26	109	435	390	187	98	221	126	170	71	30	32	30
27	99	475	370	187	84	184	128	192	62	37	31	30
28	97	300	289	189	84	154	176	170	60	35	31	30
29	152	263	234	170	-----	141	168	187	116	40	31	30
30	188	212	241	138	-----	138	128	157	78	34	30	30
31	128	-----	580	133	-----	138	-----	187	-----	32	30	-----
TOTAL	3,850	9,012	11,244	6,947	4,765	6,917	9,455	5,665	2,789	1,384	1,147	1,026
MEAN	124	300	363	224	170	223	315	183	93.0	44.6	37.0	34.2
MAX	263	1,000	1,090	878	755	473	1,000	525	152	123	80	64
MIN	61	116	170	128	84	93	126	98	60	30	28	30

CAL YR 1972 TOTAL 88,993 MEAN 243 MAX 2,680 MIN 31
WTR YR 1973 TOTAL 64,201 MEAN 176 MAX 1,090 MIN 28

PEAK DISCHARGE (BASE, 1500 CFS)

DATE	TIME	G. H.	DISCHARGE
12-06	1600	5.14	1,810

STREAMS TRIBUTARY TO LAKE ONTARIO

04245200 BUTTERNUT CREEK NEAR JAMESVILLE, N.Y.

LOCATION.--Lat 42°56'02", long 76°03'44", Onondaga County, 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.

GAGE.--Water-stage recorder. Datum of gage is 717.93 ft (218.825 m) above mean sea level.

AVERAGE DISCHARGE.--15 years, 46.7 ft³/s (1.323 m³/s) (19.70 in/yr (500.4 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 770 ft³/s (21.8 m³/s) Dec. 6 (gage height, 7.05 ft (2.149 m)); minimum, 5.9 ft³/s (0.17 m³/s) Sept. 4 (gage height, 4.21 ft (1.283 m)).

Period of record: Maximum discharge, 1,260 ft³/s (35.7 m³/s) Mar. 5, 1964 (gage height, 6.29 ft (1.917 m)); maximum gage height, 7.54 ft (2.298 m) Mar. 2, 1972; minimum discharge, 2.0 ft³/s (0.057 m³/s) Sept. 27, 1959 (gage height, 2.26 ft (0.689 m)).

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

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	46	109	347	80	30	140	49	56	19	9.5	6.8
2	34	113	100	185	140	43	233	49	76	19	15	6.5
3	25	149	113	133	272	71	255	55	52	16	11	6.5
4	21	97	100	160	117	112	235	53	48	16	9.9	6.8
5	19	91	122	128	90	78	347	49	43	30	9.5	7.1
6	20	79	440	110	74	65	228	43	37	17	8.8	17
7	126	72	344	100	73	59	185	37	46	14	8.8	11
8	118	145	205	90	74	60	138	36	34	13	8.5	8.2
9	79	296	260	80	58	52	112	47	31	12	8.5	7.7
10	66	172	198	70	52	58	175	52	28	11	9.1	7.4
11	55	147	150	66	48	58	158	55	26	11	9.5	7.1
12	54	133	114	62	45	66	121	59	34	11	8.5	6.8
13	61	117	148	60	43	73	102	60	38	11	8.5	6.8
14	59	160	114	56	42	114	94	48	27	11	8.5	10
15	79	147	96	52	40	117	89	43	23	12	17	17
16	59	127	89	54	40	92	79	42	23	12	13	9.5
17	54	115	82	62	40	173	71	43	27	11	9.9	8.2
18	45	106	80	87	40	168	68	63	38	9.9	9.5	9.1
19	43	102	80	84	40	108	65	60	31	10	19	8.5
20	39	131	80	86	38	96	60	74	23	9.9	11	7.4
21	37	109	81	70	36	89	58	210	34	12	9.9	7.1
22	36	99	170	102	35	79	55	155	42	11	9.9	7.4
23	77	91	148	128	32	73	55	92	27	9.5	9.1	7.9
24	68	90	135	73	30	76	53	79	26	8.8	9.1	7.7
25	55	90	135	59	29	76	49	68	27	8.5	8.8	7.4
26	50	180	140	59	28	87	48	62	21	8.8	8.2	6.8
27	41	157	126	56	26	73	52	63	19	11	8.5	6.8
28	41	135	100	52	26	62	74	55	19	12	7.9	6.8
29	70	120	82	49	-----	58	65	74	27	16	7.4	6.5
30	70	108	89	47	-----	58	52	56	22	11	6.8	6.5
31	55	-----	258	45	-----	56	-----	68	-----	9.9	6.5	-----
TOTAL	1,717	3,724	4,488	2,812	1,688	2,480	3,516	1,999	1,005	394.3	305.1	246.3
MEAN	55.4	124	145	90.7	60.3	80.0	117	64.5	33.5	12.7	9.84	8.21
MAX	126	296	440	347	272	173	347	210	76	30	19	17
MIN	19	46	80	45	26	30	48	36	19	8.5	6.5	6.5
CFSM	1.72	3.85	4.50	2.82	1.87	2.48	3.63	2.00	1.04	.39	.31	.26
IN.	1.98	4.30	5.18	3.25	1.95	2.87	4.06	2.31	1.16	.46	.35	.28

CAL YR 1972 TOTAL 33,938.4 MEAN 92.7 MAX 770 MIN 3.3 CFSM 2.88 IN 39.21
WTR YR 1973 TOTAL 24,374.7 MEAN 66.8 MAX 440 MIN 6.5 CFSM 2.07 IN 28.16

PEAK DISCHARGE (BASE, 550 CFS)

DATE TIME G. H. DISCHARGE

12-06 1900 7.05 770

04245236 MEADOW BROOK AT HURLBURT ROAD, SYRACUSE, N.Y.

LOCATION.--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.

DRAINAGE AREA.--2.90 mi² (7.51 km²).

PERIOD OF RECORD.--December 1970 to March 1973 (discontinued). Converted to crest-stage partial record station.

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

EXTREMES.--Current year: Maximum discharge, 178 ft³/s (5.04 m³/s) June 5 (gage height, 3.62 ft (1.103 m)), from rating curve extended as explained below; minimum during period October to March, 0.32 ft³/s (0.009 m³/s) Oct. 3 (gage height, 0.93 ft (0.283 m)).

Period of record: Maximum discharge, 179 ft³/s (5.07 m³/s) May 15, 1972 (gage height, 3.64 ft (1.109 m)), from rating curve extended above 52 ft³/s (1.47 m³/s) on basis of step-backwater computation; minimum, 0.02 ft³/s (0.001 m³/s) Sept. 11, 1972; minimum gage height, 0.27 ft (0.082 m) Oct. 8, 1971.

REMARKS.--Records poor. Flow includes some storm sewer inflow, some originating outside the basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO MARCH 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR						
1	.33	4.0	1.8	6.7	1.1	1.6						
2	.33	1.5	1.7	1.7	1.4	1.8						
3	.32	.90	3.1	1.4	3.3	2.3						
4	2.4	.80	1.4	5.2	1.5	2.1						
5	8.5	.80	1.7	1.5	1.4	1.1						
6	1.1	.80	2.6	1.0	1.1	1.2						
7	.96	1.0	2.5	.90	.96	.96						
8	.37	5.0	1.7	.80	1.1	.82						
9	.35	1.5	4.2	.70	1.1	.82						
10	.39	.82	3.1	.68	.96	1.7						
11	.68	2.7	2.0	.82	1.2	1.9						
12	.96	1.1	1.8	.82	1.4	1.5						
13	.37	.82	7.4	.82	.96	1.2						
14	.36	6.1	2.0	.96	.68	1.3						
15	.54	3.3	1.7	.82	.68	2.5						
16	.37	1.8	1.7	1.1	.54	1.5						
17	.37	.96	1.5	2.0	1.0	1.6						
18	.36	.96	1.4	1.7	.90	2.7						
19	.37	1.1	1.5	1.4	.68	2.2						
20	.40	3.3	2.9	1.1	1.1	2.2						
21	3.5	1.2	3.4	.82	1.1	1.7						
22	.39	.96	1.6	3.6	.96	1.4						
23	.37	.82	5.4	4.5	.80	1.2						
24	.36	.82	4.3	1.4	.74	1.2						
25	.36	1.7	3.6	1.2	.70	1.4						
26	.40	2.2	4.6	1.2	.66	1.5						
27	2.9	2.5	2.7	1.1	.62	1.1						
28	.40	2.5	2.5	2.2	.54	.96						
29	.37	1.7	2.0	1.4	-----	.96						
30	.36	1.4	2.5	1.1	-----	.96						
31	2.6	-----	6.8	1.0	-----	1.2						
TOTAL	55.24	74.86	124.9	51.64	41.78	72.68	-	-	-	-	-	-
MEAN	1.78	2.50	4.03	1.67	1.49	2.34	-	-	-	-	-	-
MAX	26	22	26	6.7	14	16	-	-	-	-	-	-
MIN	.32	.80	1.4	.68	.54	.82	-	-	-	-	-	-
CFSM	.61	.86	1.39	.58	.51	.81	-	-	-	-	-	-
IN.	.71	.96	1.60	.66	.54	.93	-	-	-	-	-	-

CAL YR 1972 TOTAL 1,027.94 MEAN 2.81 MAX 50 MIN .04 CFSM .97 IN 13.19

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	D. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-05	-	3.62	178	7-04	-	3.43	162
6-12	-	3.55	172	8-09	-	3.55	172
6-21	-	3.38	158				

LOCATION.--Lat 43°14'24", long 76°08'30", Onondaga County, 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.

EXTREMES.--Current year: Maximum gage height, 10.37 ft (3.161 m) Apr. 9; minimum, 6.82 ft (2.079 m) Mar. 3.

Flood of Mar. 29, 1936, reached a stage of 373.5 ft (113.84 m) above mean sea level, from Corps of Engineers report "Flood Plain Information, Oneida Creek - New York".

REVISIONS--WRD N.Y. 1967: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.60	8.56	8.37	8.68	7.92	6.91	8.82	8.92	8.79	8.95	8.97	8.51
2	8.65	8.57	8.45	8.91	7.86	6.86	9.00	8.94	8.77	8.93	8.97	8.50
3	8.65	8.51	8.30	9.03	8.02	6.85	9.32	8.95	8.75	8.90	8.96	8.50
4	8.68	8.73	8.36	9.08	8.33	6.94	9.62	9.01	8.67	8.93	8.96	8.52
5	8.71	8.72	8.31	9.06	8.50	7.08	9.73	8.97	8.65	8.95	8.96	8.53
6	8.67	8.82	8.16	9.02	8.58	7.25	10.07	9.01	8.73	9.03	8.99	8.51
7	8.60	8.82	8.40	8.93	8.55	7.38	10.17	9.06	8.84	9.06	8.98	8.49
8	8.49	8.93	8.75	8.82	8.49	7.49	10.13	9.10	8.95	9.05	8.98	8.47
9	8.47	8.95	8.65	8.68	8.44	7.70	10.15	9.03	8.82	9.02	8.98	8.51
10	8.64	9.22	8.64	8.56	8.34	7.87	10.00	9.00	8.96	9.02	8.97	8.53
11	8.67	9.29	8.63	8.44	8.23	7.96	9.70	8.97	8.94	8.94	8.99	8.45
12	8.57	9.18	8.76	8.34	8.14	8.00	9.79	9.05	8.94	8.90	8.94	8.45
13	8.57	9.16	8.49	8.26	8.03	8.16	9.76	9.04	8.92	8.90	8.96	8.49
14	8.53	9.15	8.58	8.15	7.96	8.32	9.69	9.08	8.85	8.84	8.99	8.69
15	8.43	9.10	8.85	8.05	7.88	8.39	9.61	9.03	8.92	8.90	9.04	8.64
16	8.52	9.08	8.44	7.96	7.79	8.34	9.48	8.99	8.86	8.90	9.06	8.64
17	8.33	9.09	8.50	7.88	7.71	8.54	9.33	8.87	8.84	8.89	9.07	8.73
18	8.48	8.93	8.56	7.81	7.63	8.47	9.24	8.82	8.87	8.88	9.03	8.71
19	8.43	8.90	8.53	7.77	7.55	8.67	9.14	8.86	8.80	8.88	8.98	8.72
20	8.42	8.78	8.50	7.75	7.47	8.82	9.08	8.94	8.81	8.85	8.97	8.63
21	8.40	8.72	8.48	7.78	7.40	8.87	8.95	8.94	8.83	8.82	8.91	8.62
22	8.37	8.65	8.48	7.80	7.33	8.78	8.80	9.03	8.95	8.81	8.79	8.64
23	8.38	8.52	8.52	7.86	7.27	8.68	8.70	9.09	9.02	8.81	8.76	8.54
24	8.33	8.36	8.56	8.01	7.21	8.65	8.57	9.06	9.03	8.79	8.70	8.57
25	8.35	8.45	8.58	8.11	7.15	8.60	8.55	9.04	9.04	8.79	8.67	8.60
26	8.39	8.44	8.59	8.12	7.09	8.54	8.58	9.05	9.08	8.78	8.61	8.51
27	8.40	8.35	8.60	8.10	7.03	8.45	8.73	8.99	9.05	8.83	8.58	8.44
28	8.40	8.46	8.62	8.09	6.97	8.49	8.58	8.93	9.07	8.85	8.50	8.40
29	8.35	8.43	8.59	8.06	-----	8.44	8.54	8.80	9.05	8.88	8.49	8.36
30	8.43	8.58	8.54	8.02	-----	8.49	8.81	8.78	8.96	8.93	8.49	8.36
31	8.47	-----	8.50	7.97	-----	8.54	-----	8.79	-----	8.96	8.50	-----
MEAN	8.50	8.78	8.53	8.29	7.82	8.08	9.29	8.97	8.90	8.90	8.86	8.54
MAX	8.71	9.29	8.85	9.08	8.58	8.87	10.17	9.10	9.08	9.06	9.07	8.73
MIN	8.33	8.35	8.16	7.75	6.97	6.85						

04246500 ONEIDA RIVER AT CAUGHDENY, N.Y.

LOCATION.--Lat 43°14'49", long 76°10'12", Oswego County, 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.

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.

AVERAGE DISCHARGE.--36 years (1902-12, 1947-73), 2,477 ft³/s (70.15 m³/s).

EXTREMES.--Current year: Maximum daily discharge, 7,590 ft³/s (215 m³/s) Apr. 9; minimum daily, 192 ft³/s (5.44 m³/s) Sept. 10. 1947-72: 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.

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.

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.

1947-72: 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. A large amount of natural storage by 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 sq mi 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.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	629	2,290	4,760	5,260	4,080	2,490	1,280	1,130	4,050	2,360	240	224
2	637	2,520	4,880	5,600	3,980	2,510	3,240	1,150	4,050	2,330	248	228
3	575	2,480	4,660	5,840	4,240	2,740	5,090	1,170	4,010	1,770	250	227
4	631	2,600	4,760	5,900	4,720	2,980	5,510	2,400	3,930	790	253	223
5	789	2,600	4,680	5,860	4,960	3,160	5,610	3,020	3,240	808	241	221
6	1,320	3,250	4,520	5,800	5,080	3,310	7,110	3,040	2,250	892	236	254
7	1,280	3,680	4,960	5,640	5,040	3,590	7,500	3,040	2,440	940	237	236
8	1,280	3,690	5,040	5,460	4,940	3,870	7,530	3,070	2,470	932	239	223
9	1,270	4,940	5,100	5,240	4,840	4,010	7,590	3,020	2,360	942	475	202
10	1,280	6,010	5,160	5,040	4,680	4,050	7,240	3,000	2,540	964	737	192
11	1,260	6,180	5,200	4,860	4,520	4,300	6,840	3,280	2,570	955	744	200
12	1,440	5,960	5,240	4,700	4,500	4,550	6,970	3,730	2,480	956	736	205
13	1,700	5,940	5,100	4,580	4,500	4,690	6,910	3,710	2,470	961	743	200
14	1,730	5,920	5,100	4,420	4,280	4,590	6,800	3,880	2,500	970	741	202
15	1,760	5,830	5,500	4,260	3,960	4,940	6,670	4,130	2,410	980	884	266
16	1,760	5,810	4,820	4,140	3,860	4,820	6,460	4,160	2,410	973	999	299
17	1,910	5,820	4,840	4,020	3,860	4,900	6,200	4,060	2,430	814	1,490	242
18	1,820	5,560	4,980	3,900	3,860	5,000	6,060	4,020	2,350	705	2,000	1,130
19	2,200	5,510	4,960	3,840	3,740	5,080	5,900	3,920	1,800	719	2,180	2,340
20	2,200	5,300	4,900	3,820	3,400	5,150	5,860	4,180	840	759	2,020	2,280
21	2,260	5,200	4,880	3,880	3,320	5,200	5,640	4,160	846	778	1,810	2,310
22	2,230	5,100	4,880	3,900	3,220	5,240	5,370	4,280	1,980	780	1,790	2,200
23	2,190	4,880	4,960	3,980	3,140	5,280	4,940	4,320	2,480	769	1,780	2,230
24	2,430	4,620	5,020	4,200	3,060	5,310	4,360	4,360	2,480	750	1,710	2,300
25	2,250	4,760	5,080	4,340	2,980	5,310	4,250	4,370	2,370	456	1,660	2,210
26	2,210	4,790	5,120	4,380	2,880	5,310	2,830	4,380	2,390	252	1,650	2,140
27	2,160	4,610	5,140	4,360	2,760	5,310	1,100	4,320	2,410	281	1,640	1,710
28	2,190	4,790	5,140	4,340	2,680	5,350	1,080	4,230	2,360	221	1,630	909
29	2,220	4,730	5,120	4,260	-----	4,310	1,080	4,120	2,360	232	1,090	916
30	2,220	5,000	5,060	4,220	-----	2,890	1,100	4,060	2,400	243	397	919
31	2,200	-----	4,960	4,140	-----	2,730	-----	4,030	-----	248	212	-----
TOTAL	52,031	140,370	154,520	144,180	111,080	132,970	154,120	109,740	75,676	26,530	31,062	27,438
MEAN	1,678	4,679	4,985	4,651	3,967	4,289	5,137	3,540	2,523	856	1,002	915
MAX	2,430	6,180	5,500	5,900	5,080	5,350	7,590	4,380	4,050	2,360	2,180	2,340
MIN	575	2,290	4,520	3,820	2,680	2,490	1,080	1,130	840	221	212	192

CAL YR 1972 TOTAL 1,444,772 MEAN 3,947 MAX 10,100 MIN 575
WTR YR 1973 TOTAL 1,159,717 MEAN 3,177 MAX 7,590 MIN 192

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, N.Y.

LOCATION.--Lat 43°27'06", long 76°30'20", Oswego County, on right bank at lock 7 in Oswego, 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--5,098 mi² (13,204 km²).

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.

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.

AVERAGE DISCHARGE.--40 years (1933-73), 6,447 ft³/s (182.6 m³/s).

EXTREMES.--Current year: Maximum daily discharge, 23,000 ft³/s (651 m³/s) Apr. 7; maximum gage height, 10.05 ft (3.063 m) Apr. 7; minimum daily, 1,410 ft³/s (39.9 m³/s) Sept. 14; minimum gage height, 1.93 ft (0.588 m) Sept. 29, 30.
Period of record: Maximum discharge, 37,500 ft³/s (1,060 m³/s) Mar. 28, 1936, includes mean daily 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.

REMARKS.--Records good except those for periods of backwater from Lake Ontario, which are fair. This record represents total discharge at Oswego and includes flow in Hydraulic and Oswego (Barge) Canals. Prior to 1933, flow in Oswego (Barge) Canals 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 by powerplants above 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 Lake Keuka 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.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,770	5,110	16,000	19,700	12,200	6,830	7,060	6,950	10,200	5,640	1,700	1,600
2	2,690	5,190	15,400	20,300	13,000	6,180	9,580	6,140	10,000	6,260	1,600	1,600
3	2,730	6,240	15,200	19,800	15,600	5,690	16,700	6,800	10,100	6,080	1,600	1,600
4	2,800	7,870	14,500	19,700	16,100	7,260	18,100	7,060	9,950	5,350	1,600	1,700
5	3,180	7,080	14,500	19,600	16,200	10,600	21,300	8,560	9,110	4,000	1,600	1,800
6	3,320	7,010	14,800	18,900	16,100	13,000	22,400	8,620	7,710	3,000	1,600	1,900
7	3,510	7,370	16,500	18,100	15,700	13,500	22,800	8,430	8,070	2,800	1,600	1,900
8	3,650	8,190	17,500	17,100	15,300	13,300	22,600	8,420	8,350	2,500	1,600	1,900
9	3,570	11,300	17,400	16,400	14,700	12,600	22,000	8,850	8,290	2,300	1,700	1,800
10	3,450	14,900	17,900	15,000	14,200	12,100	21,500	9,480	8,090	2,200	1,800	1,790
11	3,700	15,700	18,000	14,600	13,500	11,900	21,100	9,280	7,510	2,100	2,000	1,440
12	3,900	16,200	17,800	14,000	12,800	11,700	20,400	9,310	6,850	2,000	2,200	1,670
13	3,010	16,300	17,500	14,100	12,600	11,300	19,200	9,940	7,350	2,000	2,400	1,590
14	3,270	16,300	17,500	14,200	12,200	11,000	19,000	9,770	7,260	2,100	2,680	1,410
15	3,500	16,700	17,300	13,700	12,000	12,400	18,600	9,870	5,440	2,100	2,790	1,900
16	3,540	16,300	16,100	13,200	10,800	12,300	18,100	9,890	5,110	2,000	3,220	1,970
17	3,450	16,500	14,300	12,900	11,000	13,500	17,500	9,770	5,180	2,000	2,960	1,930
18	3,820	16,100	13,600	12,800	10,900	15,600	16,500	9,750	5,000	1,900	3,120	2,620
19	4,220	15,700	13,400	13,300	10,600	16,000	15,900	9,690	5,740	1,900	3,130	3,680
20	3,930	15,300	13,700	13,600	10,700	16,800	14,900	9,820	4,300	1,700	3,290	3,170
21	3,800	14,900	14,100	13,400	10,600	16,800	13,200	10,700	4,620	1,800	3,280	3,320
22	3,850	14,500	15,100	13,200	10,300	16,500	11,900	10,900	5,720	1,900	3,230	3,340
23	3,970	14,200	16,400	14,200	9,520	15,700	10,100	11,700	7,310	2,100	3,250	3,190
24	4,330	13,900	17,500	14,500	8,890	14,800	9,900	11,400	7,230	2,000	2,800	3,250
25	4,360	13,500	18,100	14,300	8,820	14,700	10,300	10,900	6,860	1,900	2,540	3,220
26	4,610	14,100	18,800	14,000	8,390	13,500	9,150	10,400	6,670	1,800	3,160	3,030
27	5,030	15,900	19,200	13,700	7,460	12,600	6,920	10,200	6,250	1,900	2,970	3,030
28	4,820	16,300	19,200	13,600	6,420	12,000	6,240	9,360	5,610	2,000	2,870	2,320
29	4,660	16,200	18,800	13,400	-----	11,700	6,210	9,690	5,470	2,100	2,880	2,010
30	4,700	16,000	18,300	13,400	-----	9,960	7,460	9,950	5,220	2,000	2,290	2,000
31	4,740	-----	18,200	13,200	-----	7,680	-----	10,300	-----	1,800	1,700	-----
TOTAL	116,880	390,860	512,600	471,900	336,600	379,500	456,620	291,900	211,170	81,230	75,160	67,680
MEAN	3,770	13,030	16,540	15,220	12,020	12,240	15,220	9,416	7,039	2,620	2,425	2,256
MAX	5,030	16,700	19,200	20,300	16,200	16,800	22,800	11,700	10,200	6,260	3,290	3,680
MIN	2,690	5,110	13,400	12,800	6,420	5,690	6,210	6,140	4,300	1,700	1,600	1,410
CAL YR 1972	TOTAL 4,340,730		MEAN 11,860		MAX 32,300		MIN 1,970					
WTR YR 1973	TOTAL 3,392,100		MEAN 9,293		MAX 22,800		MIN 1,410					

NOTE.--Backwater from Lake Ontario July 5 to Aug. 13.

LAKE ONTARIO

245

04249010 LAKE ONTARIO AT OSWEGO, N.Y.

LOCATION.--Lat 43°27'51", long 76°30'42", Oswego County, in southwest corner of Port of Oswego Authority building at mouth of Oswego River at Oswego.

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 water level at Father Point, Quebec, International Great Lakes Datum (1955). Prior to Jan. 1, 1933, nonrecording gages.

EXTREMES.--Current year: Maximum elevation, 248.35 ft (75.697 m) June 10; minimum, 244.02 ft (74.377 m) Nov. 26.

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.

COOPERATION.--Records furnished by U.S. Department of Commerce, NOAA-NOS, Lake Survey Center, Detroit, Mich.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	245.19	244.45	244.76	245.54	245.88	246.05	247.12	247.84	247.98	247.61	246.87	246.08
2	245.15	244.46	244.62	245.57	245.96	246.10	247.31	247.83	247.99	247.58	246.83	246.06
3	245.13	244.60	244.69	245.37	246.35	246.06	247.38	247.90	247.95	247.56	246.82	246.02
4	245.07	244.52	244.55	245.57	246.27	246.14	247.45	247.95	247.94	247.58	246.80	246.00
5	245.07	244.54	244.57	245.77	246.25	246.08	247.59	247.96	247.92	247.66	246.77	245.95
6	245.08	244.44	244.71	245.73	246.19	246.11	247.54	247.92	247.92	247.63	246.71	246.04
7	245.20	244.42	244.70	245.68	246.28	246.11	247.55	247.87	247.94	247.59	246.67	246.07
8	245.27	244.59	244.61	245.62	246.40	246.23	247.60	247.81	247.92	247.59	246.64	246.04
9	245.23	244.68	244.70	245.74	246.38	246.24	247.52	247.88	247.95	247.59	246.63	245.92
10	245.01	244.56	244.74	245.73	246.39	246.20	247.64	247.88	247.95	247.57	246.64	245.82
11	244.93	244.63	244.74	245.75	246.32	246.24	247.86	247.97	247.93	247.57	246.65	245.88
12	245.03	244.64	244.62	245.80	246.31	246.42	247.79	247.97	247.93	247.50	246.68	245.82
13	244.95	244.63	244.95	245.63	246.30	246.43	247.78	247.96	247.95	247.41	246.60	245.72
14	244.95	244.59	244.83	245.66	246.23	246.43	247.74	247.92	247.98	247.48	246.52	245.58
15	244.96	244.69	244.72	245.72	246.35	246.47	247.71	247.93	247.89	247.42	246.47	245.58
16	244.78	244.60	245.19	245.74	246.38	246.54	247.71	247.90	247.88	247.37	246.40	245.57
17	244.97	244.55	245.12	245.68	246.30	246.67	247.75	247.94	247.79	247.28	246.34	245.39
18	244.79	244.60	244.93	245.68	246.32	247.04	247.75	247.98	247.73	247.20	246.32	245.50
19	244.76	244.52	244.92	245.72	246.25	247.03	247.76	247.94	247.74	247.16	246.28	245.42
20	244.67	244.66	244.91	245.90	246.22	246.96	247.77	247.91	247.71	247.14	246.21	245.46
21	244.58	244.60	244.92	245.72	246.22	246.94	247.74	247.94	247.72	247.11	246.25	245.37
22	244.57	244.58	245.02	245.69	246.32	247.00	247.78	247.93	247.70	247.04	246.26	245.29
23	244.59	244.65	245.04	245.89	246.30	247.00	247.80	247.92	247.68	246.96	246.20	245.38
24	244.71	244.68	245.10	246.00	246.29	247.03	247.84	247.94	247.67	246.90	246.21	245.36
25	244.67	244.48	245.12	245.93	246.20	247.01	247.82	247.92	247.67	246.86	246.19	245.23
26	244.61	244.56	245.19	245.92	246.18	247.09	247.81	247.89	247.60	246.86	246.15	245.22
27	244.56	244.68	245.26	245.93	246.12	247.09	247.80	247.85	247.63	246.90	246.08	245.24
28	244.57	244.68	245.44	245.97	246.07	247.01	247.94	247.90	247.61	246.93	246.15	245.20
29	244.62	244.70	245.20	246.16	-----	247.00	247.96	247.93	247.67	247.01	246.18	245.22
30	244.57	244.55	245.21	246.11	-----	247.06	247.88	247.96	247.66	246.90	246.15	245.13
31	244.51	-----	245.28	245.93	-----	247.08	-----	247.97	-----	246.83	246.12	-----
MEAN	244.86	244.58	244.91	245.77	246.25	246.61	247.69	247.92	247.82	247.28	246.44	245.62
MAX	245.27	244.70	245.44	246.16	246.40	247.09	247.96	247.98	247.99	247.66	246.87	246.08
MIN	244.51	244.42	244.55	245.37	245.88	246.05	247.12	247.81	247.60	246.83	246.08	245.13

CAL YR 1972 MEAN 245.34 MAX 246.91 MIN 243.73
WTR YR 1973 MEAN 246.31 MAX 247.99 MIN 244.42

STREAMS TRIBUTARY TO LAKE ONTARIO

04250750 SANDY CREEK NEAR ADAMS, N.Y.

LOCATION.--Lat 43°48'48", long 76°04'30", Jefferson County, 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.

AVERAGE DISCHARGE.--16 years, 244 ft³/s (6.910 m³/s) (25.89 in/yr (657.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 5,390 ft³/s (153 m³/s) Feb. 3 (gage height, 8.49 ft (2.588 m)); minimum, 4.0 ft³/s (0.11 m³/s) Sept. 5 (gage height, 0.82 ft (0.250 m)).

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.

REMARKS.--Records good except those for winter periods, which are poor. Moderate diurnal fluctuation at low flow caused by mills above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	151	340	3,500	234	100	1,280	244	363	20	15	5.5
2	76	193	297	1,280	1,670	116	2,290	241	244	18	13	5.2
3	55	338	270	699	3,630	269	1,730	285	180	17	11	5.2
4	43	241	252	636	1,250	1,580	1,120	321	156	22	9.2	4.9
5	37	332	248	534	732	983	1,950	281	146	22	8.4	4.6
6	38	246	2,060	325	470	818	1,100	251	132	18	7.2	9.2
7	240	197	1,440	248	431	1,010	797	197	206	15	6.5	24
8	186	709	605	209	377	1,310	535	167	169	14	5.8	13
9	125	1,270	525	203	293	680	413	169	124	13	5.5	9.7
10	85	574	443	180	262	445	485	218	107	12	5.2	7.6
11	67	393	352	170	212	408	529	309	88	12	19	6.9
12	62	348	289	160	186	485	408	224	73	11	13	5.8
13	73	289	1,200	160	170	513	363	192	66	11	8.8	5.2
14	68	254	856	160	170	329	321	159	60	13	7.2	4.9
15	65	235	473	160	170	301	309	146	54	13	6.5	5.2
16	63	204	324	200	160	413	277	136	51	12	6.2	5.2
17	62	193	237	230	160	1,250	251	144	51	11	5.5	4.9
18	64	179	263	270	150	1,320	227	333	47	9.2	8.8	20
19	60	171	272	330	150	606	209	600	46	8.4	44	45
20	56	150	284	450	150	502	189	350	41	8.4	50	26
21	55	140	284	377	150	413	172	491	37	8.4	24	26
22	54	118	355	725	140	363	167	507	37	7.6	18	31
23	172	136	475	1,900	140	305	178	305	34	6.9	15	118
24	343	142	404	867	140	325	159	234	31	6.5	13	62
25	250	146	372	513	130	413	139	200	29	6.2	10	39
26	182	1,170	375	422	120	686	127	172	25	6.2	9.2	28
27	143	1,120	340	350	110	491	127	172	23	9.2	8.4	20
28	124	753	300	317	110	337	450	175	22	12	8.0	17
29	228	545	237	260	-----	281	470	244	21	55	7.2	14
30	286	394	275	227	-----	251	354	206	22	38	6.5	13
31	183	-----	1,650	224	-----	241	-----	404	-----	22	5.8	-----
TOTAL	3,676	11,331	16,097	16,286	12,067	17,544	17,126	8,077	2,685	458.0	380.9	586.0
MEAN	119	378	519	525	431	566	571	261	89.5	14.8	12.3	19.5
MAX	343	1,270	2,060	3,500	3,630	1,580	2,290	600	363	55	50	118
MIN	37	118	237	160	110	100	127	136	21	6.2	5.2	4.6
CFSM	.93	2.95	4.05	4.10	3.37	4.42	4.46	2.04	.70	.12	.10	.15
IN.	1.07	3.29	4.68	4.73	3.51	5.10	4.98	2.35	.78	.13	.11	.17

WTR YR 1973 TOTAL 106,313.9 MEAN 291 MAX 3,630 MIN 4.6 CFSM 2.27 IN 30.90

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-06	1830	7.46	4,360	2-03	0330	8.49	5,390
1-01	0430	7.97	4,870	4-01	1930	6.12	3,050

STREAMS TRIBUTARY TO LAKE ONTARIO

247

04252000 BLACK RIVER CANAL (FLOWING SOUTH) NEAR BOONVILLE, N.Y.

LOCATION.--Lat 43°27'21", long 75°19'27", Oneida County, on left bank at former lock 69, 200 ft (61 m) downstream from bridge on State Highway 46, 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).

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.

EXTREMES.--1915 to current year: Maximum daily discharge recorded, 323 ft³/s (9.15 m³/s) Nov. 1915; practically no flow at times when no water is being diverted.

REMARKS.--Records fair above 1 ft³/s (0.028 m³/s) and poor below. 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.61	1.3	.85			-	2.4	.55	1.1	13	44	42
2	.54	1.4	.79			-	3.8	.55	1.0	12	45	42
3	.54	1.6	.80			-	1.8	.67	1.0	11	45	42
4	.47	1.5	.85			-	.98	.67	1.1	11	44	42
5	.49	1.5	.84			-	1.4	.55	1.0	14	44	42
6	.42	1.3	11			-	.74	.55	1.0	12	44	47
7	.87	1.2	9.5			-	.74	.49	2.6	11	44	47
8	1.0	17	5.1			-	.84	.55	1.3	11	44	45
9	1.1	35	.89			-	.84	.61	1.0	10	42	45
10	1.0	4.6	.57			-	.76	.67	1.0	9.9	41	45
11	1.0	1.2	.58			-	.82	.80	.98	9.6	45	45
12	1.1	.85	.54			-	.74	.80	.93	8.4	44	45
13	1.2	.85	.60			-	.67	.73	1.0	29	44	45
14	1.2	.74	-			-	.67	.61	.98	43	44	46
15	1.3	.68	-			-	.67	.61	.98	41	44	52
16	1.3	.64	-			-	.61	.55	1.2	39	46	51
17	1.3	.70	-			-	.61	.56	1.5	36	46	51
18	1.3	.71	-			-	.56	.71	1.5	33	47	62
19	1.4	.72	-			-	.56	.96	1.3	31	48	60
20	1.4	.78	-			-	.56	.76	4.0	30	47	60
21	1.4	.78	-			-	.63	1.2	10	31	47	60
22	1.4	.78	-			-	.56	.66	34	34	47	63
23	1.4	.78	-			-	.61	.58	19	34	47	69
24	1.5	.73	-			-	.68	.58	14	34	45	69
25	1.4	.71	-			-	.74	.58	15	39	44	69
26	1.3	1.0	-			-	.93	.58	9.4	42	45	68
27	1.2	1.2	-			-	.99	.66	7.5	44	45	68
28	1.3	.95	-			-	.74	.66	6.7	44	45	68
29	1.7	.81	-		-----	-	.61	.74	18	44	43	67
30	1.6	.79	-		-----	.56	.55	.74	18	44	42	67
31	1.4	-----	-		-----	.55	-----	1.3	-----	44	42	-----
TOTAL	35.14	82.80	-	-	-	-	27.81	21.23	178.07	848.9	1,384	1,624
MEAN	1.13	2.76	-	-	-	-	.93	.68	5.94	27.4	44.6	54.1
MAX	1.7	35	-	-	-	-	3.8	1.3	34	44	48	69
MIN	.42	.64	-	-	-	-	.55	.49	.93	8.4	41	42

04252500 BLACK RIVER NEAR BOONVILLE, N.Y.

LOCATION.--Lat 43°30'42", long 75°18'25", Oneida County, 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.

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.

AVERAGE DISCHARGE.--62 years, 680 ft³/s (19.26 m³/s).

EXTREMES.--Current year: Maximum discharge, 7,340 ft³/s (208 m³/s) Mar. 18 (gage height, 9.64 ft (2.938 m)); minimum, 181 ft³/s (5.13 m³/s) Aug. 27 (gage height, 3.96 ft (1.207 m)); minimum daily, 181 ft³/s (5.13 m³/s) Aug. 27.

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.

REMARKS.--Records good except those for winter periods, which are fair. Occasional regulation by several headwater reservoirs. Forestport feeder diverts water from State Pondforestport 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.

REVISIONS (WATER YEARS).--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).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	968	801	773	3,110	559	478	1,240	688	1,150	1,160	338	226
2	745	701	723	3,650	987	446	2,820	664	936	851	420	246
3	591	1,050	706	2,130	3,630	478	3,730	748	773	664	519	236
4	514	1,190	601	1,430	4,180	795	3,040	963	760	555	420	220
5	446	1,150	615	1,180	2,540	1,110	4,220	871	676	613	330	213
6	394	1,120	1,150	860	1,440	1,220	3,650	793	819	604	280	487
7	407	944	2,910	620	1,180	1,360	2,480	730	1,590	496	250	742
8	446	1,320	2,560	505	968	2,820	1,900	664	1,490	420	229	510
9	424	4,490	1,870	518	728	3,860	1,570	786	978	375	216	358
10	378	4,360	1,430	630	615	2,960	1,480	1,470	767	338	220	294
11	350	2,310	1,220	600	573	2,350	1,570	1,760	646	323	451	267
12	335	1,590	968	580	491	2,810	1,290	1,990	604	294	523	236
13	386	1,250	962	620	582	3,370	1,120	1,720	640	274	411	223
14	394	1,070	1,100	640	600	2,670	1,020	1,270	591	622	326	301
15	386	999	890	600	620	1,980	993	1,000	528	838	334	537
16	398	866	789	600	610	1,950	978	936	487	631	358	496
17	386	739	625	540	560	2,660	942	864	505	483	298	375
18	386	691	620	560	620	6,330	942	1,370	487	384	257	501
19	370	650	700	640	660	4,250	910	2,570	460	334	264	936
20	346	680	680	720	640	2,680	858	2,650	429	308	402	712
21	331	665	620	800	570	1,910	819	3,110	496	301	312	546
22	324	559	807	920	540	1,550	799	3,590	2,720	301	294	510
23	398	532	1,040	1,690	527	1,200	819	2,570	1,970	274	277	670
24	549	532	956	1,910	487	1,080	780	1,850	1,290	246	229	631
25	559	554	818	1,390	473	1,020	730	1,330	978	223	200	537
26	496	801	750	1,140	478	1,150	664	1,010	670	233	184	438
27	438	1,400	734	962	460	1,310	627	923	555	469	181	362
28	455	1,200	696	854	473	1,150	754	910	492	519	188	330
29	1,070	956	577	739	-----	1,010	832	1,050	877	609	210	301
30	1,520	784	620	606	-----	949	760	1,170	1,620	591	243	277
31	1,120	-----	902	540	-----	949	-----	1,100	-----	424	240	-----
TOTAL	16,310	35,954	30,412	32,284	26,791	59,855	44,337	43,120	26,924	14,757	9,404	12,718
MEAN	526	1,198	981	1,041	957	1,931	1,478	1,391	897	476	303	424
MAX	1,520	4,490	2,910	3,650	4,180	6,330	4,220	3,590	2,720	1,160	523	936
MIN	324	532	577	505	460	446	627	664	429	223	181	213

CAL YR 1972 TOTAL 371,540 MEAN 1,015 MAX 8,890 MIN 229
WTR YR 1973 TOTAL 352,866 MEAN 967 MAX 6,330 MIN 181

PEAK DISCHARGE (BASE, 3,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	2400	9.13	5,720	3-09	0530	8.44	4,080
1-01	2215	8.50	4,200	3-18	1315	9.64	7,340
2-03	2115	8.88	5,100	4-05	1830	8.62	4,820

STREAMS TRIBUTARY TO LAKE ONTARIO

249

04253500 MIDDLE BRANCH MOOSE RIVER AT OLD FORGE, N.Y.

LOCATION.--Lat 43°42'50", long 74°58'10", Herkimer County, on left bank in Old Forge, 150 ft (46 m) downstream from bridge on State Highway 28, 250 ft (76 m) downstream from dam on First Lake, and 1.2 mi (1.9 km) upstream from North Branch Moose River.

DRAINAGE AREA.--52.1 mi² (135 km²).

PERIOD OF RECORD.--October 1911 to September 1973 (discontinued). Monthly discharge only for October 1911, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 1,690.63 ft (515.304 m) above mean sea level. Prior to Oct. 10, 1963, nonrecording gage at site 150 ft (46 m) downstream at same datum. From Oct. 10, 1963 to Jan. 11, 1966, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--62 years, 104 ft³/s (2.945 m³/s).

EXTREMES.--Current year: Maximum daily discharge, 434 ft³/s (12.3 m³/s) Dec. 23; maximum gage height, 4.43 ft (1.350 m) Mar. 18 (backwater from North Branch of Moose River); minimum daily discharge, 2.5 ft³/s (0.071 m³/s) Dec. 1-5.
Period of record: Maximum daily discharge, 862 ft³/s (24.4 m³/s) Mar. 23, 1921, from rating curve extended above 450 ft³/s (12.7 m³/s); minimum daily, 0.04 ft³/s (0.001 m³/s) Mar. 20, 21, 24, 1968.

REMARKS.--Records fair except those for period of doubtful or no gage-height record, which are poor. Flow regulated by Fulton Chain of Lakes since about 1880, now by dams on First Lake (formerly Old Forge Lake) at Old Forge and on Sixth Lake at Inlet (combined capacity, about 1,200 mil ft³ (33.984 hm³) with 12-inch flashboards at Old Forge).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	85	2.5	227	167	275	165	14	106	94	60	9.4
2	106	86	2.5	224	53	285	245	14	68	18	42	8.2
3	106	87	2.5	224	54	317	337	15	67	17	20	8.6
4	106	87	2.5	224	55	302	370	15	65	18	20	107
5	123	87	2.5	238	56	297	370	15	67	28	20	162
6	238	89	2.6	247	73	312	366	15	68	41	19	164
7	310	87	126	245	113	322	340	15	70	46	19	164
8	305	138	364	249	82	325	273	15	140	46	19	162
9	300	185	364	251	29	343	203	15	168	46	19	160
10	118	191	307	229	175	364	193	15	166	46	19	160
11	9.6	199	15	229	175	350	107	15	69	46	20	158
12	11	227	17	245	173	358	36	15	40	37	33	158
13	11	364	18	251	175	370	20	15	69	19	40	168
14	11	408	19	249	175	370	16	15	102	18	30	205
15	11	402	19	247	175	370	14	18	66	26	20	203
16	11	391	19	235	175	370	14	18	66	41	20	201
17	11	391	18	233	167	370	13	18	67	33	12	199
18	11	386	18	227	163	370	13	19	64	21	10	168
19	11	377	18	212	163	370	13	20	64	20	11	113
20	11	369	19	205	183	370	14	24	88	20	11	112
21	23	369	19	195	216	370	14	47	110	20	11	112
22	30	361	195	193	183	370	14	200	112	20	11	113
23	31	350	434	191	150	370	15	370	81	20	11	112
24	56	350	358	207	143	353	15	384	59	20	9.0	112
25	83	360	229	205	185	337	15	357	54	20	8.0	112
26	85	350	20	212	227	332	14	247	72	20	8.0	112
27	86	350	17	207	224	312	15	128	106	20	9.0	88
28	86	340	17	207	245	235	14	103	96	30	8.8	100
29	86	340	75	207	-----	263	15	116	93	186	8.6	113
30	87	110	229	203	-----	133	14	116	108	121	9.0	112
31	86	-----	220	209	-----	131	-----	115	-----	63	9.4	-----
TOTAL	2,666.6	7,916	3,169.1	6,927	4,154	10,016	3,267	2,508	2,571	1,221	566.8	3,876.2
MEAN	86.0	264	102	223	148	323	109	80.9	85.7	39.4	18.3	129
MAX	310	408	434	251	245	370	370	384	168	186	60	205
MIN	9.6	85	2.5	191	29	131	13	14	40	17	8.0	8.2

CAL YR 1972 TOTAL 51,208.7 MEAN 140 MAX 750 MIN 2.5
WTR YR 1973 TOTAL 48,858.7 MEAN 134 MAX 434 MIN 2.5

NOTE.--Doubtful or no gage-height record June 29 to Aug. 28.

STREAMS TRIBUTARY TO LAKE ONTARIO

04256000 INDEPENDENCE RIVER AT DONNATTSBURG, N.Y.

LOCATION.--Lat 43°44'50", long 75°20'05", Lewis County, 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.

DRAINAGE AREA.--91.7 mi² (238 km²).

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.

AVERAGE DISCHARGE.--31 years, 184 ft³/s (5.211 m³/s) (27.23 in/yr (691.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 1,900 ft³/s (53.8 m³/s) Mar. 18 (gage height, 6.96 ft (2.121 m)); minimum, 34 ft³/s (0.96 m³/s) July 25-26, Aug. 31 (gage height, 3.08 ft (0.939 m)).

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)).

REMARKS.--Records good except those for winter periods, which are poor. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	153	194	400	170	66	310	222	310	203	95	42
2	86	135	176	1,270	210	68	1,310	203	244	144	94	42
3	67	210	171	651	829	70	1,200	215	177	109	218	40
4	55	255	163	398	1,070	80	751	287	159	95	149	36
5	48	242	171	300	661	130	787	273	151	135	99	35
6	44	245	328	222	398	200	665	257	151	132	75	71
7	52	194	1,070	150	307	350	498	215	338	109	62	169
8	55	233	847	140	242	977	422	174	406	85	54	111
9	58	1,220	477	140	180	1,270	357	167	260	72	50	75
10	56	1,060	335	140	150	751	328	244	186	65	46	59
11	52	481	258	140	140	512	317	280	146	62	64	51
12	49	328	210	130	130	690	270	277	121	58	132	45
13	52	258	239	130	130	1,070	240	263	180	56	95	41
14	56	216	300	130	130	685	218	218	180	61	71	42
15	58	194	261	130	130	443	218	186	146	62	66	58
16	61	166	200	130	130	472	244	169	121	59	62	71
17	62	149	170	130	130	597	293	156	115	54	53	61
18	61	144	160	130	130	1,530	310	240	101	51	50	68
19	58	128	160	150	120	877	257	451	95	46	58	119
20	55	128	150	170	110	472	212	660	88	44	54	111
21	52	120	150	200	100	250	183	971	113	44	47	88
22	48	115	150	300	98	230	180	1,100	485	42	46	82
23	65	111	236	500	88	210	203	590	383	41	45	161
24	140	111	255	680	82	210	206	364	237	39	45	177
25	173	109	219	503	76	220	172	273	161	35	46	142
26	140	171	197	338	72	234	151	222	130	37	42	111
27	109	391	183	240	68	267	139	194	107	47	39	88
28	91	383	173	200	66	250	172	174	95	85	37	74
29	124	277	150	160	-----	215	218	174	172	247	36	65
30	248	213	140	150	-----	197	250	164	277	244	36	57
31	222	-----	150	150	-----	189	-----	212	-----	139	35	-----
TOTAL	2,588	8,140	8,043	8,602	6,147	13,782	11,081	9,595	5,835	2,702	2,101	2,392
MEAN	83.5	271	259	277	220	445	369	310	195	87.2	67.8	79.7
MAX	248	1,220	1,070	1,270	1,070	1,530	1,310	1,100	485	247	218	177
MIN	44	109	140	130	66	66	139	156	88	35	35	35
CFSM	.91	2.96	2.82	3.02	2.40	4.85	4.02	3.38	2.13	.95	.74	.87
IN.	1.05	3.30	3.26	3.49	2.49	5.59	4.50	3.89	2.37	1.10	.85	.97

CAL YR 1972	TOTAL 618,775	MEAN 1,691	MAX 2,050	MIN 32	CFSM 18.4	IN 251.02
WTR YR 1973	TOTAL 81,008	MEAN 222	MAX 1,530	MIN 35	CFSM 2.42	IN 32.86

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	1930	6.66	1,660	3-09	0230	6.30	1,400
12-07	1800	6.09	1,250	3-18	1400	6.96	1,900
1-02	0200	6.49	1,530	4-02	1500	6.51	1,550
2-04	0030	6.04	1,220	5-22	0300	6.11	1,270

04256500 STILLWATER RESERVOIR NEAR BEAVER RIVER, N.Y.

LOCATION.--Lat 43°53'50", long 75°03'05", Herkimer County, 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, month-end 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.

EXTREMES.--Current year: Maximum observed elevation, 1,679.01 ft (511.762 m) May 26, 27 (contents, 4,629 mil ft³ (131 hm³)); minimum observed, 1,659.80 ft (505.907 m) Mar. 8 (contents, 798 mil ft³ (22.6 hm³)).
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)).

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.

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

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

1,658.0	604
1,660.0	821
1,665.0	1,518
1,670.0	2,431
1,675.0	3,556
1,680.0	4,916

GAGE-HEIGHT (*) IN FEET, AT 0800, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74.27	71.83	74.25	75.23	72.44	64.41	70.55	76.41	79.00	78.34	77.35	73.39
2	74.30	71.81	74.22	75.83	72.21	64.04	71.50	76.45	79.00	78.38	77.30	73.20
3	74.23	71.91	74.15	76.15	72.57	63.65	72.33	76.53	78.95	78.35	77.30	73.04
4	74.18	71.99	74.09	76.28	73.05	63.35	72.85	76.61	78.90	78.35	77.23	72.92
5	74.10	72.05	74.05	76.26	73.13	63.01	73.39	76.72	78.87	78.38	77.13	72.73
6	74.00	72.16	73.97	76.22	73.04	62.45	73.79	76.86	78.83	78.34	77.02	72.60
7	73.95	72.18	74.45	76.12	72.89	61.98	74.14	76.96	78.83	78.32	76.90	72.52
8	73.86	72.24	74.84	76.00	72.64	59.80	74.45	76.97	78.86	78.28	76.77	72.34
9	73.77	72.77	75.10	75.88	72.40	59.81	74.69	76.97	78.83	78.23	76.63	72.13
10	73.72	73.41	75.32	75.78	72.10	60.77	74.95	77.04	78.80	78.21	76.49	71.83
11	73.64	73.72	75.48	75.66	71.73	61.40	75.02	77.11	78.72	78.16	76.45	71.80
12	73.58	73.94	75.43	75.53	71.36	62.20	75.08	77.21	78.65	78.10	76.32	71.66
13	73.52	74.14	75.43	75.33	70.98	63.34	75.09	77.33	78.64	78.05	76.19	71.55
14	73.43	74.18	75.47	75.12	70.58	64.13	75.10	77.43	78.60	78.07	76.07	71.39
15	73.37	74.24	75.46	74.93	70.11	64.70	75.10	77.44	78.49	78.01	75.93	71.30
16	73.28	74.25	75.55	74.70	69.70	65.47	75.09	77.44	78.38	77.98	75.80	71.14
17	73.20	74.27	75.56	74.47	69.31	66.14	75.09	77.46	78.30	77.93	75.67	70.98
18	73.17	74.26	75.51	74.27	68.70	67.76	75.19	77.60	78.18	77.88	75.53	70.91
19	73.12	74.24	75.50	74.08	68.30	68.72	75.32	77.77	78.11	77.83	75.40	70.93
20	73.05	74.26	75.48	73.94	67.89	69.24	75.43	78.05	78.05	77.77	75.26	70.86
21	72.85	74.19	75.42	73.80	67.49	69.61	75.49	78.42	77.97	77.73	75.11	70.78
22	72.67	74.12	75.39	73.62	67.10	69.90	75.57	78.80	78.17	77.67	74.95	70.80
23	72.55	74.03	75.37	73.65	66.73	70.00	75.67	78.94	78.23	77.62	74.79	70.97
24	72.43	73.95	75.33	73.68	66.35	70.08	75.77	78.97	78.34	77.54	74.63	71.07
25	72.33	73.86	75.28	73.62	65.97	70.11	75.84	79.00	78.41	77.46	74.48	71.03
26	72.19	73.87	75.23	73.50	65.59	70.15	75.89	79.01	78.37	77.34	74.32	70.96
27	72.04	73.94	75.17	73.34	65.18	70.19	75.95	79.01	78.30	77.22	74.17	70.88
28	71.90	74.03	75.12	73.18	64.79	70.22	76.01	78.98	78.25	77.14	74.03	70.83
29	71.83	74.16	75.04	73.00	-----	70.23	76.14	78.97	78.27	77.29	73.88	70.84
30	71.82	74.25	74.97	72.82	-----	70.22	76.27	78.95	78.26	77.36	73.72	70.86
31	71.83	-----	74.88	72.70	-----	70.34	-----	78.96	-----	77.39	73.58	-----
MEAN	73.17	73.48	75.05	74.67	69.80	66.05	74.76	77.75	78.52	77.89	75.69	71.61
MAX	74.30	74.27	75.56	76.28	73.13	70.34	76.27	79.01	79.00	78.38	77.35	73.39
MIN	71.82	71.81	73.97	72.70	64.79	59.80	70.55	76.41	77.97	77.14	73.58	70.78
(#)	2,818	3,373	3,584	2,973	1,445	2,530	3,902	4,623	4,430	4,167	3,184	2,611
(#)	-208	+214	+78.8	-228	-632	+405	+529	+269	-74.5	-98.2	-367	-221
CAL YR 1972	MEAN 72.62		MAX 79.40	MIN 59.50	+30.0							
WTR YR 1973	MEAN 74.06		MAX 79.01	MIN 59.80	-24.2							

(#) Contents, in millions of cubic feet, at 2400 on last day of month by interpolation.

(#) Change in contents, equivalent in cubic feet per second.

* Add 1,600 to obtain elevations above mean sea level.

STREAMS TRIBUTARY TO LAKE ONTARIO

04257000 BEAVER RIVER BELOW STILLWATER DAM, NEAR BEAVER RIVER, N.Y.

LOCATION.--Lat 43°53'50", long 75°03'05", Herkimer County, 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.

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.

AVERAGE DISCHARGE.--65 years, 365 ft³/s (10.34 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum daily discharge, 1,540 ft³/s (43.6 m³/s) Feb. 12, 21,22; minimum daily, 22 ft³/s (0.62 m³/s) Oct. 1.

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.

REVISIONS.--The maximum daily discharge for the water year 1971 has been revised to 3,100 ft³/s (87.8 m³/s) May 13, 1971, superseding figure published in WRD NY 1971.

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 of gate openings and reservoir elevations furnished by Board of Hudson River-Black River Regulating District.

REVISIONS (WATER YEARS).--WSP 714: Drainage area. WRD N.Y. 1967: 1966. Revised figures of discharge, in cubic feet per second, for water year 1971, superseding figures published in WRD NY 1971, are given below:

DATE	DISCHARGE	DATE	DISCHARGE	DATE	DISCHARGE
May 11	1,320	May 14	2,720	May 17	2,180
12	2,440	15	2,500	18	1,560
13	3,100	16	2,250		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	304	532	328	1,040	1,420	62	133	596	67	491	618
2	218	304	532	61	994	1,410	63	295	597	212	566	616
3	316	304	532	297	265	1,400	65	295	595	283	565	614
4	316	304	532	587	652	1,380	65	215	593	283	565	613
5	316	304	546	831	919	1,360	65	53	592	284	564	658
6	315	305	583	830	978	1,340	66	53	591	283	564	680
7	315	305	355	829	1,080	1,320	67	217	591	282	589	678
8	314	305	72	827	1,180	883	67	299	592	281	601	676
9	314	131	72	826	1,180	50	67	299	591	280	600	674
10	313	36	72	825	1,300	52	385	299	590	280	600	519
11	313	37	423	828	1,360	52	545	171	587	279	599	434
12	312	36	598	834	1,350	54	545	53	625	278	597	434
13	312	280	733	968	1,340	366	545	53	644	278	595	485
14	312	402	802	964	1,450	56	545	222	643	278	594	521
15	312	402	757	961	1,540	57	545	306	640	277	592	520
16	312	402	613	959	1,520	58	545	306	637	277	591	519
17	311	402	613	955	1,510	58	545	307	633	276	590	518
18	311	402	613	953	1,490	59	370	309	571	274	589	458
19	311	402	613	949	1,510	216	282	142	410	274	586	428
20	246	402	612	947	1,520	296	282	61	409	273	573	427
21	593	489	612	951	1,540	324	283	234	408	273	538	321
22	592	532	612	953	1,540	381	300	488	410	272	565	62
23	590	532	611	952	1,530	598	300	670	180	271	578	61
24	589	531	611	952	1,510	599	300	672	66	334	577	307
25	587	529	610	952	1,500	600	300	532	300	437	575	430
26	585	531	610	950	1,480	600	300	597	416	499	574	430
27	584	399	610	539	1,460	600	272	597	415	565	573	376
28	582	71	609	734	1,420	601	52	595	414	564	572	265
29	581	71	607	733	-----	601	52	594	413	300	569	62
30	500	292	607	931	-----	466	57	593	182	54	568	62
31	304	-----	606	973	-----	61	-----	576	-----	301	595	-----
TOTAL	11,898	9,746	16,910	25,179	36,158	17,318	7,937	10,236	14,931	9,169	17,895	13,466
MEAN	384	325	545	812	1,291	559	265	330	498	296	577	449
MAX	593	532	802	973	1,540	1,420	545	672	644	565	601	680
MIN	22	36	72	61	265	50	52	53	66	54	491	61

CAL YR 1972 TOTAL 158,332 MEAN 433 MAX 955 MIN 14
WTR YR 1973 TOTAL 190,843 MEAN 523 MAX 1,540 MIN 22

LOCATION.--Lat 43°53'50", long 75°24'16", Lewis County, 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.

AVERAGE DISCHARGE.--43 years, 570 ft³/s (16.14 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,440 ft³/s (69.1 m³/s) Feb. 3 (gage height, 5.03 ft (1.533 m)); minimum, 18 ft³/s (0.51 m³/s) Aug. 19 (gage height, 0.75 ft (0.229 m)); minimum daily, 35 ft³/s (0.99 m³/s) Aug. 19.
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.

REVISIONS.--WSP 759: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	911	928	1,430	1,410	1,240	515	440	746	122	724	564
2	403	789	726	1,920	1,490	1,190	1,020	497	599	391	838	583
3	282	769	495	1,130	1,700	992	906	552	685	629	823	588
4	375	581	724	984	1,570	1,390	963	500	824	518	672	507
5	356	407	630	988	1,380	1,500	1,420	354	867	516	691	529
6	387	523	904	907	1,300	1,370	1,150	219	930	576	782	723
7	392	714	954	980	1,280	1,940	970	371	931	254	661	554
8	401	716	744	1,010	1,280	1,840	906	470	728	184	804	607
9	397	1,120	1,030	928	1,340	1,970	648	444	627	335	757	675
10	332	913	988	893	1,530	1,840	920	489	597	339	762	567
11	355	930	824	865	1,610	1,500	963	473	750	418	732	553
12	381	774	858	1,010	1,590	1,240	1,010	441	877	444	615	390
13	391	810	893	1,010	1,600	1,170	956	210	796	408	585	377
14	371	659	865	865	1,490	1,190	852	425	618	410	576	490
15	372	559	784	950	1,610	1,190	413	528	748	99	710	484
16	393	502	714	1,020	1,710	1,130	818	614	621	240	812	309
17	375	477	851	1,010	1,670	1,140	671	418	669	287	768	465
18	424	316	824	1,060	1,560	1,180	563	528	756	292	293	576
19	397	292	784	1,100	1,600	785	613	919	803	312	35	509
20	455	667	800	1,140	1,620	892	520	704	739	326	196	464
21	496	819	760	1,440	1,460	1,170	382	929	614	322	443	412
22	648	537	840	1,130	1,500	1,070	218	1,380	583	148	546	461
23	652	548	920	1,800	1,590	927	360	1,360	415	232	591	365
24	723	550	1,000	1,730	1,620	579	465	1,470	137	296	581	301
25	833	550	1,010	1,620	1,540	322	408	1,110	505	354	665	334
26	736	579	950	1,470	1,400	404	457	1,020	435	471	604	625
27	687	822	907	1,240	1,400	568	560	842	488	557	557	556
28	776	894	838	1,080	1,690	906	528	700	564	623	565	552
29	623	928	831	989	-----	935	449	597	644	730	556	252
30	583	950	824	1,260	-----	934	562	802	470	524	547	66
31	745	-----	980	1,260	-----	590	-----	1,490	-----	644	547	-----
TOTAL	14,808	20,606	26,180	36,219	42,540	35,094	21,186	21,296	19,766	12,001	19,038	14,438
MEAN	478	687	845	1,168	1,519	1,132	706	687	659	387	614	481
MAX	833	1,120	1,030	1,920	1,710	1,970	1,420	1,490	931	730	838	723
MIN	67	292	495	865	1,280	322	218	210	137	99	35	66
CAL YR 1972	TOTAL 250,607											

04260500 BLACK RIVER AT WATERTOWN, N.Y.

LOCATION.--Lat 43°59'08", long 75°55'30", Jefferson County, on downstream side of right abutment of Vanduzee Street Bridge at Watertown, 3.5 mi (5.6 km) upstream from Philomel Creek.

DRAINAGE AREA.--1,876 mi² (4,859 km²).

PERIOD OF RECORD.--July 1920 to current year.

GAGE.--Water-stage recorder. Datum of gage is 374.88 ft (114.263 m) above mean sea level. Prior to Sept. 3, 1921, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--53 years, 3,870 ft³/s (109.6 m³/s).

EXTREMES.--Current year: Maximum discharge, 19,500 ft³/s (552 m³/s) Mar. 20 (gage height, 8.14 ft (2.481 m)); minimum, 196 ft³/s (5.55 m³/s) July 23 (gage height, 0.49 ft (0.149 m)); minimum daily, 859 ft³/s (24.3 m³/s) Aug. 20.

Period of record: Maximum discharge, 36,700 ft³/s (1,040 m³/s) Apr. 5, 1963 (gage height, 11.57 ft (3.527 m)); minimum, 10 ft³/s (0.28 m³/s) Sept. 2, 1934 (gage height, -0.19 ft (-0.058 m)); minimum daily, 137 ft³/s (3.88 m³/s) Sept. 4, 1939. Maximum discharge known, about 39,700 ft³/s (1,120 m³/s) Apr. 23, 1869 (from New York State Museum Bulletin 85).

REMARKS.--Records fair. 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. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 759: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,240	5,130	6,360	9,560	4,530	3,400	5,010	4,730	5,560	3,950	2,520	1,210
2	2,480	4,530	5,250	12,500	5,230	3,200	9,870	4,210	5,170	4,040	2,160	1,220
3	2,920	4,240	4,530	15,400	10,800	3,200	12,600	3,970	4,730	3,640	2,230	1,110
4	2,300	4,930	3,950	15,200	12,500	5,050	14,900	4,420	4,100	2,900	2,520	1,780
5	2,010	5,180	3,060	12,700	15,800	7,100	16,700	4,570	3,840	2,450	2,200	1,600
6	1,910	5,250	5,230	9,520	15,600	7,910	16,300	4,450	3,620	2,730	1,940	1,280
7	1,970	5,180	9,730	5,750	13,000	9,140	14,900	4,020	4,120	2,680	2,010	1,980
8	2,010	5,150	8,400	5,130	10,500	12,600	12,900	3,760	5,400	1,990	1,690	2,820
9	2,240	8,540	9,310	5,750	8,400	14,300	10,900	3,480	5,580	1,630	1,640	2,950
10	2,270	9,840	11,800	5,450	7,100	16,400	9,490	3,400	5,210	1,680	1,630	2,530
11	2,160	12,500	10,900	4,800	5,830	15,900	8,580	4,340	4,400	1,640	1,650	2,040
12	2,030	13,200	9,660	4,650	5,050	14,000	7,840	4,940	3,840	1,630	1,920	1,760
13	1,690	11,400	8,020	4,980	4,730	13,300	7,250	5,260	3,360	1,560	2,470	1,500
14	1,670	9,590	8,610	4,240	4,500	13,700	6,500	5,260	3,130	1,470	2,250	1,430
15	1,860	7,810	7,520	4,150	4,040	13,700	5,740	5,170	2,910	1,980	2,130	1,550
16	1,620	6,630	5,080	4,100	4,260	12,400	5,100	4,620	2,910	2,340	2,280	1,780
17	1,850	5,600	3,380	3,970	4,060	12,300	5,030	3,990	2,560	2,130	1,980	1,780
18	1,860	4,750	3,880	4,480	4,170	14,600	4,780	4,060	2,580	1,910	1,940	2,350
19	2,040	4,020	4,210	4,830	3,800	17,700	4,750	5,830	2,700	1,600	1,390	2,230
20	1,860	3,710	4,390	6,030	3,990	18,600	4,730	6,990	2,610	1,440	859	2,650
21	1,740	3,990	4,730	6,140	3,970	15,000	4,530	7,700	2,350	1,330	1,440	2,880
22	1,660	3,800	4,630	6,300	3,820	12,000	4,060	9,380	2,580	1,230	1,630	2,550
23	1,980	3,110	4,950	8,680	3,950	9,800	3,930	10,600	4,140	1,060	1,670	2,600
24	2,330	3,030	5,400	10,000	4,280	8,230	4,170	11,300	4,470	1,200	1,510	3,740
25	2,790	3,300	5,880	10,600	3,970	6,830	4,080	10,500	3,840	1,160	1,510	3,600
26	3,300	3,770	6,170	10,700	3,690	6,190	3,740	8,820	3,380	1,060	1,490	3,060
27	3,030	6,660	6,330	9,980	3,490	5,930	3,440	7,190	2,680	1,210	1,290	2,700
28	2,790	7,580	5,880	8,720	3,640	5,860	3,740	6,040	2,290	1,540	1,390	2,340
29	2,760	7,700	5,000	7,020	-----	5,700	4,870	5,030	2,290	2,560	1,340	2,200
30	3,930	7,220	4,240	5,600	-----	5,350	4,960	4,680	3,130	3,150	1,380	1,670
31	4,980	-----	4,480	4,850	-----	4,960	-----	4,820	-----	2,840	1,260	-----
TOTAL	71,280	187,340	190,960	231,780	178,700	314,350	225,390	177,530	109,480	63,730	55,319	64,890
MEAN	2,299	6,245	6,160	7,477	6,382	10,140	7,513	5,727	3,649	2,056	1,784	2,163
MAX	4,980	13,200	11,800	15,400	15,800	18,600	16,700	11,300	5,580	4,040	2,520	3,740
MIN	1,240	3,030	3,060	3,970	3,490	3,200	3,440	3,400	2,290	1,060	859	1,110
CAL YR 1972	TOTAL 1,923,770	MEAN 5,256	MAX 29,700	MIN 1,240								
WTR YR 1973	TOTAL 1,870,749	MEAN 5,125	MAX 18,600	MIN 859								

PEAK DISCHARGE (BASE, 17,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-03	2130	7.61	17,000	3-20	0045	8.14	19,500
7-06	1045	7.63	17,100	4-05	1715	7.62	17,000
3-10	1415	7.63	17,100				

Lakes & Reservoirs in Streams Tributary to Lake Ontario

04221990 Rushford Lake--Lat 42°22'49", long 78°11'00", Allegany County, 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 supplied by Rochester Gas & Electric Corp.)

04224000 Mount Morris Lake near Mount Morris, N.Y. (see station for daily mean elevations, skeleton capacity table, and monthly contents).

04227980 Conesus Lake near Lakeville, N.Y. (see station for daily mean gage heights).

04228845 Honeoye Lake near Honeoye, N.Y. (see station for daily mean gage heights).

04228950 Canadice Lake near Hemlock, N.Y. (see station 04229000 for observed and adjusted monthly mean discharges in cfs).

04232400 Seneca Lake at Watkins Glen, N.Y. (see station for daily mean gage heights).

04232450 Keuka Lake at Hommondsport, N.Y. (see station for daily mean gage heights).

04233500 Cayuga Lake at Ithaca, N.Y. (see station for daily mean gage heights).

04234500 Canandaigua Lake at Canandaigua, N.Y. (see station for daily mean gage heights).

04235396 Owasco Lake near Auburn, N.Y. (see station for daily mean gage heights).

04236000 Skaneateles Lake at Skaneateles, N.Y. (see station for daily mean gage heights).

04238500 Onondaga Reservoir near Nedrow, N.Y. (see station for daily mean elevations, skeleton capacity table, monthly contents, and change in contents).

04253300 Sixth Lake--Lat 43°44'43", long 74°46'58", Hamilton County, on dam at outlet of Sixth Lake at Inlet, 11.2 mi (18.0 km) upstream from dam at Old Forge. Drainage Area mi². Period of record November 1911 to current year. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Hudson River-Black River Regulating District). Extremes for current year: Maximum contents observed, 299.8 mil ft³ (8.490 hm³) May 21 (elevation, 1,786.10 ft (544.403 m)); minimum observed, 168.7 mil ft³ (4.778 h m³) Mar. 31 (elevation, 1,781.65 ft (543.047 m)). 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)).

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 h m³) between minimum operating level (elevation, 1,775.1 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.

04253400 First Lake (formerly published as Old Forge Reservoir).--Lat 43°42'44", long 74°58'12", Herkimer County, at dam on Middle Branch Moose River, 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. 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). Extremes for current year: Maximum contents observed, 926.8 mil ft³ (26.25 m³) May 23 (gage height, 7.12 ft (2.170 m)); minimum observed, 486.8 mil ft³ (13.786 hm³) Nov. 30 (gage height, 3.76 ft (1.146 m)). Extremes for period of record: Maximum contents observed, 1,019 mil ft³ (28.85 m³) 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)).

The First through Fifth Lakes of Fulton Chain Lakes are partially formed and controlled by a concrete dam with twelve inch flash boards. 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 is 895.6 mil ft³ (25.36 hm³) with flash boards (gage height, 6.89 ft (2.100 m)). Usable capacity without flash boards, 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.

04256500 Stillwater Reservoir near Beaver River, N.Y. (see station for daily elevations, skeleton capacity table, monthly contents, and change in contents).

MONTHEND GAGE HEIGHTS AND CONTENTS, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	Elevation (feet)	Contents (cubic feet)	Change in contents (equivalent in cfs)	Gage height (feet)	Contents (cubic feet)	Change in contents (equivalent in cfs)
04253300 Sixth Lake f				04253400 First Lake f		
Sept. 30.....	1,785.10	267.9		5.75	743.5	
Oct. 31.....	1,785.53	281.6	+ 5.11	5.30	685.0	-21.8
Nov. 30.....	1,784.23	240.4	-15.9	3.95	510.5	-67.3
Dec. 31.....	1,784.15	238.0	- 0.90	5.77	746.1	+88.0
CAL YR 1972.....			- 1.84			+ 3.33
Jan. 31.....	1,783.99	233.0	- 1.87	4.75	613.5	-49.5
Feb. 28.....	1,783.47	216.8	- 6.70	4.57	590.1	- 9.67
Mar. 31.....	1,781.88	167.8	-18.3	3.94	509.2	-30.2
Apr. 30.....	1,784.25	241.0	+28.2	5.20	672.0	+62.8
May 31.....	1,785.53	281.6	+15.2	6.89	895.6	+83.5
June 30.....	1,785.57	282.8	+ 0.46	6.84	888.6	- 2.70
July 31.....	1,785.02	265.4	- 6.50	6.85	890.0	+ 0.52
Aug. 31.....	1,785.05	266.4	+ 0.37	6.81	884.4	- 2.09
Sept. 30.....	1,783.62	221.4	-17.4	5.55	717.5	-64.4
WTR YR 1973.....			- 1.47			- 0.82

NOTE: All figures of contents expressed in millions.

STREAMS TRIBUTARY TO LAKE ONTARIO

Diversions affecting streams tributary to Lake Ontario

Some water is diverted from Tonawanda Creek, Niagara basin, into Erie (Barge) Canal which can end up in Lake Ontario by way of the Oswego basin.

Diversions from Niagara River basin into Oswego River through Erie (Barge) Canal (see station 04219000).

Diversions from Fall Creek by Cornell University (see station 04234000).

Diversions from Canandaigua Lake for municipal supply of Newark and Palmyra (see station 04234500).

Diversions from East Branch Fish Creek for municipal supply for Rome and Oneida (see station 04242500).

Diversions from Gate House Pond, West Branch of Tioughnioga River basin to Onondaga Creek (see station 04239000).

Diversions from Tioughnioga River basin into DeRuyter Reservoir, Oswego River basin (see station 04246500).

Diversions from Black River, tributary to Lake Ontario through Black River Canal into Mohawk River, Hudson River basin (see station 04252000).

ST. LAWRENCE RIVER BASIN

257

04261000 OSWEGATCHIE RIVER AT CRANBERRY LAKE, N.Y.

LOCATION.--Lat 44°13'15", long 74°51'00", St. Lawrence County, 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.

AVERAGE DISCHARGE.--50 years, 285 ft³/s (8.071 m³/s) (unadjusted).

EXTREMES.--Current year: Maximum daily discharge, 994 ft³/s (28.2 m³/s) May 24; minimum daily, 110 ft³/s (3.12 m³/s) Apr. 3, June 30, July 1.

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.

REMARKS.--Records good. Since 1867, flow regulated by Cranberry Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	137	295	523	592	527	217	323	293	110	205	194
2	207	137	292	528	588	489	182	323	293	138	205	194
3	204	137	292	532	594	418	110	323	293	194	205	194
4	204	137	292	539	599	416	111	323	293	194	205	194
5	204	138	292	588	602	416	113	323	293	194	205	194
6	204	138	295	680	604	416	114	323	290	192	205	194
7	204	150	295	676	604	337	148	323	290	192	202	194
8	204	212	298	668	604	173	214	323	290	192	202	194
9	204	283	298	662	604	177	301	323	290	192	202	194
10	204	307	301	655	602	247	586	323	290	192	202	194
11	187	371	301	650	598	388	780	326	276	218	202	194
12	135	512	301	645	594	394	775	326	251	276	202	194
13	137	671	304	640	589	402	775	326	251	276	202	192
14	137	667	304	635	585	388	792	326	251	355	202	192
15	137	667	365	629	582	349	786	326	238	537	202	192
16	137	662	538	623	579	301	735	323	213	537	202	192
17	137	658	538	619	576	201	581	323	213	422	202	192
18	137	653	521	614	573	227	581	332	213	202	200	194
19	137	644	534	613	569	284	500	732	216	202	200	194
20	137	640	533	612	564	308	320	732	216	202	200	194
21	135	640	533	609	558	452	320	754	213	202	200	194
22	135	635	531	607	553	453	323	818	213	202	200	194
23	135	525	533	609	550	453	323	884	213	202	198	194
24	135	289	534	609	548	453	323	994	211	202	198	194
25	137	289	531	608	545	453	320	981	211	202	198	196
26	135	292	529	608	541	453	323	962	211	202	198	196
27	135	292	525	607	537	452	323	942	211	202	196	196
28	137	292	523	604	533	450	323	866	211	200	198	196
29	137	292	521	603	-----	375	323	590	181	202	198	196
30	137	292	519	599	-----	217	323	290	110	202	196	196
31	137	-----	516	598	-----	217	-----	293	-----	205	196	-----
TOTAL	4,959	11,759	12,984	18,992	16,167	11,286	11,945	15,676	7,238	7,240	6,228	5,822
MEAN	160	392	419	613	577	364	398	506	241	234	201	194
MAX	207	671	538	680	604	527	792	994	293	537	205	196
MIN	135	137	292	523	533	173	110	290	110	110	196	192

CAL YR 1972 TOTAL 127,205 MEAN 348 MAX 852 MIN 135
WTR YR 1973 TOTAL 130,296 MEAN 357 MAX 994 MIN 110

ST. LAWRENCE RIVER BASIN

04262500 WEST BRANCH OSWEGATCHIE RIVER NEAR HARRISVILLE, N.Y.

LOCATION.--Lat 44°11'08", long 75°19'52", Lewis County, 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.

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.

AVERAGE DISCHARGE.--57 years, 500 ft³/s (14.16 m³/s) (26.32 in/yr (668.5 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 3,300 ft³/s (93.5 m³/s) Jan. 2 (gage height, 6.41 ft (1.954 m)); minimum, 62 ft³/s (1.76 m³/s) Sept. 2, 3, 4 (gage height, 1.30 ft (0.396 m)); minimum daily, 63 ft³/s (1.78 m³/s) Sept. 2-4.
Period of record: Maximum discharge, 6,920 ft³/s (196 m³/s) Jan. 9, 1930 (gage height, 9.6 ft (2.93 m)); minimum, 25 ft³/s (0.71 m³/s) Sept. 1, 1934 (gage height, 0.86 ft (0.262 m)).

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 759: Drainage area. WSP 784: 1934.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	197	442	711	1,590	484	227	729	718	796	236	283	65
2	224	383	623	3,050	594	229	1,490	663	838	215	248	63
3	206	392	547	2,670	1,700	246	2,660	680	726	191	236	63
4	180	460	522	1,990	3,050	492	2,620	805	593	201	240	63
5	161	551	377	1,570	2,470	928	2,230	852	545	279	211	66
6	147	621	524	1,230	1,890	1,200	2,150	835	501	357	180	91
7	152	591	1,080	1,070	1,460	1,350	1,860	778	506	285	155	155
8	177	603	1,500	884	1,120	1,850	1,540	667	569	222	138	184
9	179	1,020	1,430	687	838	2,430	1,300	584	512	186	123	153
10	169	1,490	1,280	435	675	2,250	1,150	576	417	168	113	122
11	159	1,600	1,100	377	565	1,800	1,080	611	354	178	111	103
12	146	1,360	882	361	471	1,480	997	626	316	180	107	92
13	144	1,090	857	344	411	1,470	892	570	400	173	101	84
14	144	851	1,140	346	377	1,590	799	514	534	198	97	80
15	152	683	1,320	346	363	1,430	740	460	528	254	94	85
16	180	555	1,170	341	355	1,260	734	425	413	281	95	101
17	201	456	1,100	336	336	1,300	766	399	343	243	104	104
18	195	404	958	361	321	1,850	798	513	309	208	102	137
19	187	356	693	451	312	2,500	788	1,000	282	180	110	356
20	177	319	598	663	313	2,010	712	1,600	238	157	142	457
21	165	284	538	788	310	1,480	630	1,870	214	144	125	340
22	157	273	547	883	305	1,190	586	2,100	230	130	114	264
23	168	258	652	1,290	297	948	608	2,000	288	121	105	277
24	257	249	734	1,810	282	823	609	1,600	306	108	100	370
25	370	254	728	1,650	270	756	547	1,240	287	103	94	352
26	365	315	685	1,440	257	783	473	936	251	99	88	290
27	324	708	686	1,200	242	871	432	722	214	115	82	238
28	287	982	664	953	231	880	492	618	192	139	78	203
29	311	968	582	767	-----	802	619	650	194	326	75	177
30	423	860	533	634	-----	710	717	664	225	508	71	156
31	492	-----	648	567	-----	646	-----	644	-----	410	67	-----
TOTAL	6,796	19,378	25,409	31,084	20,299	37,781	31,748	26,920	12,121	6,595	3,989	5,291
MEAN	219	646	820	1,003	725	1,219	1,058	868	404	213	129	176
MAX	492	1,600	1,500	3,050	3,050	2,500	2,660	2,100	838	508	283	457
MIN	144	249	377	336	231	227	432	399	192	99	67	63
CFSM	.85	2.50	3.18	3.89	2.81	4.72	4.10	3.36	1.57	.83	.50	.68
IN.	.98	2.79	3.66	4.48	2.93	5.45	4.58	3.88	1.75	.95	.58	.76

CAL YR 1972 TOTAL 223,340 MEAN 610 MAX 4,190 MIN 78 CFSM 2.36 IN 32.20
WTR YR 1973 TOTAL 227,411 MEAN 623 MAX 3,050 MIN 63 CFSM 2.41 IN 32.79

PEAK DISCHARGE (BASE, 3,300 CFS)

DATE	TIME	G. H.	DISCHARGE
1-02	1600	6.41	3,300

ST. LAWRENCE RIVER BASIN

259

04263000 OSWEGATCHIE RIVER NEAR HEUVELTON, N.Y.

LOCATION.--Lat 44°35'58", long 75°22'45", St. Lawrence County, 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.

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.

AVERAGE DISCHARGE.--57 years, 1,675 ft³/s (47.44 m³/s).

EXTREMES.--Current year: Maximum discharge, 8,240 ft³/s (233 m³/s) Apr. 6 (gage height, 6.27 ft (1.911 m)); minimum, 138 ft³/s (3.91 m³/s) Sept. 5 (gage height, 0.59 ft (0.180 m)).

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)).

REMARKS.--Records good except those for winter periods and those for period of no gage-height record, which are poor. Since 1867, seasonal flow regulated by Cranberry Lake; slight diurnal fluctuation at low 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.

REVISIONS.--WSP 759: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	689	1,590	3,420	3,420	2,200	1,000	2,410	2,620	2,750	800	971	420
2	748	1,480	2,630	5,080	2,400	1,000	3,970	2,560	3,100	900	911	495
3	667	1,440	2,120	6,080	4,230	1,000	5,680	2,510	3,400	800	778	362
4	784	1,510	1,600	6,460	5,790	2,160	6,760	2,530	2,800	800	873	267
5	725	1,840	1,410	6,230	6,660	3,960	7,550	2,650	2,600	960	837	170
6	617	1,980	2,000	5,910	6,930	3,800	8,160	2,550	2,500	1,300	640	343
7	1,130	1,940	3,450	5,830	6,100	4,240	7,720	2,370	2,500	1,600	516	693
8	1,500	2,370	3,860	5,070	5,040	5,350	6,650	2,250	2,900	900	478	637
9	1,320	4,520	3,780	3,940	4,100	5,990	5,230	2,090	2,400	720	513	709
10	1,080	5,370	3,620	3,360	3,400	6,290	4,070	1,970	2,100	548	507	645
11	863	5,110	3,380	2,710	2,920	6,390	3,870	1,940	1,900	678	478	538
12	948	4,670	2,960	2,500	2,580	6,940	3,510	1,860	1,700	722	477	653
13	923	4,090	2,780	2,300	2,290	5,950	3,350	1,830	2,100	1,060	416	613
14	691	3,430	3,500	2,000	2,120	5,060	3,310	1,790	2,500	873	320	553
15	744	2,840	4,050	1,900	1,870	4,790	3,200	1,530	2,700	824	338	530
16	650	2,520	3,990	1,790	1,700	4,530	3,080	1,580	2,900	868	530	488
17	630	2,180	4,280	1,760	1,600	4,630	2,970	1,540	2,400	688	502	413
18	810	2,000	4,480	1,750	1,500	6,170	2,850	1,810	1,900	848	560	318
19	806	1,800	3,770	2,240	1,400	6,620	2,810	3,300	1,500	914	516	661
20	745	1,600	3,140	2,400	1,400	6,540	2,710	4,450	1,200	918	355	1,080
21	715	1,500	2,800	2,700	1,300	6,130	2,250	4,950	1,000	874	256	1,300
22	581	1,400	2,600	3,100	1,300	5,160	1,970	5,470	900	863	460	1,370
23	634	1,300	2,610	4,080	1,300	4,250	1,920	5,700	840	681	637	1,460
24	895	1,300	2,540	5,220	1,200	3,550	1,940	5,590	860	550	590	1,130
25	1,240	1,400	2,620	5,710	1,200	3,070	1,910	4,990	960	412	530	948
26	1,450	1,890	2,620	5,430	1,100	2,740	1,770	4,220	1,100	315	374	1,090
27	1,350	3,610	2,610	4,800	1,100	2,660	1,670	3,520	1,100	380	362	1,000
28	1,310	4,730	2,530	4,180	1,000	2,770	2,080	3,030	920	559	355	854
29	1,310	5,030	2,400	3,550	-----	2,720	2,670	2,960	760	708	256	693
30	1,420	4,240	2,350	3,000	-----	2,560	2,700	3,230	760	604	374	613
31	1,460	-----	2,370	2,500	-----	2,380	-----	2,940	-----	696	495	-----
TOTAL	29,635	80,680	92,270	117,000	75,730	130,400	110,740	92,330	56,950	24,363	16,205	21,046
MEAN	956	2,689	2,976	3,774	2,705	4,206	3,691	2,978	1,898	786	523	702
MAX	1,500	5,370	4,480	6,460	6,930	6,940	8,160	5,700	3,400	1,600	971	1,460
MIN	581	1,300	1,410	1,750	1,000	1,000	1,670	1,530	760	315	256	170

CAL YR 1972 TOTAL 801,143 MEAN 2,189 MAX 8,970 MIN 361
WTR YR 1973 TOTAL 847,349 MEAN 2,322 MAX 8,160 MIN 170

NOTE.-- No gage-height record June 2 to July 9.

ST. LAWRENCE RIVER MAIN STEM

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO - NEAR MASSENA, N.Y.

LOCATION.--Lat 45°00'22", long 74°47'43", Stormont County Ontario - St. Lawrence County N.Y. 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.

DRAINAGE AREA.--299,000 mi² (774,410 km²).

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.

DETERMINATION OF DISCHARGE.--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. These gages, prior to Aug. 1956 were gages of the Canadian Hydrographic Service and from August 1956 to June 1958 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.

AVERAGE DISCHARGE.--113 years (1860-1973) 240,200 ft³/s (6,802 m³/s).

EXTREMES.--Current year: Maximum daily discharge, 351,000 ft³/s (9,940 m³/s) July 11, 21, Aug. 3; minimum daily 230,000 ft³/s (6,510 m³/s) Dec. 19, 22-26, Jan. 10-12, Feb. 1, 2.

1917-73: Maximum daily discharge, 351,000 ft³/s (9,940 m³/s) July 11, 21, Aug. 3, 1973; minimum daily, 139,000 ft³/s (3,940 m³/s) Feb. 7, 1936.

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) February 1936.

REMARKS.--Flow regulated since July 1958 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, operation of which began in 1900. They 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. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records of daily discharge furnished by Buffalo District, Corps of Engineers through International St. Lawrence River Board of Control.

REVISIONS (WATER YEARS).--WSP 1437: 1870, 1871, 1881, 1883-1884, 1890.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	310,000	292,000	295,000	260,000	230,000	295,000	316,000	332,000	345,000	350,000	350,000	318,000
2	310,000	292,000	295,000	260,000	230,000	295,000	316,000	332,000	350,000	350,000	350,000	318,000
3	310,000	292,000	295,000	260,000	240,000	300,000	316,000	332,000	350,000	350,000	351,000	318,000
4	310,000	293,000	295,000	260,000	240,000	300,000	316,000	332,000	350,000	350,000	336,000	318,000
5	310,000	293,000	295,000	270,000	250,000	300,000	316,000	333,000	350,000	350,000	335,000	318,000
6	310,000	293,000	295,000	270,000	270,000	300,000	316,000	333,000	350,000	350,000	335,000	318,000
7	310,000	293,000	295,000	250,000	270,000	300,000	319,000	333,000	350,000	350,000	335,000	318,000
8	310,000	293,000	295,000	232,000	280,000	300,000	319,000	333,000	350,000	350,000	335,000	310,000
9	310,000	293,000	296,000	232,000	280,000	291,000	319,000	333,000	350,000	350,000	335,000	310,000
10	311,000	293,000	296,000	230,000	290,000	290,000	319,000	333,000	350,000	349,000	335,000	310,000
11	310,000	295,000	296,000	230,000	290,000	290,000	319,000	333,000	350,000	351,000	320,000	320,000
12	310,000	295,000	296,000	230,000	290,000	290,000	319,000	334,000	350,000	350,000	320,000	320,000
13	310,000	295,000	296,000	240,000	290,000	290,000	319,000	334,000	350,000	350,000	320,000	320,000
14	300,000	295,000	297,000	240,000	291,000	290,000	330,000	334,000	350,000	350,000	320,000	320,000
15	300,000	295,000	296,000	240,000	290,000	290,000	330,000	334,000	350,000	350,000	320,000	320,000
16	298,000	295,000	296,000	250,000	290,000	291,000	330,000	334,000	350,000	350,000	320,000	320,000
17	302,000	296,000	289,000	255,000	290,000	297,000	330,000	335,000	350,000	350,000	320,000	320,000
18	300,000	291,000	245,000	270,000	290,000	298,000	330,000	334,000	350,000	350,000	317,000	320,000
19	300,000	291,000	230,000	270,000	290,000	298,000	330,000	340,000	350,000	350,000	317,000	320,000
20	300,000	290,000	232,000	250,000	290,000	297,000	331,000	335,000	350,000	350,000	317,000	320,000
21	296,000	292,000	231,000	250,000	290,000	297,000	331,000	335,000	350,000	351,000	317,000	320,000
22	296,000	291,000	230,000	250,000	290,000	297,000	331,000	340,000	350,000	349,000	317,000	315,000
23	296,000	291,000	230,000	250,000	290,000	297,000	331,000	340,000	350,000	350,000	317,000	315,000
24	296,000	291,000	230,000	250,000	290,000	310,000	331,000	340,000	350,000	350,000	317,000	315,000
25	296,000	295,000	230,000	255,000	290,000	310,000	331,000	340,000	350,000	350,000	310,000	315,000
26	296,000	295,000	230,000	270,000	290,000	311,000	331,000	345,000	350,000	350,000	310,000	315,000
27	296,000	295,000	235,000	275,000	295,000	311,000	331,000	345,000	350,000	350,000	310,000	315,000
28	292,000	295,000	250,000	282,000	295,000	310,000	332,000	345,000	350,000	350,000	310,000	315,000
29	292,000	295,000	256,000	250,000	-----	310,000	332,000	345,000	350,000	350,000	310,000	310,000
30	292,000	295,000	260,000	238,000	-----	310,000	332,000	345,000	350,000	349,000	310,000	310,000
31	292,000	-----	260,000	233,000	-----	316,000	-----	344,000	-----	350,000	310,000	-----
TOTAL	9,371.0M	8,800.0M	8,367.0M	7,802.0M	7,811.0M	9,281.0M	9,753.0M	10,437M	10,495M	10,849M	10,026M	9,501.0M
MEAN	302,300	293,300	269,900	251,700	279,000	299,400	325,100	336,700	349,800	350,000	323,400	316,700
MAX	311,000	296,000	297,000	282,000	295,000	316,000	332,000	345,000	350,000	351,000	351,000	320,000
MIN	292,000	290,000	230,000	230,000	230,000	290,000	316,000	332,000	345,000	349,000	310,000	310,000
CAL YR 1972	TOTAL 102,702,000			MEAN 280,600		MAX 312,000		MIN 200,000				
WTR YR 1973	TOTAL 112,493,000			MEAN 308,200		MAX 351,000		MIN 230,000				

04265000 GRASS RIVER AT PYRITES, N.Y.

LOCATION.--Lat 44°31'28", long 75°11'48", St. Lawrence County, 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.

GAGE.--Water-stage recorder. Datum of gage is 350.61 ft (106.866 m) above mean sea level.

AVERAGE DISCHARGE.--49 years, 594 ft³/s (16.82 m³/s) (24.08 in/yr (611.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, about 4,300 ft³/s (122 m³/s) Apr. 4; maximum gage height, 10.14 ft (3.091 m) Mar. 9 (ice jam); minimum discharge, 65 ft³/s (1.84 m³/s) Aug. 13 (gage height, 1.06 ft (0.323 m)); minimum daily, 140 ft³/s (3.96 m³/s) Aug. 15.

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.

REMARKS.--Records fair except those for winter periods, which are poor. Diurnal fluctuation at low flow caused by powerplant upstream from station.

REVISIONS.--WSP 759: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	376	491	674	1,300	580	410	823	1,040	1,180	477	349	147
2	399	437	560	3,000	1,700	450	1,100	940	1,110	425	296	186
3	320	522	470	2,400	2,700	640	2,500	930	915	348	337	156
4	253	617	430	1,700	3,300	960	3,900	977	741	323	316	200
5	213	694	410	1,300	2,800	1,200	2,200	955	691	567	265	191
6	197	737	540	1,100	2,300	1,500	2,200	935	645	620	221	262
7	278	631	900	1,000	1,800	1,900	1,900	850	759	479	192	564
8	319	827	1,700	800	1,500	2,400	1,700	725	700	346	178	498
9	329	2,230	1,500	700	1,200	3,000	1,500	661	581	275	165	353
10	299	2,380	1,290	580	940	2,500	1,300	725	484	243	154	260
11	262	1,750	1,020	540	800	2,100	1,200	775	417	285	155	200
12	231	1,240	943	500	660	1,800	1,100	740	428	359	158	178
13	233	933	1,000	480	600	1,700	1,000	730	663	321	146	157
14	252	728	1,200	470	560	1,600	960	701	730	285	146	151
15	290	629	1,500	460	520	1,500	920	634	590	449	140	162
16	375	536	1,300	460	500	1,600	980	589	513	447	226	274
17	362	436	1,200	470	480	2,040	1,000	562	541	349	316	285
18	320	400	1,100	480	460	3,250	1,000	925	537	286	268	443
19	310	370	900	540	450	3,370	945	2,140	456	231	247	1,240
20	300	350	760	760	450	2,440	860	2,830	390	209	334	1,270
21	280	320	620	900	440	1,670	755	2,680	351	218	263	877
22	270	290	640	1,200	430	1,290	755	2,500	343	221	216	617
23	330	280	700	1,600	430	972	905	1,980	370	199	183	969
24	560	270	760	2,000	420	931	895	1,430	355	175	166	1,130
25	661	270	780	1,800	420	934	785	1,050	345	158	151	943
26	562	370	740	1,500	410	938	679	796	301	154	144	662
27	447	760	680	1,300	400	940	629	681	265	175	166	478
28	400	1,200	660	1,200	400	940	825	711	242	266	184	384
29	575	1,260	620	1,100	-----	904	1,050	1,030	257	429	178	334
30	677	838	660	900	-----	805	1,180	1,120	394	583	167	293
31	601	-----	860	640	-----	752	-----	1,080	-----	462	156	-----
TOTAL	11,281	22,796	27,117	33,180	27,650	47,436	37,546	34,422	16,294	10,364	6,583	13,864
MEAN	364	760	875	1,070	988	1,530	1,252	1,110	543	334	212	462
MAX	677	2,380	1,700	3,000	3,300	3,370	3,900	2,830	1,180	620	349	1,270
MIN	197	270	410	460	400	410	629	562	242	154	140	147
CFSM	1.09	2.27	2.61	3.19	2.95	4.57	3.74	3.31	1.62	1.00	.63	1.38
IN.	1.25	2.53	3.01	3.68	3.07	5.27	4.17	3.82	1.81	1.15	.73	1.54
CAL YR 1972	TOTAL 256,085	MEAN 700	MAX 4,530	MIN 134	CFSM 2.09	IN 28.44						
WTR YR 1973	TOTAL 288,533	MEAN 791	MAX 3,900	MIN 140	CFSM 2.36	IN 32.04						

PEAK DISCHARGE (BASE, 3,600 CFS)

DATE	TIME	G. H.	DISCHARGE
3-19	0015	7.56	3,600
4-04	-	-	About 4,300

NOTE.--No gage-height record Apr. 2-18.

ST. LAWRENCE RIVER BASIN

04266500 RAQUETTE RIVER AT PIERCEFIELD, N.Y.

LOCATION.--Lat 44°14'05", long 74°34'20", St. Lawrence County, 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.

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 (0.6 m) Jan. 1, 1911, to present datum).

AVERAGE DISCHARGE.--65 years, 1,263 ft³/s (35.77 m³/s).

EXTREMES.--Current year: Maximum discharge, 5,150 ft³/s (146 m³/s) Mar. 20 (gage height, 10.11 ft (3.082 m)); minimum, 68 ft³/s (1.93 m³/s) Sept. 14 (gage height, 1.94 ft (0.591 m)); minimum daily, 210 ft³/s (5.95 m³/s) Sept. 5.
Period of record: Maximum discharge, 8,360 ft³/s (237 m³/s) May 8, 1972 (gage height, 12.25 ft (3.734 m)); minimum, 4.1 ft³/s (0.12 m³/s) Oct. 12, 1947 (gage height, 0.61 ft (0.186 m)), caused by construction work above station; minimum daily, 4.1 ft³/s (0.12 m³/s) Oct. 12, 1947.

REMARKS.--Records good. Seasonal distribution of flow modified by natural storage in lakes and ponds above 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.

REVISIONS (WATER YEARS).--WSP 604: 1924. WSP 759: Drainage area. WSP 1387: 1910, 1913, 1914(M), 1916, 1921.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	812	768	1,490	1,360	1,450	898	3,090	2,360	2,890	1,200	805	342
2	854	799	1,530	1,550	1,420	957	3,350	2,320	2,790	1,260	845	340
3	780	793	1,500	1,780	1,500	957	3,600	2,250	2,720	1,330	825	341
4	756	831	1,440	1,950	1,570	1,000	3,740	2,200	2,540	1,330	827	287
5	741	849	1,380	1,990	1,680	1,020	3,940	2,140	2,490	1,310	772	210
6	604	953	1,440	1,930	1,800	1,230	3,970	2,100	2,350	1,210	776	425
7	445	999	1,590	1,870	1,890	1,120	3,950	2,060	2,300	1,160	726	404
8	710	1,040	1,790	1,730	1,940	1,430	3,890	2,030	2,250	1,150	615	501
9	714	1,230	1,850	1,570	1,930	1,800	3,760	2,000	2,090	1,070	580	464
10	714	1,640	1,880	1,500	1,820	2,060	3,700	1,940	1,920	843	552	445
11	733	2,020	1,980	1,500	1,780	2,240	3,540	1,830	1,850	876	509	444
12	737	2,060	2,060	1,480	1,720	2,480	3,400	1,800	1,690	856	515	383
13	724	2,060	2,110	1,460	1,670	2,750	3,230	1,780	1,640	547	488	288
14	733	2,030	2,150	1,420	1,570	2,960	3,100	1,580	1,640	817	444	276
15	746	1,970	2,160	1,360	1,480	3,060	2,970	1,390	1,590	702	452	340
16	822	1,940	2,150	1,280	1,450	3,210	2,930	1,680	1,560	661	454	314
17	827	1,890	2,050	1,240	1,450	3,590	2,660	1,720	1,530	632	453	459
18	809	1,820	1,920	1,210	1,450	4,120	2,630	1,760	1,440	605	437	577
19	806	1,760	1,850	1,220	1,450	4,390	2,480	2,200	1,330	650	458	817
20	800	1,690	1,760	1,240	1,220	4,760	2,420	2,540	1,240	631	474	1,000
21	800	1,510	1,800	1,230	1,070	4,820	2,390	2,790	1,060	605	452	902
22	791	1,350	1,880	1,180	1,060	4,810	2,400	3,040	1,150	598	465	829
23	780	1,340	1,920	1,160	1,030	4,780	2,420	3,240	1,250	588	431	888
24	781	1,300	1,850	1,410	985	4,650	2,430	3,360	1,280	519	330	840
25	767	1,240	1,780	1,590	976	4,390	2,500	3,410	1,330	519	328	1,110
26	749	1,280	1,670	1,640	939	4,190	2,510	3,390	1,370	518	337	925
27	729	1,320	1,510	1,640	921	4,030	2,510	3,310	1,350	435	357	825
28	719	1,360	1,420	1,620	916	3,810	2,500	3,220	1,300	437	360	376
29	642	1,430	1,310	1,610	-----	3,580	2,440	3,050	1,070	597	330	636
30	659	1,440	1,210	1,550	-----	3,300	2,400	2,980	997	643	333	854
31	716	-----	1,210	1,500	-----	3,110	-----	2,940	-----	791	339	-----
TOTAL	23,000	42,712	53,640	46,770	40,137	91,502	90,850	74,410	52,007	25,090	16,069	16,842
MEAN	742	1,424	1,730	1,509	1,433	2,952	3,028	2,400	1,734	809	518	561
MAX	854	2,060	2,160	1,990	1,940	4,820	3,970	3,410	2,890	1,330	845	1,110
MIN	445	768	1,210	1,160	916	898	2,390	1,390	997	435	328	210

CAL YR 1972 TOTAL 644,046 MEAN 1,760 MAX 8,310 MIN 249
WTR YR 1973 TOTAL 573,029 MEAN 1,570 MAX 4,820 MIN 210

04267500 RAQUETTE RIVER AT SOUTH COLTON, N.Y.

LOCATION.--Lat 44°30'42", long 74°53'00", St. Lawrence County, 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.

AVERAGE DISCHARGE.--20 years, 1,641 ft³/s (46.47 m³/s).

EXTREMES.--Current year: Maximum discharge, 5,750 ft³/s (163 m³/s) Mar. 25, Apr. 7 (gage height, 7.61 ft (2.320 m)); minimum, 9.3 ft³/s (0.26 m³/s) Aug. 12, 13, Sept. 1, 3, 13 (gage height, 1.76 ft (0.536 m)) minimum daily, 255 ft³/s (7.22 m³/s) Sept. 8. 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.

REMARKS.--Records good. Flow regulated 16 mi (26 km) upstream by Carry Falls Reservoir since 1953; considerable natural storage in large lakes above Piercefild. Large diurnal fluctuation caused by five powerplants.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	613	1,360	1,690	2,410	1,710	2,230	3,790	2,040	3,160	1,230	1,630	886
2	1,700	1,600	1,670	2,420	2,250	1,760	4,180	2,340	3,110	1,520	1,890	485
3	1,570	1,530	1,410	2,200	2,280	2,130	4,660	2,050	3,490	1,690	1,660	556
4	1,130	1,300	1,580	2,350	2,190	1,850	4,440	2,360	3,560	1,190	655	1,450
5	1,410	1,010	1,710	2,660	2,360	1,830	5,010	2,430	3,380	2,480	303	1,790
6	1,240	1,430	1,630	3,110	2,320	2,150	5,390	2,750	3,340	3,670	1,120	2,260
7	1,340	1,690	1,510	3,050	2,530	1,840	5,730	2,890	3,650	3,050	1,440	1,480
8	990	1,360	1,610	2,830	3,000	2,140	5,670	2,900	3,540	2,170	1,710	255
9	1,560	1,100	1,810	2,630	3,100	2,190	5,630	3,110	3,440	2,170	1,410	699
10	1,120	1,900	1,290	2,620	3,320	2,710	5,610	2,550	3,240	2,090	1,830	1,190
11	1,410	939	1,730	2,940	2,630	3,190	5,570	2,370	2,780	1,570	955	1,470
12	1,260	810	1,680	2,950	2,310	3,480	5,560	1,760	2,340	1,460	353	1,630
13	1,530	1,230	1,700	2,920	2,750	3,720	5,380	2,210	3,580	1,500	1,430	1,260
14	745	1,420	1,550	3,010	3,240	3,740	4,730	2,310	3,070	1,520	1,510	1,340
15	586	1,610	1,660	2,560	3,280	3,900	4,500	2,790	2,050	559	1,450	790
16	1,490	1,420	1,680	2,610	3,120	4,100	4,500	2,980	1,730	1,460	1,150	412
17	1,740	1,190	1,150	2,480	3,190	4,170	4,200	2,240	1,420	1,510	1,520	1,210
18	1,260	1,300	1,610	2,260	3,150	4,350	3,700	2,390	1,860	1,560	847	1,230
19	1,390	703	1,760	2,270	3,130	4,160	4,800	2,850	1,490	1,360	458	1,440
20	1,610	1,780	2,080	2,330	3,130	4,140	4,100	3,370	1,730	1,540	1,140	1,690
21	1,230	1,830	2,140	1,880	2,700	4,750	3,300	3,680	1,500	1,250	1,680	1,140
22	503	1,860	2,320	2,360	2,230	5,160	3,400	4,800	1,670	678	1,180	866
23	1,310	1,360	2,290	2,230	2,480	5,270	3,400	4,480	1,370	1,490	1,380	747
24	1,760	1,860	2,280	2,110	2,450	5,370	2,600	4,390	781	1,490	1,470	1,590
25	1,230	1,470	2,250	1,870	2,300	5,510	2,700	4,410	2,090	1,560	777	1,670
26	1,180	1,270	2,180	2,010	2,490	5,570	2,200	4,450	1,650	1,240	310	1,290
27	1,420	1,570	2,470	2,260	2,350	5,570	2,000	4,450	1,600	1,550	1,490	1,300
28	1,160	1,280	2,450	2,360	2,440	5,580	2,500	4,450	1,480	1,220	1,660	790
29	819	1,770	2,290	1,990	-----	4,770	2,200	4,460	1,790	471	1,580	321
30	973	1,580	2,150	2,400	-----	4,000	2,400	3,920	1,560	1,420	1,800	475
31	1,550	-----	2,250	2,090	-----	3,710	-----	3,660	-----	1,350	1,800	-----
TOTAL	38,829	42,532	57,580	76,170	74,430	115,040	123,850	97,840	71,451	49,018	39,588	33,712
MEAN	1,253	1,418	1,857	2,457	2,658	3,711	4,128	3,156	2,382	1,581	1,277	1,124
MAX	1,760	1,900	2,470	3,110	3,320	5,580	5,730	4,800	3,650	3,670	1,890	2,260
MIN	503	703	1,150	1,870	1,710	1,760	2,000	1,760	781	471	303	255

CAL YR 1972 TOTAL 858,316 MEAN 2,345 MAX 8,050 MIN 503
WTR YR 1973 TOTAL 820,040 MEAN 2,247 MAX 5,730 MIN 255

ST. LAWRENCE RIVER BASIN

265

04268390 ST. REGIS RIVER NEAR PAUL SMITHS, N.Y.

LOCATION.--Lat 44°26'01", long 74°18'15", Franklin County, on right bank 0.3 mi (0.5 km) downstream from control dam on Lower St. Regis Lake, and 2.5 mi (4.0 km) west of Paul Smiths.

DRAINAGE AREA.--21.2 mi² (54.9 km²).

PERIOD OF RECORD.--October 1972 to September 1973.

GAGE.--Water-stage recorder. Altitude of gage is 1600 ft (488 m) (from topographic map).

EXTREMES.--Current year: Maximum discharge, 127 ft³/s (3.60 m³/s) Mar. 19, Apr. 5, 6 (gage height, 2.71 ft (0.826 m)); minimum, 6.7 ft³/s (0.19 m³/s) Oct. 6-8 (gage height, 1.60 ft (0.488 m)).

REMARKS.--Records good. Flow regulated by Lower St. Regis Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	8.1	27	48	40	35	85	40	52	40	21	12
2	7.7	8.1	27	47	40	48	96	40	52	40	22	12
3	7.2	8.1	27	45	40	64	88	40	51	39	21	12
4	7.2	8.1	31	46	41	34	88	36	51	39	21	12
5	7.2	7.7	35	45	42	35	102	31	50	39	20	12
6	6.7	10	37	44	42	41	123	32	50	37	20	15
7	6.7	12	41	44	41	40	115	35	50	35	19	15
8	19	13	40	42	39	50	113	38	50	25	19	14
9	31	27	39	41	38	52	111	38	49	24	19	13
10	30	42	39	40	37	51	109	37	48	24	19	12
11	30	42	42	39	37	51	107	45	44	16	20	12
12	30	42	46	38	36	75	102	50	43	12	19	12
13	30	42	50	38	35	88	99	50	45	12	19	11
14	30	42	50	38	34	84	96	47	45	22	16	12
15	30	41	49	37	33	84	84	45	44	29	14	13
16	30	41	52	36	32	85	70	45	57	28	15	14
17	30	28	51	36	32	91	73	45	63	28	15	14
18	51	22	49	36	32	103	70	49	62	27	15	56
19	63	21	48	36	32	103	67	76	61	25	15	84
20	66	23	47	37	32	125	65	89	51	25	14	82
21	67	25	46	37	33	121	65	92	46	21	14	55
22	66	25	47	38	33	120	67	98	47	19	13	39
23	64	25	46	41	33	115	69	94	46	19	13	55
24	63	26	45	40	33	113	69	92	46	18	12	85
25	61	26	44	40	33	111	58	89	40	17	12	82
26	22	26	44	38	34	109	52	86	37	18	12	80
27	10	27	44	38	34	105	54	84	37	20	12	77
28	10	27	44	38	34	102	54	62	30	20	12	76
29	10	27	42	38	-----	98	48	51	29	23	12	74
30	9.6	27	42	38	-----	95	56	51	36	23	12	73
31	8.6	-----	42	39	-----	88	-----	52	-----	22	12	-----
TOTAL	911.6	749.1	1,313	1,238	1,002	2,516	2,455	1,759	1,412	786	499	1,135
MEAN	29.4	25.0	42.4	39.9	35.8	81.2	81.8	56.7	47.1	25.4	16.1	37.8
MAX	67	42	52	48	42	125	123	98	63	40	22	85
MIN	6.7	7.7	27	36	32	34	48	31	29	12	12	11

WTR YR 1973 TOTAL 15,775.7 MEAN 43.2 MAX 125 MIN 6.7

04269000 ST. REGIS RIVER AT BRASHER CENTER, N.Y.

LOCATION.--Lat 44°51'49", long 74°46'45", St. Lawrence County, 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.

DRAINAGE AREA.--616 mi² (1,595 km²).

PERIOD OF RECORD.--August 1910 to current year. Monthly discharge only for some periods, published in WSP 1307.

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.

AVERAGE DISCHARGE.--63 years, 1,032 ft³/s (29.23 m³/s) (22.76 in/yr (578.1 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 7,830 ft³/s (222 m³/s) Apr. 2 (gage height, 10.0 ft (3.05 m)); maximum gage height, 12.73 ft (3.880 m) Mar. 13 (ice jam); minimum discharge 184 ft³/s (5.21 m³/s) Aug. 27 (gage height, 5.79 ft (1.765 m)); minimum daily, 203 ft³/s (5.75 m³/s) Aug. 27.

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.

REMARKS.--Records good except those for winter periods, which are poor. Slight diurnal fluctuation caused by powerplant operations above station.

REVISIONS (WATER YEARS).--WSP 584: Drainage area. WSP 1387: 1910-16, 1917(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	573	866	1,100	2,700	1,200	620	1,800	1,600	2,100	989	515	286
2	592	774	900	3,700	1,700	620	6,460	1,550	2,240	908	461	288
3	512	1,010	816	2,900	2,800	740	6,640	1,450	1,750	797	427	287
4	437	1,210	732	2,300	3,600	900	4,730	1,540	1,440	691	385	289
5	376	1,340	663	1,900	3,000	1,100	5,050	1,500	1,380	620	402	300
6	381	1,330	1,410	1,600	2,500	1,500	4,410	1,580	1,320	733	402	375
7	649	1,140	1,600	1,300	2,000	2,000	3,470	1,530	1,300	630	402	432
8	653	1,270	2,100	1,200	1,700	2,400	2,950	1,330	1,240	506	362	658
9	638	2,670	1,900	1,100	1,500	3,400	2,580	1,210	1,110	542	385	603
10	534	2,880	1,800	1,000	1,300	3,800	2,360	1,220	960	427	378	610
11	460	2,220	1,700	1,000	1,100	4,000	2,160	1,260	854	470	302	420
12	438	1,800	1,500	980	1,100	3,400	1,990	1,210	1,200	506	324	353
13	431	1,550	1,500	960	960	3,400	1,850	1,510	2,270	478	289	332
14	483	1,320	1,700	960	920	3,400	1,770	1,380	2,170	410	289	296
15	538	1,200	1,900	960	880	3,200	1,800	1,230	1,840	478	268	338
16	599	1,090	1,800	960	860	3,000	1,940	1,100	2,540	542	302	358
17	620	934	1,600	960	840	4,320	2,180	1,000	3,450	470	590	452
18	631	802	1,400	980	840	6,300	2,330	1,740	2,580	444	485	644
19	546	660	1,200	1,000	820	5,530	2,130	4,550	1,920	370	488	1,520
20	482	560	1,100	1,100	800	3,980	1,920	4,590	1,550	370	591	1,630
21	456	490	960	1,200	780	3,030	1,710	4,210	1,320	362	497	1,290
22	453	411	960	1,400	740	2,580	1,730	4,230	1,620	354	386	1,100
23	614	464	1,100	1,900	720	1,980	2,130	3,250	1,230	331	356	1,050
24	1,150	629	1,200	2,300	700	1,970	2,040	2,550	1,050	296	290	1,520
25	1,230	682	1,200	1,900	680	1,830	1,830	2,090	954	302	244	1,520
26	1,060	1,270	1,100	1,600	660	1,830	1,600	1,760	897	248	268	1,300
27	884	2,530	1,100	1,400	640	1,890	1,440	1,530	723	296	203	1,110
28	767	2,090	940	1,200	620	1,770	1,510	1,450	640	378	304	840
29	1,070	1,610	900	1,200	-----	1,610	1,690	1,830	702	561	265	746
30	1,230	1,260	880	1,100	-----	1,430	1,800	1,800	920	712	267	707
31	1,090	-----	1,000	1,100	-----	1,380	-----	1,830	-----	600	261	-----
TOTAL	20,577	38,062	39,761	45,860	35,960	78,910	78,000	60,610	45,270	15,821	11,388	21,654
MEAN	664	1,269	1,283	1,479	1,284	2,545	2,600	1,955	1,509	510	367	722
MAX	1,230	2,880	2,100	3,700	3,600	6,300	6,640	4,590	3,450	989	591	1,630
MIN	376	411	663	960	620	620	1,440	1,000	640	248	203	286
CFSM	1.08	2.06	2.08	2.40	2.08	4.13	4.22	3.17	2.45	.83	.60	1.17
IN.	1.24	2.30	2.40	2.77	2.17	4.77	4.71	3.66	2.73	.96	.69	1.31

CAL YR 1972 TOTAL 447,438 MEAN 1,223 MAX 8,570 MIN 277 CFSM 1.99 IN 27.02
WTR YR 1973 TOTAL 491,873 MEAN 1,348 MAX 6,640 MIN 203 CFSM 2.19 IN 29.70

PEAK DISCHARGE (BASE, 5,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	1745	9.60	6,560	4-02	2015	10.07	7,830

STREAMS TRIBUTARY TO LAKE ONTARIO

267

04269043 DEER RIVER AT NORTH LAWRENCE, N.Y.

LOCATION.--Lat 44°47'57", long 74°40'24", St. Lawrence County, 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 September 1973.

GAGE.--Water-stage recorder. Altitude of gage is 330 ft (101 m) (from topographic map).

EXTREMES.--Maximum discharge during period, about 1,200 ft³/s (34.0 m³/s) Mar. 8; maximum gage height, 12.03 ft (3.667 m) Jan. 8 (backwater from ice); minimum discharge, 34 ft³/s (0.96 m³/s) July 25 (gage height, 1.54 ft (0.469 m)).

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

COOPERATION.--Five discharge measurements supplied by personnel of the Kraft Co. Plant, North Lawrence, N.Y.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		-	189	450	94	100	435	186	368	108	77	45
2		-	160	620	110	110	1,100	186	400	92	77	45
3		-	140	500	250	130	938	180	286	81	72	45
4		-	120	370	520	150	712	189	251	77	63	51
5		-	110	250	560	180	808	198	248	77	70	50
6		-	140	220	500	250	590	248	202	77	60	75
7		-	240	210	400	560	465	220	186	72	120	75
8		-	350	190	330	1,100	384	189	168	65	132	66
9		-	420	180	280	1,100	328	180	145	60	118	58
10		-	330	170	230	920	296	192	128	56	98	51
11		-	280	160	200	840	276	177	118	63	79	50
12		-	230	150	170	650	258	180	150	63	66	49
13		-	220	150	140	814	240	279	183	60	60	46
14		-	240	140	120	665	237	248	150	56	54	44
15		-	260	140	120	555	251	212	130	58	56	46
16		-	260	140	120	535	265	177	330	50	56	49
17		-	240	150	120	706	286	165	368	45	58	49
18		-	220	160	120	892	296	480	262	43	66	126
19		-	210	190	120	730	272	910	212	40	63	171
20		-	200	230	120	565	237	718	180	39	56	155
21		-	190	280	120	416	216	748	192	39	51	155
22		-	200	320	120	360	244	645	244	38	47	165
23		-	210	380	110	279	262	505	160	36	45	198
24		-	220	450	110	286	244	372	140	34	44	183
25		-	230	400	100	265	226	300	128	34	43	162
26		-	240	300	98	268	206	254	115	37	40	148
27		-	220	220	96	262	192	212	98	46	40	128
28		293	200	160	94	248	195	212	88	53	41	105
29		248	190	120	-----	230	209	265	120	86	41	86
30		202	190	110	-----	212	206	254	120	100	45	72
31		-----	250	100	-----	206	-----	366	-----	90	45	-----
TOTAL	-	-	6,899	7,610	5,472	14,584	10,874	9,647	5,870	1,875	1,983	2,748
MEAN	-	-	223	245	195	470	362	311	196	60.5	64.0	91.6
MAX	-	-	420	620	560	1,100	1,100	910	400	108	132	198
MIN	-	-	110	100	94	100	192	165	88	34	40	44

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-08	Unknown	Unknown	1,200	4-05	0300	3.80	910
3-18	0100	4.01	1,060	5-19	0700	4.01	1,060
4-02	0100	4.20	1,190				

1/ About

ST. LAWRENCE RIVER BASIN

04270000 SALMON RIVER AT CHASM FALLS, N.Y.

LOCATION.--Lat 44°45'22", long 74°13'09", Franklin County, 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.

GAGE.--Water-stage recorder. Datum of gage is 1,011.52 ft (308.311 m) above mean sea level.

AVERAGE DISCHARGE.--48 years, 222 ft³/s (6.287 m³/s).

EXTREMES.--Current year: Maximum discharge, 1,730 ft³/s (49.0 m³/s) Mar. 13 (gage height, 3.94 ft (1.201 m)); minimum, 23 ft³/s (0.65 m³/s) Sept. 29 (gage height 0.62 ft (0.189 m)); minimum daily, 120 ft³/s (3.40 m³/s) Oct. 6.
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, 1963, minimum daily, 28 ft³/s (0.79 m³/s) Sept. 4, 1934.

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.

REVISIONS (WATER YEARS).--WSP 729: 1931 (m). WSP 759: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	217	214	357	205	153	473	298	405	285	168	161
2	153	211	161	414	224	155	1,480	290	491	247	171	144
3	140	205	205	380	405	153	1,440	264	405	234	174	143
4	133	205	180	350	492	189	1,030	263	362	220	163	187
5	126	214	186	330	477	231	836	258	365	219	166	161
6	120	205	285	300	392	252	740	305	464	208	208	217
7	138	214	462	270	340	273	594	272	405	185	544	234
8	153	285	336	240	285	571	539	244	255	181	348	172
9	155	419	320	230	245	848	471	240	220	169	267	169
10	148	428	277	210	227	789	434	259	214	169	232	149
11	138	361	234	200	221	609	402	243	219	160	210	141
12	135	316	198	190	205	904	356	237	585	185	192	147
13	161	288	266	190	208	1,350	333	307	654	165	175	141
14	155	262	336	190	189	1,070	323	248	471	196	164	136
15	189	241	296	190	192	792	333	209	373	190	167	169
16	175	221	252	190	192	871	390	219	497	173	261	168
17	172	169	221	190	175	917	477	207	710	155	207	152
18	214	148	224	190	177	1,380	444	378	487	148	171	260
19	164	145	221	210	177	1,120	391	637	398	140	159	464
20	180	155	214	240	172	768	359	723	340	142	137	305
21	172	153	201	270	172	573	339	747	317	149	148	257
22	172	129	205	310	169	494	458	857	331	152	141	236
23	208	148	208	350	169	412	577	783	321	137	139	307
24	266	161	211	380	158	306	470	434	226	134	137	307
25	238	166	198	330	158	309	399	381	241	129	132	259
26	238	205	198	300	155	354	352	346	234	190	129	222
27	221	300	195	290	150	372	324	319	215	198	130	189
28	211	259	189	270	153	325	327	335	213	182	138	176
29	255	234	161	250	-----	317	369	394	214	254	164	189
30	273	192	175	230	-----	318	334	341	283	197	152	175
31	234	-----	189	220	-----	333	-----	308	-----	179	186	-----
TOTAL	5,612	6,856	7,218	8,261	6,484	17,508	15,794	11,346	10,915	5,672	5,880	6,137
MEAN	181	229	233	266	232	565	526	366	364	183	190	205
MAX	273	428	462	414	492	1,380	1,480	857	710	285	544	464
MIN	120	129	161	190	150	153	323	207	213	129	129	136
CAL YR 1972	TOTAL 96,431	MEAN 263	MAX 1,860	MIN 103								
WTR YR 1973	TOTAL 107,683	MEAN 295	MAX 1,480	MIN 120								

04270200 LITTLE SALMON RIVER AT BOMBAY, N.Y.

LOCATION.--Lat 44°56'24", long 74°33'24", Franklin County, 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.

AVERAGE DISCHARGE.--15 years (1958-73), 114 ft³/s (3.228 m³/s) (16.54 in/yr (420.1 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 2,040 ft³/s (57.8 m³/s) Apr. 2 (gage height, 10.10 ft (3.078 m)); maximum gage height, 10.97 ft (3.344 m) Feb. 3 (ice jam); minimum discharge, 26 ft³/s (0.74 m³/s) Aug. 29 (gage height, 1.65 ft (0.503 m)).
Period of record: Maximum discharge, about 2,700 ft³/s (76.5 m³/s) Mar. 30, 1963; maximum gage height, 12.48 ft (3.804 m) Mar. 27, 1963 (ice jam); minimum discharge, 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).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	100	130	200	150	74	189	141	499	108	43	46
2	54	96	120	300	250	80	1,580	148	666	84	46	35
3	46	212	110	540	600	92	711	144	243	71	129	33
4	41	227	110	350	500	130	379	171	177	67	65	72
5	38	238	110	250	400	240	756	150	243	66	52	62
6	37	208	120	180	300	300	558	224	181	65	56	74
7	89	136	300	120	250	400	342	176	142	58	534	120
8	89	215	600	110	220	500	278	131	134	52	180	63
9	77	643	280	100	200	350	219	130	107	49	98	47
10	59	370	230	100	180	320	196	177	100	49	71	40
11	50	217	210	98	160	300	203	141	98	65	58	38
12	47	163	190	96	140	600	195	123	917	62	50	37
13	48	143	220	96	130	450	188	232	410	53	44	34
14	51	125	350	96	120	341	198	186	204	51	42	33
15	66	108	270	96	110	353	267	134	122	52	53	33
16	70	95	190	98	98	402	251	115	458	48	58	36
17	71	82	160	100	96	534	214	105	786	44	44	34
18	80	76	140	130	94	1,110	179	553	230	41	38	77
19	64	74	130	200	92	413	151	1,590	154	39	38	190
20	56	72	120	300	90	289	135	656	126	41	36	95
21	52	72	120	240	88	227	122	617	177	47	34	93
22	50	72	130	200	86	217	195	629	271	42	32	82
23	94	74	150	350	84	160	298	285	165	38	34	177
24	257	78	170	310	80	185	183	202	128	35	32	160
25	191	90	170	260	76	194	147	159	113	34	30	110
26	130	370	160	230	74	195	127	138	94	39	29	78
27	100	715	150	200	72	177	117	124	82	49	29	63
28	91	326	140	160	70	148	147	150	74	46	29	56
29	271	214	130	130	-----	138	191	312	88	77	28	52
30	220	146	130	120	-----	129	173	296	117	69	27	47
31	129	-----	150	110	-----	124	-----	385	-----	50	45	-----
TOTAL	2,788	5,757	5,690	5,870	4,810	9,172	8,889	8,724	7,306	1,691	2,084	2,117
MEAN	89.9	192	184	189	172	296	296	281	244	54.5	67.2	70.6
MAX	271	715	600	540	600	1,110	1,580	1,590	917	108	534	190
MIN	37	72	110	96	70	74	117	105	74	34	27	33
CFSM	.96	2.05	1.97	2.02	1.84	3.16	3.16	3.00	2.61	.58	.72	.75
IN.	1.11	2.29	2.26	2.33	1.91	3.65	3.53	3.47	2.90	.67	.83	.84

CAL YR 1972 TOTAL 60,471 MEAN 165 MAX 1,560 MIN 31 CFSM 1.76 IN 24.03
WTR YR 1973 TOTAL 64,898 MEAN 178 MAX 1,590 MIN 27 CFSM 1.90 IN 25.79

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-27	0230	7.24	1,060	6-02	0600	6.87	951
3-18	0700	8.28	1,400	6-12	1000	9.00	1,650
4-02	0930	10.10	2,040	6-17	0130	8.11	1,340
5-19	1400	9.97	1,990				

ST. LAWRENCE RIVER BASIN

04270510 CHATEAUGAY RIVER BELOW CHATEAUGAY, N.Y.

LOCATION.--Lat 44°57'49", long 74°07'53", Franklin County, 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.

AVERAGE DISCHARGE.--7 years (1966-73) 244 ft³/s (6.910 m³/s).

EXTREMES.--Current year: Maximum discharge, 2,290 ft³/s (64.9 m³/s) Mar. 17 (gage height, 5.92 ft (1.804 m)); minimum, 94 ft³/s (2.66 m³/s) Oct. 3, 6 (gage height, 2.92 ft (0.890 m)).

Period of record: Maximum discharge, 3,260 ft³/s (92.3 m³/s) Apr. 10, 1969 (gage height, 6.43 ft (1.960 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, 61 ft³/s (1.73 m³/s) Nov. 15, 1967.

REMARKS.--Records good except those for winter periods, which are poor. Flow regulated at Forge Dam on Upper and Lower Chateaugay Lakes.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	136	190	577	250	170	758	290	680	300	150	113
2	98	168	170	388	350	180	1,320	295	608	270	153	110
3	97	230	170	397	600	190	968	305	405	262	170	110
4	96	224	180	408	450	210	936	305	425	206	153	115
5	96	250	210	389	370	230	1,090	300	524	206	148	115
6	97	225	240	353	360	280	928	310	596	197	266	145
7	105	214	270	350	340	350	856	290	608	194	300	120
8	110	260	250	340	320	746	716	282	420	170	270	115
9	108	320	220	340	310	592	560	286	315	143	274	113
10	100	309	210	330	300	522	542	278	305	145	266	113
11	102	272	210	330	280	610	518	278	315	153	254	115
12	104	266	220	330	270	1,100	506	278	390	143	236	108
13	103	268	250	320	260	1,180	506	335	400	145	150	108
14	111	258	290	300	250	1,060	518	305	345	143	153	108
15	130	248	310	290	240	1,110	536	290	330	145	155	110
16	125	242	340	275	230	1,090	458	286	668	143	148	108
17	132	239	370	244	220	1,530	390	290	548	138	145	108
18	121	235	350	275	210	1,510	380	380	650	138	145	155
19	118	233	330	336	200	1,180	345	560	620	135	143	138
20	116	237	320	348	200	1,110	240	554	602	145	140	140
21	117	231	310	281	190	1,060	219	864	410	140	138	135
22	118	258	290	378	190	794	320	912	470	135	138	158
23	150	297	285	628	180	614	295	896	500	133	135	158
24	178	211	267	377	180	620	266	848	458	130	133	215
25	155	170	258	327	170	608	254	794	395	130	130	300
26	145	266	256	291	170	554	250	578	380	158	130	290
27	140	267	253	277	170	512	254	560	370	158	130	286
28	145	233	258	260	170	488	310	596	315	158	128	278
29	168	212	265	250	-----	380	325	668	270	175	125	270
30	150	200	329	240	-----	375	300	512	325	153	118	262
31	142	-----	409	240	-----	370	-----	530	-----	150	113	-----
TOTAL	3,774	7,179	8,280	10,469	7,430	21,325	15,864	14,255	13,647	5,141	5,237	4,719
MEAN	122	239	267	338	265	688	529	460	455	166	169	157
MAX	178	320	409	628	600	1,530	1,320	912	680	300	300	300
MIN	96	136	170	240	170	170	219	278	270	130	113	108
CAL YR 1972	TOTAL 100,572	MEAN 275	MAX 1,550	MIN 92								
WTR YR 1973	TOTAL 117,320	MEAN 321	MAX 1,530	MIN 96								

ST. LAWRENCE RIVER BASIN

271

04273500 SARANAC RIVER AT PLATTSBURGH, N.Y.

LOCATION.--Lat 44°40'54", long 73°28'18", Clinton County, 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.

GAGE.--Water-stage recorder. Datum of gage is 155.74 ft (47.470 m) above mean sea level. Prior to Nov. 12, 1919, non-recording gage and Nov. 12, 1919 to Sept. 30, 1930, water-stage recorder, at site 1.5 mi (2.4 km) upstream at different datum.

AVERAGE DISCHARGE.--57 years, 818 ft³/s (23.17 m³/s).

EXTREMES.--Current year: Maximum discharge, 8,910 ft³/s (252 m³/s) Apr. 2 (gage height, 9.39 ft (2.862 m)); minimum, 5.3 ft³/s (0.15 m³/s) July 21 (gage height, 1.29 ft (0.393 m)); minimum daily, 94 ft³/s (2.66 m³/s) Aug. 26.

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.

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 9.9 ft³/s (0.28 m³/s) from Saranac River and Mead and West Brooks, tributaries above station, for municipal supply. About 1 ft³/s (0.028 m³/s) inversion from Great Chazy River basin for water supply of State Institutions at Dannemora.

REVISIONS (WATER YEARS).--WSP 354: Drainage area. WSP 384: 1909-10 (monthly discharge only). WSP 1387: 1907-8. WSP 1437: 1908 (minimum daily only).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	458	540	918	1,040	780	572	1,960	1,380	1,700	2,520	608	338
2	497	601	789	1,260	877	639	7,190	1,300	1,770	1,560	633	365
3	445	642	775	1,160	1,250	654	4,710	1,290	1,500	1,180	701	370
4	365	786	747	1,130	1,460	716	3,340	1,330	1,380	1,060	679	333
5	339	758	706	1,150	1,280	823	3,580	1,260	1,510	991	671	320
6	419	792	888	978	1,030	920	3,140	1,210	1,370	924	478	326
7	357	770	1,210	819	1,120	1,140	2,600	1,160	1,300	812	668	460
8	347	807	999	817	1,100	1,710	2,330	1,040	1,300	749	789	506
9	338	1,300	1,100	780	930	2,500	2,050	1,070	1,180	705	640	502
10	442	1,260	1,160	788	810	1,980	1,920	1,170	1,080	706	620	548
11	437	1,190	1,060	772	803	1,750	1,870	1,200	1,020	705	588	536
12	396	1,150	937	767	821	2,560	1,600	1,240	1,530	731	531	466
13	423	1,110	1,140	766	756	3,730	1,550	1,310	2,740	652	456	459
14	466	1,050	1,260	768	773	2,970	1,540	1,220	2,590	608	428	332
15	471	973	1,150	870	777	2,290	1,590	1,130	1,630	857	375	356
16	502	834	1,020	799	790	2,880	1,630	989	1,910	796	544	545
17	513	792	990	822	702	3,760	1,790	1,010	2,630	376	756	486
18	523	752	1,050	899	697	5,900	1,690	1,210	1,810	850	518	887
19	432	735	1,060	1,030	727	3,520	1,640	1,980	1,560	623	543	1,620
20	432	778	841	1,170	736	2,730	1,600	1,980	1,380	605	476	1,080
21	414	747	769	996	739	2,280	1,560	2,610	1,430	317	452	933
22	338	708	903	899	728	1,980	1,710	4,250	2,410	435	386	944
23	331	693	1,020	1,210	693	1,670	1,990	3,020	1,870	507	351	1,070
24	492	642	1,040	1,450	634	1,690	1,800	2,430	1,670	427	294	1,080
25	529	577	986	1,260	611	1,560	1,650	2,120	1,610	236	220	1,030
26	534	808	927	1,240	585	1,640	1,540	1,860	1,400	373	94	1,080
27	504	1,130	888	1,100	566	1,720	1,440	1,700	1,200	559	794	965
28	509	1,040	830	1,030	559	1,560	1,430	1,630	1,280	750	396	906
29	546	1,000	761	1,020	-----	1,510	1,600	1,740	1,060	786	229	894
30	558	860	709	768	-----	1,530	1,500	1,610	1,270	703	186	813
31	537	-----	789	820	-----	1,620	-----	1,610	-----	579	203	-----
TOTAL	13,894	25,825	29,422	30,378	23,334	62,504	65,540	50,059	48,090	23,682	15,307	20,550
MEAN	448	861	949	980	833	2,016	2,185	1,615	1,603	764	494	685
MAX	558	1,300	1,260	1,450	1,460	5,900	7,190	4,250	2,740	2,520	794	1,620
MIN	331	540	706	766	559	572	1,430	989	1,020	236	94	320
CAL YR 1972	TOTAL	401,533	MEAN	1,097	MAX	6,390	MIN	284				
WTR YR 1973	TOTAL	408,585	MEAN	1,119	MAX	7,190	MIN	94				

LOCATION.--Lat 44°17'42", long 73°59'26", Essex County, on south shore of East Lake on Victor Herbert Drive, 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 1,854.93 ft (565.383 m) above mean sea level.

EXTREMES.--Current year: Maximum gage height, 3.99 ft (1.216 m) May 22; minimum, 2.81 ft (0.856 m) Sept. 12, 13, 14.
Period of record: Maximum gage height, 4.49 ft (1.369 m) May 3, 1972; minimum, 2.67 ft (0.814 m) Oct. 2, 1968.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.06	3.17	3.37	3.40	3.36	3.22	3.50	3.50	3.52	3.43	3.17	2.88
2	3.06	3.19	3.36	3.44	3.36	3.22	3.74	3.49	3.51	3.42	3.21	2.89
3	3.05	3.24	3.35	3.43	3.40	3.22	3.76	3.49	3.48	3.39	3.24	2.88
4	3.04	3.26	3.34	3.43	3.42	3.22	3.73	3.49	3.47	3.37	3.23	2.88
5	3.03	3.28	3.34	3.43	3.42	3.23	3.74	3.48	3.47	3.36	3.20	2.87
6	3.01	3.28	3.38	3.41	3.41	3.23	3.69	3.49	3.46	3.32	3.19	2.93
7	3.04	3.28	3.48	3.39	3.39	3.24	3.63	3.49	3.47	3.29	3.18	2.93
8	3.06	3.33	3.49	3.38	3.39	3.34	3.59	3.47	3.46	3.27	3.17	2.91
9	3.06	3.55	3.49	3.36	3.38	3.46	3.55	3.47	3.44	3.26	3.15	2.88
10	3.03	3.57	3.48	3.35	3.37	3.49	3.54	3.48	3.41	3.24	3.14	2.86
11	3.02	3.55	3.45	3.33	3.35	3.49	3.51	3.51	3.40	3.24	3.15	2.85
12	3.02	3.52	3.44	3.32	3.34	3.58	3.49	3.54	3.44	3.21	3.14	2.84
13	3.04	3.51	3.49	3.32	3.32	3.70	3.46	3.54	3.47	3.17	3.11	2.83
14	3.03	3.49	3.48	3.31	3.31	3.69	3.43	3.53	3.46	3.24	3.09	2.83
15	3.06	3.48	3.47	3.30	3.34	3.67	3.41	3.51	3.42	3.26	3.08	2.89
16	3.04	3.43	3.49	3.29	3.33	3.69	3.40	3.49	3.48	3.25	3.07	2.89
17	3.03	3.41	3.48	3.28	3.31	3.76	3.41	3.47	3.53	3.23	3.05	2.89
18	3.03	3.39	3.45	3.28	3.31	3.90	3.45	3.52	3.50	3.21	3.04	2.96
19	3.02	3.37	3.43	3.28	3.29	3.85	3.50	3.62	3.48	3.20	3.02	3.01
20	3.01	3.38	3.41	3.32	3.29	3.77	3.52	3.69	3.45	3.19	3.01	3.01
21	3.00	3.36	3.40	3.33	3.28	3.69	3.52	3.79	3.45	3.17	2.99	3.01
22	2.99	3.34	3.39	3.32	3.28	3.63	3.62	3.96	3.47	3.16	2.97	3.02
23	3.02	3.32	3.38	3.41	3.27	3.57	3.73	3.91	3.44	3.14	2.95	3.10
24	3.05	3.30	3.36	3.44	3.26	3.53	3.71	3.82	3.43	3.12	2.94	3.13
25	3.07	3.29	3.35	3.43	3.25	3.49	3.66	3.74	3.41	3.10	2.91	3.14
26	3.08	3.32	3.34	3.41	3.24	3.48	3.61	3.67	3.38	3.11	2.89	3.15
27	3.08	3.36	3.34	3.40	3.24	3.46	3.58	3.60	3.36	3.14	2.89	3.15
28	3.08	3.36	3.34	3.39	3.23	3.44	3.55	3.57	3.33	3.14	2.88	3.16
29	3.13	3.36	3.33	3.38	-----	3.43	3.56	3.55	3.32	3.20	2.88	3.15
30	3.17	3.35	3.33	3.38	-----	3.41	3.53	3.54	3.42	3.19	2.87	3.14
31	3.17	-----	3.34	3.38	-----	3.41	-----	3.53	-----	3.18	2.87	-----
MEAN	3.05	3.37	3.41	3.37	3.33	3.50	3.57	3.58	3.44	3.23	3.05	2.97
MAX	3.17	3.57	3.49	3.44	3.42	3.90	3.76	3.96	3.53	3.43	3.24	3.16
MIN	2.99	3.17	3.33	3.28	3.23	3.22	3					

04275000 EAST BRANCH AUSABLE RIVER AT AU SABLE FORKS, N.Y.

LOCATION.--Lat 44°26'20", long 73°40'55", Essex County, 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.

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.

AVERAGE DISCHARGE.--49 years, 302 ft³/s (8.553 m³/s) (20.72 in/yr (526.3 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 5,390 ft³/s (153 m³/s) May 22 (gage height, 7.01 ft (2.137 m)); minimum, 44 ft³/s (1.25 m³/s) Sept. 5 (gage height, 1.06 ft (0.323 m)).

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.

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.

REVISIONS.--WSP 759: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	297	274	310	1,920	188	140	791	508	409	1,080	80	54
2	181	221	253	954	368	170	2,710	493	375	551	86	54
3	133	320	269	579	2,470	200	1,510	643	318	392	111	49
4	107	358	196	471	877	240	951	700	316	335	100	47
5	91	299	210	300	575	450	1,020	516	352	295	86	45
6	80	245	1,090	200	418	400	726	454	301	249	82	61
7	95	206	1,520	180	411	500	620	409	472	209	115	130
8	383	248	612	200	338	1,430	561	359	335	176	90	94
9	248	1,810	543	210	253	1,050	464	496	271	149	75	77
10	172	915	419	200	199	599	444	852	233	134	70	67
11	137	604	321	180	180	498	422	806	222	144	74	58
12	119	537	235	170	170	1,570	350	741	409	131	90	56
13	138	456	507	160	160	1,260	325	596	527	116	86	51
14	136	358	494	150	150	759	323	456	370	190	82	51
15	158	303	344	160	140	611	355	369	266	168	77	97
16	170	253	314	170	140	1,020	456	344	406	146	72	95
17	148	211	300	230	140	2,030	886	315	557	146	66	81
18	146	212	270	280	140	2,900	1,050	1,070	375	126	62	187
19	125	209	250	380	140	1,140	1,170	1,810	294	109	65	369
20	109	188	240	600	140	690	1,030	1,120	245	99	63	213
21	98	205	300	450	160	497	911	2,290	235	97	58	144
22	96	133	350	640	180	403	1,560	3,890	1,570	89	54	117
23	102	181	340	2,250	160	336	1,720	1,450	746	80	54	232
24	134	232	320	1,020	140	315	1,020	862	480	74	51	234
25	189	194	300	577	140	304	700	624	362	70	48	181
26	168	901	290	486	130	330	558	517	274	77	47	141
27	145	1,120	260	393	130	309	477	435	226	89	49	116
28	126	581	230	300	130	281	657	421	196	81	89	98
29	591	449	220	250	-----	287	1,040	566	184	107	65	89
30	738	330	310	180	-----	281	647	582	1,160	107	53	81
31	415	-----	600	180	-----	315	-----	485	-----	88	51	-----
TOTAL	5,975	12,553	12,217	14,420	8,767	21,315	25,454	25,179	12,486	5,904	2,251	3,369
MEAN	193	418	394	465	313	688	848	812	416	190	72.6	112
MAX	738	1,810	1,520	2,250	2,470	2,900	2,710	3,890	1,570	1,080	115	369
MIN	80	133	196	150	130	140	323	315	184	70	47	45
CFSM	.97	2.11	1.99	2.35	1.58	3.47	4.28	4.10	2.10	.96	.37	.57
IN.	1.12	2.36	2.30	2.71	1.65	4.00	4.78	4.73	2.35	1.11	.42	.63

CAL YR 1972 TOTAL 155,089 MEAN 424 MAX 5,480 MIN 60 CFSM 2.14 IN 29.14
WTR YR 1973 TOTAL 149,890 MEAN 411 MAX 3,890 MIN 45 CFSM 2.08 IN 28.16

PEAK DISCHARGE (BASE, 3,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-23	0700	6.33	4,250	5-22	0200	7.01	5,390
3-18	0200	6.61	4,700				

LOCATION.--Lat 43°48'28", long 73°27'30", Essex County, 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 a mile of present site at same datum. Nov. 4, 1929, to Sept. 26, 1936, nonrecording gage at present site and datum.

EXTREMES.--Current year: Maximum gage height, 4.25 ft (1.295 m) May 22,23; minimum, 3.03 ft (0.924 m) Mar. 7.
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.

REMARKS.--Elevation of lake regulated by powerplant wheel gate and floodgates at Ticonderoga. 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).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.39	3.35	3.85	3.54	3.73	3.22	3.69	3.45	3.99	3.88	3.54	3.39
2	3.41	3.38	3.80	3.58	3.75	3.16	3.81	3.48	3.90	3.91	3.56	3.40
3	3.40	3.42	3.75	3.57	3.88	3.14	3.90	3.52	3.88	3.92	3.56	3.40
4	3.39	3.40	3.69	3.66	3.93	3.11	3.93	3.59	3.85	3.92	3.57	3.38
5	3.40	3.47	3.77	3.65	3.93	3.08	4.08	3.61	3.80	3.96	3.55	3.41
6	3.39	3.47	3.79	3.61	3.92	3.08	4.12	3.61	3.77	3.96	3.52	3.45
7	3.44	3.49	3.79	3.56	3.92	3.06	4.10	3.62	3.75	3.97	3.53	3.44
8	3.64	3.49	3.81	3.51	3.89	3.12	4.04	3.66	3.71	3.96	3.51	3.39
9	3.63	3.78	3.81	3.51	3.86	3.17	4.04	3.68	3.67	3.91	3.52	3.36
10	3.59	3.92	3.78	3.49	3.82	3.21	4.06	3.71	3.61	3.88	3.51	3.35
11	3.62	3.97	3.74	3.47	3.78	3.23	4.10	3.79	3.58	3.85	3.50	3.34
12	3.57	3.98	3.74	3.42	3.75	3.27	4.06	3.82	3.57	3.79	3.51	3.29
13	3.54	3.97	3.76	3.41	3.72	3.33	3.99	3.85	3.58	3.79	3.48	3.26
14	3.57	3.86	3.67	3.39	3.68	3.37	3.97	3.84	3.58	3.77	3.48	3.23
15	3.54	3.90	3.61	3.37	3.70	3.37	3.94	3.83	3.52	3.73	3.45	3.27
16	3.55	3.89	3.72	3.36	3.66	3.40	3.92	3.87	3.50	3.67	3.43	3.26
17	3.52	3.82	3.66	3.33	3.64	3.55	3.88	3.87	3.45	3.62	3.43	3.23
18	3.46	3.80	3.61	3.31	3.62	3.86	3.84	3.91	3.51	3.60	3.42	3.26
19	3.41	3.75	3.55	3.31	3.58	3.90	3.79	4.02	3.49	3.61	3.41	3.30
20	3.40	3.75	3.45	3.44	3.54	3.88	3.74	4.02	3.48	3.59	3.41	3.29
21	3.42	3.75	3.48	3.48	3.50	3.87	3.74	4.09	3.48	3.57	3.40	3.24
22	3.39	3.70	3.50	3.51	3.47	3.85	3.69	4.20	3.48	3.56	3.38	3.29
23	3.39	3.69	3.49	3.63	3.44	3.83	3.66	4.23	3.50	3.54	3.35	3.27
24	3.35	3.65	3.49	3.71	3.42	3.82	3.61	4.20	3.51	3.55	3.31	3.23
25	3.36	3.58	3.45	3.72	3.35	3.80	3.55	4.17	3.52	3.56	3.31	3.26
26	3.36	3.68	3.47	3.73	3.32	3.79	3.51	4.17	3.52	3.56	3.31	3.27
27	3.35	3.87	3.45	3.71	3.28	3.78	3.46	4.14	3.53	3.56	3.32	3.28
28	3.34	3.83	3.42	3.72	3.25	3.80	3.48	4.11	3.54	3.57	3.32	3.24
29	3.32	3.83	3.39	3.77	-----	3.79	3.50	4.08	3.57	3.57	3.34	3.25
30	3.34	3.80	3.38	3.78	-----	3.76	3.44	4.03	3.79	3.55	3.34	3.23
31	3.34	-----	3.41	3.76	-----	3.72	-----	4.03	-----	3.54	3.36	-----
MEAN	3.45	3.71	3.62	3.55	3.65	3.49	3.82	3.88	3.62	3.72	3.44	3.31
MAX	3.64	3.98	3.85	3.78	3.93	3.90	4.12	4.23	3.99	3.97	3.57	3.45
MIN	3.32	3.35	3.38	3.31	3.25	3.06	3.44	3.45	3.45	3.54	3.31	3.23
CAL YR 1972	MEAN	3.58	MAX	4.55	MIN	2.91						
WTR YR 1973	MEAN	3.60	MAX	4.23	MIN	3.06						

04278300 NORTHWEST BAY BROOK NEAR BOLTON LANDING, N.Y.

LOCATION.--Lat 43°39'48", long 73°36'14", Warren County, on left bank 10 ft (3 m) downstream from county bridge on Padanarum Road, 7.7 mi (12.4 km) north and east of Bolton Landing.

DRAINAGE AREA.--23.4 sq. mi.

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 424.60 ft (129.418 m) above mean sea level.

AVERAGE DISCHARGE.--5 years (1965-68, 1971-73), 33.9 ft³/s (0.960 m³/s) (19.67 in/yr (499.6 mm/yr)).

EXTREMES.--Current year: Maximum discharge, 1,100 ft³/s (31.2 m³/s) Nov. 9 (gage height, 4.17 ft (1.271 m)); minimum, 1.6 ft³/s (0.045 m³/s) Aug. 8, 26 (gage height, 0.01 ft (0.003 m)).

Period of record: Maximum discharge, 1,280 ft³/s (36.2 m³/s) Aug. 27, 1972 (gage height, 4.53 ft (1.381 m)); minimum recorded 0.28 ft³/s (0.008 m³/s) Sept. 27, 28, 29, 1968 (gage height, 0.18 ft (0.055 m)).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	25	63	223	37	17	62	30	42	76	2.7	5.7
2	7.7	38	52	119	46	15	180	29	37	44	4.6	7.8
3	6.9	70	48	77	130	14	154	48	31	31	12	5.2
4	6.5	51	45	68	100	19	118	60	31	25	5.2	3.9
5	6.1	62	51	56	60	17	170	45	29	25	3.7	3.4
6	5.7	63	94	83	97	19	138	39	26	19	3.0	13
7	29	57	84	66	58	33	124	35	23	16	2.7	12
8	62	123	92	56	45	233	104	31	20	13	2.5	7.4
9	35	638	56	48	34	166	82	53	17	11	2.4	6.0
10	26	186	40	40	33	100	81	58	15	9.7	2.2	4.9
11	22	115	37	34	31	84	72	106	13	8.7	4.3	4.0
12	22	91	35	29	30	203	59	96	29	6.9	4.9	3.7
13	29	72	33	27	29	228	57	75	32	6.3	3.2	3.0
14	25	64	31	26	28	150	54	58	23	13	2.6	2.6
15	22	59	30	25	26	114	53	52	18	12	2.4	4.6
16	21	50	29	24	25	162	52	54	18	14	2.2	3.7
17	19	44	27	23	23	540	49	45	19	9.2	2.0	3.2
18	18	40	25	23	21	376	45	106	16	6.9	2.2	12
19	17	37	25	25	20	160	40	109	15	6.0	6.9	13
20	17	72	24	200	18	109	36	79	13	5.5	3.4	7.8
21	16	62	23	190	17	84	34	194	12	5.5	2.9	5.7
22	16	47	22	180	16	69	34	198	11	4.6	3.3	11
23	19	52	21	386	21	59	32	110	9.7	3.9	2.5	19
24	21	37	20	148	23	55	29	79	9.7	3.6	2.1	12
25	19	34	19	97	27	53	27	62	10	3.3	1.9	8.3
26	18	203	19	68	18	84	24	52	8.7	3.0	1.7	6.3
27	16	170	19	58	13	78	25	44	7.4	3.2	2.0	5.7
28	16	105	20	51	12	60	36	48	7.8	3.2	2.6	5.5
29	27	83	23	50	-----	53	42	54	17	4.9	2.6	4.6
30	37	67	38	38	-----	49	34	45	182	3.6	2.2	3.9
31	29	-----	62	38	-----	49	-----	48	-----	3.0	3.2	-----
TOTAL	641.9	2,817	1,207	2,576	1,038	3,452	2,047	2,142	742.3	400.0	102.1	208.9
MEAN	20.7	93.9	38.9	83.1	37.1	111	68.2	69.1	24.7	12.9	3.29	6.96
MAX	62	638	94	386	130	540	180	198	182	76	12	19
MIN	5.7	25	19	23	12	14	24	29	7.4	3.0	1.7	2.6
CFSM	.88	4.01	1.66	3.55	1.59	4.74	2.91	2.95	1.06	.55	.14	.30
IN.	1.02	4.48	1.92	4.10	1.65	5.49	3.25	3.41	1.18	.64	.16	.33

CAL YR 1972 TOTAL 17,390.0 MEAN 47.5 MAX 638 MIN 5.7 CFSM 2.03 IN 27.65
WTR YR 1973 TOTAL 17,374.2 MEAN 47.6 MAX 638 MIN 1.7 CFSM 2.03 IN 27.62

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-09	0245	4.17	1,100	1-23	0600	2.87	530
11-26	1645	2.57	436	3-17	1645	3.84	930

ST. LAWRENCE RIVER BASIN

04279000 LAKE GEORGE OUTLET AT TICONDEROGA, N.Y.

LOCATION.--Lat 43°50'38", long 73°25'57", Essex County, 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.

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.

AVERAGE DISCHARGE.--31 years (1942-73), 294 ft³/s (8.326 m³/s).

EXTREMES.--Current year: Maximum daily discharge, 1,060 ft³/s (30.0 m³/s) May 28, 29; minimum daily, 23 ft³/s (0.65 m³/s) Oct. 1-6.

1942-73: Maximum daily discharge, 1,290 ft³/s (36.5 m³/s) June 5, 6, 1947; minimum daily, 6.1 ft³/s (0.17 m³/s) July 6, 1952.

REMARKS.--Records fair. Prior to June 25, 1971 discharge in tailrace determined from rating for turbine gate developed from discharge measurements. From 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). Water- quality records for the current year are published in Part 2 of this report for station 04279015 Ticonderoga Creek at Ticonderoga.

REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	150	942	606	558	767	805	840	1,030	51	44	36
2	23	155	921	606	558	758	834	800	984	95	46	36
3	23	155	900	606	558	758	853	820	984	173	44	35
4	23	150	891	615	558	748	862	860	963	173	44	33
5	23	155	911	615	606	739	891	860	953	173	44	35
6	23	155	921	606	653	720	942	840	872	173	44	36
7	36	155	911	606	786	691	984	800	824	173	44	35
8	29	155	921	596	853	701	984	800	815	142	44	33
9	66	383	911	596	853	701	995	780	805	177	40	33
10	159	634	911	596	853	710	1,010	780	777	308	40	33
11	159	644	900	596	853	720	1,030	800	739	486	41	33
12	159	644	900	596	853	729	1,020	880	644	596	40	33
13	159	824	911	596	853	739	974	880	558	596	39	33
14	159	911	881	596	853	748	974	820	568	596	39	33
15	159	932	862	596	853	758	963	820	478	596	39	33
16	159	942	900	558	853	767	974	820	321	587	39	33
17	159	921	881	530	853	796	963	820	315	461	39	32
18	159	911	862	512	853	862	942	820	321	191	37	35
19	155	891	853	512	853	872	911	860	315	48	37	33
20	150	900	663	539	853	862	900	880	209	48	37	33
21	150	900	587	530	843	853	911	840	48	46	37	33
22	150	881	587	530	815	843	900	843	46	46	37	35
23	150	881	587	549	786	834	891	862	46	44	37	33
24	150	881	587	558	796	834	872	862	48	46	36	33
25	150	862	577	549	786	824	880	974	46	46	36	33
26	150	911	587	549	777	824	880	1,040	46	46	36	33
27	150	953	577	549	767	805	900	1,050	48	46	36	33
28	150	932	577	549	767	824	900	1,060	48	46	36	33
29	150	932	568	549	-----	834	900	1,060	48	46	36	33
30	150	921	568	558	-----	824	860	1,030	55	44	36	33
31	150	-----	577	558	-----	815	-----	1,040	-----	44	37	-----
TOTAL	3,655	19,821	24,132	17,707	21,703	24,260	27,731	27,241	13,954	6,343	1,221	1,008
MEAN	118	661	778	571	775	783	924	879	465	205	39.4	33.6
MAX	159	953	942	615	853	872	1,030	1,060	1,030	596	46	36
MIN	23	150	568	512	558	691	805	780	46	44	36	32
CAL YR 1972	TOTAL 182,402	MEAN 498	MAX 1,100	MIN 23								
WTR YR 1973	TOTAL 188,776	MEAN 517	MAX 1,060	MIN 23								

ST. LAWRENCE RIVER BASIN

277

04280000 Poultney River below Fair Haven, Vt.

LOCATION.--Lat 43°37'40", long 73°18'50", Rutland County, 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.--October 1928 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 105 ft (32 m) from topographic map.

AVERAGE DISCHARGE.--45 years, 235 ft³/s (6.655 m³/s), 17.07 in/yr (434 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,660 ft³/s (132 m³/s) Nov. 9 (gage height, 14.90 ft or 4.542 m); minimum daily, 5.2 ft³/s (0.15 m³/s) Sept. 12.

Period of record: Maximum discharge, 14,800 ft³/s (419 m³/s) July 20, 1945 (gage height, 24.36 ft or 7.425 m, from high-water mark in gage well), from rating curve extended above 2,400 ft³/s (68.0 m³/s) on basis of computations of peak flow over dam at gage heights 16.10, 21.40, and 24.36 ft (4.907, 6.523, and 7.425 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Aug. 8, 1965.

REMARKS.--Records good. Flow regulated by powerplant above station and by Lake Bomoseen.

REVISIONS (WATER YEARS).--WSP 1114: 1929(M), 1932-35.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	135	725	1,070	490	123	455	110	358	1,380	12	7.8
2	54	226	547	1,350	500	124	524	104	301	909	67	13
3	15	400	591	870	1,850	155	873	105	263	714	51	15
4	50	422	566	737	1,750	220	749	110	238	548	16	35
5	14	419	514	701	1,110	418	1,170	105	230	758	31	13
6	55	418	560	573	814	480	1,140	110	152	470	73	13
7	233	365	1,700	440	722	452	892	122	150	327	11	13
8	738	422	1,140	410	555	363	758	117	152	213	54	15
9	350	2,840	952	430	528	1,440	646	129	93	175	7.8	15
10	249	2,370	914	430	555	391	593	147	107	149	61	15
11	134	1,040	909	410	540	838	724	190	94	137	10	46
12	181	884	785	380	520	791	585	252	78	106	58	5.2
13	176	745	753	390	500	837	513	283	201	109	77	5.6
14	175	639	763	370	480	791	522	242	245	112	36	5.9
15	160	598	732	320	444	591	493	221	157	86	53	6.3
16	150	530	667	280	359	687	400	319	127	90	49	10
17	152	477	593	256	320	928	353	333	199	80	8.2	48
18	117	474	587	240	290	1,930	271	254	190	75	19	7.8
19	123	449	596	343	250	1,360	256	298	101	62	25	8.2
20	103	654	562	1,520	235	1,130	240	330	94	54	65	52
21	104	853	519	1,420	190	1,010	210	766	91	29	7.4	5.9
22	104	633	490	1,150	171	919	201	1,520	81	53	44	49
23	104	548	480	2,030	157	822	201	1,130	62	75	5.6	62
24	102	513	470	2,110	143	701	188	878	78	53	7.0	96
25	73	476	460	1,340	135	629	175	715	91	71	13	64
26	74	793	450	1,010	133	524	147	573	79	65	17	7.0
27	82	1,690	430	801	132	787	151	470	50	7.9	52	41
28	73	1,050	441	705	131	588	151	460	65	42	7.0	5.6
29	98	932	403	531	-----	507	138	480	58	48	43	7.0
30	181	814	389	520	-----	554	134	440	341	69	5.6	15
31	139	-----	447	500	-----	493	-----	295	-----	23	6.6	-----
TOTAL	4,523	22,809	20,235	23,737	14,344	23,204	13,984	11,608	4,556	7,089.8	992.2	703.3
MEAN	145	760	653	765	512	749	455	374	152	229	32.0	23.4
MAX	738	2,840	1,700	2,110	1,850	1,930	1,170	1,520	358	1,380	77	96
MIN	14	135	389	240	131	123	134	104	58	7.9	5.6	5.2
CFSM	.78	4.05	3.49	4.10	2.74	4.01	2.49	2.00	.81	1.22	.17	.13
IN.	.90	4.54	4.03	4.72	2.85	4.62	2.78	2.31	.91	1.41	.20	.14

CAL YR 1972 TOTAL 145,713.0 MEAN 399 MAX 2,840 MIN 14 CFSM 2.13 IN 28.99
WTR YR 1973 TOTAL 147,785.3 MEAN 405 MAX 2,840 MIN 5.2 CFSM 2.17 IN 29.40

PEAK DISCHARGE (BASE, 2,600 ft³/s)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-9	1745	14.90	4,660				
1-23	2215	12.01	2,890				

ST. LAWRENCE RIVER BASIN

04294500 Lake Champlain at Burlington, Vt.

LOCATION.--Lat 44°28'52", long 73°13'27", Chittenden County, 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.--May 1907 to current year.

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.

EXTREMES.--Current year: Maximum gage height, 7.60 ft (2.316 m) Apr. 7, affected by seiche; minimum, 1.96 ft (0.597 m) Oct. 21, affected by seiche.

Period of record: Maximum gage height observed, 8.65 ft (2.637 m) Mar. 27, 28, 1936; minimum observed, -0.25 ft (-0.076 m) Dec. 4, 1908.

REVISIONS (WATER YEARS).--WSP 684: 1912-29 (datum correction). WSP 1207: 1938 (datum correction).

MEAN GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.45	2.04	3.69	4.20	5.05	4.31	6.55	6.18	6.15	6.06	4.67	3.23
2	2.42	2.03	3.69	4.34	5.05	4.27	5.77	6.08	5.16	6.31	4.60	3.19
3	2.39	2.11	3.72	4.43	5.17	4.20	7.05	6.04	6.12	6.39	4.60	3.16
4	2.37	2.12	3.71	4.44	5.33	4.17	7.19	6.02	6.09	6.39	4.58	3.12
5	2.33	2.14	3.70	4.51	5.42	4.20	7.39	5.99	6.05	6.40	4.51	3.08
6	2.28	2.19	3.68	4.53	5.46	4.22	7.51	5.94	6.02	6.39	4.43	3.05
7	2.32	2.19	3.85	4.52	5.43	4.24	7.57	5.87	5.98	6.32	4.40	3.08
8	2.36	2.23	3.90	4.48	5.43	4.40	7.56	5.75	5.95	6.24	4.37	3.09
9	2.37	2.47	4.09	4.45	5.42	4.70	7.51	5.66	5.90	6.19	4.33	3.04
10	2.37	2.73	4.14	4.43	5.37	4.90	7.48	5.62	5.82	6.13	4.27	2.97
11	2.29	2.95	4.16	4.38	5.33	4.99	7.41	5.60	5.75	6.07	4.24	2.90
12	2.26	2.94	4.14	4.35	5.29	5.15	7.34	5.60	5.74	5.99	4.20	2.87
13	2.31	2.99	4.14	4.30	5.24	5.49	7.26	5.59	5.81	5.88	4.17	2.84
14	2.23	3.05	4.21	4.25	5.17	5.76	7.17	5.56	5.88	5.79	4.11	2.81
15	2.23	3.08	4.26	4.21	5.15	5.85	7.06	5.52	5.85	5.75	4.03	2.81
16	2.12	3.05	4.32	4.16	5.12	5.96	6.96	5.48	5.87	5.73	3.99	2.75
17	2.10	3.04	4.30	4.12	5.05	6.16	5.90	5.43	5.98	5.66	3.94	2.73
18	2.13	3.04	4.24	4.08	4.97	6.59	6.88	5.43	6.03	5.58	3.88	2.75
19	2.12	3.03	4.28	4.07	4.90	6.96	6.86	5.42	5.02	5.49	3.85	2.82
20	2.09	3.07	4.29	4.28	4.85	7.10	6.82	5.47	5.95	5.41	3.80	2.84
21	2.01	3.08	4.25	4.44	4.81	7.13	6.73	5.64	5.90	5.34	3.73	2.85
22	2.00	3.09	4.29	4.53	4.76	7.13	6.57	5.94	5.95	5.27	3.68	2.80
23	2.02	3.06	4.28	4.68	4.70	7.08	6.67	6.19	5.98	5.19	3.63	2.87
24	2.05	3.02	4.26	4.90	4.53	7.00	5.54	6.29	5.01	5.09	3.57	2.93
25	2.05	3.00	4.25	5.05	4.57	6.93	6.56	6.30	6.01	5.01	3.49	2.96
26	2.03	3.07	4.21	5.12	4.51	6.90	6.49	6.27	5.95	4.96	3.43	2.95
27	2.02	3.28	4.21	5.16	4.45	6.88	6.40	6.19	5.85	4.89	3.38	2.91
28	1.99	3.48	4.20	5.15	4.38	6.78	6.34	6.12	5.76	4.83	3.41	2.90
29	2.06	3.59	4.17	5.17	-----	6.67	6.30	6.15	5.70	4.83	3.38	2.89
30	2.07	3.63	4.15	5.15	-----	6.63	6.25	6.16	5.78	4.80	3.32	2.87
31	2.08	-----	4.11	5.10	-----	6.57	-----	6.15	-----	4.74	3.29	-----
MEAN	2.19	2.82	4.10	4.55	5.04	5.78	6.94	5.86	5.93	5.65	3.98	2.94
MAX	2.46	3.63	4.32	5.17	5.46	7.13	7.57	6.30	5.16	6.40	4.67	3.23
MIN	1.99	2.03	3.68	4.07	4.38	4.17	6.25	5.42	5.70	4.74	3.29	2.73

CAL YR 1972 MEAN 4.00 MAX 8.57 MIN 1.99
 WTR YR 1973 MEAN 4.64 MAX 7.57 MIN 1.99

LOCATION.--Lat 44°59'46", long 73°21'37", Clinton County, on left bank at outlet of Lake Champlain in Rouses Point, and 1.0 mi (1.6 km) south of Fort Montgomery ruins.

DRAINAGE AREA.--8,277 mi² (21,437 km²).

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, Roues 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.

EXTREMES.--Current year: Maximum elevation, 100.40 ft (30.602 m) Apr. 7, 8; minimum, 94.62 ft (28.840 m) Oct. 17.
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.
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.

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)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95.31	95.00	96.55	97.05	97.96	97.14	99.38	99.06	99.08	98.93	97.57	96.17
2	95.33	95.00	96.57	97.17	97.94	97.07	99.55	99.04	99.00	99.17	97.58	96.10
3	95.28	94.87	96.51	97.27	98.00	97.04	99.85	98.94	99.05	99.34	97.47	96.04
4	95.25	94.98	96.49	97.45	98.18	97.00	100.00	98.92	99.00	99.31	97.41	95.99
5	95.26	95.06	96.58	97.35	98.24	96.99	100.16	98.86	98.97	99.28	97.38	96.01
6	95.23	95.04	96.73	97.30	98.29	97.05	100.33	98.77	98.99	99.25	97.39	96.08
7	95.05	95.09	96.64	97.30	98.30	97.12	100.34	98.71	98.94	99.27	97.36	95.95
8	95.26	95.08	96.94	97.32	98.25	97.24	100.33	98.74	98.89	99.20	97.27	95.87
9	95.18	95.08	96.91	97.34	98.23	97.49	100.30	98.67	98.82	99.06	97.24	95.83
10	95.20	95.51	96.95	97.29	98.20	97.74	100.29	98.53	98.70	98.98	97.21	95.86
11	95.48	95.75	96.98	97.26	98.10	97.89	100.20	98.51	98.64	98.87	97.21	95.82
12	95.20	95.79	97.08	97.19	98.08	98.00	100.12	98.50	98.61	98.78	97.08	95.73
13	95.13	95.83	97.14	97.18	98.07	98.29	100.04	98.48	98.70	98.85	97.00	95.64
14	95.30	95.69	97.04	97.14	98.00	98.58	100.01	98.48	98.66	98.75	96.99	95.64
15	95.05	95.79	97.06	97.07	97.96	98.85	99.94	98.42	98.69	98.67	96.98	95.68
16	95.43	95.89	97.14	97.04	97.89	98.77	99.90	98.40	98.65	98.57	96.86	95.60
17	94.99	95.92	97.06	96.98	97.86	98.94	99.76	98.33	98.88	98.48	96.81	95.54
18	94.97	95.90	97.22	96.95	97.83	99.43	99.71	98.27	98.87	98.41	96.76	95.64
19	94.92	95.89	97.10	96.94	97.77	99.72	99.66	98.39	98.85	98.36	96.71	95.75
20	94.95	95.86	97.07	97.03	97.69	99.88	99.63	98.35	98.81	98.26	96.69	95.78
21	95.04	95.90	97.16	97.30	97.61	99.92	99.66	98.30	98.79	98.18	96.69	95.72
22	94.92	95.92	97.12	97.43	97.56	99.83	99.59	98.77	98.84	98.07	96.54	95.96
23	94.87	95.99	97.12	97.55	97.52	99.82	99.51	99.05	98.84	97.99	96.51	95.70
24	94.82	95.92	97.12	97.74	97.45	99.84	99.48	99.11	98.85	97.95	96.40	95.79
25	94.89	95.93	97.06	97.91	97.38	99.77	99.40	99.16	98.83	97.88	96.39	95.84
26	94.95	95.99	97.08	97.96	97.32	99.62	99.35	99.16	98.83	97.88	96.32	95.87
27	94.92	96.30	97.04	97.97	97.25	99.56	99.26	99.16	98.85	97.88	96.26	95.90
28	94.97	96.38	97.03	98.02	97.21	99.68	99.19	99.24	98.75	97.78	96.24	95.77
29	94.77	96.46	97.01	97.96	-----	99.67	99.15	99.05	98.64	97.72	96.24	95.75
30	94.86	96.62	97.03	98.02	-----	99.50	99.09	99.06	98.66	97.66	96.21	95.67
31	94.88	-----	97.11	97.95	-----	99.61	-----	99.07	-----	9		

04260990 CRANBERRY LAKE AT CRANBERRY LAKE, N.Y.--Lat 44°13'14", long 74°50'55", St. Lawrence County, 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. Nonrecording gauge read daily at 1200. Datum of gauge is 1,469.75 ft (447.980 m) above mean sea level. Extremes for current year: Maximum contents observed, 2,560 mil ft³ (72.5 hm³) May 23 (gauge height, 17.1 ft (5.21 m)); minimum contents observed, 821 mil ft³ (20.9 hm³), Mar. 3-6 (gauge height, 10.1 ft (3.00 m)). Extremes for period of record: Maximum contents observed, 2,985 mil ft³ (84.5 hm³) May 13-15, 1971 (gauge height, 18.5 ft (5.64 m)); minimum contents observed, 70 mil ft³ (1.98 hm³) Apr. 1-4, 1956 (gauge height, 6.0 ft (1.83 m)).

Dam completed in 1867 and controlled storage for which records are available began in 1923. Usable capacity above elevation 1475.25 ft (449.656 m) is 2,530 mil ft³ (71.6 km³). 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.

04266700 CARRY FALLS RESERVOIR NEAR SOUTH COLTON, N.Y.--Lat 44°26'07", long 74°44'50", St. Lawrence County, 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. Nonrecording gage. Datum of gage is at mean sea level. Extremes for current year: Maximum contents observed, 5,104.5 mil ft³ (145 hm³) May 13 (elevation, 1,385.8 ft (422.39 m)); minimum observed, 1,578.0 mil ft³ (44.7 hm³) Sept. 18 (elevation, 1,355.7 ft (413.22 m)). 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)).

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 (13.4 km²) (3,300 acres (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 Tainter gate (27 ft (8 m) x 15 ft (5 m)) and 2 sluice gates (10 ft (3 m) x 10 ft (3 m)). Records furnished by Niagara Mohawk Power Corp.

04294500--LAKE CHAMPLAIN AT BURLINGTON, VT.--See station for mean daily gage heights.

04295000--RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, N.Y.--See station for mean daily elevations.

Date	Gage heights (feet)	Contents (cubic feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (cubic feet)	Change in contents (equivalent in cfs)
04260990 Cranberry Lake				04266700 Carry Falls Reservoir		
Sept. 30....	14.0	1,710		1,362.4	2,236.0	
Oct. 31.....	13.6	1,606	- 38.8	1,357.7	1,768.6	-175
Nov. 30.....	13.5	1,580	- 10.0	1,373.2	3,428.4	+640
Dec. 31.....	13.9	1,684	+ 38.8	1,382.9	4,703.6	+476
CAL YR 1972			+ 1.64			+ 27.8
Jan. 31.....	12.4	1,318	-137	1,376.5	3,849.1	-319
Feb. 28.....	10.4	884	-179	1,364.2	3,422.7	-590
Mar. 31.....	14.8	1,918	+386	1,375.3	3,693.6	+474
Apr. 30.....	16.5	2,380	+178	1,383.4	4,772.7	+416
May 31.....	16.5	3,380	0	1,385.0	4,993.9	+ 82.6
June 30.....	16.4	2,352	- 10.8	1,384.5	4,924.8	- 26.7
July 31.....	15.7	2,156	- 73.2	1,376.2	3,810.2	-416
Aug. 31.....	14.4	1,814	-128	1,363.2	2,319.0	-557
Sept. 30....	14.4	1,814	0	1,359.6	1,949.2	-143
WTR YR 1973	-	-	+ 3.30	-	-	- 9.09

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 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. Most of 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 where continuous records are available, give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site. Where "Drainage area" column is blank, drainage area was not available at time of publication.

Discharge measurements made at low-flow partial-record stations during water year 1973

					Measurements	
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Discharge (cfs)
Streams on Long Island						
01302200	Whitney Lake Outlet at Manhasset, N. Y.	Lat 40°47'30", long 73°42'32", Nassau County, at bridge on Creek Road, at Manhasset, 0.25 mile northwest of State Highway 25A.	-	1953-73	10-18-72	0.35
					1-24-73	.64
					4-23-73	.91
					9- 7-73	.88
01302300	Roslyn Brook at Roslyn, N. Y.	Lat 40°47'55", long 73°38'51", Nassau County, at Roslyn, 200 ft downstream from dam in Roslyn Park.	-	1953-73	10-18-72	.14
					1-24-73	.32
					4-23-73	.30
					9- 7-73	.14
01302800	Island Swamp Brook at Lattinatown, N. Y.	Lat 40°53'25", long 73°37'10", Nassau County, at bridge on Lattinatown Road, 0.3 mile southwest of Lattinatown, and 1.5 miles northwest of Locust Valley.	-	1953-73	10-18-72	.42
					1-24-73	.62
					4-23-73	.93
					9- 6-73	.76
01303600	Mill Creek near Huntington, N. Y.	Lat 40°52'56", long 73°25'17", Suffolk County, at culvert on Creek Road, 300 ft west of New York Ave., 1 mile northeast of Huntington.	-	1953-73	10-18-72	2.7
					1-24-73	3.6
					4-24-73	4.5
					9- 7-73	1.9
01303700	Stony Hollow Run at Centerport, N. Y.	Lat 40°53'05", long 73°21'41", Suffolk County, at culvert on State Highway 25A, 0.25 mile east of Centerport, and 1.5 miles southwest of Northport.	-	1953-73	10-18-72	1.1
					1-24-73	1.3
					4-24-73	1.5
					9- 7-73	1.6
01303790	Northeast Branch Nissequogue River near East Hauppauge, N. Y.	Lat 40°50'27", long 73°10'41", Suffolk County, at culvert on State Highway 347, 1.5 miles northwest of East Hauppauge, and 4 miles upstream from gaging station near Smithtown.	-	1972-73	11-17-72	1.4
					2-21-73	1.2
					5- 3-73	2.0
					9- 4-73	.36
01303800	Northeast Branch Nissequogue River at Smithtown, N. Y.	Lat 40°51'05", long 73°11'15", Suffolk County, 300 ft upstream from culvert on State Highway 111, 0.75 mile southeast of Smithtown, and 3 miles upstream from gaging station near Smithtown.	-	1948-49	10-18-72	1.2
					11-17-72	3.6
				1951-73	2-21-73	3.2
					5- 3-73	4.2
01303850	Northeast Branch Nissequogue River near Hauppauge, N. Y.	Lat 40°50'43", long 73°11'50", Suffolk County, at culvert on Maple Avenue, 0.75 mile south of Smithtown, and 2.5 miles upstream from gaging station near Smithtown.	-	1972-73	10-18-72	1.8
					11-17-72	5.5
					2-21-73	5.3
					9- 4-73	1.6
01303900	Northeast Branch Nissequogue River near Smithtown, N. Y.	Lat 40°50'45", long 73°12'29", Suffolk County, 10 ft upstream from culvert at Brookside Drive, 0.75 mile southwest of Smithtown, and 2 miles upstream from gaging station near Smithtown.	-	1953-73	10-18-72	2.7
					11-17-72	7.5
					2-21-73	7.9
					9- 4-73	3.4
01303941	Nissequogue River near Hauppauge, N. Y.	Lat 40°50'30", long 73°13'43", Suffolk County, 30 ft downstream from dam at New Mill Road, 2 miles northwest of Hauppauge, and 0.5 mile upstream from gaging station near Smithtown.	-	1972-73	11-17-72	18
					2-21-73	16
					9- 4-73	24
01304100	Wading River at Wading River, N. Y.	Lat 40°57'20", long 72°51'19", Suffolk County, at pond outlet, 0.25 mile west of Wading River.	-	1953-62	10- 3-72	.72
					1964-73	11-17-72
				2- 8-73		1.0
				5-18-73		.73
				9- 6-73	1.5	

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

						Measurements
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Discharge (cfs)
Streams on Long Island--Continued						
01304400	Peconic River at Manorville, N. Y.	Lat 40°52'38", long 72°49'42", Suffolk County, at bridge on Schultz Road, 1 mile northwest of Manorville, and 8.5 miles upstream from gaging station at Riverhead.	-	1953-62 1951-73	10- 4-72 10-31-72 2- 7-73 5-14-73 9- 5-73	.72 3.1 19 18 5.6
01304410	Peconic River near Manorville, N.Y.	Lat 40°53'02", long 72°48'26", Suffolk County, at culvert on Manor Road, and 0.8 mile north of Manorville; and 7.2 miles upstream from gaging station at Riverhead.	- -	1973	5-14-73 9- 5-73	25 11
01304440	Peconic River near Calverton, N.Y.	Lat 40°54'02", long 72°46'27", Suffolk County at culvert on Connecticut Avenue; and 1.7 miles southwest of Calverton, and 4.8 miles upstream from gaging station at Riverhead.	-	1973	10-31-72 5-14-73 9- 5-73	13 39 15
01304450	Peconic River at Calverton, N. Y.	Lat 40°54'20", long 72°44'35", Suffolk County, at culvert on Edwards Avenue, 0.2 mile south of Calverton, and 3.0 miles upstream from gaging station at Riverhead.	-	1971-73	10-31-72 2- 7-73 5-14-73 9- 5-73	19 64 55 19
01304530	Little River near Riverhead, N. Y.	Lat 40°53'52", long 72°40'30", Suffolk County, at Wildwood Lake outlet, 500 ft east of Moriches-Riverhead Road, 1.5 miles southwest of Riverhead.	-	1952-73	10-31-72 2- 8-73 5-18-73 9- 5-73	6.7 6.9 7.8 5.6
01304560	White Brook at Riverhead, N.Y.	Lat 40°54'40", long 72°38'37", Suffolk County, at culvert on State Highway 24; 1 mile southeast of Riverhead.	-	1953-69 1973	9- 5-73	3.1
01304600	Big Fresh Pond Outlet at North Sea, N. Y.	Lat 40°55'49", long 72°25'04", Suffolk County, at culvert on Noyack Road, at North Sea, 3.5 miles northwest of Southampton.	-	1951-69 1971-73	11- 1-72 2-28-73 5-14-73 6- 7-73 9-12-73	.87 2.0 2.7 2.0 .63
01304630	Mill Creek at Noyack, N. Y.	Lat 40°59'35", long 72°21'00", Suffolk County, 50 ft upstream from culvert on Noyack Road, 0.25 mile west of Noyack.	-	1958-73	11- 1-72 2-28-73 5-15-73 6- 7-73 9-12-73	.86 .91 1.2 1.2 .95
01304660	Ligonee Brook at Sag Harbor, N.Y.	Lat 40°59'21", long 72°18'12", Suffolk County, at culvert on Brick Kiln Road, 0.75 mile southwest of Sag Harbor.	-	1953-69 1973	2-28-73 5-14-73 6- 7-73 9-12-73	.51 2.3 2.4 .08
01304730	Poxabogue Pond Outlet at Sagaponack, N. Y.	Lat 40°55'48", long 72°17'16", Suffolk County, at culvert on Sagg St., at Sagaponack, and 1 mile southeast of Bridgehampton.	-	1953-73	11- 1-72 2-28-73	2.7 3.5
01304780	Aspatuck Creek near Westhampton Beach, N. Y.	Lat 40°49'04", long 72°38'13", Suffolk County, at culvert on Brook Road, at Westhampton Beach.	-	1959-73	11- 1-72 2-28-73 9- 6-73	2.1 2.6 2.5
01304800	Beaverdam Creek at Westhampton, N. Y.	Lat 40°49'23", long 72°39'42", Suffolk County, at culvert on Old Country Road, 100 ft northwest of State Highway 27, and 1 mile northwest of Westhampton.	-	1953-73	11- 1-72 2-28-73 9- 6-73	2.0 4.1 2.5
01304830	East River at Eastport, N.Y.	Lat 40°49'24", long 72°43'02", Suffolk County, 15 ft upstream from culvert on Long Island RR, 200 ft south of State Highway 27, 0.5 mile east of Eastport.	-	1953-69 1973	9-10-73	2.4
01304860	Seatuck Creek at Eastport, N. Y.	Lat 40°49'30", long 72°43'43", Suffolk County, 15 ft downstream from culvert, on State Highway 27, at Eastport.	-	1953-73	11- 1-72 2-28-73 9- 6-73 9-10-73	4.8 8.4 5.8 3.9
01304960	Forge River at Moriches, N. Y.	Lat 40°48'22", long 72°50'00", Suffolk County, at culvert on State Highway 27, at Moriches.	-	1948-50 1952-73	12-14-72 2-28-73 9-10-73	8.6 11 11
01304990	Carmans River at Middle Island, N.Y.	Lat 40°51'47", long 72°56'35", Suffolk County, at culvert on East Bartlett Road, 0.75 mile south of Middle Island, and 3 miles upstream from gaging station at Yaphank.	-	1947-73	10-30-72 2- 8-73 5-16-73 8-29-73	.27 3.1 4.9 3.1

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

						Measurements
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Discharge (cfs)
Streams on Long Island--Continued						
01304995	Carmans River near Yaphank, N.Y.	Lat 40°50'29", long 72°56'13", Suffolk County, 25 ft downstream from Mill Road; 1.2 miles northwest of Yaphank; and 1.9 miles upstream from gaging station at Yaphank.	-	1973	10-30-72	7.4
					2- 8-73	13
					5-16-73	18
					8-29-73	6.5
01304998	Carmans River, below Lower Lake, at Yaphank, N.Y.	Lat 40°50'07", long 72°55'01", Suffolk County, at culvert on Yaphank Avenue, at Yaphank; and 0.7 mile upstream from gaging station at	-	1973	10-30-73	12
					2- 8-73	22
					5-16-73	27
					8-29-73	21
01305040	Carmans River at South Haven, N.Y.	Lat 40°48'09", long 72°53'09", Suffolk County, 50 ft upstream from culvert on State Highway 27, at South Haven, and 2.6 miles downstream from gaging station at Yaphank.	-	1973	10-30-72	60
					2- 9-73	68
01305300	Mud Creek at East Patchogue, N. Y.	Lat 40°45'47", long 72°58'59", Suffolk County, at culvert on south Country Road, at East Patchogue, 2 miles east of Patchogue.	-	1947-69 1971-73	10-18-72	3.9
					11-17-72	4.4
					2-28-73	6.6
					5-15-73	10
					8-29-73	4.5
01305800	Patchogue River near Patchogue, N. Y.	Lat 40°46'55", long 73°01'19", Suffolk County, at bridge on discontinued road, 300 ft west of North Ocean Ave., and 1 mile north of State Highway 27A and gaging station at Patchogue.	-	1945-50 1952-73	10-11-72	11
					2- 7-73	15
					4-24-73	29
					8-29-73	13
01306000	Patchogue River at Patchogue, N. Y.	Lat 40°45'56", long 73°01'16", Suffolk County, at State Highway 27A, at Patchogue.	-	1946-69 [#] 1970-73	10-11-72	18
					1-12-73	20
					3- 6-73	24
					3-19-73	25
					4-24-73	29
					5-15-73	25
					6-18-73	23
					7-27-73	24
					8-23-73	24
					9-13-73	19
9-27-73	20					
01306400	Green Creek at West Sayville, N. Y.	Lat 40°43'51", long 73°05'32", Suffolk County, 30 ft upstream from State Highway 27A, at West Sayville.	-	1953-73	10-18-72	4.3
					11- 1-72	3.0
					2-27-73	6.2
01306405	Lake Ronkonkoma Inlet at Lake Ronkonkoma, N. Y.	Lat 40°49'57", long 73°07'34", Suffolk County, 300 ft southeast of Smithtown Blvd., 0.2 mile west of Lake Ronkonkoma.	-	1948-49 1953-54 1956-73	10-31-72	1.52
					2- 6-73	1.3
					4-23-73	1.5
01306440	Connetquot Brook at Central Islip, N. Y.	Lat 40°47'33", long 73°09'58", Suffolk County, at culvert on Veterans Memorial Highway, 2 miles northeast of Central Islip, and 3.8 miles upstream from gaging station near North Great River.	-	1968 1971-73	10-18-72	5.0
					10-30-72	4.1
					2- 8-73	9.8
					4-20-73	12
01306460	Connetquot Brook near Central Islip, N. Y.	Lat 40°46'18", long 73°09'31", Suffolk County, 20 ft downstream from bridge on private road, and 1.8 miles upstream from gaging station 01306499	-	1968 1973	8-28-73	7.8
					10-30-72	21
					2- 8-73	35
					4-20-73	37
01306470	Connetquot Brook near Oakdale, N. Y.	Lat 40°45'47", long 73°09'10", Suffolk County, 100 ft downstream from fish hatchery, and 1.1 miles upstream from gaging station 01306499.	-	1968 1973	8-13-73	12
					1-30-72	29
					2- 8-73	39
					4-20-73	42
01306700	Rattlesnake Brook near Oakdale, N. Y.	Lat 40°44'52", long 73°08'45", Suffolk County, 50 ft downstream from State Highway 27, 1.5 miles northwest of Oakdale.	-	1944-69, 1971-73	10-18-72	13
					11- 1-73	15
					2-13-73	23
					4-30-73	30
					9- 5-73	18
01306800	West Brook near Great River, N.Y.	Lat 40°44'42", long 73°09'25", Suffolk County, at pond outlet, 80 ft upstream from State Highway 27A, 1.8 miles north of Great River.	-	1943-69 1973	9-5-73	2.9
01306900	Champlin Creek at Beech Street, near Islip, N.Y.	Lat 40°45'03", long 73°12'05", Suffolk County, 75 feet downstream from Beech Street, 1.3 miles north of Islip, and 1 mile upstream from gaging station at Islip.	-	1963 1967 1973	10-30-72	.53
					2- 7-73	4.2
					5-17-73	3.3
01306950	Champlin Creek at Islip Boulevard, near Islip N.Y.	Lat 40°44'36", long 73°12'06", Suffolk County; at Islip Boulevard, 1 mile north of Islip; and 0.5 mile upstream from gaging station at Islip.	-	1963-67 1973	10-30-72	2.6
					2- 7-73	9.0
					5-17-73	6.7

[#] Operated as continuous-record gaging station.

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Measurements
						Discharge (cfs)
Streams on Long Island--Continued						
01307000	Champlin Creek at Islip, N. Y.	Lat 40°44'13", long 73°12'08", Suffolk County, at Long Island Railroad bridge, 220 ft downstream from Moffitt Boulevard, at Islip.	-	1948-69 [†] 1970-73	10-10-72	4.7
					11- 3-72	4.3
					12- 8-72	9.1
					1-12-73	8.5
					2- 7-73	13
					3- 2-73	7.9
					4-18-73	13
					5-17-73	10
					6-18-73	8.6
					7-27-73	7.8
					8- 8-73	6.7
					9-18-73	9.1
01307100	Champlin Creek at Montauk Highway, at Islip, N.Y.	Lat 40°43'50", long 73°12'12", Suffolk County, at Montauk Highway, at Islip; and 0.45 mile downstream from gaging station at Islip.	-	1963 1967 1973	10-30-72	5.1
					2- 7-73	19
					5-17-73	5.9
01307300	Pardees Ponds Outlet at Islip, N. Y.	Lat 40°43'40", long 73°13'16", Suffolk County, at culvert on State Highway 27A, at Islip.	-			
01307400	Awixa Creek at Islip, N. Y.	Lat 40°43'39", long 73°13'51", Suffolk County, at culvert on State Highway 27A, 0.75 mile west of Islip.	-	1948-73	10-27-72	.51
					2- 8-73	4.6
					4-30-73	3.4
					8- 4-73	.68
01307600	Cascade Lakes Outlet at Brightwaters, N. Y.	Lat 40°42'40", long 73°15'38", Suffolk County, at culvert on Montauk Highway, at Brightwaters.	-	1958-73	11-17-72	2.6
					2-27-73	6.4
					4-30-73	6.2
01307920	Sampawams Creek near Deer Park, N.Y.	Lat 40°44'27", long 73°18'24", Suffolk County, 30 ft downstream from Bay Shore Road, and 2.5 miles upstream from gaging station at Babylon.	-	1965-66, 1973	12- 5-72	2.2
					2- 8-73	5.1
01307950	Sampawams Creek near North Babylon, N. Y.	Lat 40°43'37", long 73°18'46", Suffolk County, 120 ft downstream from Hunter Avenue, and 1.6 miles upstream from gaging station at Babylon.	-	1967 1971-73	10-18-72	1.3
					2- 8-73	8.2
					4-18-73	8.1
01308200	Sampawams Creek below Hawleys Lake, at Babylon, N. Y.	Lat 40°41'48", long 73°19'04", Suffolk County, at pond outlet, 200 ft upstream from State Highway 27A, at Babylon, and 0.5 mile downstream from gaging station at Babylon.	-	1953-67, 1969-73	10-18-72	7.5
					2- 8-73	20
					4-18-73	9.5
					9- 5-73	6.2
01308600	Carlls River at Park Avenue, Babylon, N. Y.	Lat 40°42'06", long 73°19'43", Suffolk County, at culvert on Park Avenue, at Babylon, and 2,600 ft downstream from gaging station at Babylon.	-	1968-73	10-31-72	18
					2- 6-73	43
					4-18-73	43
					9- 4-73	17
01309000	Santapogue Creek at Lindenhurst, N. Y.	Lat 40°41'30", long 73°21'20", Suffolk County, at culvert on East Hoffman Avenue, 1 mile east of Long Island Railroad station at Lindenhurst.	-	1947-69 1970-73	2-27-73	1.5
01309100	Santapogue Creek at State Highway 27A, Lindenhurst, N. Y.	Lat 40°41'02", long 73°21'06", Suffolk County, at culvert on State Highway 27A, 0.5 mile downstream from gaging station at Lindenhurst.	-	1953-69, 1971-73	4-25-73	25
01309200	Neguntatogue Creek at Lindenhurst, N. Y.	Lat 40°40'47", long 73°21'40", Suffolk County, 20 ft upstream from State Highway 27A, in Lindenhurst.	-	1948-50 1952-73	11- 1-73	2.5
					2-27-73	4.2
					9- 4-73	1.7
01309250	Strongs Creek at Lindenhurst, N. Y.	Lat 40°41'22", long 73°22'40", Suffolk County, 30 ft upstream from State Highway 27A, at Lindenhurst.	-	1953-69, 1971-73	10-31-72	1.5
					2-27-73	2.0
					4-25-73	2.4
01309350	Amityville Creek at Amityville, N. Y.	Lat 40°40'13", long 73°24'51", Suffolk County, 100 ft upstream from State Highway 27A, at Amityville.	-	1953-73	10-31-72	2.0
					2-27-73	3.8
					4-25-73	5.5
					9- 4-73	1.6
01309400	Carman Creek at Amityville, N. Y.	Lat 40°40'09", long 73°26'02", Nassau County, at bridge on State Highway 27A, 0.75 mile west of Amityville.	-	1949, 1953-69, 1971-73	10-18-72	6.0
					2-26-73	6.8
					4-30-73	7.0
					9- 7-73	.95
01309454	Massapeque Creek at South Farmingdale, N.Y.	Lat 40°42'55", long 73°27'00", Suffolk County, 75 ft upstream from Tomes Avenue, 0.2 mile south of South Farmingdale, and 1.9 mile upstream from gaging station at Massapeque.	-	1962-65 1973	10-30-72	.09
					2-21-73	.21

[†] Operated as continuous-record gaging station.

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

						Measurements
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Discharge (cfs)
Streams on Long Island--Continued						
01309476	Massapequa Creek at Southern State Parkway at South Farmingdale, N.Y.	Lat 40°42'21", long 73°27'05", Suffolk County, 30 ft upstream from culvert at Southern State Parkway, 0.8 mile south of South Farmingdale, N.Y. 1.2 miles upstream from gaging station at Massapequa.	-	1962-65 1973	10-30-72	2.2
01309490	Massapeque Creek at North Massapeque, N. Y.	Lat 40°41'55", long 73°27'08", Suffolk County, opposite Franklin Street, at North Massapeque; at and 0.55 mile upstream from gage at Massapeque.	-	1962 1964	10-30-72 1973	3.5
01309700	Seaford Creek at Seaford, N. Y.	Lat 40°40'00", long 73°28'57", Nassau County, at bridge on State Highway 27A, in Seaford.	-	1953-73	10-18-72 2-23-73 4-30-73 9- 7-73	.15 2.1 3.2 .17
01309800	Seamans Creek at Seaford, N. Y.	Lat 40°39'56", long 73°29'37", Nassau County, at culvert on State Highway 27A, 0.2 mile west of Seaford.	-	1953-67, 1971-73	10-18-72 2-26-73 4-30-73	2.9 4.2 5.1
01309970	Bellmore Creek Tributary near North Wantagh, N.Y.	Lat 40°41'52", long 73°30'33", Nassau County, at culvert on Duck Pond Drive N, 0.3 mile north of North Wantagh, and 1.2 miles upstream from gaging station 01309990.	-	1973	1- 9-73 1-23-73	1.6 .90
01309980	Bellmore Creek Tributary at North Wantagh, N.Y.	Lat 40°41'20", long 73°30'37", Nassau County, at culvert on Beltagh Avenue, at North Wantagh and 0.6 mile upstream from gaging station 01309990.	-	1973	1- 9-73 1-23-73	2.9 2.9
01310100	Newbridge Creek at Merrick, N. Y.	Lat 40°39'42", long 73°32'02", Nassau County, downstream from bridge on Merrick Road in Merrick.	-	1963-73	10-18-72 2-23-73 4-30-73 9- 6-73	.88 1.3 3.0 1.2
01310200	Cedar Swamp Creek at Merrick, N. Y.	Lat 40°39'39", long 73°32'24", Nassau County, at bridge on State Highway 27A, in Merrick, 2.5 miles east of Freeport.	-	1953-62, 1965-73	10-31-72 2-23-73 4-30-73 9- 6-73	5.0 9.5 13 3.2
01310470	East Meadow Brook near Westbury, N.Y.	Lat 40°44'01", long 73°35'06", Nassau County, 50 ft downstream from culvert on Meadowbrook State Parkway, 1.0 mile south of Westbury, and 4.8 miles upstream from gage at Freeport.	-	1973	11-29-72 1- 8-73 1-26-73	.62 .16 .23
01310475	East Meadow Brook at Uniondale, N.Y.	Lat 40°43'17", long 73°35'00", Nassau County, at bridge on Hempstead Turnpike, 0.9 mile northeast of Uniondale, and 3.9 miles upstream from gage at Freeport.	-	1973	11-29-72 1- 8-73 1-26-73	.58 1.0 .31
01310488	East Meadow Brook at East Meadow, N.Y.	Lat 40°41'56", long 73°34'37", Nassau County, 300 ft west of Luddington Road, 1.4 miles southwest of East Meadow, and 2.3 miles upstream from gage at Freeport.	-	1973	1- 8-73 1-26-73	3.4 3.0
01310600	Millburn Creek at Baldwin, N. Y.	Lat 40°39'04", long 73°36'13", Nassau County, 50 ft downstream from bridge on State Highway 27A, 0.5 mile east of Baldwin.	-	1953-73	10-31-72 2-26-73 4-30-73 9- 6-73	7.5 11 12 5.3
01310700	Parsonage Creek at Baldwin, N. Y.	Lat 40°38'48", long 73°36'59", Nassau County, 20 ft downstream from bridge on Foxhurst Road, at Baldwin.	-	1953-69, 1971-73	10-31-72 2-26-73	2.0 2.0
01310800	South Pond Outlet at Rockville Centre, N. Y.	Lat 40°40'00", long 73°39'08", Nassau County, at bridge on Lakeview Ave., 0.75 mile north of Rockville Centre.	-	1953-73	10- 3-72 1-22-73 4-19-73 9- 6-73	.09 1.4 4.0 .18
01311200	Motts Creek at Valley Stream, N. Y.	Lat 40°39'01", long 73°42'45", Nassau County, 50 ft downstream from bridge on Rosedale Road, 1 mile southwest of Valley Stream.	-	1954-73	11- 7-72 2-26-73 9- 6-73	0 .96 0
01311700	Valley Stream below West Branch, at Valley Stream, N.Y.	Lat 40°39'47", long 73°42'21", Nassau County, 200 ft downstream from West Branch, 500 ft downstream from bridge on West Valley Stream Blvd., at village park in Valley Stream, and 500 ft downstream from gaging station.	-	1953-73	11- 7-72 1-22-73	0 0

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Measurements
						Discharge (cfs)
Hudson River Basin						
01333520	Dill Creek near Petersburg, N.Y.	Lat 42°45'47", long 73°21'23", Rensselaer County, at bridge on county road, 0.3 mile east of Stillham hamlet, 1.0 mile northwest of Petersburg, and 1.1 miles upstream from mouth.	7.16	1962-66, 1973	9-12-73	.16
01338800	Sauquoit Creek at New Hartford, N.Y.	Lat 43°04'28", long 75°17'12", Oneida County, at bridge on county highway, 1.1 miles south of Oriskany.	43.4	1955-56 1958-61 1966 1973	9-11-73	21
01350900	Beaverdam Creek near Knox, N.Y.	Lat 42°38'57", long 74°07'56", Albany County, at bridge on farm road 1.2 miles south of Knox, and 1.7 miles upstream from mouth.	6.91	1962-65, 1970,1973	10- 6-72 8- 9-73	0 .22
01350950	Switz Kill near Berne, N.Y.	Lat 42°36'41", long 74°09'24", Albany County, at bridge on county highway, 1.2 miles upstream from mouth, and 1.3 miles southwest of Berne.	28.3	1962-65, 1967 1970,1973	8- 9-73	3.4
01354080	South Chuctanunda Creek at Amsterdam, N.Y.	Lat 42°56'04", long 74°12'44", Montgomery County, at bridge on Florida Street, at Amsterdam, 0.2 mile downstream from State Highway 5S, and 0.7 mile upstream from mouth.	31.7	1961-64, 1967,1973	9-12-73	6.0
01354470	Poentic Kill at Schenectady, N.Y.	Lat 42°48'31", long 73°59'32", Schenectady County, at bridge on Campbell Road at Schonowe, and 0.7 mile northwest of Schenectady City line.	6.67	1962-65, 1967 1973	9-12-73	4.2
01355200	Alplaus Kill at Burnt Hills, N.Y.	Lat 42°54'18", long 73°55'08", Schenectady County, at bridge on Van Vorst Road, just downstream from LaRue Creek, and 1 mile west of Burnt Hills	37.9	1960-61, 1967,1973	9-12-73	1.6
01355450	Indian Kill near Alplaus, N.Y.	Lat 42°52'12", long 73°54'18", Schenectady County, at bridge on Hetcheltown Road at Glenridge, 0.2 mile upstream from mouth, and 1.1 miles north of Alplaus.	8.69	1962-64, 1967,1973	9-12-73	1.6
01359595	Dowers Kill near Selkirk, N.Y.	Lat 42°34'03", long 73°48'53", Albany county, at bridge on Jericho Road, 0.6 mile east of Elm Avenue, 0.7 mile upstream from mouth, and 2.6 miles north of Selkirk.	4.75	1962-66, 1970 1973	10- 4-72 8- 1-73	0 0
01359990	East Brook at Stephentown, N.Y.	Lat 42°33'08", long 73°22'43", Rensselaer County, at Rutland Railroad bridge, 200 feet upstream from mouth at Stephentown.	7.24	1962-64, 1973	9-21-73	1.7
01360520	Green Brook at Riders Mills, N.Y.	Lat 42°28'50", long 73°34'01", Columbia County, at bridge on State Highway 66, 200 feet upstream from mouth, at Riders Mills, and 1.1 miles northwest of Malden Bridge.	4.65	1962-65, 1973	9-17-73	.61
01360530	Trout Brook near Old Chatham, N.Y.	Lat 42°26'38", long 73°35'05", Columbia County, at bridge on Shaker Museum Road, 0.35 mile upstream from mouth, and 1.2 miles west of Old Chatham.	4.87	1962-65, 1973	9-17-73	.73
01360550	Stony Kill near East Chatham, N.Y.	Lat 42°23'22", long 73°33'05", Columbia County, at bridge on Percy Hill Road, 0.5 mile upstream from unnamed tributary draining Southerland Pond, and 2 miles southwest of East Chatham.	32.7	1962-65, 1972-73	9-17-73	12
01360570	Indian Creek near Chatham, N. Y.	Lat 42°21'11", long 73°34'34", Columbia County, at bridge on relocated State Highway 203, 0.4 mile upstream from Punsit Creek, and 1.3 miles east of intersection of State Highway 203 and 66 in Chatham.	12.4	1962-66 1972-73	9-17-73	2.2

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

						Measurements
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Discharge (cfs)
Hudson River basin--Continued						
01360580	Punsit Creek near Chatham, N. Y.	Lat 42°20'50", long 73°34'31", Columbia County, at bridge on Moorhouse Corner Road, 0.15 mile upstream from Indian Creek, 0.25 mile southwest of Moorhouse Corner, and 1.5 miles southeast of intersection of State Highways 203 and 66 in Chatham.	16.0	1962-66 1972-73	9-17-73	2.0
01360600	Kline Kill near Valatie, N.Y.	Lat 42°22'33", long 73°37'53", Columbia County, at bridge on State Highway 203, 2.2 miles upstream from mouth, and 3.4 miles southeast of Valatie.	35.8	1961-65, 1972-73	9-17-73	5.3
01360700	Valatie Kill near North Chatham, N.Y.	Lat 42°27'42", long 73°38'37", Columbia County, at bridge on State Highway 203, 0.3 mile upstream from Kinderhook Lake, and 1.1 miles southwest of North Chatham.	33.1	1962-65, 1973	9-17-73	4.0
01361250	Taghkanic Creek at Craryville, N.Y.	Lat 42°10'10", long 73°34'53", Columbia County, at bridge on County Highway 7, 0.4 mile south of Craryville.	12.6	1962 1964-66 1970, 1973	9-13-73	5.4
01361310	Loomis Creek near Claverack, N.Y.	Lat 42°11'43", long 73°44'21", Columbia County, at bridge on county highway, 250 feet upstream from bridge on U.S. Highway 9H, and 2.1 miles south of Claverack.	6.09	1962 1964-66 1973	9-13-73	.18
01361550	Tenmile Creek at Medusa, N.Y.	Lat 42°26'10", long 74°07'58", Albany County, at bridge on county road at Medusa, 0.4 mile upstream from Eightmile Creek and 3.0 miles upstream from mouth.	19.1	1962-64, 1970,1973	10- 3-72 8- 8-73	3.2 8.8
01361560	Eightmile Creek at Medusa, N.Y.	Lat 42°26'07", long 74°07'24", Albany County, at bridge on county road, 0.5 mile east of Medusa, and 0.6 mile upstream from mouth.	12.8	1962-64, 1970,1973	10- 3-72 8- 8-73	.03 2.1
01361760	Wolf Fly Creek at South Westerlo, N.Y.	Lat 42°26'46", long 74°01'52", Albany County, at bridge on county road at South Westerlo, and 700 feet upstream from mouth.	6.45	1962-64, 1970,1973	10- 3-72 8- 8-73	.06 1.1
01361900	Shingle Kill at Cairo, N.Y.	Lat 42°18'22", long 74°00'15", Greene County, at bridge on town road at Cairo, about 100 feet east of State Highway 32, about 400 feet south of State Highway 23, and 0.8 mile upstream from mouth.	13.9	1965,1970, 1973	9-13-73	1.8
01362155	Preechey Hollow Brook near Copake, N.Y.	Lat 42°04'04", long 73°31'53", Columbia County, at bridge on county highway, 200 feet east of State Highway 22, 200 feet upstream from mouth, and 2.7 miles southeast of Copake.	2.53	1962 1964-66, 1973	9-13-73	.54
01362156	Noster Kill near Copake, N.Y.	Lat 42°04'04", long 73°31'55", Columbia County, at bridge on county highway 100 feet east of State Highway 22, and 2.7 miles southeast of Copake.	7.22	1962 1964-66 1973	9-13-73	2.6
01362168	Fall Kill near Elizaville, N.Y.	Lat 42°00'56", long 73°43'59", Columbia County, at bridge on County Highway 2, 0.3 mile upstream from mouth, and 4 miles southeast of Elizaville.	5.02	1962 1964-66 1973	9-13-73	.02
01362180	Doove Kill at Manorton, N.Y.	Lat 42°05'03", long 73°47'52", Columbia County, at bridge on County Highway 19, 0.5 mile south of Manorton, and 2.4 miles north of Elizaville.	10.8	1962 1964-66 1973	9-13-73	.81
01372945	Clove Creek near Cold Spring, N.Y.	Lat 41°27'30", long 73°55'13", Putnam County, at bridge on East Mountain Road West, 50 feet east of U.S. Highway 9, and 3.2 miles northeast of Cold Spring.	10.2	1962 1964 1966 1970,1973	8-31-73 9-28-73	.40 .36
01374098	Annsville Creek at Graymoor, N.Y.	Lat 41°20'23", long 73°55'27", Putnam County, at bridge on U.S. Highway 9, 1 mile south of Graymoor, and 3.3 miles north of Peekskill.	1.97	1962 1964-66 1970,73	8-31-73 9-28-73	.16 .17

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

						Measurements
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Discharge (cfs)
Hudson River basin--Continued						
01374494	Haviland Hollow Brook near Putnam Lake, N.Y.	Lat 41°29'03", long 73°34'16", Putnam County, at bridge on Haviland Hollow-Putnam Lake Road, 0.6 mile upstream from mouth, and 2 miles northwest of Putnam Lake.	12.2	1962 1964-66 1970,1973	8-31-73 9-28-73	.32 2.7
01374540	Holly Stream near Brewster, N.Y.	Lat 41°22'17", long 73°38'16", Putnam County, at bridge on U.S. Highway 202, 0.1 mile upstream from mouth, 1.9 miles southwest of Brewster, and 2.1 miles northeast of Croton Falls.	4.82	1962 1964-66 1970,1973	8-31-73 9-28-73	.81 1.3
Susquehanna River basin						
01508800	Factory Brook at Homer, N. Y.	Lat 42°38'39", long 76°11'18", Cortland County, at bridge on State Highway 41 at Homer, and about 1 mile upstream from mouth.	15.8	1962-66 1970 1972-73	8-23-73 8-31-73 9-17-73	3.5 3.0 4.0
Streams Tributary to Lake Ontario						
04227650	Jaycox Creek near Geneseo, N. Y.	Lat 42°50'06", long 77°48'44", Livingston County, at bridge on Nations Road, 1.5 miles upstream from mouth, and 1.7 miles north of village line of Geneseo.	14.1	1964-65 1970-73	6-28-73 7-10-73 7-25-73 8-10-73 8-23-73 9-19-73	.26 .09 .05 .06 .09 .08
04230800	Spring Creek at Pumpkin Hill, N. Y.	Lat 43°05'37", long 78°04'00", Genesee County, at bridge on State Highway 237, 0.2 mile south of Pumpkin Hill, and 1.2 miles upstream from mouth.	21.6	1964-65 1970-73	10- 6-72 10-20-72 7-10-73 7-25-73 8-10-73 9-20-73	5.1 5.1 8.1 6.0 4.2 3.8
04234400	West River near Middlesex, N. Y.	Lat 42°41'06", long 77°17'19", Yates County, at bridge on town road, 0.15 mile west of State Highway 245, 1.6 miles southwest of Middlesex, and 5.5 miles upstream from Naples Creek.	29.3	1955 1964-65 1971-73	4-24-73	16
04249050	Catfish Creek at New Haven, N.Y.	Lat 43°29'00", long 76°19'34", Oswego County, at bridge on State Highway 104B, at New Haven, and 1.4 miles upstream from mouth.	31.7	1961-65, 1968, 1971-73	4-18-73 9-11-73	50 1.6
04249060	Little Salmon River at Texas, N.Y.	Lat 43°30'41", long 76°15'11", Oswego County, at bridge on County Highway 16 at Texas, and 1.9 miles upstream from mouth.	82.9	1961-64, 1968, 1971-73	9-11-73	14
04249200	North Branch Salmon River at Redfield, N. Y.	Lat 43°32'32", long 75°48'51", Oswego County, at bridge on Harvester Mill Road, 0.7 mile northeast of Redfield.	82.5			
04250600	South Sandy Creek near Wardwell, N.Y.	Lat 43°45'22", long 76°05'18", Jefferson County, at highway bridge, 1.1 miles upstream from Taylor Brook, and 1.2 miles southwest of Wardwell.	80.6	1957-61, 1973	9- 5-73	1.8
04250990	Woodhull Creek near Forestport, N.Y.	Lat 43°27'48", long 75°10'23", Oneida County, on bridge on dirt road 2.3 miles northeast of Forestport.	-	1973	9-10-73	66
04250998	Alder Creek at Alder Creek, N. Y.	Lat 43°25'28", long 75°13'45", Oneida County, at culvert on State Highway 12, 0.1 mile northwest of Alder Creek, and 1.3 miles upstream from mouth.	4.73	1967-68 1971-73	10-26-72 9-10-73	7.5 3.3
04252395	Cummings Creek near Hawkinsville, N.Y.	Lat 43°30'22", long 75°13'20", Oneida County, at bridge on County Highway 8 (Hogsback Road), 2.9 miles northeast of Hawkinsville, and 3 miles upstream from mouth.	3.93	1966-68, 1973	9-10-73	6.8
04252400	Cummings Creek at Hawkinsville, N.Y.	Lat 43°29'56", long 75°16'24", Oneida County, at bridge on town highway, 0.1 mile upstream from mouth, and 0.4 mile northeast of Hawkinsville.	23.2	1962-64 1973	9-10-73	28

Discharge measurements made at low-flow partial-record stations during water year 1973--Continued

						Measurements
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Discharge (cfs)
Streams Tributary to Lake Ontario--Continued						
04252505	Mill Creek at Boonville, N.Y.	Lat 43°28'41", long 75°20'52", Oneida County, at bridge on State Highway 294, 0.7 mile southwest of Boonville, and 3.4 miles upstream from mouth.	4.59	1967,1973	9-10-73	1.2
04253005	Moose Creek near Talcottville, N.Y.	Lat 43°30'22", long 75°21'09", Lewis County, at bridge on State Highway 12D, 1.6 miles upstream from mouth, and 2 miles southeast of Talcottville.	20.4	1966-67, 1973	9-10-73	6.4
04254900	Copper Creek at Fowlersville, N.Y.	Lat 43°37'27", long 75°15'30", Lewis County, at bridge on town highway, 0.2 mile upstream from mouth, and 0.8 mile east of Fowlersville.	28.5	1967,1973	9- 4-73	8.5
04254930	Mill Creek at Turin, N.Y.	Lat 43°37'42", long 75°24'43", Lewis County, at bridge on State Highway 12D at Turin, and 2.7 miles upstream from mouth.	6.42	1967-68, 1971-73	9- 4-73	1.0
04254960	Fish Creek at Greig, N.Y.	Lat 43°40'00", long 75°21'27", Lewis County, at bridge on River Road, 0.2 mile upstream from mouth, and 0.6 mile south of Greig.	22.7	1966-67 1973	9- 4-73	14
04255010	Whetstone Creek at Glendale, N.Y.	Lat 43°43'28", long 75°24'37", Lewis County, at bridge on State Highway 12 (0.25 mile upstream from old State Highway 12), 0.6 mile north-east of Glendale, and 1.5 miles upstream from mouth.	12.3	1966-67, 1973	9- 4-73	1.7
04255020	Roaring Brook at Martinsburg, N. Y.	Lat 43°44'00", long 75°28'13", Lewis County, at bridge on State Highway 12D and 26 at Martinsburg.	20.9			
St. Lawrence River Basin						
04260700	Chaumont River near Depauville, N. Y.	Lat 44°10'30", long 76°00'57", Jefferson County, at highway bridge 3.6 miles northeast of Depauville.	18.3	1956-57 1959 1962 1972-73	10-30-72	43
04264350	South Branch Grass River at Newbridge, N.Y.	Lat 44°17'12", long 74°58'35", St. Lawrence County, at bridge on Tooley Pond Road, at former hamlet of Newbridge, 0.8 mile downstream from Moosehead Pond Outlet, 6.5 miles southeast of Degrasse, and 11 miles upstream from confluence with Middle Branch.	120	1921, 1963-67, 1973	9-13-73	75
04271800	Little Chazy River near Chazy, N.Y.	Lat 44°50'46", long 73°27'24", Clinton County, at bridge on Slosson road 1.5 miles west of U.S. Highway 9, and 3.2 miles southwest of Chazy.	35.4	1956-63, 1966,1973	9-12-73	2.8
04273800	Little Ausable River near Valcour, N.Y.	Lat 44°35'39", long 73°29'48", Clinton County, at bridge on town road, at Laphams Mills, and 2.8 miles southwest of Valcour.	67.8	1956-61, 1966,1973	9-12-73	9.4
04276900	English Brook at Lake George, N.Y.	Lat 43°26'23", long 73°43'25", Saratoga County, at bridge on Big Hollow Road, 300 feet southwest of U.S. Highway 9, about 500 feet upstream from Big Hollow Branch, at Lake George, and 1.0 mile upstream from mouth.	5.03	1961-66, 1973	9-12-73	.49
04279010	Trout Brook at Ticonderoga, N.Y.	Lat 43°50'46", long 73°26'28", Essex County, at bridge on State Highway 9N, 0.2 mile west of village line of Ticonderoga, and 0.9 mile upstream from mouth.	24.6	1962-66, 1973	11-14-72 9- 5-73	40 3.6
04280600	Big Creek at Smiths Basin, N.Y.	Lat 43°21'23", long 73°29'16", Washington County, at highway bridge 0.35 mile upstream from mouth, 0.5 mile east of Smiths Basin, and 4.8 miles west of Hartford.	33.5	1961-64 1965-66 1973	9-12-73	.66

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 discharge 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. If the maximum gage height did not occur at the same time as the maximum discharge, it is given separately. 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 1973

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis-charge (cfs)
Housatonic River basin							
* 01199400	Webatuck Creek near South Amenia, N.Y.	Lat 41°46'51", long 73°33'21", Dutchess County, at bridge on Pump House Road, 200 ft upstream from confluenced with Wassaic Creek, and 1.6 miles southwest of South Amenia.	81.0	1962-69 1971-73	6-29-73	7.14	2,380
01199420	Tenmile River near Wassaic, N. Y.	Lat 41°46'50", long 73°33'34", Dutchess County, at county bridge A-30, 0.2 mile downstream from confluence of Wassaic and Webatuck Creeks and 1.6 miles south of Wassaic.	120	1959-60 [†] , 1961-65, 1967-73	6-29-73	7.93	3,720
01199490	Swamp River near Dover Plains, N. Y.	Lat 41°41'56", long 73°35'03", Dutchess County, on left bank at old highway bridge, 0.2 mile upstream from bridge on State Highway 22, 0.4 mile downstream from Mill River, 1.7 miles upstream from Tenmile River, and 2.8 miles south of Dover Plains.	46.6	1961-68 [†] 1969-73	7- 4-73	4.57	+
Hudson River basin							
* 01319800	West Branch Sacandaga River at Arietta, N. Y.	Lat 43°15'03", long 74°31'06", Hamilton County, at bridge on State Highway 10, 0.4 mile north of Arietta. Datum of gage is 1,648.95 ft above mean sea level.	28.9	1963-73	3-18-73	12.09	1,500
01319950	Sand Lake Outlet near Piseco, N. Y.	Lat 43°22'15", long 74°32'47", Hamilton County, at bridge on State Highway 10, 0.9 mile upstream from mouth, and 5.5 miles south of Piseco. Datum of gage is 1,687.35 ft above mean sea level.	7.16	1962-66, 1968-73	3-18-73	2.71	265
01323000	Kennyetto Creek near Broadalbin, N. Y.	Lat 43°03'57", long 74°09'48", Fulton County, at bridge on county highway, 1.8 miles east of Broadalbin.	28.3	1940-46 [†] , 1960-65, 1969-73	3-18-73	4.10	1,450
01342730	Steele Creek at Ilion, N. Y.	Lat 43°00'04", long 75°26'10", Herkimer County, at bridge on Whitney Street in Ilion, and 1.6 miles upstream from mouth.	26.1	1966-68 [†] 1969, 1971-73	1- 1-73	5.02	+
01349700	East Kill near Jewett Center, N.Y.	Lat 42°14'57", long 74°18'11", Greene County, at bridge on Mill Hollow Road, 1.2 miles northeast of Jewett Center, and 1.3 miles upstream from mouth.	35.2	1951, 1956, 1967-68, 1972-73	6-29-73	7.96	5,330
01349850	Batavia Kill at Hensonville, N. Y.	Lat 42°17'17", long 74°12'55", Greene County, at bridge on County Highway 40, at Hensonville, 0.7 mile upstream from Silver Lake Outlet, and 1.8 miles upstream from Nauvo Stream.	13.5	1955, 1960, 1965-66, 1968, 1972	11- 9-72	4.09	985
* 01350900	Beaverdam Creek near Knox, N. Y.	Lat 42°38'57", long 74°07'56", Albany County, at bridge on farm road, 1.2 miles south of Knox, and 1.7 miles upstream from mouth.	6.91	1963-64, 1966, 1969-73	4- 4-73	6.27	+
01351000	Fox Creek at West Berne, N. Y.	Lat 42°37'42", long 74°11'08", Albany County, on right bank 200 ft upstream from highway bridge at West Berne, 1.8 miles downstream from Switz Kill, and 3.5 miles southeast of Gallupville.	73.0	1925-32 [†] 1963-68 [†] 1969-73	11- 9-72	6.83	4,040

* Also a low-flow partial record station.

[†] Operated as a continuous-record gaging station.

+ Discharge not determined.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

291

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

						Annual maximum	
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Gage height (feet)	Dis-charge (cfs)
Hudson River basin--Continued							
01354300	Plotter Kill at Rynex Corners,	Lat 42°49'16", long 74°04'20", Schenectady County, at bridge on State Highway 159, at Rynex Corners.	3.70	1958, 1960-68, 1970-73	4- 4-73	4.60	252
01361200	Claverack Creek near Claverack, N. Y.	Lat 42°12'54", long 73°43'46", Columbia County, on right bank, 70 ft upstream from bridge on State Highway 9H, 0.5 mile south of Claverack.	60.6	1960-68 1969-73	6-30-73	12.38	4,960
* 01361900	Shingle Kill at Cairo, N. Y.	Lat 42°18'22", long 74°00'15", Greene County, at bridge on town road at Cairo, about 100 ft east of State Highway 32, and 0.8 mile upstream from mouth.	13.9	1953, 1960, 1967-73	6-30-73	4.94	358
01362100	Roeliff Jansen Kill near Hillsdale, N. Y.	Lat 42°09'13", long 73°31'19", Columbia County, at bridge on county highway off State Highway 22, 1.8 miles south of Hillsdale.	27.5	1958-60 [†] 1963-64 1968-73	6-30-73	9.78	3,280
01364400	Plattekill Creek at Mount Marion, N. Y.	Lat 42°02'24", long 73°59'57", Ulster County, on downstream left wingwall of bridge on town road just off Glasco Turnpike, 0.6 mile west of Mt. Marion, and 2.6 miles upstream from mouth.	36.6	1962-64, 1968-73	6-30-73	5.02	+
01366950	Coxing Kill near High Falls, N. Y.	Lat 41°49'54", long 74°06'38", Ulster County, on bridge on Coxing Kill Road off State Highway 213, 1.0 mile east of High Falls.	12.6	1962-64 1966, 1968-73	6-30-73	4.80	+
01368713	Wawayanda Creek at Durland, N. Y.	Lat 41°16'44", long 74°18'20", Orange County, on bridge on State School Road, at Durland, 0.1 mile downstream from Wickham Lake, and 2.5 miles northeast of Warwick.	5.15	1971-73	6-30-73	15.83	51
01368724	Long House Creek at Bellvale, N. Y.	Lat 41°15'10", long 74°18'30", Orange County, at bridge on Iron Forge Road, at Bellvale, and 1.9 miles upstream from mouth.	11.8	1971-73	6-30-73	16.99	345
01372040	Crum Elbow Creek at Hyde Park, N. Y.	Lat 41°47'24", long 73°55'53", Dutchess County, at bridge on Hyde Park-East Park Road, at Hyde Park, and 0.3 mile east of U.S. Highway 9.	18.6	1959-62 [†] 1963-73	6-30-73	4.06	373
01374460	South Branch Miniscoe Creek at Letchworth Village, N. Y.	Lat 41°12'15", long 74°01'54", Rockland County, 200 ft downstream from Letchworth Village road and pond, and 1,000 ft downstream from Palisades Interstate Parkway, at Letchworth Village.	5.83	1960-73	6-30-73	3.86	237
01376570	New City Brook near New City, N. Y.	Lat 41°10'09", long 73°58'46", Rockland County, at bridge on road north of Christie Airport, 0.5 mile east of Zukov Road, 0.8 mile upstream from mouth, and 1.1 miles north of New City.	2.39	1972-73	2- 2-73	7.50	1,450
Hackensack River basin							
01376600	Hackensack River at Brookside Park, N. Y.	Lat 41°10'18", long 73°58'24", Rockland County, at Brookside Park, 900 ft upstream from State Highway 304, 1,300 ft upstream from DeForest Lake, 0.8 mile downstream from unnamed tributary, and 1.2 miles from Lake Lucille.	13.2	1959-63 [†] 1967-73	2- 2-73	7.42	1,350
01376690	East Branch Hackensack River near Congers, N. Y.	Lat 41°07'32", long 73°57'24", Rockland County, about 0.1 mile downstream from small pond, half a mile upstream from DeForest Lake, and 2 miles south of Congers.	6.86	1960, 1968-69 1971-73	8-19-60 5-29-68 8- 5-69 9-14-71 6-22-72 2- 2-73	9.12 9.29 9.21 9.79 9.95 10.43	148 186 167 346 415 691
01377180	Pascack Brook at Spring Valley, N.Y.	Lat 41°06'45", long 74°02'00", Rockland County, on road to Orange and Rockland Utilities substation, and 0.7 mile east of Spring Valley.	2.13	1972-73	2- 2-73	5.63	684

* Operated as a continuous-record gaging station.

+ Discharge not determined.

* Also a low-flow partial record station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

						Annual maximum	
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Gage height (feet)	Dis-charge (cfs)
Hackensack River basin--Continued							
01377200	Pascack Brook Tributary at Spring Valley, N. Y.	Lat 41°06'15", long 74°01'57", Rockland County, 100 ft upstream from mouth, 150 ft downstream from bridge on Pascack Road at Spring Valley.	4.58	1960-62# 1963-73	8-19-60	4.46	242
					4-16-61	3.46	116
					3-12-62	4.17	202
					11-10-62	3.47	117
					1-10-64	3.92	170
					8-10-65	4.35	227
					3- 1-66	3.99	179
					3- 7-67	3.16	84
					5-29-68	5.16	344
					3-25-69	4.08	190
					4- 2-70	3.86	162
					8-28-71	5.71	426
					6-22-72	4.68	273
					2- 2-73	5.71	426
Passaic River basin							
01387350	Nakoma Brook at Sloatsburg, N. Y. (formerly published as "Ramapo River Tributary")	Lat 41°09'14", long 74°11'38", Rockland County, 50 ft downstream from tributary, 100 ft upstream from State Highway 17, half a mile upstream from mouth, 1.1 miles downstream from Cranberry Pond Outlet, at Sloatsburg.	5.35	1960-73	2- 2-73	6.96	174
01387410	Torne Brook at Ramapo, N. Y.	Lat 41°08'34", long 74°09'44", Rockland County, a quarter of a mile upstream from mouth and 0.5 a mile east of Ramapo.	2.62	1960, 1962-73	2- 2-73	8.15	+
Delaware River basin							
01418500	Beaver Kill at Craigie Clair, N.Y.	Lat 41°57'45", long 74°52'00", Sullivan County, on left bank 100 ft downstream from highway bridge at Craigie Clair, 2.5 miles upstream from Spring Brook, and 2.5 miles northeast of Rockland.	82	1937-68# 1971-73	6-29-73	8.02	4,370
01419500	Willowemoc Creek near Livingston Manor, N. Y.	Lat 41°54'12", long 74°48'47", Sullivan County, on right bank, 0.4 mile upstream from State Highway 17 interchange 96 at Livingston Manor, and 1.1 miles upstream from Little Beaver Kill.	63	1938-70# 1971-73	6-29-73	5.75	4,380
01422000	West Branch Delaware River at Delhi, N. Y.	Lat 42°16'15", long 74°55'06", Delaware County, on left bank 300 ft downstream from Steele Brook, 0.3 mile downstream from bridge on State Highway 28 in Delhi, and 1 mile upstream from Little Delaware River.	142	1937-70# 1972-73	6-29-73	6.81	3,970
01422500	Little Delaware River near Delhi, N. Y.	Lat 42°15'10", long 74°54'10", Delaware County, on left bank 15 ft downstream from highway bridge, a quarter of a mile downstream from Toll Gate Brook, 1-1/2 miles upstream from mouth, and 2 miles south of Delhi.	49.8	1938-68# 1971-73	6-29-73	6.45	2,500
Susquehanna River basin							
01496370	Mink Creek at Richfield Springs, N. Y.	Lat 42°50'55", long 75°00'11", Otsego County, at bridge on State Highway 28, 0.4 mile south of Richfield Springs, and 1.0 mile upstream from mouth.	10.4	1969-73	3-18-73	5.47	a 700
01497800	Schenevus Creek at Schenevus, N. Y.	Lat 42°32'45", long 74°50'00", Otsego County, at bridge on Tannery Street, Schenevus.	57.8	1963-73	6-29-73	5.86	590
01499000	Otego Creek near Oneonta, N. Y.	Lat 42°27'00", long 75°06'50", Otsego County, on right bank 1-1/2 miles south of West Oneonta, 1-3/4 miles upstream from mouth, and 2-3/4 miles west of Oneonta.	108	1941-68#	7- 3-73	4.86	670
01503980	Chenango River at Eaton, N. Y.	Lat 42°51'02", long 75°36'21", Madison County, at bridge on London Road, at Eaton, 0.1 mile upstream from Eaton Brook, and 0.1 mile downstream from State Highway 26.	24.3	1964-65 1967-73	12- 6-72	6.76	550

Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

						Annual maximum	
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Gage height (feet)	Dis-charge (cfs)
Susquehanna River basin--Continued							
01507000	Chenango River at Greene, N. Y.	Lat 42°19'28", long 75°46'18", Chenango County, on left bank 1,700 ft downstream from bridge on State Highway 206 at Greene, and 0.6 mile downstream from Birdsall Creek.	593	1937-70# 1971-72	1- 1-73	11.32	7,190
01508500	Albright Creek at East Homer, N. Y.	Lat 42°40'09", long 76°06'13", Cortland County, on left bank 0.2 mile upstream from highway bridge in East Homer, and 0.5 mile upstream from mouth.	6.81	1939-68# 1970-73	4- 3-73	3.90	760
01511500	Tioughnioga River at Itaska, N. Y.	Lat 42°17'55", long 75°54'30", Broome County, on right bank at Itaska, 3.8 miles downstream from Otselic River and village of Whitney Point and 6 miles upstream from mouth.	730	1929-67# 1968-73	11-25-72	8.44	11,600
01513790	Nanticoke Creek at Union Center, N. Y.	Lat 42°08'56", long 76°04'00", Broome County, at bridge on County Highway 43 at Union Center, 0.3 mile upstream from Bradley Creek. Datum of gage 858.41 ft above mean sea level. Prior to Apr. 4, 1964 the datum was 856.91 ft above mean sea level.	89.7	1956, 1963-64, 1966-68, 1970-73	11- 9-72	10.28	3,270
Allegheny River basin							
03010800	Olean Creek near Olean, N. Y.	Lat 42°07'12", long 78°25'12", Cattaraugus County, on right bank at upstream side of highway bridge, 1,000 ft west of State Highway 16, 1.4 miles northeast of Olean, and 4.6 miles upstream from mouth.	198	1959-68# 1970-73	12- 6-72	13.50	8,900
Streams tributary to Lake Erie							
* 04213490	South Branch Cattaraugus Creek near Otto, N. Y.	Lat 42°21'54", long 78°48'06", Cattaraugus County, at highway bridge, 0.2 mile upstream from Mansfield Creek, and 1.7 miles northeast of Otto.	@25.	1963-73	12- 6-72	4.65	635
* 04214040	Delaware Creek near Angola, N. Y.	Lat 42°37'46", long 79°03'15", Erie County, at bridge on State Highway 5, 1.5 miles southwest of Angola, and 1.6 miles upstream from mouth.	8.15	1963-73	12- 6-72	3.15	225
04214200	Eighteenmile Creek at North Boston, N. Y.	Lat 42°41'04", long 78°46'41", Erie County, on left bank 60 ft upstream from bridge on Zimmerman Road, at North Boston, 1.4 miles downstream from mouth of Irish Gulf, and 2-3/4 miles southeast of Hamburg.	37.2	1963-68# 1971-73	12- 6-72	9.66	3,650
* 04214250	Smoke Creek at Lackawanna, N. Y.	Lat 42°49'21", long 78°48'10", Erie County, at bridge on Abbott Road, at Lackawanna.	14.6	1955, 1963-68 1970-73	12- 6-72	2.35	323
04214260	South Branch Smoke Creek at N. Y.	Lat 42°48'17", long 78°48'38", Erie County, at bridge on Willet Road at Lackawanna, miles upstream from mouth.	13.6 1.6	1953, 1955, 1967-73	12- 6-72	5.55	+
04214400	Buffalo Creek near Wales Hollow, N. Y.	Lat 42°44'54", long 78°30'31", Erie County, on right bank 80 ft downstream from bridge on Marlov Road, 1.1 miles northwest of Wales Hollow, and 1.8 miles upstream from Hunter Creek.	80.1	1963-68# 1970-73	12- 6-72	6.71	2,360
* 04214410	Hunter Creek at Colegrave, N. Y.	Lat 42°44'11", long 78°32'55", Erie County, at bridge on Center Line Road, 0.3 mile east of Colegrave, and 3.5 miles upstream from mouth.	14.0	1964-73	12- 6-72	5.63	1,060
* 04214980	Little Buffalo Creek near East Lancaster, N. Y.	Lat 42°52'46", long 78°36'27", Erie County, at bridge on Schwartz Road, 1.9 miles southeast of East Lancaster, and 2.9 miles upstream from mouth.	23.9	1963-73	3-17-73	6.71	743

Operated as a continuous-record gaging station.

* Also a low-flow partial record station.

+ Discharge not determined.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

						Annual maximum	
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Gage height (feet)	Dis-charge (cfs)
Streams Tributary to Lake Erie--Continued							
04215000	Cayuga Creek near Lancaster, N. Y.	Lat 42°53'24", long 78°38'45", Erie County, on right bank 150 ft upstream from low flat-crested dam in Como Lake Park, 700 ft downstream from bridge on Bowen Road, 800 ft downstream from Little Buffalo Creek, and 2 miles southeast of Lancaster.	94.9	1939-68 [†] 1971-73	3-17-73	6.82	2,800
Niagara River basin							
* 04216400	Tonawanda Creek near Johnsonburg, N. Y.	Lat 42°43'05", long 78°19'18", Wyoming County, on State Highway 98 near Johnsonburg, and 0.6 mile downstream from East Fork.	23.6	1962-73	12- 6-72	7.84	877
Streams Tributary to Lake Ontario							
04219645	Fourmile Creek near Youngstown, N. Y.	Lat 43°13'49", long 79°01'01", Niagara County, at culvert on Balmer Road, 200 ft east of State Highway 18, 1.5 miles southeast of Youngstown, and 3.4 miles above the mouth.	4.88	1969, 1971-73	12- 6-72	26.54	+
04220455	Quig Hollow Brook near Andover, N. Y.	Lat 42°08'45", long 77°45'25", Allegany County, 40 ft downstream from bridge on town road, 0.2 mile south of State Highway 17, and 1.5 miles east of Andover.	4.24	1964-73	12- 6-72	2.23	+
* 04220465	Railroad Brook near Alfred, N. Y.	Lat 42°12'51", long 77°47'47", Allegany County, at bridge on town road, 0.3 mile west of State Highway 21, 2.0 miles south of Alfred, and 4.9 miles upstream from mouth.	1.05	1964-67, 1971-73	3-16-73	2.47	270
04224900	Mill Creek at Patchinville, N. Y.	Lat 42°31'13", long 77°35'06", Steuben County, at bridge on Ellinger Road, 0.1 mile east of State Highway 21, 0.8 mile south of Patchinville, 3.3 miles south of Wayland, and 9.1 miles upstream from mouth.	5.00	1964-73	12- 6-72	2.68	762
04222600	Wisoy Creek at Bliss, N. Y.	Lat 42°34'59", long 78°14'16", Wyoming County, at bridge on county road, 0.1 mile north of State Highway 39, and 0.6 mile east of Bliss.	21.8	1962-65, 1967-73	12- 6-72	327	1,100
* 04224700	Sugar Creek near Ossian, N. Y.	Lat 42°30'52", long 77°48'12", Livingston County, on right bank 300 ft downstream from bridge on Linzy Road, 1.3 miles southwest of Ossian, and 5.1 miles upstream from mouth.	9.83	1964-73	12- 6-72	6.02	988
* 04232060	Salmon Creek at Pultneyville, N. Y.	Lat 43°16'43", long 77°11'05", Wayne County, at bridge on State Highway 21, at Pultneyville, and 0.8 mile upstream from mouth.	18.1	1962-73	4- 5-73	3.90	+
* 04232406	Hector Falls Creek at Burdett, N. Y.	Lat 42°25'21", long 76°49'58", Schuyler County, at bridge on State Highways 79 and 227, 0.2 mile east of village line of Burdett, and 2.4 miles upstream from mouth.	11.8	1971-73	12- 6-72	4.47	a 1,000
* 04232460	Sugar Creek at Guyanoga, N. Y.	Lat 42°37'23", long 77°09'30", Yates County, at bridge on Sid White Road, 0.4 mile east of Guyanoga, and 2.3 miles upstream from mouth.	28.9	1966-73	12- 6-72	2.30	230
04232630	Kendig Creek near MacDougall, N. Y.	Lat 42°50'57", long 76°53'33", Seneca County, on left bank at downstream side of bridge on County Highway 120, 3.0 miles north of MacDougall, 3.5 miles southwest of Waterloo, and 4.6 miles upstream from mouth.	13.8	1965-68 [†] 1969-73	12- 6-72	5.27	500
* 04233310	Sixmile Creek above Ithaca, N. Y.	Lat 42°24'33", long 76°27'14", Tompkins County, at bridge on Bors Road, 1.8 miles southeast of Ithaca, and 4.4 miles upstream from mouth.	42.0	1967-69 1971-73	3-11-67 11- 3-67 11-18-68 3-15-71 12- 6-72	3.82 5.59 4.21 3.41 4.24	800 1,870 995 614 1,010
* 04234300	Fairville Creek at Fairville Station, N. Y.	Lat 43°05'59", long 77°03'49", Wayne County, at bridge on Pulver Road, 0.3 mile upstream from mouth and 0.4 mile southwest of Fairville Station.	16.2	1966-67 1969-73	12- 6-72	5.02	172

* Also a low-flow partial record station.

+ Discharge not determined.

† Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

						Annual maximum	
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Gage height (feet)	Dis-charge (cfs)
Streams Tributary to Lake Ontario--Continued							
* 04235276	Black Brook at Tyre, N. Y.	Lat 42°59'30", long 76°48'13", Seneca County, at bridge on County Highway 101, in village of Tyre, and 0.8 mile upstream from mouth.	19.0	1966-73	4- 5-73	3.41	460
04245840	Scriba Creek near Constantia, N.Y.	Lat 43°15'35", long 76°00'11", Oswego County, on right bank, 8 ft upstream from road to Ingersol Road, and about 0.8 mile north of village of Constantia.	38.4	1966-68# 1969 1971-73	4- 3-73	5.34	530
* 04249050	Catfish Creek at New Haven, N. Y.	Lat 43°29'00", long 76°19'34", Oswego County, at bridge on State Highway 104B, at New Haven, and 1.4 miles upstream from mouth.	31.7	1962-66, 1968-73	3-18-73	7.85	950
St. Lawrence River Basin							
04258700	Deer River at Deer River, N. Y.	Lat 44°53'32", long 74°41'28", Lewis County, on left bank 350 ft upstream from bridge on State Highway 26, at Deer River, and 2 miles upstream from mouth.	98.1	1957-68# 1969-73	3-18-73	6.88	8,120
04264200	Little Sucker Brook at Waddington, N.Y.	Lat 44°50'28", long 75°11'28", St. Lawrence County, at bridge on State Highway 345, 0.6 mile south of Waddington, and 3.9 miles upstream from mouth.	19.9	1959-60# 1961-69 1971-73	3-19-73	3.36	798
04264300	Brandy Brook near Waddington, N. Y.	Lat 44°49'42", long 75°04'32", St. Lawrence County, at bridge on Halfway House Road, 3.2 miles southeast of Waddington, and 4.4 miles upstream from mouth.	27.0	1959-63# 1964-69, 1971-73	3-19-73	9.65	a 1,300
04264400	Middle Branch Grass River near Clare, N. Y.	Lat 44°22'34", long 75°03'42", St. Lawrence County, at highway bridge, 1.1 miles upstream from confluence with South Branch, and 1.9 miles south of Clare.	63.6	1959-60#, 4- 1961-68, 1971-73	2-73	7.00	1,510
04265100	Elm Creek near Hermon, N. Y.	Lat 44°26'14", long 75°12'52", St. Lawrence County, on left bank 100 ft downstream from highway bridge, 2.3 miles south of Hermon, and 6.8 miles upstream from confluence with Tanner Creek.	33.0	1958-68# 1969-73	3-19-73	6.25	452
04265300	Little River near Canton, N. Y.	Lat 44°34'24", long 75°06'56", St. Lawrence County, at old dam 50 ft downstream from highway, at Brick Chapel, 4.0 miles southeast of Canton, and 7.4 miles upstream from mouth.	42.4	1959-60# 1961-69 1971-73	3-20-73	6.90	1,630
04267600	Cold Brook near South Colton, N. Y.	Lat 44°29'39", long 74°52'11", St. Lawrence County, at bridge on State Highway 56, 1.5 miles south of South Colton, and 1.6 miles upstream from mouth.	19.0	1961-64# 1967-73	3-18-73	2.36	334
04267700	Parkhurst Brook near Potsdam, N. Y.	Lat 44°39'11", long 74°58'15", St. Lawrence County, at bridge on State Highways 56 and 72, 0.3 mile upstream from mouth, and 1.2 miles southeast of Campus of State University of New York, College of Education at Potsdam.	17.8	1958-63# 1964-73	1-23-73	5.82	401
04267800	Trout Brook at Allen Corners, N. Y.	Lat 44°47'33", long 75°01'59", St. Lawrence County, at abandoned bridge off State Highway 56A, at Allen Corners, and 2 miles southwest of Norfolk.	56.2	1958-63# 1964-65, 1967-73	3-25-73	10.73	1,740
04268200	Plum Brook at Grantville, N. Y.	Lat 44°52'45", long 74°54'52", St. Lawrence County, at bridge on Grant Road, 0.7 mile downstream from unnamed tributary, 1.1 miles upstream from mouth, 1.4 miles north of Grantville, and 2.3 miles southwest of Massena city limits.	37.6	1958-63# 1964, 1966-68, 1971-73	1-23-73	5.98	1,170
04268720	Hopkinton Brook at Hopkinton, N. Y.	Lat 44°40'59", long 74°42'03", St. Lawrence County, at bridge on town road, 0.4 mile upstream from unnamed tributary, 0.6 mile south of Hopkinton, and 2.0 miles upstream from mouth.	18.5	1961-62# 1964-69, 1971-73	3-18-73	3.93	950

* Also a low-flow partial record station.

a approximate

Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

						Annual maximum	
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Gage height (feet)	Dis-charge (cfs)
St. Lawrence River basin--Continued							
04268900	Trout Brook at Stockholm Center, N. Y.	Lat 44°46'16", long 74°48'47", St. Lawrence County, at highway bridge, 0.7 mile upstream from mouth, and 1.0 mile northeast of Stockholm Center.	44.9	1959-60 [#] 1961-67, 1970-73	4- 2-73	3.54	830
04269050	Allen Brook near Brasher Falls, N. Y.	Lat 44°48'07", long 74°43'40", St. Lawrence County, at bridge on U.S. Highway 11, 0.8 mile upstream from mouth, and 2.2 miles east of Brasher Falls.	16.0	1961-66 [#] 1967-73	4- 2-73	4.30	555
04269100	Lawrence Brook near Moira, N. Y.	Lat 44°50'22", long 74°35'46", Franklin County, at highway bridge, 2.4 miles northwest of Moira, and 5.4 miles upstream from mouth.	28.0	1959-60 [#] 1961-73	5-20-73	5.83	744
04269500	Deer River at Brasher Iron Works, N. Y.	Lat 44°53'32", long 74°41'28", St. Lawrence County, on left bank, 400 ft upstream from highway bridge at Brasher Iron Works, 2.6 miles southeast of Helena, 3.6 miles upstream from mouth, and 3.8 miles downstream from Lawrence Brook.	189	1913-16 [#] 1959-68 [#] 1969 1971-73	4- 2-73	6.39	3,280
04270100	West Branch Deer Creek at Fort Center, N. Y.	Lat 44°56'49", long 74°28'49", Franklin County, at bridge on county highway, 0.8 mile west of Fort Covington Center, 2.1 miles upstream from East Branch, and 3.1 miles south of Fort Covington.	31.4	1962-73	4- 2-73	6.39	1,050
04270150	East Branch Deer Creek at Fort Covington Center, N.Y.	Lat 44°56'52", long 74°27'51", Franklin County, at highway bridge at Fort Covington Center, 1.9 miles upstream from mouth, and 3.2 miles south of Fort Covington.	23.1	1961-62 [#] 1963-73	4- 2-73	5.43	525
04270700	Trout River at Trout River, N. Y.	Lat 44°59'23", long 74°17'56", Franklin County, at county highway bridge, 0.2 mile east of State Highway 30, at Trout River, 0.5 mile upstream from international boundary, 1.5 miles downstream from unnamed tributary, and 3.3 miles downstream from Little Trout River.	107	1960-66 [#] 1967-73	4- 2-73	4.51	1,530
04270800	English River near Mooers Forks, N. Y.	Lat 44°58'32", long 73°39'49", Clinton County, on right bank at downstream side of highway bridge, 1.6 miles upstream from unnamed tributary, 1.7 miles northwest of Mooers Forks, and 2.5 miles upstream from international boundary.	40.8	1960-68 [#] 1969 1971-73	3-18-73	4.67	945
04273700	Salmon River at South Plattsburgh, N. Y.	Lat 44°38'24", long 73°29'43", Clinton County, on left bank on bridge on Salmon River Road, at South Plattsburgh, 0.4 mile west of State Highway 22, and 3.9 miles upstream from mouth.	61.9	1960-68 [#] 1969 1971-73	6-22-73	5.30	1,420
04276200	Bouquet River at New Russia, N. Y.	Lat 44°09'51", long 73°30'30", Essex County, at bridge on county road, 0.2 mile east of U.S. Highway 9, at New Russia.	37.6	1949, 1951, 1953, 1956-68, 1971-73	4- 4-73	9.79	1,620

^{*} Operated as a continuous-record gaging station.

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*); measurements of peak flow by a dagger (†). Where "Drainage area" column is blank, drainage area not available at time of publication.

Discharge measurements made at miscellaneous sites during water year 1973.

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Hudson River basin						
01312005 Hudson River Trib. #9	Hudson River	Lat 43°57'26", long 74°07'29", Essex County, at bridge on town road, 0.3 mile upstream from mouth, 0.5 mile south of State Highway 28N, and 0.7 mile southeast of gaging station at Newcomb.	-	-	9- 5-73	0
01316200 Schroon River	Hudson River	Lat 43°52'31", long 73°44'25", Essex County, at bridge on State Highway 73, and 0.6 mile west of Severence.	173	-	4- 6-73 5- 7-73 6- 4-73 7- 9-73 8- 3-73 9-10-73	1,250 360 371 227 201 79
01316300 Rogers Brook	Schroon Lake	Lat 43°50'05", long 73°45'42", Essex County, at bridge on U.S. Highway 9, in Schroon Lake, and 0.1 mile upstream from mouth.	-	-	4- 6-73 5- 7-73 6- 4-73 7- 9-73 8- 3-73 9-10-73	64 22 22 11 22 2.4
01316320 Horseshoe Pond Brook	Schroon Lake	Lat 43°49'44", long 73°46'21", Essex County, at culvert on U.S. Highway 9, 0.2 mile upstream from mouth and 0.8 mile south of Schroon Lake.	-	-	3- 4-73 4- 6-73 5- 7-73 6- 4-73 7- 9-73 8- 3-73	3.0 15 3.7 5.0 1.3 4.0
01316400 Marsh Pond Outlet	Schroon Lake	Lat 43°46'49", long 73°47'49", Essex County, at culvert on U.S. Highway 9, 0.7 mile upstream from mouth, and 1.1 miles south of South Schroon.	-	-	4- 6-73 5- 7-73 6- 4-73 7- 9-73 8- 3-73 9-10-73	14 3.6 5.0 .93 3.4 .54
01316420 Mill Brook	Schroon Lake	Lat 43°45'45", long 73°45'14", Warren County, at culvert on Valentine Street in Adirondack, and 0.5 mile upstream from mouth.	-	-	3- 4-73 4- 6-73 5- 7-73 6- 4-73 7- 9-73 8- 3-73 9-10-73	26 180 34 51 15 21 3.9
01316688 Jones Brook	Minerva Stream	Lat 43°47'19", long 73°57'55", Essex County, at bridge on town road, 0.3 mile downstream from Minerva Lake, 1.0 mile east of Minerva, and 1.2 miles upstream from mouth.	-	-	9- 5-73	*0.69
01316690 Minerva Stream	Trout Brook	Lat 43°46'32", long 73°56'42", Essex County, at bridge on county road 0.6 mile west of Olmsteadville, 0.7 mile downstream from Jones Brook, and 0.7 mile upstream from dam at Olmsteadville.	-	-	9- 5-73	0
01321500 West Stony Creek	Sacandaga River	Lat 43°15'10", long 74°13'30", Hamilton County, at bridge on State Route 30, 1,000 feet upstream from mouth, and 3.0 miles northwest of Northville.	88.0	-	3- 2-73 4- 8-73 5- 4-73 6- 1-73 7- 5-73 8- 1-73 9- 4-73	77 481 238 243 148 11 12
01322010 East Stony Creek	Great Sacandaga Lake	Lat 43°15'43", long 74°12'25", Hamilton County, at bridge on County Route 15, 0.5 mi upstream from mouth, and 3.0 mi north of Northville.	-	-	3- 2-73 4- 8-73 5- 4-73 6- 4-73 7- 5-73 8- 1-73 9- 4-73	61 496 204 118 95 20 28

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Hudson River basin--Continued						
01322490 Woodward Lake Outlet	Sacandaga River	Lat 43°13'52", long 74°11'46", Fulton County, at bridge on Gifford Valley Road, 0.4 mile west of Northville village line.	-	-	3- 2-73	2.5
					4- 8-72	18
					5- 4-73	6.5
					6- 1-73	10
					7- 5-73	6.5
					8- 1-73	.12
01322510 Hunters Creek	Great Sacandaga Lake	Lat 43°13'53", long 74°10'07", Fulton County, at bridge on Ridge Rd., in Northville.	-	-	3- 3-73	16
					4- 8-73	22
					5- 4-73	8.4
					6- 1-73	10
					7- 5-73	1.8
					8- 1-73	.24
9- 4-73	2.3					
01323000 Kennyetto Creek	Great Sacandaga Lake	Lat 43°03'57", long 74°09'48", Fulton County, at county bridge, 1.8 miles east of Broadalbin.	28.3	-	3- 2-73	28
					9- 4-73	8.1
01323300 Batcheller Creek	Great Sacandaga Lake	Lat 43°12'30", long 74°04'54", Saratoga County, at bridge on South Shore Road, in Batchellerville.	6.77	-	3- 3-73	7.0
					4- 8-73	37
					5- 7-73	10
					6- 4-73	10
					7- 5-73	9.3
					8- 1-73	1.1
01323310 Beecher Creek	Great Sacandaga Lake	Lat 43°13'16", long 74°06'15", Fulton County, at bridge on Military Road in Edinburg, and 0.3 mi upstream from mouth.	-	-	3- 3-73	16
					4- 8-73	52
					5- 7-73	15
					6- 4-73	12
					7- 5-73	13
					8- 1-73	1.5
9- 4-73	2.0					
01323330 Sand Creek	Great Sacandaga Lake	Lat 43°16'15", long 74°03'39", Saratoga County, at bridge on North Shore Road and 0.5 mile west of West Day, about 4.5 miles northeast of Edinburg.	-	-	3- 4-73	30
					4- 8-73	78
					5- 8-73	24
					6- 1-73	32
					7-11-73	6.0
					9- 5-73	1.1
01323350 Paul Creek	Great Sacandaga Lake	Lat 43°18'40", long 74°00'44", Saratoga County, at bridge on North Shore Road, in Day Center, 0.2 mile upstream from mouth and about 8.3 miles northeast of Edinburg.	20.5	-	3- 4-73	51
					4- 8-73	104
					5- 8-73	24
					6- 1-73	37
					7-11-73	4.1
					9- 5-73	1.2
01323400 Daly Creek	Great Sacandaga Lake	Lat 43°16'58", long 73°57'45", Saratoga County, at bridge on South Shore Road and 1.0 mile southwest of Overlook.	-	-	3- 4-73	66
					4- 8-73	153
					5- 8-73	38
					6- 1-73	67
					7-11-73	13
					9- 5-73	2.0
01330770 Kayaderosseras Creek	Saratoga Lake	Lat 43°02'37", long 73°46'16", Saratoga County, at bridge on Nelson Avenue, 200 ft south of Kayaderos Avenue in Saratoga Springs, and 200 ft upstream from Bear Swamp Outlet.	-	-	3- 1-73	153
					4- 7-73	1,180
					5- 4-73	503
					6- 1-73	391
					7-10-73	109
					8- 6-73	64
9- 7-73	105					
01330820 Spring Run	Lake Lonely	Lat 43°04'12", long 73°44'42", Saratoga County, at bridge on State Highway 9P, 0.4 mile west of Gilbert Corners, 0.8 mile upstream from mouth, and 2 miles east of Saratoga Springs.	-	1970-71	3- 1-73	14
					4- 7-73	42
					5- 4-73	27
					6- 1-73	20
					8- 6-73	12
					01330825 Lake Lonely Outlet	Kayaderosseras Creek
4- 7-73	163					
5- 4-73	40					
6- 1-73	53					

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Date	Discharge (cfs)
Hudson River basin--Continued						
01330905 Fish Creek	Hudson River	Lat 43°06'24", long 73°37'02", Saratoga County, at bridge on State Highway 29, in Grangerville 0.2 mile east of DeGarmo Road and 2.9 miles upstream from mouth.	-	-	3- 1-73 4- 7-73 5- 4-73 6- 1-73 7-10-73 8- 6-73 9- 7-73	285 1,470 480 734 173 124 89
01333350 Hoosic River	Hudson River	Lat 42°48'33", long 73°17'12", Bennington County, Vt. at bridge on State Highway 346 on N.Y.-Vt. State Line, 1.3 miles northwest of North Pownal.		1965 1967-73	4-10-73	1710
01335639 Ballston Creek	Round Lake	Lat 42°56'29", long 73°47'26", Saratoga County, at bridge on Goldfoot Road in Round Lake 0.3 mile upstream from mouth.	17.8	-	3- 3-73 4- 7-73 5- 7-73 5-31-73 7-10-73 8- 6-73 9-14-73	5.5 95 12 26 6.5 .79 .22
01335640 Ballston Creek	Round Lake	Lat 42°56'22", long 73°47'22", Saratoga County, at bridge on Maltaville Road at Round Lake, and 0.1 mile upstream from mouth.	197			
01335651 Luther Brook	Round Lake	Lat 42°56'41", long 73°47'04", Saratoga County, at culvert on Maltaville Road in Maltaville, and 0.3 mile upstream from mouth.	3.89	-	3- 3-73 4- 7-73 5- 7-73 5-31-73 7-10-73 8- 6-73 9-14-73	4.0 6.4 4.2 5.8 3.6 3.3 3.2
01335653 Round Lake Tributary #1	Round Lake	Lat 42°55'57", long 73°47'28", Saratoga County, at culvert on U.S. Highway 9 in Round Lake 0.1 mile upstream from mouth.	.60	-	3- 2-73 4- 6-73 5- 7-73 5-31-73 7-10-73 8- 6-73 9-14-73	.54 3.0 .44 1.3 .23 .23 .08
01335657 Round Lake Tributary #2	Round Lake	Lat 42°55'43", long 73°47'30", Saratoga County, at culvert on U.S. Highway 9 0.2 mile upstream from mouth, and 0.7 mile south of Round Lake.	2.19	-	3- 2-73 4- 6-73 5- 7-73 5-31-73 7-10-73 8- 6-73 9-14-73	1.0 7.2 1.3 4.6 .58 .56 .49
01335660 Round Lake Tributary #3	Round Lake	Lat 42°56'15", long 73°46'15", Saratoga County, at culvert on State Highway 67 0.2 mile upstream from mouth, and 0.8 mile southeast of Maltaville.	.87	-	2- 8-73 3- 3-73 4- 7-73 5- 7-73 5-31-73 7-10-73 8- 6-73 9-14-73	.70 1.2 2.1 .32 1.8 .13 .07 .02
01335698 Anthony Kill	Hudson River	Lat 42°53'13", long 73°44'50", Saratoga County, at Coons, at bridge on Coons crossing road 0.2 mi south of State Highway 67 and 2.5 mi west of Mechanicville and 4.2 mi upstream from mouth.	64.6	1973	3- 3-73 4- 7-73 5- 7-73 5-31-73	40 330 50 135
01350101 Schoharie Creek	Mohawk River	Lat 42°23'51", long 74°27'02", Schoharie County, at bridge on County Highway 342, 0.2 mile west of village of Gilboa, and 0.4 mile downstream from Gilboa Dam.	-	1969-72	5-14-73 7-27-73 8-30-73	808 1.1 .42
01350120 Platter Kill	Schoharie Creek	Lat 42°24'15", long 74°26'38", Schoharie County, at culvert on county road, 0.5 mile upstream from mouth, and 0.6 mile northeast of Gilboa.	-	1969-72	10- 5-72 3- 7-73 4-11-73 5-15-73 7-27-73 8-30-73	1.3 13 49 16 6.4 1.9

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Hudson River basin--Continued						
01350140 Mine Kill	Schoharie Creek	Lat 42°25'41", long 74°28'22", Schoharie County, at bridge on State Highway 30, and 3 miles southwest of North Blenheim.	-	1969-72	3- 7-73 4-11-73 5-15-73 7-27-73 8-30-73	20 71 26 7.7 .52
01350200 West Kill	Schoharie Creek	Lat 42°28'07", long 74°27'34", Schoharie County, at bridge on State Highway 30 in North Blenheim, 100 feet downstream from Mill Creek, and 0.2 mile upstream from mouth.	-	1970-72	4-11-73 6-30-73	186 202
01350350 Keyser Kill	Schoharie Creek	Lat 42°31'23", long 74°24'38", Schoharie County, at bridge on State Highway 30, 0.2 mile upstream from mouth, and 0.1 mile south of Breakabeen.	-	1971-72	4-11-73 5-15-73 7-27-73 8-30-73	60 28 9.8 .25
01350355 Schoharie Creek	Mohawk River	Lat 42°32'10", long 74°24'40", Schoharie County, at bridge on State Highway 30, 0.8 mile north of Breakabeen.		1971	10- 6-72 11-12-72 6-13-73 7- 1-73 7-27-73 8-30-73	4.5 1,420 342 5,490 20 6.2
01350470 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 miles northwest of Rensselaerville.	3.52	1970,1972	10- 3-72 8- 9-73	*0.04 *0.36
01351000 Fox Creek	Schoharie Creek	Lat 42°37'42", long 74°11'08", Albany County, 200 ft upstream from highway bridge at West Berne, 1.8 miles downstream from Switz Kill, and 3.5 miles southeast of Gallupville.	73.0	1924-32# 1962-68#	10- 6-72 8- 9-73	*.84 *16
01356280 Shakers Creek Tributary	Shakers Creek	Lat 42°45'01", long 73°46'54", Albany County, at culvert on Wade Road, 0.75 mile west of Latham, and about 1 mile upstream from mouth.	2.09	1960, 1963-65, 1970	10-27-72 8- 1-73	*1.2 .49
01359050 Wynants Kill	Hudson River	Lat 42°37'46", long 73°32'01", Rensselaer County, at bridge on town road at outlet of Glass Lake, and 0.6 mile southeast of Sand Lake.	-	1962	8- 5-73	*5.6
01359125 Van Rensselaer Creek	Little River	Lat 42°41'03", long 73°44'32", Albany County, on State Highway 377, 1 mile south of junction of State Highways 378 and 377 in Menands.	0.64	1955, 1963-65, 1970	10-27-72 8- 8-73	*9.8 .46
01359135 Patroon Creek	Hudson River	Lat 42°39'48", long 73°44'44", Albany County, 300 feet upstream from Pearl Street in Albany, 300 feet west of intersection of Pearl and Tivoli Streets in Albany, 0.5 mile northwest of southern tip of Lower Patroon Island, and 0.6 mile north of right end of railroad bridge.	-	-	10- 7-72	325
01359270 Indian House Creek	Normans Kill	Lat 42°44'25", long 74°00'51", Albany County, at bridge on Dunnsville Road, 0.1 mile north of Intersection with U.S. Highway 20 at Dunnsville.	2.83	1963,1970	10-27-72 8- 8-73	0 T
01359320 Bozen Kill	Normans Kill	Lat 42°42'50", long 74°02'47", Albany County, at bridge on Westfall Road, 1.1 miles northwest of Altamont.	-	1970	10- 6-72 8- 8-73	a0.1 .77
01359325 Black Creek	Normans Kill	Lat 42°40'35", long 73°57'10", Albany County, at bridge on School Rd., 2.1 miles northwest of Voorheesville.	-	1970	10- 6-72 8- 7-73	T *6.8
01359330 Black Creek	Bozen Kill	Lat 42°43'14", long 73°59'44", Albany County, at mouth 1.9 miles northwest of Guilderland Center.	19.3	1962-63 1970	10- 6-72 8- 7-73	.39 *6.6

* Base flow.
T Trace.

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Hudson River basin--Continued						
01359340 Bozen Kill	Normans Kill	Lat 42°43'21", long 73°59'33", Albany County, at bridge on State Highway 158, 0.7 mile upstream from Watervliet Reservoir, and 1.9 miles northwest of Guilderland Center.	51.8	1962-63, 1965, 1970	10- 6-72 8- 7-73	1.1 *8.8
01359507 Hunger Kill	Normans Kill	Lat 42°43'25", long 73°55'06", Albany County, at culvert on Old State Road, 0.8 mile upstream from Glass Pond, 1.3 miles northwest of Guilderland.	3.91	1960,1970	10-27-72 8- 7-73	*5.9 *10
01359517 Blockhouse Creek	Hunger Kill	Lat 42°41'08", long 73°54'05", Albany County, at bridge on State Highway 155 0.15 mile upstream from Kaikout Kill, 0.4 mile upstream from mouth, and 1.4 miles south of Guilderland.	1.96	1962-67 1970	10- 5-72 8- 7-73	1.4 *2.6
01359518 Kaikout Kill	Blockhouse Creek	Lat 42°41'20", long 73°54'08", Albany County, at bridge on Foundry Road, 0.2 mile upstream from mouth, and 1.2 miles southeast of Guilderland.	1.55	1962-1965, 1970	10- 5-72 8- 7-73	2.4 *3.3
01359520 Vly Creek Tributary	Vly Creek	Lat 42°38'06", long 73°57'49", Albany County, at culvert on New Salem Road (State Highway 85A), 0.8 mile north of New Salem, and 1.5 miles upstream from mouth.	1.50	1962 1970-72 1972-73	10- 5-72 8- 7-73	* .15 * .92
013595205 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	10- 5-72 8- 7-73	2.7 *6.9
01359524 Krum Kill	Normans Kill	Lat 42°38'56", long 73°50'51", Albany County, at bridge on Blessing Road, just upstream from mouth, at Karlsfeld.	5.58	1962-63 1970	10- 5-72 8- 1-73	2.0 4.0
01359539 Normans Kill Tributary	Normans Kill	Lat 42°36'28", long 73°47'42", Albany County, at bridge on Bender Lane, half a mile north of Bethlehem Center.	1.24	1960,1962, 1970	10- 4-72 8- 1-73	.12 .20
01359585 Vloman Kill	Hudson River	Lat 42°37'27", long 73°54'16", Albany County, 70 feet downstream from bridge on farm road, and 0.5 mile south of New Scotland.	2.55	1962-64, 1970	10- 5-72 8- 8-73	.73 1.1
01359588 Phillipin Kill	Vloman Kill	Lat 42°36'49", long 73°52'35", Albany County, at bridge on Orchard St. 1.0 mile northeast of Unionville.	-	1970	10- 5-72 8- 8-73	.02 T
01359590 Phillipin Kill	Vloman Kill	Lat 42°35'24", long 73°50'49", Albany County, at bridge on State Highway 32, 0.7 mile southwest of Houcks Corners, and 1.8 miles northeast of Feura Bush.	-	1970	10- 4-72 8- 1-73	T T
01359592 Vloman Kill	Hudson River	Lat 42°33'54", long 73°49'48", Albany County, at bridge on Jericho Road 0.25 mile west of Mallorys Corners.	17.2	1965-67 1970	10- 4-72 8- 1-73	.74 .95
01359618 Silver Creek	Hannacrois Creek	Lat 42°29'17", long 73°58'56", Albany County, at bridge on County Road 411, 0.6 mile upstream from mouth, and 1.0 mile southwest of Dormansville.	-	-	8- 8-73	*8.2
01359830 Onesquethaw Creek	Coeymans Creek	Lat 42°33'49", long 73°55'44", Albany County, at bridge on State Highway 32, and 1.8 miles southeast of Clarksville.	17.8	1952,1970	10- 3-72 8- 8-73	*.24 4.2
01359904 Feuri Spruyt	Coeymans Creek	Lat 42°31'40", long 73°50'50", Albany County, at bridge on County Highway 101, 0.25 mile south of South Bethlehem.	-	1970	10- 4-72 8- 1-73	*.07 .16
01359915 Hannacrois Creek	Hudson River	Lat 42°29'49", long 73°58'46", Albany County, at bridge on State Highway 32 and 143, 0.2 mile upstream from Silver Creek, 0.8 mi east of Dormansville, and 0.8 mi upstream from Alcove Reservoir.	13.2	1963, 1970	10- 3-72 8- 8-73	*0.14 *2.2

* Base flow.
T Trace.

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Hudson River basin--Continued						
01359916 Silver Creek	Hannacrois Creek	Lat 42°28'24", long 73°59'17", Albany County, at culvert on Boomhower Road near Dormonsville.	-	1970	10- 3-72	0
01359917 Silver Creek Tributary	Silver Creek	Lat 42°29'01", long 73°59'37", Albany County, at culvert on Boomhower Road at Dormansville.	.60	1970	10- 3-72 8- 3-73	*.06 *7.0
01361465 Fox Creek	Catskill Creek	Lat 42°27'46", long 74°10'53", Albany County, at bridge on Pearson Road, 1.9 miles upstream from mouth, and 1.9 miles northeast of Preston Hollow.	3.43	1970	10- 3-72 8- 8-73	0 .27
01361480 Catskill Creek Tributary	Catskill Creek	Lat 42°26'11", long 74°09'08", Albany County, at bridge on Niles Road, 1.0 mile west of Medusa.	6.58	1970	10- 3-72 8- 8-73	0 .70
01362003 Bell Brook	Catskill Creek	Lat 42°16'03", long 73°57'40", Greene County, 0.5 mile upstream from unnamed tributary, 0.7 mile south of South Cairo, 0.6 mile upstream from old State Highway 23, and 0.8 mile upstream from mouth.	1.23	1972-73	3-13-73 6-20-73	2.2 1.1
01362004 Bell Brook	Catskill Creek	Lat 42°16'10", long 73°57'32", Greene County, 0.4 mile upstream from unnamed tributary, 0.4 mile upstream from old State Highway 23, 0.5 mile south of South Cairo, and 0.6 mile upstream from mouth.		1972-73	3- 9-73 3-13-73 6-20-73 7-10-73	2.0 2.1 1.0 1.7
01362005 Bell Brook	Catskill Creek	Lat 42°16'19", long 73°57'29", Greene County, 0.1 mile upstream from unnamed tributary, 0.3 mile south of South Cairo, 0.3 mile upstream from old State Highway 23, and 0.4 mile upstream from mouth.	1.31	1971-73	3- 9-73 3-13-73 6-20-73 7-10-73	2.3 2.4 1.3 2.2
01368495 Indigot Creek Trib.	Indigot Creek	Lat 41°25'16", long 74°31'08", Orange County, at bridge on Manning Road (Town of Mt. Hope, Route 12), 1.3 miles upstream from mouth, and 1.6 miles south of Mount Hope.	5.78	-	3-21-73 4- 2-73 5-31-73 7- 1-73 8-24-73 9-27-73	11 120 17 69 *0.59 *0.62
01368705 Wickham Lake Tributary	Wickham Lake	Lat 41°17'38", long 74°17'33", Orange County, at bridge on Kings Highway at Lake, 0.6 mile upstream from mouth, and 4.2 miles northeast of Warwick.	0.68	1971-73	11- 6-72 3-20-73 5- 2-73 8-21-73 9-27-73	* .21 * 1.3 .4 * 0 0
01368713 Wawayanda Creek	Pochuck Creek	Lat 41°16'44", long 74°18'20", Orange County, at bridge on State School Road, at Durland, 0.1 mile downstream from Wickham Lake, and 2.5 miles northeast of Warwick.	5.15	1967 1971-3	11- 6-72 3-20-73 5- 2-73 7- 5-73 8-21-73 9-27-73	* .21 *18 11 33 * .62 * .14
01368722 Long House Creek	Wawayanda Creek	Lat 41°12'53", long 74°20'02", Orange County, at bridge on Cascade Road, 1.0 miles downstream from Cascade Lake, and 3.0 miles southwest of Bellvale.	8.35	-	3-20-73 5-31-73 8-21-73 9-27-73	*30 25 3.5 *0.65
01368724 Long House Creek	Wawayanda Creek	Lat 41°15'10", long 74°18'30", Orange County, at bridge on Iron Forge Road, at Bellvale, and 1.9 miles upstream from mouth.	11.85	1971-73	11- 6-72 3-20-73 5-31-73 7- 5-73 8-21-73 9-27-73	12 *46 48 59 * 4.0 * .86
01368740 Warwick Reservoir Outlet Tributary	Warwick Reservoir Outlet	Lat 41°14'31", long 74°21'14", Orange County, at bridge on Ball Road, 0.5 mile upstream from mouth, and 1.0 mile from Warwick.	.56	1971-73	11- 6-72 3-20-73 5- 2-73 8-21-73 9-21-73	* .35 * 3.8 1.2 * .07 * .02
01368760 Wawayanda Creek Tributary	Wawayanda Creek	Lat 41°14'34", long 74°22'18", Orange County, at bridge on State Highway 94 (New Milford Road), 0.8 mile upstream from mouth, and 1.2 miles southwest of Warwick.	2.96	1971-73	11- 6-72 3-20-73 5- 2-73 8-21-73 9-21-73	* 1.6 * 8.2 6.2 * .13 0

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

303

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Discharge (cfs)
Hudson River basin--Continued						
01368810 Wawayanda Creek	Pochuck Creek	Lat 41°14'18", long 74°25'03", Orange County, at bridge on Ryerson Road at New Milford, and 0.2 mile upstream from Double Kill.	45	1971-73	11- 6-72 3-20-73 5- 2-73 7- 5-73 8-21-73 9-21-73	*41 *154 103 276 *16 * 7.9
01368840 Double Kill	Wawayanda Creek	Lat 41°14'10", long 74°24'58", Orange County, at bridge on Ryerson Road, at New Milford, and 0.3 mile upstream from mouth.	15.6	1971-73	11- 7-72 3-20-73 8-24-73 9-21-73	*16 53 *12 * 1.8
01369650 Stony Creek	Wheeler Creek	Lat 41°18'06", long 74°23'14", Orange County, at bridge on Union Corners Road, 0.7 mile upstream from mouth, and 2.6 miles south-west of Florida.	2.62	1971-73	11- 6-72 3-20-73 5- 2-73 8-21-73 9-21-73	* 1.3 * 6.4 4.5 * .53 * .16
01369695 Coleman Ditch	Wallkill River (Black Walnut Creek Channel)	Lat 41°17'37", long 74°26'10", Orange County, at bridge on Little York Road, 0.4 mile upstream from mouth, and 1.4 miles east of Pine Island.	1.60	1971-73	11- 6-72 3-20-73 5- 2-73 8-21-73 9-21-73	* .99 * 4.6 3.6 * .34 * .28
01372421 Wappinger Creek	Hudson River	Lat 41°44'43", long 73°49'18", Dutchess County, at bridge on State Highway 44 in Pleasant Valley.	-	-	6- 7-73	222
01372542 Wappinger Creek	Hudson River	Lat 41°35'55", long 73°55'25", Dutchess County, at bridge in Industrial Park in Wappinger Falls, and 1.9 miles (3.0 km) upstream from mouth.	-	-	6- 6-73 9- 5-73	329 50
01372667 Fishkill Creek	Hudson River	Lat 41°35'08", long 73°44'46", Dutchess County, at bridge on Phillips Road 1.0 mile north of Stormville, and 1.2 miles downstream from Frog Hollow Brook.	-	-	6- 5-73 9- 4-73	80 *8.4
01372915 Fishkill Creek	Hudson River	Lat 41°31'55", long 73°53'41", Dutchess County, at bridge on State Highway 9 in Fishkill, and 0.9 mile upstream from Clove Creek.	-	-	6- 4-73	261
01373500 Fishkill Creek	Hudson River	Lat 41°30'40", long 73°56'55", Dutchess County, on left bank at upstream side of Bridge Street Bridge in Beacon, 2.5 miles upstream from mouth.	190	1968-70	6- 4-73 9- 4-73	299 28
01373518 Black Meadow Creek	Otter Kill	Lat 41°19'59", long 74°19'10", Orange County, at bridge on Sugar Loaf-Florida Road (Pine Hills Road), 0.8 mile downstream from unnamed tributary, and 2.0 miles east of Florida.	3.47	1971-73	11- 6-72 3-20-73 5- 2-73 8-21-73 9-21-73	* 2.2 *12 4.5 * .11 * .10
01373580 Trout Brook	Seely Brook	Lat 41°16'36", long 74°15'01", Orange County, at bridge on Lake Road about 2.5 miles southwest of Walton Park.	2.39	1964 1971-73	11- 6-72 3-20-73 8-21-73 9-27-73	* 2.1 * 8.8 * .64 * .28
01373650 Moodna Creek	Hudson River	Lat 41°25'36", long 74°10'02", Orange County, at bridge on State Highway 208 in Washingtonville.	-	-	10-11-72	39
01373675 Moodna Creek	Hudson River	Lat 41°25'33", long 74°05'17", Orange County, at bridge on Otterkill Road, 100 ft east of Taylor Road and 1.0 mile southwest of West Cornwall.	-	1964	10-11-72	5.5
01376570 New City Brook	Hacksack River	Lat 41°10'09", long 73°58'46", Rockland County, at bridge on road north of Christie Airport 0.5 mile east of Zukor Road, 0.8 mile upstream from mouth, and 1.1 miles north of New City.		1972-73	10- 5-72 11-28-72 12-27-72 1-24-73 3- 2-73 2-26-73 5-25-73 7- 2-73 8- 9-73	2.2 11 17 11 1450 8.5 12 36 3.9

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Hackensack River basin						
01377180 Pascack Brook	Hackensack River	Lat 41°06'45", long 74°02'00", Rockland County, on road to Orange and Rockland substation and 0.7 mile east of Spring Valley.	2.13	1972-73	10- 5-72 12-27-72 1-24-73 2- 2-73 2-26-73 4- 5-73 5-25-73 7- 2-73 8- 9-73 4-19-73	.07 4.8 3.4 684 1.6 10 2.4 1.9 .30 .09
Delaware River basin						
01421200 Cadosia Creek	East Branch Delaware River	Lat 41°58'03", long 75°15'51", Delaware County, at bridge on State Highway 236, 0.3 mile upstream from mouth, at Cadosia.	17.7	1949-50, 1955, 1957-71	6-12-73 6-20-73 7-10-73 7-17-73 7-25-73 8- 7-73 8-31-73 9-13-73	*20 *16 *16 *7.5 *4.2 *3.8 *1.9 *1.9
01421500 East Branch Delaware River	Delaware River	Lat 41°57'10", long 75°16'37", Delaware County, at bridge on N.Y. State High- way 97 in Hancock and 1.2 mi upstream from confluence with West Branch.	838	-	5-16-73 6-12-73 8-15-73 9-12-73	3,800 1,430 278 165
01421548 Rexmere Lakes Outlet	West Branch Delaware River	Lat 42°24'21", long 74°37'28", Delaware County, 200 feet upstream from mouth at Stamford.	-	1970-71	8-29-73	*.23
01421550 West Branch Delaware River	Delaware River	Lat 42°24'19", long 74°37'31", Delaware County, at bridge on Railroad Ave. at Stamford.	Approx. 9.0	1970-71	8-29-73	*1.0
01421552 West Branch Delaware River	Delaware River	Lat 42°24'08", long 74°37'40", Delaware County, at bridge on Peters Road at STP, 0.2 mi southwest of Stamford village line.	-	-	8-28-73	1.3
01421610 West Branch Delaware River	Delaware River	Lat 42°22'16", long 74°40'16", Delaware County, at bridge on town road near firehouse in Hobart and 0.5 mile upstream from Town Brook.	15.6	1949-50, 1970-71	8-29-73	*3.6
01421620 Town Brook	West Branch Delaware River	Lat 42°22'08", long 74°40'38", Delaware County, at bridge in Hobart, and 0.2 mile upstream from mouth.	-	1970-71	8-29-73	*1.4
01421640 West Branch Delaware River	Delaware River	Lat 42°20'37", long 74°43'12", Delaware County, north of County Highway 18, 1.5 mi upstream from bridge in South Kortright.	-	-	8-28-73	4.5
01421800 West Branch Delaware River	Delaware River	Lat 42°19'45", long 74°48'14", Delaware County, at bridge 0.1 mi upstream from Wright Brook, and 0.3 mi southeast of Bloomville.	-	-	8-29-73	*13
01421915 Steele Brook	West Branch Delaware River	Lat 42°17'27", long 74°55'55", Delaware County, 0.1 mile upstream from Delhi Reservoir near Delhi.	-	1970-71	8-29-73	*.66
01422700 West Branch Delaware River	Delaware River	Lat 42°10'32", long 75°01'04", Delaware County, at highway bridge at Hawleys, 0.3 mile upstream from Mallory Brook, and 1.6 miles southwest of Hamden.	256	-	5-15-73 8-29-73	1,140 * 49
01422735 West Branch Delaware River	Delaware River	Lat 42°09'18", long 75°06'40", Delaware County, 0.1 mile north of River Road opposite roadside park, 0.6 mile upstream from Walton, 1.5 mile upstream from East Brook and 2.1 miles upstream from gaging station (01423000) at Walton.	-	-	6-13-73 7-12-73 8-14-73 9-10-73	*401 223 81 51

* Base flow.

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Delaware River basin--Continued						
01423010 West Branch Delaware River	Delaware River	Lat 42°07'43", long 75°09'42", Delaware County, at bridge on State Highway 10, 0.2 mile north of Beerston, and 2.7 miles downstream from Pines Brook.	-	-	8-27-73 9-11-73	*78 62
01425637 Butler Brook Tributary	Butler Brook	Lat 42°04'00", long 75°25'06", Delaware County, at bridge on Second St. in Deposit, and 0.1 mile upstream from mouth.	-	1971	8- 1-73	*.44
01425640 Butler Brook	West Branch Delaware River	Lat 42°03'58", long 75°25'01", Delaware County, at bridge on Elm St. in Deposit, and 0.7 mile upstream from mouth.	-	1971	8- 1-73	*.62
01425665 Oquaga Creek	West Branch Delaware R.	Lat 42°11'05", long 75°25'27", Broome County, at bridge on North Sanford Road, 0.3 mile upstream from small tributary, 0.5 mile west of Arctic, 1.3 miles upstream from gaging station near North Sanford, and 2.6 miles northeast of North Sanford.	-	1969-72	10- 4-72 11- 9-72 4- 4-73 5- 9-73 6-13-73 8- 1-73 9-13-73	.03 22 12 1.5 1.7 .04 .01
01425670 Oquaga Creek	Oquaga Creek	Lat 42°10'56", long 75°25'16", Broome County, 0.2 mile upstream from mouth, 0.4 mile southwest of Arctic, 0.4 mile downstream from bridge on East Afton Road, and 2.5 miles northwest of North Sanford.	-	1969-72	10- 4-72 11- 9-72 4- 4-73 6-13-73 8- 1-73 9-13-73	.14 32 57 5.1 .24 .10
01425995 Bone Creek	Oquaga Creek	Lat 42°03'34", long 75°25'48", Broome County, at bridge on Front St. in Deposit, and 600 ft upstream from mouth.	-	1971	8- 1-73	*.10
01427000 West Branch Delaware River	Delaware River	Lat 41°57'08", long 75°17'31", Delaware County, N.Y.-Wayne County, Pa., at end of Pennsylvania State Highway 191 in Hancock and 1.3 miles upstream from confluence with East Branch.	648	-	5-16-73 6-14-73 7-11-73 8-15-73 9-11-73	2,830 687 710 115 1,230
01427416 Seminary Brook	Callicoon Creek	Lat 41°46'03", long 75°03'25", Sullivan County, at culvert on State Highway 97, at Callicoon, 50 feet east of St. Josephs Seminary Road, and 1,000 feet upstream from mouth.	0.74	-	6-29-73	555
01433005 Mongaup River	Delaware River	Lat 41°34'02", long 74°47'01", Sullivan County, at highway bridge, 0.3 mile upstream from Black Lake Creek, and 0.4 mile downstream from dam and Swinging Bridge Reservoir.	148	-	7-26-73 8-22-73 9-13-73	25 34 19
01436800 Bush Kill	Neversink River	Lat 41°30'34", long 74°39'20", Sullivan County, at timber bridge on dirt road, 0.4 mile northwest of Oakland Valley.	19.5	1957-72	10- 3-72 4-25-73 6-20-73 7- 9-73 7-19-73 8-30-73	*4.4 *36 *23 *27 *14 * 8
01438000 Neversink River	Delaware River	Lat 41°21'40", long 74°41'07", Orange County at Tristates Bridge on East Main Street (U.S. Highway 6), in Port Jervis, 450 ft upstream from Clove Brook, and 0.6 mile upstream from mouth.	346	1902-03 1943 1945 1960-73	11- 1-72 12- 4-72 1-15-73 2-14-73 3-21-73 5- 1-73 6- 7-73 7-20-73 8- 9-73 8-24-73 9-14-73 9-20-73	141 725 382 408 723 621 1360 214 282 168 113 182
Susquehanna River basin						
01496302 Susquehanna River	Atlantic Ocean	Lat 42°41'45", long 74°55'37", Otsego County, at bridge on county highway (Susquehanna Ave.) in South Cooperstown.	81.2	1949-50 1972-73	10- 5-72	13
01496363 Ocuionis Creek	Canadarago Lake	Lat 42°51'13", long 74°59'30", Otsego County, on River Street in Richfield Springs, and 1.4 miles upstream from Canadarago Lake.	20	1963-64 1968-73	11- 5-72 4- 8-73 6-27-73 9-23-73	85 150 *11 .49

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Susquehanna River basin--Continued						
01496370 Mink Creek	Canadarago Lake	Lat 42°50'55", long 75°00'11", Otsego County, at bridge on State Highway 28, 0.4 mile southwest of Richfield Springs, and 1.0 mile upstream from mouth.	10.4	1963 1968-73	11- 5-72 4- 8-73 5- 6-73 5-27-73	53 66 14 4.8
01496390 Hyder Creek	Canadarago Lake	Lat 42°49'00", long 75°01'12", Otsego County, at bridge on State Highway 28, 0.4 mile upstream from mouth, and 3.0 miles southwest of Richfield Springs.	9.52	1963 1968-73	11- 5-72 4- 8-73 5- 6-73 6-27-73 9-23-73	48 49 12 * 4.1 .31
01496448 Herkimer Creek	Canadarago Lake	Lat 42°47'19", long 75°01'30", Otsego County, at bridge on State Highway 28, 0.5 mile upstream from mouth, and 0.6 mile north of Schuyler Lake.	12	1963 1968-73	11- 5-72 4- 8-73 5- 6-73 6-27-73 9-23-73	44 61 20 * 5.7 .42
01496451 Oaks Creek	Susquehanna River	Lat 42°46'52", long 75°01'04", Otsego County, at bridge on county Highway, 0.5 mile east of Schuyler Lake, and 1.0 mile downstream from Canadarago Lake.	65	1963 1968-73	11- 4-72 3- 3-73 4- 7-73 5- 5-73 6-27-73 8-19-73	137 63 467 103 *44 * 2.3
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.	-	1972-73	10- 5-72	56
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 feet east of State Highway 28, and 750 feet upstream from Goodyear Lake at Portlandville.	-	-	5- 5-73	554
01498615 Susquehanna River	Atlantic Ocean	Lat 42°26'44", long 75°03'50", Otsego County, at bridge on State Highway 23 and 28 (Main Street) in Oneonta.	674	-	10- 4-72 10- 4-72	*103 *112
01502717 Susquehanna River	Atlantic Ocean	Lat 42°07'24", long 75°38'51", Broome County, at bridge on Mountain Road, 0.4 mile south of Ouaquaga.	-	-	10- 3-72	336
01507910 Tioughnioga Creek	Tioughnioga River	Lat 42°45'04", long 75°56'45", Cortland County, at highway bridge 1.0 mile north of Cuyler, and 1.0 mile upstream from confluence with West Branch Tioughnioga Creek.	43.6	-	6-19-73 7-13-73	26 9.3
01508910 Blue Creek	Dry Creek	Lat 42°37'25", long 76°12'53", Cortland County, 1.0 mile northwest of Cortland and 1.5 mile upstream from mouth, 0.7 mile upstream from Blue Creek Road.	3.53	-	3-26-73 4-16-73 5- 3-73	27 5.5 6.8
01509520 Tioughnioga River	Chenango River	Lat 42°20'59", long 75°59'59", Broome County, at bridge on State Highway 79 in Lisle, 0.4 mile downstream from Dudley Creek, and 2.3 miles upstream from Otselic River.	-	-	8- 2-73	165
01512000 Tioughnioga River	Chenango River	Lat 42°14'19", long 75°50'47", Chenango County, at bridge on State Highway 12 in Chenango Forks, 0.2 mile upstream from mouth.	756	-	8- 1-73	205
01516000 Cayuta Creek	Susquehanna River	Lat 42°00'32", long 76°31'33", Tioga County, at bridge on Ithaca Street, Waverly.	140	1938-73	1-19-73 3-24-73 5-18-73 6-20-73	85 267 169 72
01524560 Canisteo River	Tioga River	Lat 42°16'19", long 77°35'45", Steuben County, at first bridge upstream from Canisteo Sewage Disposal area in Canisteo, and 0.6 mile upstream from Colonel Bills Creek.	-	-	7-11-73	*48

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

307

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Susquehanna River basin--Continued						
01525530 Canisteo River	Tioga River	Lat 42°10'42", long 77°21'50", Steuben County, at bridge on County Road 110 and 0.2 mile southwest of Cameron Mills.	-	-	7-10-73 9-12-73	*65 46
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 feet upstream from Tuscarora Creek and 1.5 miles downstream from Catherine Creek.		1970-73	3-15-73	2400
01526070 Canisteo River	Tioga River	Lat 42°06'24", long 77°13'55", Steuben County, 500 ft downstream from bridge on State Highway 17, and 0.2 mile upstream from Tuscarora Creek.	396	-	7-10-73 9-11-73	*73 *53
01528350 Cohocton River	Chemung River	Lat 42°18'44", long 77°16'41", Steuben County, at Morgan Bridge, 0.3 mile upstream from Stocking Creek, and 1.5 miles southeast of Bath.	-	-	7-12-73 9-12-73	*80 44
01529570 Cohocton River	Chemung River	Lat 42°12'23", long 77°09'53", Steuben County, at bridge on road through Curtis and 2.3 miles southwest of Campbell.	-	-	7-11-73 9-12-73	101 67
01530270 Chemung River	Susquehanna River	Lat 42°07'25", long 76°57'08", Chemung County, at bridge on County Highway 10, 200 ft downstream from unnamed tributary, 0.7 mile downstream from Steuben-Chemung County line, 1.0 mile southwest of Big Flats, and 3.2 miles upstream from Singsing Creek.	2,082	1967-69	3-16-73	6,860
Streams Tributary to Lake Erie						
04214480 Buffalo Creek	Buffalo River	Lat 42°50'41", long 78°40'37", Erie County, at bridge on Pound Road, 1.5 miles upstream from bridge in Blossom and, 2.3 miles downstream from bridge on Bowen Road in Elma.	-	1963	6-20-73 8-15-73	51 14
04215030 Cayuga Creek	Buffalo Creek	Lat 42°53'40", long 78°43'55", Erie County, at bridge on Rowley Road 1.2 mi southwest of Depew Sewage Plant.	-	-	6-20-73 8-15-73	27 *9.0
Streams Tributary to Lake Ontario						
04220462 East Valley Creek	Railroad Brook	Lat 42°09'51", long 77°47'14", Allegany County, at bridge on East Valley Road in Andover, and 0.4 mile upstream from mouth.	7.29	1972	10- 5-72 10-19-72 11- 2-72 11-16-72 11-30-72 12-14-72 1-10-73 2- 7-73 3- 7-73 3-21-73 4- 5-73 5- 3-73 5-30-73 6-29-73 7- 9-73 7-25-73 8- 9-73 8-23-73 9-21-73	1.7 2.0 22 16 13 18 2.8 7.4 20 16 37 16 8.1 1.1 *.90 .71 *.43 *.37 *.27

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Streams Tributary to Lake Ontario						
04221500 Genesee River	Lake Ontario	Lat 42°10'16", long 77°59'05", Allegany County, at bridge on Knight Creek Road at Scio.	331	-	7-18-73	*52
04221563 Genesee River	Lake Ontario	Lat 42°13'36", long 78°02'05", Allegany County, at bridge on State Highway 244 at Belmont.	-	-	7-17-73	*78
04222000 Caneadea Creek	Genesee River	Lat 42°23'14", long 78°09'45", Allegany County, on left bank at Caneadea, 800 ft upstream from unnamed tributary and 0.6 mile upstream from mouth.	62.0	1949-69	1-17-73 1-17-73	757 576
04222100 Genesee River	Lake Ontario	Lat 42°24'02", long 78°09'14", Allegany County, at bridge on Lattice Bridge Road, 1.0 mile north of Caneadea.	-	-	7-17-73	*98
04222532 Genesee River	Lake Ontario	Lat 42°27'48", long 78°06'13", Allegany County, at bridge on Snyder Hill Road 0.2 mile downstream from Cold Creek, 0.3 mile east of Fillmore, and 0.9 mile upstream from Rush Creek.	-	-	7-16-73	*115
04225050 Mud Creek	Canaseraga Creek	Lat 42°33'55", long 77°41'45", Livingston County, at footbridge in park in Dansville.	1.43	1972	10- 5-72 10-19-72 11- 2-72 11-16-72 11-30-72 12-14-72 2- 7-73 2-22-73 3- 6-73 8-21-73 4- 5-73 4-19-73 5-30-73 6-29-73 7- 9-73 7-25-73 8- 9-73 8-23-73 9-21-73	.45 .53 3.6 2.0 1.5 1.8 2.0 2.2 2.4 3.0 9.6 3.3 2.5 .80 *.83 182 *.82 *1.2 *1.9
04227995 Conesus Creek	Genesee River	Lat 42°50'10", long 77°42'22", Livingston County, at bridge on U.S. Highway 20A at Lakeville, and 0.2 mile downstream from Conesus Lake.	69.8	1964-65	3- 6-73 7-10-73	102 26
04228825 Briggs Gully Creek	Lake Ontario	Lat 42°43'21", long 77°30'08", Ontario County, at bridge on East Lake Road, 0.4 mile upstream from mouth, and 4.5 miles south of Honeoye.	6.63	1972	10- 5-72 10-19-72 11- 2-72 11-30-72 12-14-72 12-29-72 1-11-73 1-24-73 2- 7-73 2-22-73 3-17-73 3-21-73 4- 4-73 5- 3-73 5-31-73 6-28-73 7-11-73 7-25-73 8- 9-73 8-23-73 9-18-73	.04 .21 14 8.0 11 10 5.7 6.1 5.0 2.5 13 12 99 6.6 12 1.7 *.35 0 0 0 .71
04230055 Honeoye Creek	Genesee River	Lat 42°58'42", long 77°41'53", Monroe County, at bridge in West Rush 1.2 miles downstream from unnamed tributary, and 1.9 miles upstream from mouth.	264	-	10-14-72 11-21-72 2-14-73 3-14-73 4-24-73 5-30-73 7-11-73	33 306 110 537 206 265 38

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

309

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Streams Tributary to Lake Ontario (Continued)						
04230434 Oatka Creek	Genesee River	Lat 42°58'54", long 77°59'23", Genesee County, at foot bridge in LeRoy, and 0.3 mile downstream from State Highway 5.	-	-	7-31-73	*13
04230436 Oatka Creek	Genesee River	Lat 42°59'29", long 77°59'05", Genesee County, Sewage Treatment Plant, 0.1 mile north of LeRoy Village line and 1.1 miles downstream from State Highway 5.	-	-	7-31-73	*0.65
04230440 Oatka Creek	Genesee River	Lat 43°00'14", long 77°58'36", Genesee County, at bridge on North St. 0.9 mile north of LeRoy and 0.2 miles upstream from Buttermilk Falls.	-	-	6-14-73 7-30-73	14 0.0
04230446 Oatka Creek	Genesee River	Lat 43°00'50", long 77°57'18", Genesee County, at bridge on Perry Road 1.8 miles northeast of LeRoy.	-	-	7-30-73	*0.0
04230493 Oatka Creek	Genesee River	Lat 42°59'55", long 77°51'10", Monroe County, at bridge 0.5 mile downstream from State Highway 36 in Mumford.	-	-	7-31-73	42
04230540 Oatka Creek	Genesee River	Lat 43°01'09", long 77°44'56", Monroe County, at bridge on Canawagus Road, in Scottsville.	-	-	7-30-73	51
04233648 Fall Creek	Cayuga Lake	Lat 42°30'51", long 76°20'50", Tompkins County, at bridge on State Highway 38, at Freeville.	55.9	1963,1966, 1968	9-28-73	15
04233670 Virgil Creek	Fall Creek	Lat 42°29'04", long 76°17'34", Tompkins County, at bridge on East Lake Road at Dryden, and 0.7 mile upstream from Dryden Lake Outlet.	-	1964	9-26-73	3.4
04233692 Virgil Creek Tributary No. 2	Virgil Creek	Lat 42°29'47", long 76°18'52", Tompkins County, at bridge on Spring House Road, 0.2 mile upstream from mouth, and 0.9 mile northwest of Dryden.	-	-	9-26-73	.40
04233694 Virgil Creek	Fall Creek	Lat 42°29'45", long 76°19'44", Tompkins County, at bridge on George Road 0.6 mile southeast of Freeville, 1.6 miles west of Dryden, and 2.6 miles upstream from mouth.	-	-	9-26-73	*7.9
04236520 Skaneateles Creek	Seneca River	Lat 42°59'37", long 76°27'30", Onondaga County, at Depot Road bridge in Skaneateles Falls.	-	1971	10- 5-72	8.9
04236985 Skaneateles Creek	Seneca River	Lat 43°03'10", long 76°27'54", Onondaga County, at bridge on State Highway 31c, 0.85 miles south of Jordan.	-	1971	10- 5-72	16
04240188 Nine Mile Creek	Onondaga Lake	Lat 42°59'29", long 76°20'24", Onondaga County, at bridge on State Highway 174 in Marcellus.	-	-	6-26-73	*50
04240194 Ninemile Creek	Onondaga Lake	Lat 43°00'50", long 76°20'15", Onondaga County, at bridge on State Highway 174, in Martisco, and 0.2 mile upstream from railroad tracks of the Penn-Central Transportation Company.	-	-	5-21-73 6-26-73	195 *80
04240235 Ninemile Creek	Onondaga Lake	Lat 43°04'39", long 76°15'50", Onondaga County, at bridge on dead end road, 0.2 mile upstream from the Airport Road bridge.	-	-	5-21-73 6-26-73	249 *98
04249097 Salmon River	Lake Ontario	Lat 43°29'52", long 75°43'24", Lewis County, at bridge on State Highway 45 (Florence Road), in Osceola, and 0.5 mile downstream from Fall Brook.	-	-	11- 9-73	524

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Streams Tributary to Lake Ontario--Continued						
04249190 North Branch Salmon River	Salmon River Reservoir	Lat 43°34'09", long 75°49'35", Oswego County, at bridge on Harvest Mill Road, 0.4 mile downstream from Mad River, and 2.4 miles north of Redfield.	-	-	10-31-72	228
04250542 Skinner Creek Tributary	Skinner Creek	Lat 43°42'36", long 76°03'45", Jefferson County, at bridge on State Highway 11 at Mannsville, and 0.9 mile upstream from mouth.	-	-	9- 5-73	*0.21
04250756 Stony Creek Tributary	Stony Creek	Lat 43°52'28", long 76°00'45", Jefferson County, at bridge on town road 1.0 mile northwest of Adams Center, and 1.0 mile upstream from mouth.	-	-	9- 5-73	*0.27
04250990 Woodhull Creek	Black River	Lat 43°27'48", long 75°10'22", Oneida County, at bridge on town highway 2.2 miles northeast of Forestport, 2.4 miles upstream from Little Woodhull Creek, and 4.0 miles upstream from mouth and Forestport reservoir.	70.2	1966-67 1971-72	10-26-72 5-11-73	142 360
St. Lawrence River basin						
04263185 Indian River	Black Lake	Lat 44°11'00", long 75°38'21", Jefferson County, at bridge on Pleasant Street, 1.3 miles southwest of Antwerp, 2 miles downstream from bridge on State Highway 26, and 4.1 miles upstream from Hunter Creek.	-	-	8- 8-73	25
04263190 Indian River	Black Lake	Lat 44°10'15", long 75°39'41", Jefferson County, at bridge, 2.0 miles northeast of Philadelphia, 2.6 miles upstream from Hunter Creek, and 3.4 miles upstream from bridge on U.S. Highway 11.	-	-	5-30-73	327
04263200 Black Creek	Indian River	Lat 44°08'56", long 75°42'03", Jefferson County, at bridge on Poagland Road, 0.6 mile upstream from mouth, and 0.6 mile southeast of Philadelphia.	-	1967	9- 5-73	*12
04263210 Indian River	Black Lake	Lat 44°08'55", long 75°43'53", Jefferson County, at bridge on Sandy Hollow Road, 1.3 miles southwest of Philadelphia.	-	-	5-30-73 8- 8-73 9- 5-73	481 43 *19
04263220 West Creek	Indian River	Lat 44°05'20", long 75°48'35", Jefferson County, at bridge on County Highway 46 in Evans Mills, 100 feet upstream from Pleasant Creek, and 1.3 miles upstream from mouth.	-	-	9- 5-73	*2.1
04263225 Pleasant Creek	West Creek	Lat 44°05'12", long 75°47'36", Jefferson County, at bridge on Panchau Road, 0.7 mile east of Evans Mills, and 0.8 mile upstream from mouth.	-	-	9- 5-73	*6.5
04263235 Indian River	Black Lake	Lat 44°10'28", long 75°47'00", Jefferson County, at bridge on River Road at Kelsey Bridge, and 2.9 miles south of Theresa.	-	1960	9- 5-73	*31
04263270 Otter Creek	Indian River	Lat 44°10'47", long 75°46'19", Jefferson County, at bridge on Fink Road, 0.5 mile upstream from mouth, and 2.8 miles southeast of Theresa.	-	-	9- 5-73	0
04263290 Indian River	Oswegatchie River	Lat 44°12'58", long 75°47'30", Jefferson County, at bridge on State Highways 26 and 411 in Theresa.	-	-	5-29-73 8- 7-73	1,020 96
04263350 Indian River	Oswegatchie River	Lat 44°22'14", long 75°38'56", St. Lawrence County, at bridge on town road 0.2 mile east of county road 30a and 1.6 miles upstream from Rossie.	-	1967	3- 2-73 4- 6-73 5- 7-73 6- 4-73 7- 9-73 8- 6-73 9- 7-73	341 3,380 807 854 77 64 52

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

311

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
St. Lawrence River basin--Continued						
04263370 Mud Lake Outlet	Butterfield Lake	Lat 44°17'48", long 75°48'01", Jefferson County, at bridge on State Highway 37 in Redwood, and 0.3 mile upstream from mouth.	-	-	9- 5-73	*.12
04263440 Fish Creek	Black Lake	Lat 44°29'04", long 75°34'32", St. Lawrence County, at bridge on State Highway 184 in Pope Mills.	-	1967	3- 2-73 4- 6-73 5- 7-73 6- 4-73 7- 9-73	29 25 67 45 2.3
04263475 Black Lake	Oswegatchie River	Lat 44°31'15", long 75°35'30", St. Lawrence County; at bridge on State Highway 58 at Booths Island, and 0.4 mi southeast of Edwardsville.	-	-	3- 2-73 4- 6-73 5- 7-73 6- 4-73	738 2,170 980 1,800
04265475 South Pond Outlet	Raquette River	Lat 43°56'25", long 74°25'32", Hamilton County, at bridge on Buttermilk Falls Road, 0.2 mile upstream from mouth and 0.2 mile southwest of Deerland.	21.3	-	3- 1-73 4- 6-73 5- 4-73 6- 5-73 7- 5-73 8- 3-73 9-10-73	24 192 75 38 33 9.3 13
04265480 Shaw Brook	Long Lake	Lat 43°58'14", long 74°24'55", Hamilton County, at culvert on State Highway 28N, and 0.5 mile upstream from mouth.	5.55	-	3- 1-73 4- 5-73 5- 4-73 6- 5-73 7- 5-73 8- 2-73 9-10-73	5.4 22 13 11 7.4 5.4 4.0
04265483 Polliwog Pond Outlet	Long Lake	Lat 43°59'25", long 74°23'35", Hamilton County, at foot bridge on Northville- Lake Placid Trail, 0.5 mile upstream from mouth at Oven Point, and 1.8 miles northeast of Long Lake.	-	-	6- 6-73 7- 6-73 8- 2-73 9-11-73 9-11-73	1.50 .71 .82 .47 .51
04265486 Big Brook	Long Lake	Lat 44°00'10", long 74°28'53", Hamilton County, at bridge on State Highway 30, 3.5 miles northwest of Long Lake, and 4.1 miles upstream from mouth.	-	-	6- 6-73 7- 6-73 8- 3-73 9-11-73	53 43 67 14
04265490 Pine Brook	Long Lake	Lat 44°04'15", long 74°15'25", Essex County, at culvert on Wolf Lake Road, 3.6 miles upstream from mouth, and 8.3 miles northwest of Newcomb.	-	-	7- 5-73 8- 2-73 9-10-73	2.4 3.5 .95
04265495 Cold River	Raquette River	Lat 44°05'20", long 74°15'50", Essex County, at bridge at end of Wolf Lake Road, 0.1 mi downstream from Moose Creek, 3.7 miles upstream from mouth, and 9.6 miles northwest of Newcomb.	-	-	7- 5-73 8- 2-73 9-10-73	82 68 38
04266380 Raquette Pond Tributary	Raquette River	Lat 44°13'59", long 74°27'55", Franklin County, at culvert on State Highway 3, 0.1 mile upstream from mouth.	-	-	3- 1-73 4- 5-73 5- 4-73 6- 5-73 7- 5-73 8- 2-73 9- 6-73	.27 7.9 1.4 1.2 .88 1.6 1.4
04266385 Raquette Pond Tributary No. 2	Raquette River	Lat 44°14'31", long 74°28'55", Franklin County, at bridge in Faust 300 feet upstream from State Highway 3, and 0.7 mile upstream from mouth.	-	-	3- 1-73 4- 5-73 5- 3-73 6- 1-73 7- 5-73 8- 2-73 9- 6-73	20 99 62 61 24 50 13
04266610 Chandler Pond Outlet	Raquette River	Lat 44°19'32", long 74°43'25", St. Lawrence County, at culvert on State Highway 56, 0.2 mile upstream from mouth, and 1.8 miles north of Sevey.	-	-	3- 1-73 4- 5-73 5- 3-73 6- 1-73 7- 5-73 8- 2-73 9- 6-73 10- 4-73	2.4 18 7.5 8.4 8.4 2.4 6.9 2.5

* Base flow.

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
St. Lawrence River basin--Continued						
04266620 Crooked Lake Outlet	Raquette River	Lat 44°19'57", long 74°43'33", St. Lawrence County, at culvert on State Highway 56, 0.3 mile upstream from mouth and 2.5 miles north of Sevey.	-	-	3- 1-73	2.2
					4- 5-73	11
					5- 3-73	4.7
					6- 1-73	5.9
					7- 5-73	5.3
					8- 2-73	2.3
	9- 6-73	3.2				
04268355 Tributary No. 2	Upper St. Regis Lake	Lat 44°24'16", long 74°15'31", Franklin County, staff gage at culvert on State Highway 30, 2.0 miles south of Paul Smiths and 2.4 miles south of the junction of State Highways 30 and 192.	-	1972	10-26-72	.13
					4- 3-73	4.0
					4- 7-73	.97
					5-25-73	2.3
					6-18-73	.26
					7-19-73	.12
	9-18-73	1.2				
04268370 Lower St. Regis Lake Tributary	Lower St. Regis Lake	Lat 44°26'25", long 74°13'58", Franklin County, 54 ft upstream from bridge on State Highway I-92 in hamlet of Paul Smiths Easy Street, and 0.8 mile east of Paul Smiths.	-	1972	10-26-72	1.1
					11- 9-72	2.2
					3- 3-73	1.3
					3-13-73	1.9
					4- 3-73	2.9
					5-21-73	3.2
					6-18-73	1.7
					7-19-73	1.5
					8- 6-73	1.6
					9- 6-73	4.8
04268385 Black Pond outlet	Lower St. Regis Lake	Lat 44°25'56", long 74°17'56", Franklin County, staff gage on right bank, 62 ft upstream from dam on Black Pond, 70 ft upstream from Keese Mills Road, and 2.2 miles west of Paul Smiths.	-	1972	10-26-72	.91
					11- 9-72	4.7
					3-13-73	6.1
					4- 3-73	10
					5-10-73	4.8
					5-21-73	8.2
					6-18-73	4.0
					7-19-73	1.5
					8-14-73	.42
	9-18-73	2.9				
04269040 Deer River	St. Regis River	Lat 44°46'33", long 74°38'57", St. Lawrence County, at bridge on U.S. Highway 11 in Lawrenceville, 0.7 mile downstream from Foster Road, and 0.9 mile upstream from Kingston Brook.	-	1972	9-11-72	71
04270360 Standish Brook	Middle Kiln Brook	Lat 44°41'28", long 73°57'13", Clinton County, at bridge on unnamed town road in Standish.	-	-	9-11-73	*1.6
04270370 Separator Brook	Upper Chateaugay Lake	Lat 44°43'40", long 73°54'30", Clinton County, at bridge on Standish Road in Lyon Mountain.	-	-	9-11-73	*1.0
04270945 Great Chazy River	Lake Champlain	Lat 44°57'24", long 73°37'59", Clinton County, at bridge on Emory Road in Mooers Forks, and 0.1 mile upstream from North Branch Great Chazy River.	-	-	9-13-73	*8.5
04270955 North Branch Great Chazy River	Great Chazy River	Lat 44°51'55", long 73°53'38", Clinton County, at bridge on Brandy Brook Road at Ellenburg Center.	-	-	9-13-73	*5.0
04270960 North Branch Great Chazy River	Great Chazy River	Lat 44°53'30", long 73°50'28", Clinton County, at bridge on State Highway 190 in Ellenburg.	-	-	9-13-73	*6.4
04270995 North Branch Great Chazy River	Great Chazy River	Lat 44°57'23", long 73°38'32", Clinton County, at bridge on U.S. Highway 11 in Mooers Forks, and 0.5 mile from mouth.	-	-	9-12-73	*18
04271500 Great Chazy River	Lake Champlain	Lat 44°56'33", long 73°24'33", Clinton County, at bridge on State Highway 9B in Coopersville, 1.4 mi upstream from mouth, and 3.7 mi downstream from Champlain Sewage Treatment Plant.	300	-	3- 2-73	183
					4-10-73	709
					5- 4-73	528
					6- 5-73	1,010
					7-10-73	129
					8- 3-73	106
	9-11-73	41.				

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

313

Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
St. Lawrence River basin--Continued						
04271800 Little Chazy River	Lake Champlain	Lat 44°53'30", long 73°24'45", Clinton County, at bridge on Stetson Rd., 1.4 miles east of Chazy, and 2.2 miles upstream from mouth.	-	-	3- 2-73	34
					4-10-73	167
					5- 4-73	130
					6- 5-73	136
					7-10-73	38
					9-11-73	3.3
04271930 Ray Brook	Dead Creek	Lat 44°45'11", long 73°27'53", Clinton County, at bridge on Burke Road, 0.3 mile east of East Beekmantown.	-	-	9-12-73	*.88
04273005 Behan Brook	Saranac River	Lat 44°40'20", long 73°43'36", Clinton County, at bridge on Picketts Corners - Dannemora Rd., 0.75 mile north of Picketts Corners.	9.92	1947, 1954, 1966	3- 3-73	8.1
					4-10-73	25
					5- 4-73	14
					6- 5-73	34
					7-10-73	7.0
					9-11-73	3.5
04273700 Salmon River	Lake Champlain	Lat 44°37'35", long 73°26'55", Clinton County, at U.S. Highway 9 bridge about 2 miles east of South Plattsburgh.	66.0	-	3- 2-73	29
					4- 9-73	140
					5- 4-73	82
					6- 5-73	186
					7- 9-73	48
					9-10-73	21
04273795 Little Ausable River	Lake Champlain	Lat 44°34'41", long 73°31'37", Clinton County, at dam 20 ft downstream from bridge on State Highway 22 in Peru.	67.8	-	3- 2-73	25
					4- 9-73	111
					5- 3-73	52
					6- 4-73	56
					7- 9-73	22
					8- 2-73	14
					9-10-73	9.3
04276040 Ausable River	Lake Champlain	Lat 44°33'32", long 73°26'56", Clinton County, at U.S. Highway 9 (bridge) 1.1 miles northwest of Ausable Beach.	518	-	3- 3-73	290
					4- 9-73	1,190
					6- 4-73	927
					7- 9-73	430
04276208 Bouquet River	Lake Champlain	Lat 44°12'45", long 73°35'03", Essex County , at bridge on State Highway 9N at Elizabethtown.	-	1971	9-11-73	*14
04276218 The Branch	Bouquet River	Lat 44°13'00", long 73°35'31", Essex County, at bridge on State Highway 9N in Elizabethtown, 100 feet up- stream from Barton Brook, and 0.4 mile upstream from mouth.	-	-	9-11-73	*5.9
04276650 Hammond Brook	Lake Champlain	Lat 44°11'00", long 73°26'02", Essex County, at bridge on State Highway 22 and 9N in Westport, N.Y.	11.4	-	3- 3-73	11
					4- 9-73	30
					5- 3-73	17
					6- 4-73	20
					7- 9-73	9.0
					8- 2-73	5.5
					9-10-73	2.9
04276775 Mill Brook	Lake Champlain	Lat 44°03'10", long 73°27'25", Essex County, at bridge on Public Beach Road in Port Henry.	27.1	-	3- 3-73	25
					4- 9-73	97
					5- 3-73	45
					6- 4-73	52
					8- 2-73	16
04276800 McKenzie Brook	Lake Champlain	Lat 44°02'05", long 73°27'46", Essex County, at bridge on State Highways 9N and 22 in Port Henry.	10.3	-	4- 9-73	21
					5- 3-73	10
					6- 4-73	11
					7- 9-73	2.4
					8- 2-73	0.80
04279017 Ticonderoga Creek	Lake Champlain	Lat 43°50'47", long 73°24'33", Essex County, at State Highway 22 bridge below Ticonderoga.	-	-	11-14-72	1,000
04280400 Mettawee River	Champlain (Barge) Canal	Lat 43°24'25", long 73°15'45", Washington County, at bridge on State Highway 22 at Granville, and 1.0 mile upstream from Indian River.	-	1970	9-12-73	*19

* Base flow.

	Page		Page
A			
Accuracy of Data.....	12	Conesus Lake near Lakeville.....	202
Allegheny River at Salamanaca.....	179	Conewango Creek at Waterboro.....	180
Allegheny River basin, crest-stage partial-record stations in.....	293	Connetquot River near Oakdale.....	41
gaging-station records in.....	179-184	Cooperation.....	2
Allen Creek near Rochester.....	211	Cranberry Lake.....	230
Almond Lake near Almond.....	167	Crest-stage partial-record stations.....	290-297
Arkport Reservoir near Arkport.....	165	Croton River at New Croton Dam near Croton-on-Hudson.....	105
Ashokan Reservoir.....	107		
Ausable River, East Branch, at Au Sable Forks.....	273		
B			
Batten Kill at Arlington, Vt.....	61	D	
Beaver Kill at Cooks Falls.....	121	Data, other available.....	13
Beaver River, at Croghan.....	253	Deer River at North Lawrence.....	267
below Stillwater Dam, near Beaver River.....	253	Definition of terms and abbreviations.....	3-4
Beaver Swamp basin, discharge measurements at miscellaneous sites in.....	30	DeForest Lake at West Nyack.....	112
gaging-station records in.....	30	Delaware River, above Lackawaxen River near Barryville.....	131
Beaver Swamp Brook at Mamaroneck.....	30	at Montague, N.J.....	141
Bellmore Creek at Bellmore.....	46	at Port Jervis.....	135
Black Creek at Churchville.....	209	near Callicoon.....	128
Black River, at Watertown.....	254	East Branch, at Downsview.....	119
near Boonville.....	248	at Fishs Eddy.....	122
Black River Canal (flowing south) near Boonville.....	247	at Margaretville.....	116
Blind Brook at Rye.....	29	West Branch, at Hale Eddy.....	127
Blind Brook basin, discharge measurements at miscellaneous sites in.....	29	at Stilesville.....	124
gaging station records in.....	29	at Walton.....	123
Bond Creek at Dunham Basin.....	60	Delaware River basin, crest-stage partial-record stations in.....	292
Bronx River at Bronxville.....	33	discharge measurements at miscellaneous sites in..	145
Bronx River basin, gaging-station records in.....	33	diversions from.....	116-141
Buffalo Creek at Gardenville.....	187	gaging-station records in.....	142-144
Butternut Creek (tributary to Susquehanna River) at Morris.....	152	reservoirs in.....	142-145
Butternut Creek (tributary to Lake Ontario) near Jamesville.....	240	Delaware River basin, reservoirs and diversions.....	142-145
		Delta Reservoir.....	107-108
C			
Callicoon Creek at Callicoon.....	129	Diversions:	
Canacadea Creek near Hornell.....	168	Ashokan Reservoir.....	109
Canadarago Lake at Schuyler Lake.....	146	Black River canal (flowing south) near Boonville..	256
Canadice Lake near Hemlock.....	205	Cannonsville Reservoir.....	145
Outlet, near Hemlock.....	205	Delaware River basin.....	142-145
Canadaigua Lake at Canandaigua.....	219	Erie (Barge) Canal at lock 30, Macedon.....	195
Canadaigua Outlet at Chapin.....	220	Fall Creek near Ithaca.....	256
Canasawacta Creek near South Plymouth.....	156	Fish Creek, East Branch, at Taberg.....	256
Canaseraga Creek near Dansville.....	200	Glens Falls feeder at Dunham basin.....	59
Caneadea Creek at Caneadea Dam.....	197	Hackensack River basin.....	113
Canisteo River, at Arkport.....	166	Hinckley Reservoir.....	109
below Canacadea Creek, at Hornell.....	169	Hudson River Basin.....	107-109
Cannonsville Reservoir near Stilesville.....	142	Mamaroneck and Sheldrake Rivers.....	31
Carlls River at Babylon.....	44	Mohawk River at Crescent Dam.....	78
Carmans River at Yaphank.....	39	Neversink Reservoir.....	145
Carry Falls Reservoir.....	280	Pepacton Reservoir.....	145
Casper Creek near Wappingers Falls.....	100	Rondout Reservoir.....	109
Catskill Creek at Oak Hill.....	86	Schoharie Reservoir.....	109
Cattaraugus Creek at Gowanda.....	186	Streams Tributary to Lake Ontario.....	55-56
Cayuga Inlet near Ithaca.....	216	Susquehanna River basin.....	146-148
Cayuga Lake at Ithaca.....	217	Waneta Lake to Keuka Lake.....	173
Cazenovia Creek at Ebenezer.....	188	Watervliet Reservoir.....	109
Chadakofin River at Falconer.....	184	Downstream order and station numbers.....	6
Charlotte Creek at West Davenport.....	148		
Chateaugay River below Chateaugay.....	270	E	
Chautauqua Lake at Bemus Point.....	181	East Canada Creek at East Creek.....	71
at Celeron.....	182	East Meadow Brook at Freeport.....	47
near Mayville.....	183	East Sidney Lake below East Sidney.....	149
Chemung River at Chemung.....	177	Ellicott Creek below Williamsville.....	194
Chenango River at Sherburne.....	155	Erie (Barge) Canal at Lock 30, Macedon.....	195
near Chenango Forks.....	161	Erie, Lake, at Buffalo.....	189
Chestnut Creek at Grahamsville.....	92	Esopus Creek, at Coldbrook.....	89
Cliff Lake near Fowlersville.....	143-144	at Mount Marion.....	90
Coeymans Creek near Selkirk.....	84	at Shandaken.....	88
Cohocton River, at Cohocton.....	171	Explanation of surface-water data.....	7-12
near Campbell.....	175		
Cold Spring Brook, at Cold Spring Harbor.....	36	F	
Collection and computation of data.....	7-12	Fall Creek near Ithaca.....	218
		First Lake.....	255
		Fish Creek, East Branch at Taberg.....	237
		Fishkill Creek at Hopewell Junction.....	104
		Fivemile Creek near Kanona.....	172
		Flint Creek, at Phelps.....	222
		at Potter.....	221

	Page		Page
Fulton Chain of Lakes.....	255	Cranberry Lake.....	280
G		DeForest Lake at West Nyack.....	112
Gaging station records.....	28-280	Delaware River basin, Reservoirs in.....	112
Gaging stations, list in downstream order.....	IV-X	Delta Reservoir.....	107-108
Genesee River, at Avon.....	203	East Sidney Lake at East Sidney.....	149
at Portageville.....	198	Erie, Lake, at Buffalo.....	189
at Rochester.....	210	First Lake.....	255
at Wellsville.....	196	Fulton Chain of Lakes.....	255
near Mount Morris.....	201	George, Lake, at Rogers Rock.....	274
George, Lake, at Rogers Rock.....	274	Great Sacandaga Lake at Conklingville.....	51
Glen Cove Creek at Glen Cove.....	34	Hackensack River basin, Reservoirs in.....	112
Glens Falls feeder at Dunham Basin.....	59	Hinckley Reservoir.....	107-108
Grass River at Pyrites.....	261	Honeoye Lake near Honeoye.....	204
Great Sacandaga Lake at Conklingville.....	57	Hudson River basin, Reservoirs in.....	107-109
Green River at Williamstown, Mass.....	64	Indian Lake near Indian Lake.....	51
H		Keuka Lake at Hammondsport.....	214
Hackensack River, at Rivervale, N.J.....	111	Mount Morris Lake near Mount Morris.....	199
at West Nyack.....	110	Neversink Reservoir near Neversink.....	143
Hackensack River basin, crest-stage partial record		Oneida Lake at Brewerton.....	242
stations in.....	291-292	Onondaga Lake at Liverpool.....	236
discharge measurements at miscellaneous sites in.....		Onondaga Reservoir near Nedrow.....	227
diversions from.....	113	Ontario, Lake, at Oswego.....	245
gaging-station records in.....	101-111	Oradell Reservoir at Oradell.....	112
reservoirs in.....	112	Owasco Lake near Auburn.....	223
Hannacrois Creek near New Baltimore.....	85	Pepacton Reservoir near Downsville.....	142-144
Harbor Brook, at Hiawatha Boulevard, Syracuse.....	231	Placid, Lake, at Lake Placid.....	272
at Syracuse.....	230	Rondout Reservoir near Lackawack.....	107-108
Hinckley Reservoir.....	107-108	Rushford Lake at Canadea Dam.....	197
Hoosic River, near Eagle Bridge.....	67	Rushford Lake, change in contents.....	197
near Williamstown, Mass.....	63	St. Lawrence River basin, Lakes in.....	280
Honeoye Creek at Honeoye Falls.....	201	Schoharie Reservoir near Grand Gorge.....	74
Honeoye Lake near Honeoye.....	204	Seneca Lake at Watkins Glen.....	213
Housatonic River basin, crest-stage partial-record		Sixth Lake.....	255
stations in.....	290	Skaneateles Lake at Skaneateles.....	225
gaging-station records in.....	28	Stillwater Reservoir near Beaver River.....	251
Hudson River at Albany.....	80	Susquehanna River basin, Lakes and Reservoirs in.....	178
at Green Island.....	79	Swinging Bridge Reservoir near Fowlersville.....	142-144
at Hadley.....	54	Tappan Lake at Old Tappan, N.J.....	112
at North Creek.....	53	Toronto Reservoir near Black Lake.....	143
at Staatsburg.....	99	Whitney Point Lake at Whitney Point.....	160
near Newcomb.....	50	Woodcliff Lake at Hillsdale, N.J.....	112
Hudson River basin, crest-stage partial-record		Ley Creek at Park Street, Syracuse.....	232
stations in.....	290-291	Limestone Creek at Fayetteville.....	239
discharge measurements at miscellaneous sites in.....	297-303	List of gaging stations, in downstream order, for	
diversions from.....	109	which records are published.....	IV-X
gaging-station records in.....	50-106	Little Beaver Kill near Livingston Manor.....	120
low-flow partial-record stations for.....	286-288	Little Hoosic River at Petersburg.....	65
Hudson River basin, reservoirs and diversions.....	107-109	Little Salmon River at Bombay.....	269
Hunger Kill at Guilderland.....	81	Little Wappinger Creek at Salt Point.....	102
Hutchinson River at Pelham.....	32	Location of gaging stations (maps).....	20-27
Hutchinson River basin, gaging-station records in.....	32	Low-flow partial-record stations.....	281-289
Hydrologic conditions.....	14	M	
I		Mahwah River near Suffern.....	114
Independence River at Donnattsburg.....	250	Mamaroneck River at Mamaroneck.....	31
Indian Lake near Indian Lake.....	51	Mamaroneck River basin, discharge measurements at	
Indian River near Indian Lake.....	52	miscellaneous sites in.....	
Introduction.....	1	gaging-station records in.....	31
K		Massapequa Creek at Massapequa.....	45
Kayaderosseras Creek near West Milton.....	62	Meadow Brook at Hurlburt Road, Syracuse.....	241
Keuka Lake at Hammondsport.....	214	Measurements at miscellaneous sites.....	297-313
Keuka Lake Outlet at Dresden.....	215	Mill Brook near Dunraven.....	117
Keyser Kill water loss investigations.....		Mill Neck Creek at Mill Neck.....	35
L		Mohawk River, at Cohoes.....	77-78
Lackawaxen River at Hawley, Pa.....	132	below Delta Dam, near Rome.....	68
Lake George Outlet at Ticonderoga.....	276	near Little Falls.....	70
Lakes and reservoirs:		Mongaup River near Mongaup.....	134
Allegany Reservoir.....	185	Moordener Kill at Castleton-on-Hudson.....	83
Almond Lake near Almond.....	167	Moose River, Middle Branch, at Old Forge.....	249
Ashokan Reservoir.....	107	Mount Morris Lake near Mount Morris.....	199
Arkport Reservoir near Arkport.....	165	Mud Creek near Savona.....	174
Canadice Lake near Hemlock.....	205	N	
Canandaigua Lake at Canandaigua.....	220	Neversink River, at Godeffroy.....	140
Canadarago Lake (head of Oaks Creek) at		at Neversink.....	137
Schuyler Lake.....	146	at Oakland Valley.....	139
Cannonsville Reservoir near Stilesville.....	142	at Woodbourne.....	138
Carry Falls Reservoir.....	280	near Claryville.....	136
Cayuga Lake at Ithaca.....	217	Neversink reservoir near Neversink.....	143
Champlain, Lake, at Burlington, Vt.....	278	Newtown Creek at Elmira.....	176
Champlain, Lake, at Rouses Point.....	279	Niagara River at Buffalo.....	190
Chautauqua Lake at Bemus Point.....	181	Niagara River basin, crest-stage partial-record	
at Celeron.....	182	stations in.....	294
near Mayville.....	183	discharge measurements at miscellaneous sites in.....	
Cliff Lake near Fowlersville.....	143-144	gaging-station records in.....	190-195
Conesus Lake near Lakeville.....	202	low-flow partial-record stations for.....	
		Ninemile Creek, at Camillus.....	234
		at Lakeland.....	235
		near Marletta.....	233

	Page		Page
Nissequogue River near Smithtown.....	37	Saranac River at Plattsburgh.....	271
Normans Kill near Westmere.....	82	Saw Mill River at Yonkers.....	106
Northwest Bay Brook near Bolton Landing.....	275	Scajquada Creek at Buffalo.....	191
		Schoharie Creek, at Burtons ville.....	76
		at North Blenheim.....	75
		at Prattsville.....	73
		Schoharie Reservoir near Grand Gorge.....	14
		Selected references.....	75
		Seneca Lake at Watkins Glen.....	213
		Seneca River at Baldwinsville.....	226
		Sixth Lake.....	255
		Skaneateles Lake at Skaneateles.....	225
		Special networks and programs.....	6
		Sterling Creek at Sterling.....	212
		Stillwater Reservoir near Beaver River.....	251
		Streams on Long Island, gaging-station records In....	34-49
		low-flow partial-record stations for.....	281-285
		Streams Tributary to Lake Erie, crest-stage partial-	
		record stations In.....	293-294
		discharge measurements at miscellaneous sites In...	307
		gaging-station records In.....	186-189
		low-flow partial-records for.....	
		Streams Tributary to Lake Ontario, crest-stage	
		partial-records stations In.....	294-295
		Streams Tributary to Lake Ontario, discharge at	
		miscellaneous sites In.....	307-310
		diversions from.....	256
		gaging-station records In.....	196-254
		low-flow partial-record stations for.....	288-289
		Surface Water Records.....	7
		Susquehanna River basin, crest-stage partial-record	
		stations In.....	292-293
		discharge measurements at miscellaneous sites In...	305-307
		diversions from/to.....	178
		gaging-station records In.....	146-177
		low-flow partial-record stations for.....	288
		Susquehanna River basin, lakes and reservoirs In....	178
		Susquehanna River, at Conklin.....	154
		at Unadilla.....	151
		near Waverly.....	163
		Swan River at East Patchogue.....	40
		Swinging Bridge Reservoir near Fowlersville.....	142, 144

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