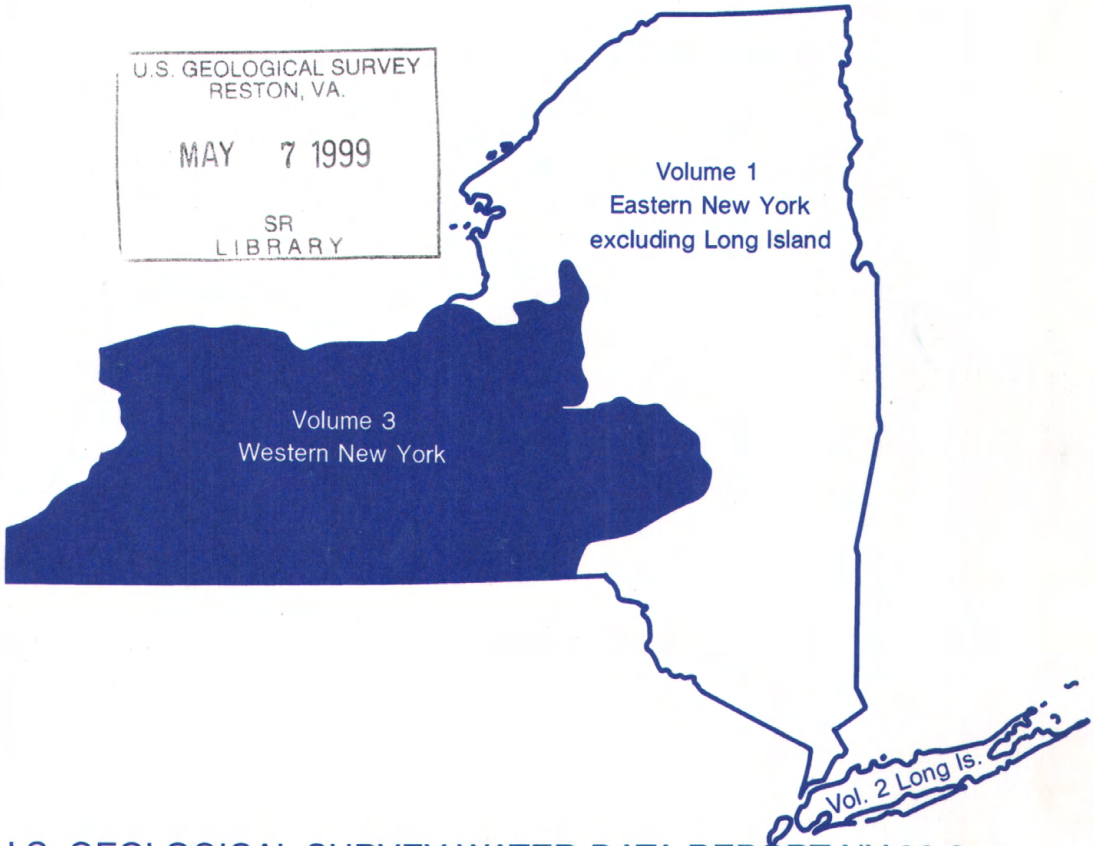
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Water Resources Data New York Water Year 1996

Volume 3. Western New York

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Prepared in cooperation with the State of New York
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CALENDAR FOR WATER YEAR 1996

1995

OCTOBER

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Water Resources Data New York Water Year 1996

Volume 3. Western New York

by J.F. Hornlein, C.O. Szabo, H.J. Zajd, Jr., and R. L. Mulks



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-96-3
Prepared in cooperation with the State of New York
and with other agencies

U.S. DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY

Gordon P. Eaton, Director

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District Chief, Water Resources Division
U.S. Geological Survey
425 Jordan Road
Troy, New York 12180

1996

PREFACE

This volume of the annual hydrologic data report of New York is one of a series of annual reports that document hydrologic data gathered from the U. S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for New York are contained in three volumes:

Volume 1. Eastern New York excluding Long Island
Volume 2. Long Island
Volume 3. Western New York

The data contained in these three volumes were collected, computed, and processed from three subdistrict offices and one area field office. The offices, and personnel in charge, are:

Volume 1. Albany, Ward O. Freeman, Associate District Chief
Potsdam, Howard G. Lent, Jr., Technician-in-charge
Volume 2. Syosset, Bronius Nemickas, Acting Subdistrict Chief
Volume 3. Ithaca, Edward F. Bugliosi, Subdistrict Chief

In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

W. F. Coon S. K. McInnes D. A. Sherwood D. S. Strohman
M. J. Welsh

This report was prepared in cooperation with the State of New York and with other agencies under the general supervision of L. Grady Moore, District Chief, New York.

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Water resources data for the 1996 water year for New York consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; water levels and water quality of ground-water wells; and quantity and chemical quality of precipitation. This volume contains records for water discharge at 67 gaging stations; stage only at 15 gaging stations; stage and contents at 6 gaging stations; water quality at 7 gaging stations, 9 wells, and 7 partial record stations; water levels at 17 observation wells; daily precipation totals at 2 sites, and chemical quality of precipitation at 3 sites. Also included are data for 45 crest-stage partial record stations. Locations of these sites are shown on figure 1. Additional water data were collected at various sites not involved in the systematic data collection program and are published as miscellaneous measurements. These data together with the data in Volumes 1 and 2 represent that part of the National Water Data System operated by the U. S. Geological Survey and cooperating State, local, and Federal agencies in New York.

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SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

NOTE.--Data for partial-record stations and miscellaneous sites for both surface-water discharge and quality are published in separate sections of the data report. See reference at the end of this list for page numbers for these sections.

[Letters after station name designate type of data collected: (d) discharge, (c) chemical, (b) biological, (m) microbiological, (t) water temperature, (s) sediment, (e) elevation, gage heights, or contents]

NORTH ATLANTIC SLOPE BASINS	Station number	Page
SUSQUEHANNA RIVER BASIN		
Susquehanna River:		
Ouleout Creek at East Sidney (d)	01500000	30
Susquehanna River at Conklin (d)	01503000	32
Tioughnioga River at Cortland (d)	01509000	34
Otselic River at Cincinnatus (d)	01510000	36
Chenango River near Chenango Forks (d)	01512500	38
Canisteo River at Arkport (d)	01521500	40
Canacadea Creek near Hornell (d)	01523500	42
Canisteo River below Canacadea Creek, at Hornell (d)	01524500	44
Tioga River near Erwins (d)	01526500	46
Cohocton River:		
Diversion from Waneta Lake to Keuka Lake at Keuka (d)	01528700	48
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Newtown Creek at Elmira (d)	01530500	53
Chemung River at Chemung (d)	01531000	55
Lakes and reservoirs in Susquehanna River basin (de)		57
Diversion of water affecting the Susquehanna River basin (d)		59
* * * * * * * *		
OHIO RIVER BASIN		
ALLEGHENY RIVER BASIN		
Allegheny River (head of Ohio River) at Salamanca (d)	03011020	60
Cassadaga Creek:		
Chautauqua Lake (head of Chadakoin River) at Bemus Point (e)	03013946	62
Chadakoin River at Falconer (d)	03014500	63
Lakes in Allegheny River basin (e)		65
* * * * * * * *		
ST. LAWRENCE RIVER BASIN		
Lake Erie:		
STREAMS TRIBUTARY TO LAKE ERIE		
Cattaraugus Creek at Gowanda (d)	04213500	66
Buffalo Creek (head of Buffalo River) at Gardenville (d)	04214500	74
Cayuga Creek near Lancaster (d)	04215000	76
Buffalo River:		
Cazenovia Creek at Ebenezer (d)	04215500	78
Lake Erie at Buffalo (e)	04215900	80
Niagara River at Buffalo (d)	04216000	81
Niagara River at Anderson Park, Buffalo (e)	04216060	83
STREAMS TRIBUTARY TO NIAGARA RIVER		
Black Rock Canal at Black Rock Lock, Buffalo (e)	04216218	84
Niagara River at Black Rock Lock, Buffalo (e)	04216220	85
Tonawanda Creek at Attica (d)	04216418	86
Tonawanda Creek at Batavia (d)	04217000	88
Murder Creek near Akron (d)	04217750	90
Tonawanda Creek at Rapids (d)	04218000	92
Ellicott Creek below Williamsville (d)	04218518	94
Erie (Barge) Canal at Lock 30, Macedon (d)	04219000	96

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME
(Continued)

	Station number	Page
ST. LAWRENCE RIVER BASIN--Continued		
ST. LAWRENCE RIVER MAIN STEM		
Lake Ontario:		
STREAMS TRIBUTARY TO LAKE ONTARIO		
Northrup Creek at North Greece (d)	0422026250	97
Genesee River at Wellsville (d)	04221000	104
Genesee River at Portageville (d)	04223000	106
Mount Morris Lake near Mount Morris (e)	04224000	108
Canaseraga Creek above Dansville (d)	04224775	109
Canaseraga Creek at Shakers Crossing (d)	04227000	111
Genesee River near Mount Morris (d)	04227500	113
Conesus Lake near Lakeville (e)	04227980	115
Genesee River at Avon (d)	04228500	116
Honeoye Creek at Honeoye Falls (d)	04229500	118
Oatka Creek at Warsaw (d)	04230380	120
Oatka Creek at Garbutt (d)	04230500	122
Genesee River at Ballantyne Bridge near Mortimer (e)	04230650	124
Black Creek at Churchville (d)	04231000	125
Genesee River at Rochester (d)	04232000	127
Irondequoit Creek at Railroad Mills, near Fishers, N.Y. (dct)	04232034	129
Allen Creek:		
East Branch Allen Creek at Pittsford (dct)	0423204920	136
Allen Creek near Rochester (dct)	04232050	143
Irondequoit Creek at Blossom Road, Rochester (dct)	0423205010	151
Irondequoit Creek at Empire Boulevard, Rochester (dct)	0423205025	160
Seneca River (head of Oswego River):		
Seneca Lake at Watkins Glen (e)	04232400	169
Keuka Inlet (Keuka Lake) at Hammondsport (e)	04232450	170
Keuka Lake Outlet at Dresden (d)	04232482	171
Cayuga Inlet near Ithaca (d)	04233000	173
Sixmile Creek at Bethel Grove (d)	04233300	175
Cayuga Inlet (Cayuga Lake) at Ithaca (e)	04233500	178
Fall Creek near Ithaca (d)	04234000	179
Clyde River:		
Great Brook below Victor (d)	04234232	181
Canandaigua Lake at Canandaigua (e)	04234500	183
Canandaigua Outlet at Chapin (d)	04235000	184
Owasco Lake near Auburn (e)	04235396	186
Owasco Outlet near Auburn (d)	04235500	187
Seneca River at Baldwinsville (d)	04237500	189
Onondaga Creek (head of Onondaga Lake Outlet):		
Tributary #6 below main mudboil depression area (dcs)	04237946	191
Onondaga Reservoir near Nedrow (e)	04238500	197
Onondaga Creek at Dorwin Avenue, Syracuse (d)	04239000	198
Onondaga Creek at Spencer Street, Syracuse (d)	04240010	200
Onondaga Lake:		
Harbor Brook at Syracuse (d)	04240100	202
Harbor Brook at Hiawatha Boulevard, Syracuse (d)	04240105	204
Ley Creek at Park Street, Syracuse (d)	04240120	206
Ninemile Creek near Marietta (d)	04240180	208
Ninemile Creek at Camillus (d)	04240200	210
Ninemile Creek at Lakeland (d)	04240300	212
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SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME
(Continued)

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ST. LAWRENCE RIVER BASIN--Continued		
Lake Ontario:--Continued		
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued		
Oneida River (Oneida Lake):		
Oneida Creek at Oneida (d)	04243500	215
Chittenango Creek:		
Limestone Creek:		
Butternut Creek near Jamesville (d)	04245200	217
Meadow Brook at Hurlburt Road, Syracuse (d)	04245236	219
Oneida Lake at Brewerton (e)	04246000	221
Oneida River at Caughdenoy (d)	04246500	222
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* * * * * * * *		

GROUND-WATER WELLS, BY COUNTY OR INDEPENDENT CITY, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

GROUND-WATER LEVELS

Cattaraugus County		
Local well number Ct 121	420530078445201	248
Chemung County		
Local well number Cm 46	420829076484801	250
Chenango County		
Local well number Cn 12	421556075281602	252
Cortland County		
Local well number C 102	423541076114701	254
Monroe County		
Local well number Mo 2	430855077304202	255
Local well number Mo 3	430854077304601	256
Local well number Mo 659	430932077311501	257
Local well number Mo 663	430912077313301	258
Local well number Mo 664	430912077313302	259
Local well number Mo 665	430928077313802	260
Local well number Mo 666	430928077313803	261
Local well number Mo 667	430928077314001	262
Local well number Mo 668	430928077314002	263
Niagara County		
Local well number Ni 70	431308078544501	264
Steuben County		
Local well number Sb 472	422445077203301	265
Wyoming County		
Local well number Wo 1	423739077595501	266
Local well number Wo 4	423743078070802	267
* * * * * * * *		
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Quantity of precipitation at miscellaneous sites		270
Quality of precipitation at miscellaneous sites		272
* * * * * * * *		

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in New York have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (*) after the station number are currently operated as crest-stage partial-record stations.

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only)]

Discontinued surface-water discharge or stage-only stations

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
SUSQUEHANNA RIVER BASIN			
Canadarago Lake at Schuyler Lake, NY (e)	01496450	65.0	1969-79
Oaks Creek at Index, NY (d)	01496500	102.0	1930-32, 1937-95
Cherry Valley Creek at Westville, NY (d)	01497000	81.4	1930-31, 1938-41
Susquehanna River at Colliersville, NY (d)	01497500	349.0	1907-09, 1924-68
Charlotte Creek at Davenport Center, NY (d)	01498000	164.0	1938-56
Charlotte Creek at West Davenport, NY (d)	01498500	167.0	1938-76
Otego Creek near Oneonta, NY (d)	01499000	108.0	1940-68
Flax Island Creek near Otego, NY (d)	01499050	4.22	1966-68
East Branch Handsome Brook at Franklin, NY (d)	01499470	9.12	1966-68
Susquehanna River at Unadilla, NY (d)	01500500 *	982.0	1938-95
Unadilla River near New Berlin, NY (d)	01501000	199.0	1924-68
Mill Brook at New Berlin, NY (d)	01501015	4.64	1974-81‡
Sage Brook near South New Berlin, NY (d)	01501500	0.70	1932-68
Butternut Creek at Morris, NY (d)	01502000	59.7	1938-95
Unadilla River at Rockdale, NY (d)	01502500 *	520.0	1930-33, 1937-95
Chenango River at Sherburne, NY (d)	01505000 *	263.0	1938-95
Canasawacta Creek near South Plymouth, NY (d)	01505500	57.9	1945-75
Chenango River at Greene, NY (d)	01507000 *	593.0	1937-70
Red Brook at Smithville Flats, NY (d)	01507470	7.06	1966-68
Genegantslet Creek at Smithville Flats, NY (d)	01507500	82.3	1938–70
Muller Gulf Creek near Cuyler, NY (d)	01507975	2.67	1966-68
Shackham Brook near Truxton, NY (d)	01508000	2.95	1932-68
Albright Creek at East Homer, NY (d)	01508500	6.81	1938-68
West Branch Tioughnioga River at Homer, NY (d)	01508803	71.5	1967-68,
Otter Creek at mouth at Cortland, NY (d)	01508962	14.3	1976-77
Gridley Creek above East Virgil, NY (d)	01509150	10.4	1974-81
Dudley Creek at Lisle, NY (d)	01509500	30.0	1938-40
Otselic River near Upper Lisle, NY (d)	01510500	217.0	1937-69
Tioughnioga River at Itaska, NY (d)	01511500 *	730.0	1930-67
Susquehanna River at Vestal, NY (d)	01513500 *	3,941.0	1937-67
East Branch Nanticoke Creek above Glen Aubrey, NY (d)	01513719	12.8	1976-78
East Branch Nanticoke Creek at Glen Aubrey, NY (d)	01513720	15.4	1976
Nanticoke Creek at Union Center, NY (d)	01513790	90.7	1975-78
Pumpelly Creek at Owego, NY (d)	01513840	8.59	1966-68
Owego Creek near Owego, NY (d)	01514000 *	185.0	1930-79
Dean Creek at Spencer, NY (d)	01514500	8.03	1954-60
Susquehanna River near Waverly, NY (d)	01515000 *	4,773.0	1937-95
Cayuta Creek near Alpine, NY (d)	01515500	17.6	1930-31
Tioga River at Lindley, NY (d)	01520500 *	771	1930-95

‡ No winter record.

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--continued

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
SUSQUEHANNA RIVER BASIN--continued			
Canisteo River at Hornell, NY (d)	01522000	93.7	1938-43
Karr Valley Creek at Almond, NY (d)	01522500	27.4	1937-68, 1973-86
Canacadea Creek at Hornell, NY (d)	01524000	58.5	1925-29
Bennett Creek at Canisteo, NY (d)	01525000	95.3	1938-47
Canisteo River at West Cameron, NY (d)	01525500 *	340.0	1930-31, 1937-70
Tuscarora Creek Tributary near Woodhull, NY (d)	01525750	9.43	1966-68
Tuscarora Creek near South Addison, NY (d)	01526000	114.0	1937-70
Mulholland Creek near Erwins, NY (d)	01526495	5.06	1966-68
Kirkwood Creek near Atlanta, NY (d)	01526980	4.65	1966-68
Cohocton River at Cohocton, NY (d)	01527000	52.2	1951-82
Switzer Creek near Cohocton, NY (d)	01527050	3.45	1979-81
Cohocton River at Avoca, NY (d)	01527500	157.0	1938-45
Fivemile Creek near Kanona, NY (d)	01528000	66.8	1937-95
Mud Creek near Savona, NY (d)	01529000	76.6	1918-20, 1937-82
Newtown Creek at Breesport, NY (d)	01530380	20.6	1975-79‡
ALLEGHENY RIVER BASIN			
Olean Creek near Olean, NY (d)	03010800 *	198.0	1958-68‡, 1976-81
Great Valley Creek near Salamanca, NY (d)	03011000	137.0	1951-68
Quaker Run near Quaker Bridge, NY (d)	03011550	28.5	1963-64‡
Conewango Creek below South Dayton, NY (d)	03012834	63.3	1975-78‡
Conewango Creek at Waterboro, NY (d)	03013000	290	1938-93
Ball Creek at Stow, NY (d)	03013800 *	9.06	1974
Chautauqua Lake at Celeron, NY (e)	03013980	189.0	1973
Chautauqua Lake near Mayville, NY (e)	03013990	189.0	1950-77
STREAMS TRIBUTARY TO LAKE ERIE			
Cattaraugus Creek near Arcade, NY (d)	04213410	79.0	1963-68
Franks Creek near West Valley, NY (d)	04213440	.28	1976-80
Franks Creek Tributary No. 4 near West Valley, NY (d)	04213441	.12	1976
Franks Creek Tributary No. 2 to Tributary No. 4 near West Valley, NY (d)	04213442	.002	1976-77
Franks Creek Tributary No. 3 to Tributary No. 4 near West Valley, NY (d)	04213443	.004	1976-77
Buttermilk Creek near Springville, NY (d)	04213450	30.0	1962-68
South Branch Cattaraugus Creek near Cattaraugus, NY (d)	04213492	70.4	1969, 1980-82
Cattaraugus Creek at Versailles, NY (d)	04214000	466.0	1915-23
Cattaraugus Creek below Irving, NY (e)	0421402001	554	1985-93
Eighteenmile Creek at North Boston, NY (d)	04214200	37.2	1963-68
Buffalo Creek near Wales Hollow, NY (d)	04214400	76.9	1963-68
ST. LAWRENCE MAINSTEM			
Black Rock Canal at Porter Avenue, Buffalo, NY (e)	04216052	263,700	1984-94

‡ No winter record.

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--continued

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
STREAMS TRIBUTARY TO NIAGARA RIVER			
Scajaquada Creek at Buffalo, NY (d)	04216200	15.4	1957-94
Little Tonawanda Creek at Linden, NY (d)	04216500 *	22.1.0	1912-19
			1920-68,
			1977-92
Tonawanda Creek near Alabama, NY (d)	04217500	231.0	1956-89
Black Creek near Swormville, NY (d)	04218190	12.9	1978-80
Ellicott Creek at Milgrove, NY (d)	04218450	40.8	1963-68
Ellicott Creek at Williamsville, NY (d)	04218500	76.2	1956-73
Donner Brook near Lockport, NY (d)	04218592	3.84	1978-79‡
STREAMS TRIBUTARY TO LAKE ONTARIO			
Oak Orchard Creek near Elba, NY (d)	04219930	21.9	1974-79‡
Manning Muckland Creek near Barre Center, NY (d)	04219940	5.80	1974-79‡
West Creek near Hilton, NY (d)	04220250	31.0	1957-64
Dyke Creek near Andover, NY (d)	04220470	38.0	1964-68
Dyke Creek at Wellsville, NY (d)	04220500	72.1	1955-60
Genesee River at Scio, NY (d)	04221500	308.0	1916-72
Van Campen Creek at Friendship, NY (d)	04221600	45.9	1964-68
Angelica Creek at Transit Bridge, NY (d)	04221720	86.7	1964-68
Genesee River at Belfast, NY (d)	04221820	644.0	1964-67
Caneadea Creek at Caneadea, NY (d)	04222000	62.0	1949-68
Lost Nation Brook near Centerville, NY (d)	04222500	1.21	1934-35
East Koy Creek at East Koy, NY (d)	04222900	46.5	1964-68
Genesee River at St. Helena, NY (d)	04223500	1,019.0	1947-50
Canaseraga Creek near Canaseraga, NY (d)	04224650	58.4	1964-68
Canaseraga Creek near Dansville, NY (d)	04225000	152.0	1919-68 ,
			1970-77
Canaseraga Creek at Cumminsville, NY (d)	04225005	155.0	1910-13,
			1915-17,
			1918-19
Canaseraga Creek at Groveland, NY (d)	04225500	180.0	1915-20 ,
			1956-64
Keshequa Creek at Craig Colony, Sonyea, NY (d)	04226000	68.3	1917-32,
			1975-78
Keshequa Creek near Sonyea, NY (d)	04226500	68.4	1915-17
Keshequa Creek at mouth at Sonyea, NY (d)	0422660005	69.0	1911-14
Conesus Creek near Lakeville, NY (d)	04228000	72.0	1920-34
Honeoye Lake near Honeoye, NY (e)	04228845	41.0	1962-63,
			1965-95
Springwater Creek at Springwater, NY (d)	04228900	10.1	1964-68
Genesee River below Erie Canal at Rochester, NY (d)	04231500	2,457.0	1904-05,
			1905-18
Irondequoit Creek near Pittsford, NY (d)	04232040	44.4	1980-91
Thomas Creek at Fairport, NY (d)	04232046	28.5	1980-90
Irondequoit Creek at Linden Avenue, East Rochester, NY (d)	04232047	101.0	1973-89
Irondequoit Creek at Wetland Narrows at Rochester, NY (d)	0423205023	144.0	1981-84
Sterling Creek at Sterling, NY (d)	04232100	44.4	1957-95
Catharine Creek at Montour Falls, NY (d)	04232200 *	41.1	1975-78‡
Kendig Creek near MacDougall, NY (d)	04232630 *	13.8	1965-68

‡ No winter record.

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS--continued

Station name	Station number	Drainage area (mi^2)	Period of record (water years)
STREAMS TRIBUTARY TO LAKE ONTARIO--continued			
Dryden Lake Inlet near Harford, NY (d)	04233678	2.73	1973-75
Virgil Creek at Freeville, NY (d)	04233700	40.3	1973-76
Salmon Creek at Ludlowville, NY (d)	04234018	81.7	1965-68
Canoga Creek at Canoga, NY (d)	04234055	3.20	1965-68
Mud Creek at East Victor, NY (d)	04234200 *	64.2	1958-68
Red Creek near Walworth, NY (d)	04234270	23.8	1965-69
Flint Creek at Potter, NY (d)	04235150	31.0	1964-68 , 1971-79
Flint Creek at Phelps, NY (d)	04235250	102.0	1960-95
Clyde River at Lock 26 Clyde, NY (d)	04235271	845.0	1935-67
Black Brook at Tyre, NY (d)	04235276	19.0	1985-95
Owasco Inlet at Moravia, NY (d)	04235300	106.0	1960-68
Skaneateles Lake at Skaneateles, NY (e)	04236000	72.7	1968-95
Skaneateles Creek at Willow Glen, NY (d)	04236500	75.8	1895-1908
Onondaga Creek Trib. #6 above main mudboil depression area (d)	04237944	0.32	1991-94
Onondaga Creek at Syracuse, NY (d)	04239500	95.0	1940-49
Onondaga Creek at Temple Street Syracuse, NY (d)	04240000	104.0	1949-51
Spafford Creek at Bromley Road near Spafford, NY (d)	04240145	3.14	1982-84
Spafford Creek at Sawmill Road near Spafford, NY (d)	04240150	8.06	1982-83, 1986
Rice Brook at Rice Grove, NY (d)	0424015305	2.64	1982-83
Willow Brook at Lader Point, NY (d)	0424016205	3.73	1982-83
Amber Brook at Amber, NY (d)	0424016825	3.75	1982-83
Van Benthuysen Brook near Amber, NY (d)	0424016975	5.84	1982-83
West Branch Fish Creek at Blossvale, NY (d)	04241200	204.0	1966-68
East Branch Fish Creek at Fish Creek near Constableville, NY (d)	04241500	74.3	1924-32
East Branch Fish Creek at Taberg, NY (d)	04242500	188.0	1923-95
Chittenango Creek near Chittenango, NY (d)	04244000	66.3	1950-68
Limestone Creek at Fayetteville, NY (d)	04245000	85.5	1940-86
Butternut Creek below Dewitt, NY (d)	04245250	58.6	1964-66
Scriba Creek near Constantia, NY (d)	04245840 *	38.4	1966-68
Lake Ontario at Oswego, NY (e)	04249010	295,800.0	1860-95

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following stations were discontinued as continuous-record surface-water-quality stations. Daily records of temperature, specific conductance, or sediment were collected and published for the record shown for each station.

[Type of record: Temp. (temperature), S.C. (specific conductance), Sed. (sediment).]

Discontinued continuous-record surface-water-quality stations

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
SUSQUEHANNA RIVER BASIN				
Unadilla River at Rockdale, NY	01502500	520.0	Temp.	1957
Susquehanna River at Conklin, NY	01503000	2,232.0	Temp.	1955
Chenango River at Greene, NY	01507000	593.0	Temp.	1957
Tioughnioga River at Cortland, NY	01509000	292.0	Temp. S.C.	1956-92
Susquehanna River at Johnson City, NY	01513110	3,891.0	Temp.	1956-92
Susquehanna River at Vestal, NY	01513500	3,941.0	Temp.	1961-62, 1966, 1968
Tioga River at Lindley, NY	01520500	771.0	Temp. Sed., S.C.	1975-81, 1975-77
Canisteo River at West Cameron, NY	01525500	340.0	Temp.	1957
Cohocton River at Cohocton, NY	01527000	52.2	Sed.	1980
Switzer Creek near Cohocton, NY	01527050	3.46	Sed.	1979-80
ALLEGHENY RIVER BASIN				
Allegheny River at Red House, NY	03011500	1,690.0	Temp.	1954-56
STREAMS TRIBUTARY TO LAKE ERIE				
Cattaraugus Creek at Gowanda, NY	04213500	436.0	Temp., S.C.	1978-81
Buffalo Creek at Gardenville, NY	04214500	142.0	Temp.	1962
STREAMS TRIBUTARY TO NIAGARA RIVER				
Tonawanda Creek at Batavia, NY	04217000	171.0	Temp., S.C	1978-81
Erie (barge) Canal at Lock 35 at Lockport, NY	04218600	--	Temp.	1962
Erie (barge) Canal (west of Genesee River) at Rochester, NY	04218700	--	Temp.	1962
Niagara River at Niagara Falls, NY	04219350	--	Temp.	1959
Niagara River at Fort Niagara, NY	04219640	265,000.0	Temp., S.C.	1973-80
STREAMS TRIBUTARY TO LAKE ONTARIO				
Genesee River at Wellsville, NY	04221000	288.0	Sed.	1975-77
Genesee River at Scio, NY	04221500	308.0	Temp.	1955
Van Campen Creek at Friendship, NY	04221600	45.9	Temp.	1964-67
Genesee River at Portageville, NY	04223000	984.0	Sed.	1975-77
Canaseraga Creek at Canaseraga, NY	04224650	58.4	Temp.	1964-67
Canaseraga Creek at Groveland, NY	04225500	180.0	Temp.	1961
Canaseraga Creek at Shakers Crossing, NY	04227000	335.0	Sed.	1975-77
Genesee River at Mount Morris, NY	04227500	1,424.0	Temp., Sed.	1955-56, 1975-77
Genesee River at Avon, NY	04228500	1,673.0	Sed.	1975-77
Oatka Creek at Garbutt, NY	04230500	200.0	Temp., Sed.	1960-61, 1975-77
Black Creek at Churchville, NY	04231000	130.0	Temp.	1962
Genesee River at Rochester, NY	04232000	2,467.0	Temp., Sed.	1955-71, 1975-77
Cayuga Lake Trib. No. 6 at Interlaken, NY	04234035	--	Temp.	1965
Canoga Creek at Canoga, NY	04234055	3.20	Temp.	1965
Seneca River at Baldwinsville, NY	04237500	3,138.0	Temp.	1958-75
Spafford Creek at Bromley Road near Spafford, NY	04240145	3.14	Sed.	1981-83
Spafford Creek at Sawmill Road near Spafford, NY	04240150	8.06	Sed.	1981-83

DISCONTINUED SURFACE-WATER-QUALITY STATIONS--continued

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
STREAMS TRIBUTARY TO LAKE ONTARIO--continued				
Rice Brook at Rice Grove, NY	0424015305	2.44	Sed.	1981-83
Willow Brook at Lader Point, NY	0424016205	3.73	Sed.	1981-83
Amber Brook at Amber, NY	0424016825	3.69	Sed.	1981-83
Van Benthuysen Brook near Amber, NY	0424016975	5.84	Sed.	1981-83
East Branch Fish Creek at Taberg, NY	04242500	188.0	Temp., S.C.	1966-67
Butternut Creek near Jamesville, NY	04245200	32.2	Temp., S.C.	1966-67
Chittenango Creek at Bridgeport, NY	04245500	--	Temp.	1967-69
Scriba Creek near Constantia, NY	04245840	38.4	Temp., S.C.	1966-67
Oneida River at Caughdenoy, NY	04246500	1,382.0	Temp.	1958
Oswego River at Lock 7, Oswego, NY	04249000	5,100.0	Temp., S.C.	1975-81

WATER RESOURCES DATA - NEW YORK, 1996
Volume 3.--Western New York

INTRODUCTION

Water resources data for the 1996 water year for New York consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs, and water levels of ground-water wells. This volume contains records for water discharge at 67 gaging stations; stage only at 15 gaging stations; stage and contents at 6 gaging stations; water quality at 7 gaging stations, 9 wells, and 7 partial-record stations; water levels at 17 observation wells; daily precipitation totals at 3 sites, and chemical quality of precipitation at 3 sites. Also included are data for 45 crest-stage partial-record stations. Locations of these sites are shown on figure 1. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as measurements made at miscellaneous sites. These data together with the data in Volumes 1 and 2 represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State, local, and Federal agencies in New York.

Records of discharge and stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961–65 and 1966–70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from the Distribution Branch, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Streamflow and water-quality data beginning with the 1971 water year, and ground-water data beginning with the 1975 water year are published only in reports on a State-boundary basis. Beginning with the 1975 water year, these Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report NY–96–3." These water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (518) 285–5600.

COOPERATION

The U.S. Geological Survey and organizations of the State of New York and other agencies have had cooperative agreements for the systematic collection of water records since 1900. Organizations that assisted in collecting data included in Volume 3, water year 1996, through cooperative agreement with the Survey are:

New York State Department of Environmental Conservation
New York State Department of Transportation
New York State Thruway Authority
County of Chautauqua, Planning Department
County of Monroe, Department of Health
County of Monroe, Division of Engineering
County of Monroe, Water Authority
County of Onondaga, Department of Drainage and Sanitation
County of Onondaga, Water Authority Commission
City of Auburn
City of Ithaca
City of Syracuse
Town of Amherst, Erie County
Town of Cheektowaga, Erie County
Irondequoit Bay Pure Waters District
Village of Victor

Assistance in the form of funds for collecting records at gaging stations published in this report was also given by the U.S. Army Corps of Engineers, Onondaga Lake Management Conference, and U.S. Environmental Protection Agency.

The following organizations aided in collecting records:

Municipalities of Batavia, Canandaigua, Jamestown, Lancaster, Oneida, Rochester, Syracuse; Cornell University; New York State Electric and Gas Corporation; Niagara Mohawk Power Corporation; Rochester Gas and Electric Corporation.

Organizations that supplied data are acknowledged in station descriptions

SUMMARY OF HYDROLOGIC CONDITIONS[1]

Surface Water

Streamflow throughout western New York during the 1996 water year ranged from normal to excessive (upper 25 percent of the record) during October to February, was deficient (lower 25 percent of the record) during March, and ranged from normal to excessive from April through September. Annual mean discharges throughout western New York were above normal (table 1). Departures from the median discharges at two index stations—Susquehanna River at Conklin and Allegheny River at Salamanca—are shown in figures 2 and 3.

Table 1.--Comparison of 1996 water year mean discharges with mean annual discharges for the period of record for selected streams
[Locations are shown in fig. 4. Discharges are in cubic feet per second.]

	Station	Period of record	Mean annual discharge for period of record	1996 water year mean discharge	Percent difference
01503000	Susquehanna River at Conklin	1913–95	3,577	4,436	+ 24.0
01531000	Chemung River at Chemung	1906–13, 1915–95	2,569	3,603	+ 40.2
03011020	Allegheny River at Salamanca	1904–95	2,781	3,371	+ 21.2
04213500	Cattaraugus Creek at Gowanda	1940–95	741	935	+ 26.2
04217000	Tonawanda Creek at Batavia	1944–95	211	273	+ 29.4
04221000	Genesee River at Wellsville	1955-58, 1973-95	388	523	+ 34.8
04234000	Fall Creek near Ithaca	1926–95	186	244	+ 31.2

The 1996 water year began with above-normal temperatures and precipitation. October 1995 was the wettest October statewide since record keeping began in 1895. Streamflow in October rose into the normal range at most monitored sites. This was the first time in 6 months that mean flows were in the normal range at Susquehanna River at Conklin and the first time in 8 months at Genesee River at Wellsville. In November, precipitation in western New York continued to be above normal; precipitation in some parts of the State fell as snow, and record amounts of snowfall were recorded at Syracuse, Rochester, and Binghamton. Streamflow in November remained normal throughout most of the western part of the State except for the Western Plateau, where flows increased into the excessive range..

Table 2.--Rank of January 1996 mean discharge in relation to period-of -record mean discharges for January for selected streams.
[Locations are shown in fig. 4.]

	Station	January 1996 mean discharge (ft^3/s)	nth highest monthly mean for period-of-record January mean discharges	Years of record
01503000	Susquehanna River at Conklin	9,683	2nd	82
01531000	Chemung River at Chemung	8,569	1st	90
03011020	Allegheny River at Salamanca	7,296	5th	93
04213500	Cattaraugus Creek at Gowanda	1,618	3rd	57
04217000	Tonawanda Creek at Batavia	552	1st	53
04221000	Genesee River at Wellsville	1,263	1st	28
04234000	Fall Creek near Ithaca	543	1st	71

Low temperatures and below-normal precipitation occurred in most of western New York during December. Lake-effect snowstorms resulted in above-average snowfall in parts of the Lake Erie and Lake Ontario snowbelts. Streamflow either remained normal or decreased into the normal range throughout most of the State.

Below-average temperatures and above-normal snowfall continued throughout western New York during the first half of January. On January 18-19, warm temperatures and heavy rainfall resulted in rapid snowmelt across the State. Temperatures reached from the mid 50's to upper 60's on January 18. The resulting snowmelt and associated ice breakup created ice jams and flooding across western New York. The worst flooding was on January 19 and 20. Overall, New York received 175 percent of the normal precipitation expected during January. Streamflow increased into the excessive range at many monitoring sites. The highest monthly mean discharges on record for January were recorded at Chemung River at Chemung, Tonawanda Creek at Batavia, Genesee River at Wellsville, and Fall Creek near Ithaca (table 2).

Most of western New York was drier and colder than normal during February. Streamflow at most monitored sites decreased from the excessive range to the normal range. Below-normal temperatures continued into March. Monthly snowfall totals were greater than normal across the western part of the State. Despite the excessive amounts of snow, precipitation totals for March were below normal. Statewide, March precipitation was 74 percent of the normal. As a result, streamflow declined into the normal-to-deficient range at all monitored sites.

Precipitation during April was 160 percent of the normal, making this month the fourth wettest April on record. In some areas, much of the precipitation came as snow. More than 131 inches of snow at Binghamton broke the city's seasonal snowfall record. Streamflow was normal throughout western New York.

May was the third consecutive month with below-normal temperatures. Precipitation was above normal, and snow fell across some parts of the State. Ithaca received 1.3 inches of snow on May 12— the most ever for that late in the season. After 2 consecutive months of above-normal precipitation, streamflow at most monitored sites increased into the excessive range. The second-highest monthly mean discharge on record for May was recorded at Susquehanna River at Conklin, and the third-highest monthly mean discharges were recorded at Chemung River at Chemung and Tonawanda Creek at Batavia. Mild weather with slightly above-average precipitation prevailed throughtout western New York during June. Streamflow at monitored sites in the Great Lakes drainage remained excessive, whereas flows in the rest of western New York returned to normal.

Cool weather returned to the State during July. Precipitation was well above normal statewide but varied locally across western New York. Most of the precipitation fell over the eastern part of the Central Lakes as the remants of Hurricane Bertha passed through New York; as a result, streamflow in these areas was in the excessive range. Precipitation in August was also widely varied across the State, but streamflow remained generally constant.

Table 3.--Comparison of monthly mean discharges for water year 1996 at selected sites with normal monthly discharges .
[Locations are shown in fig. 4.]

			Monthly discharge as a percentage of normal monthly discharges			
	Station	Period of record used	June	July	Aug.	Sep.
01503000	Susquehanna River at Conklin	1913–95	145	295	203	153
01531000	Chemung River at Chemung	1915–95	118	119	117	392
03011020	Allegheny River at Salamanca	1904–95	93	105	90	473
04213500	Cattaraugus Creek at Gowanda	1940–95	185	141	150	207
04217000	Tonawanda Creek at Batavia	1944–95	289	166	114	312
04221000	Genesee River at Wellsville	1955-58, 1973-95	64	61	70	280
04234000	Fall Creek near Ithaca	1925–95	130	246	331	214

Warm, wet conditions prevailed throughout the State during September. Precipitation averaged 141 percent of normal statewide, making this the 10th wettest September on record. The Great Lakes basins were the wettest regions in the State. Streamflow during September was excessive at almost all monitored sites. Total precipitation for the January-through-September period was the greatest on record for New York State.

Water Quality

Water-quality data from Cattaraugus Creek at Gowanda (location shown in fig. 4.) were collected and analyzed as part of the USGS NAWQA project in the Lake Erie-Lake St. Clair Basin. Objectives of the NAWQA program are to broadly characterize the quality of water in the Nation's streams and aquifers in relation to human and natural factors. This project is one of 60 river-basin and aquifer-assessment projects being implemented across the nation. The period of intensive data collection for the Lake Erie-Lake St. Clair Basin projects is water years 1996-98.

Water samples from the Tully Valley mudboil/depression area (MDA) indicated a continued increase in sediment loading to Onondaga Creek— from 1.8 tons per day in 1995 to 4.7 tons per day in 1996. The increased rate is due to (1) heavier-than-normal precipitation, which increased the artesian ground-water pressure that drives mudboil activity, and (2) the MDA impoundment becoming nearly filled with mudboil sediment. The MDA is still functioning though, as pre-impoundment loadings averaged 29.8 tons per day in 1992. Water-quality data indicate that water discharging from the MDA is from the confined fresh- and brackish-water aquifers; these data also indicate an increase in specific conductance and chloride concentrations in the MDA discharge. This trend may be indicative of a longer term change in the quality of both confined aquifers in response to the cessation of brine withdrawals from the solution-salt mining field at the southern end of the Tully Valley.

Samples of atmospheric deposition, ground water, and surface water were collected at several sites throughout Monroe County for chemical analyses (locations shown in fig. 4). Results indicated no significant changes in concentrations from previous years. Values were within the historical range of the individual stations' period of record. Water samples were analyzed by the Monroe County Environmental Health Laboratory (in Rochester, N.Y.), which participates in the USGS Standard Reference Water Sample (SRWS) program.

Ground Water

Ground-water levels were below normal in September 1995 and remained below normal through October, despite record breaking precipitation. Continued above-average precipitation, combined with decreased evapotranspiration at the end of the growing season, caused ground-water levels to rise to above normal in November. Water levels in western New York fell during December in response to low temperatures and below-normal precipitation. Unseasonably warm temperatures and heavy rainfall during the middle of January produced a severe snowmelt, causing ground-water levels to rise to above normal. Water levels during February and March showed minimal response to snowmelt, and water levels in most observation wells remained relatively constant after receding from the levels reached during the January recharge period. Above-normal precipitation in April caused water levels to rise once again. Warm, wet weather continued through May, producing the highest water levels of the 1996 water year at 10 of 17 observation wells in western New York. Precipitation remained slightly above normal during June, but water levels declined as evapotranspiration increased during the growing season. Water levels declined steadily through the summer at most observatiuon wells. The lowest water levels for the 1996 water year were recorded at 8 of 17 observation wells in western New York during September.

[1] Climatological data used in this summary are from monthly weather summaries published by the Northeast Regional Climate Center, Cornell University, Ithaca, N.Y.

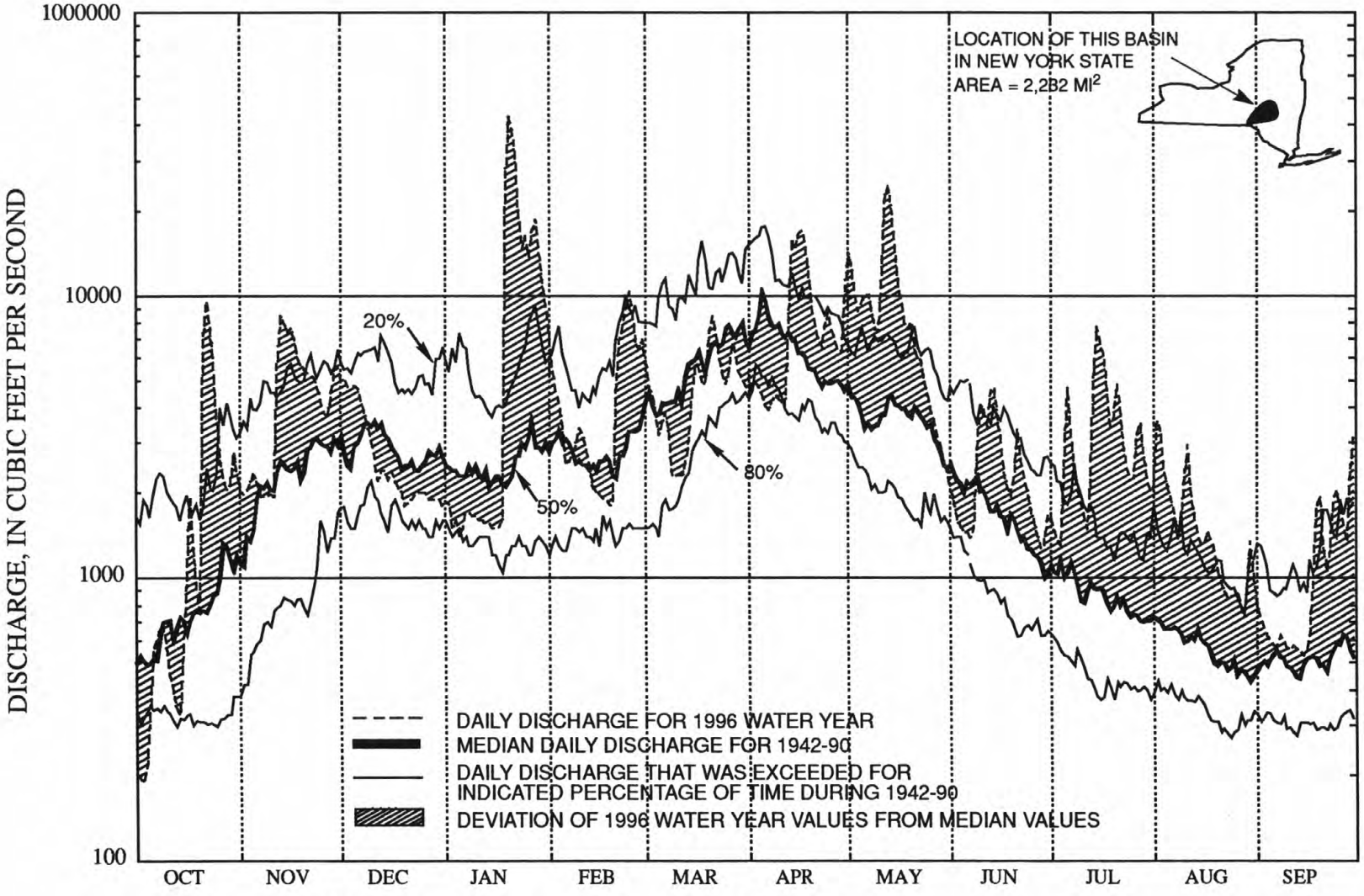


Figure 1.--Comparison of discharge at Susquehanna River at Conklin during 1996 water year with median discharge for 1942-90.

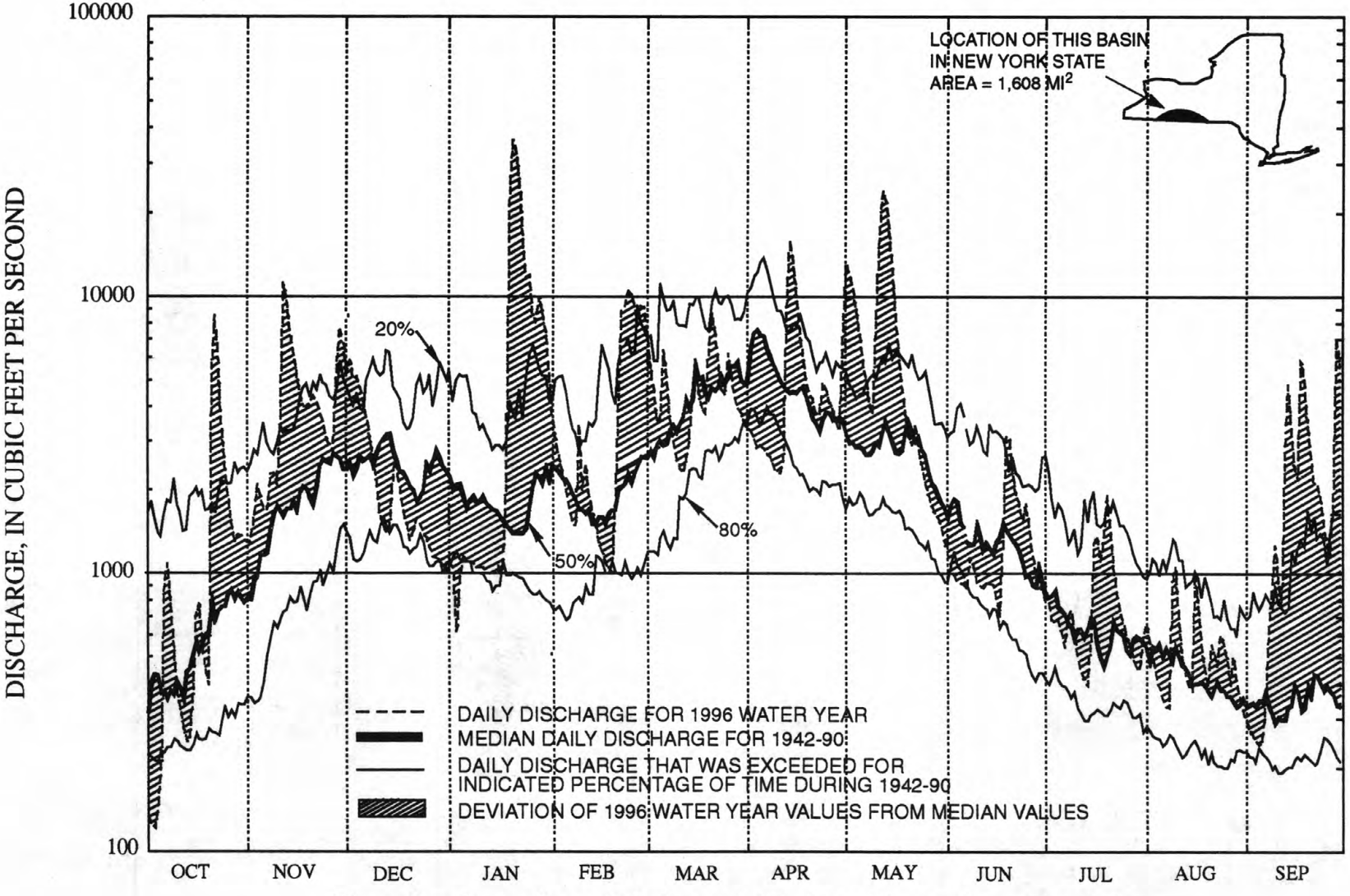


Figure 2.-- Comparison of discharge at Allegheny River at Salamanca during 1996 water year with median discharge for 1942-90.

National Water-Quality Assessment (NAWQA) Program of the U. S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, diverse, and geographically distributed part of the Nation's ground- and surface-water resources, and to identify, describe, and explain the major natural and human factors that affect these observed conditions and trends.

Assessment activities have begun in about two-thirds of the study units and ultimately will be conducted in 60 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-quality issues of regional and national interest.

EXPLANATION OF THE RECORDS

The surface-water and ground-water data published in this report are for the water year that began October 1, 1995, and ended September 30, 1996. A calendar of the water year is provided on the inside of the front cover. The data include discharge or stage of streams and canals, surface area, stage, and contents of lakes or reservoirs, surface-water quality, and ground-water levels. The locations of the stations and wells where data were collected are shown in figure 1. The following provide an explanation of how the data were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each surface-water station and well in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number is usually assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for surface-water stations and the "latitude-longitude" system is used for wells.

Downstream Order System

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

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations, miscellaneous sites, and other stations; therefore, the station number for a partial-record station or a miscellaneous site indicates downstream-order position in a list made up of all types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 01502500, includes the 2-digit Part number "01" plus the 6-digit downstream order number "502500." The Part number designates the major river basin. Part numbers used in this report and their corresponding river basins are: "01," the North Atlantic Slope basin; "03," the Ohio River basin; and "04," the St. Lawrence River basin. In a few instances where no gaps were left in the 8-digit numbering sequence, one or two digits were added (making a 9-or 10-digit station number) and (or) a latitude-longitude number was used to identify intermediate stations.

Latitude-Longitude System

The well-identification number is based on the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells within a 1-second grid. See figure below.

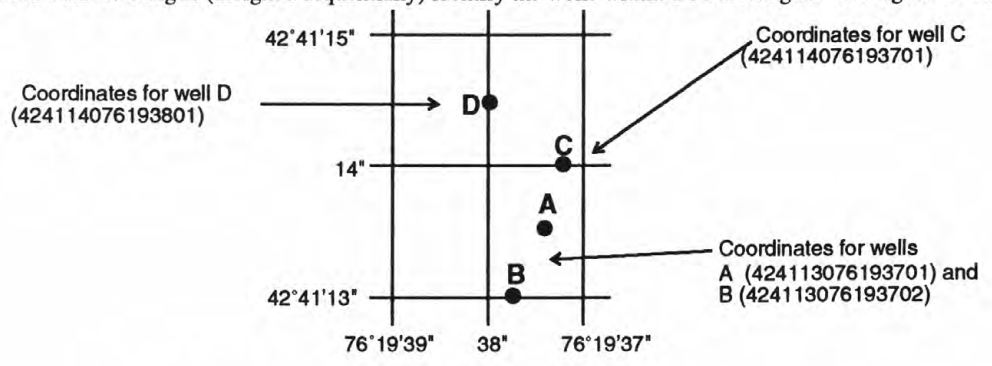


Figure 3. System for numbering wells (latitude and longitude)

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations." Periods of record for discontinued continuous-record surface-water stations are given in a table following the "Contents" section of this report.

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Locations of all complete-record stations for which data are given in this report are shown in figure 1.

Data Collection and Computation

The data collected at stream-gaging stations consist of records of stage, measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationship between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data collected at a lake or reservoir station consist of records of stage and notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Records of stage are obtained from direct readings on a nonrecording gage, analog recorders that trace continuous graphs of stage, digital recorders that punch stage values on paper tapes at selected time intervals, or with data-collection platforms (DCP) that electronically record and then transmit the data via satellite to ground receiving stations. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water Resources Investigations (TWRI's), Book 3, Chapter A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

For stream-gaging stations, results of individual discharge measurements are plotted against corresponding stages to develop stage-discharge relation curves. From these curves, rating tables that indicate the approximate discharge for any stage within the range of measurements are prepared. If it is necessary to express discharge greater than measured, the rating curves are extended on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting.

Daily mean discharges are computed by applying the instantaneous stages (gage heights) to the stage-discharge curves or rating tables and averaging these discharges for each day. Monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes of the personnel making the measurements and observers are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control.

At some gaging stations, acoustic velocity meter (AVM) systems are used to compute discharge. The AVM system measures the stream's velocity at one or more paths in the cross section. Coefficients are developed to relate this path velocity to the mean velocity in the cross section. Because the AVM sensors are fixed in position, the adjustment coefficients generally vary with stage. Cross-sectional area curves are developed to relate stage, recorded as noted above, to cross section area. Discharge is computed by multiplying path velocity by the appropriate stage related coefficient and area.

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

At some stream-gaging stations, formation of ice in the winter may so obscure the stage-discharge relation that daily mean discharges must be estimated on the basis of gage-height record, occasional water discharge measurements, and other information such as temperature and precipitation records, notes by gage observers and hydrographers, and records of discharge for other stations in the same or nearby basins for comparable periods.

For computing lake or reservoir contents, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents are computed. If the stage-capacity curve changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated from recorded range in stage, previous and following records, discharge measurements, weather records, and comparison with other station records in the same or nearby basins. Likewise daily contents may be estimated from operator's logs, previous and following records, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1993 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts, the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration.

Station manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for some stations, is that determined and used by the U.S. Army Corps of Engineers or other agencies.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--Identifies the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted 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 most recently revised figure was first published is given

GAGE.--The type of gage in current use, the datum of the current gage referred to sea level (see DEFINITION OF TERMS), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented at the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

PEAK DISCHARGES FOR CURRENT YEAR.--For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. All peaks greater than the base discharge are listed with the maximum for the year footnoted by an asterisk (*). The base discharge, which is given in the heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District Office to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily stages are given.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, and EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges and the PEAK DISCHARGES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

Data table of daily mean values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed "TOTAL" gives the sum of the daily figures for each month; the line headed "MEAN" gives the average flow in cubic feet per second for the month; and the lines headed "MAX" and "MIN" give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month also is usually 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 for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "MIN") or monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as "FOR WATER YEARS ____-____, BY WATER YEAR (WY)," and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unles a break in the station record is indicated in the manuscript.

Summary statistics

A table titled "SUMMARY STATISTICS" follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year, but also for the previous calendar year and for the designated period, as appropriate. The designated period selected, "WATER YEARS ____-____," will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (See line headings below.), except for the "ANNUAL 7-DAY MINIMUM" statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of each statistic reporting extreme values of discharge is provided adjacent to the statistic. In some instances, these extremes may occur on more than one date or year. These repeated occurrences are identified with a letter symbol and printed in the footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data maya be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations, the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The data shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Secondary instantaneous peak discharges above a selected base discharge, along with the peak discharge, are given in the station manuscript under the heading "PEAK DISCHARGES FOR CURRENT YEAR."

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

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 about 326,000 gallons or 1,233 cubic meters.

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 the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

Information published for partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in a table of annual maximum stage and discharge at crest-stage stations. The table of partial-record stations is followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. 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 caslled measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

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

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true discharge; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

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

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

Other Records Available

Information used in the preparation of records in this report, such as discharge measurement notes, water temperature measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-readable form and many statistical analyses are available. Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies. Locations of all surface-water-quality stations for which data are given in this report are shown in figure 1.

Historical and current (1993) dissolved trace-element concentrations are reported herein for water that was collected, processed, and analyzed by using either ultraclean or other than ultraclean techniques. If ultraclean techniques were used, then those concentrations are reported in nanograms per liter. If other than ultraclean techniques were used, then those concentrations are reported in micrograms per liter and could reflect contamination introduced during some phase of the procedure.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin. Locations of surface-water quality stations are shown on figure 1.

Note that "continuing-record" differs from "continuous recording," which refers to a continuous graph or a series of discrete values recorded at predetermined intervals. Some water-quality data may be obtained through continuous recordings (i.e. temperature); however, most data are obtained only monthly or less frequently.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the location of the water quality sampling site differs significantly from that of the nearby surface-water station, the continuing-record water-quality site is given its own station number and name in the regular downstream order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites. Data for precipitation-quality stations appear next.

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern is that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are detailed in the TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. These references are listed in the PUBLICATIONS ON TECHNIQUES OF WATER RESOURCES INVESTIGATIONS section of this report. These methods are consistent with ASTM standards and generally follow ISO standards. Also, detailed information on collecting, treating, and shipping samples may be obtained from the Geological Survey District office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see DEFINITION OF TERMS) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

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

Water Temperature

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

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentrations in the cross sections. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

Methods used in the computation of sediment records are described in the TWRI Book 3, Chapters C1 and C3. These methods are consistent with ASTM standards and generally follow ISO standards.

In addition to the records of instantaneous suspended-sediment discharge, the percentage of suspended sediment finer than 0.062 mm are reported at continuing-record sites.

Laboratory Measurements

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratories in Arvada, Colo. Methods used to analyze sediment samples and to compute sediment records are described in the TWRI, Book 5, Chapter C1. Methods used by the U. S. Geological Survey laboratories are given in the TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, A4 and A5. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation, including station location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily preceeds the data tables. If the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. Following is a list of headings and a discussion of the information provided under each heading.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for some stations, is that determined and used by the U.S. Army Corps of Engineers or other agencies.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage area to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor, temperature recorder, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximum or minimum may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--Published data are occasionally revised in light of new information, and appropriate revisions are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

Following information on station history are tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily. Following these are tables of daily mean temperatures.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

PRINTED OUTPUT	REMARK
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)

NOTE: In March 1989 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1989. Sulfate values in this report have not been corrected for this bias.

Dissolved Trace-Element Concentrations

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (µg/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's and 100's of nanograms per liter (ng/L). Data above the µg/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994. Full implementation of the protocols will take place during the 1995 water year

Categories of Water-Quality Data

There is a broad range of water-quality parameters available for most stations whose record exceeds more than a few years operation. Sampling schedules are often intermittent for certain types of data, with analyses available for some but not all years within a station's period of record. An accurate description of the variety of data available is shown by grouping similar parameters into a few general categories, which are listed in the "PERIOD OF RECORD" paragraph. Each category of data is followed by a notation of the water year(s) for which data is available and a letter code describing the frequency of sampling (see following section, "Frequency-of-Sampling Notation").

The "PERIOD OF RECORD" paragraph lists the following categories of data to describe information available.

CHEMICAL DATA: Usually includes most of the "major ions," and may often include some of the following physical properties: specific conductance, pH, temperature, color, turbidity, dissolved oxygen.

MINOR ELEMENT DATA: Comprises the "heavy metals" and some of the "alkaline earth" groups. Determinations usually include some but not all of the following: Al, As, Ba, Cd, Cr, Co, Cu, Hg, Li, Ni, Pb, Se, Sn, Sr, Zn.

RADIOCHEMICAL DATA: The determinations of the concentration of individual radioactive elements, such as radium 226, cobalt 60, strontium 90, and tritium. This category also includes the gross measurement of radioactivity (alpha, beta, gamma) without regard to the radiochemical species that produce the radioactivity.

PESTICIDE DATA: The organic compounds (insecticides and herbicides) used to control insects and plants. Routinely, the analyses searches for traces of between 12 to 22 compounds.

ORGANIC DATA: Organic data (other than pesticides) such as OC, PCB, PCN.

NUTRIENT DATA: Constituents containing nitrogen or phosphorus. Results usually include several of the following: nitrite plus nitrate, phosphorus, ammonia nitrogen, organic nitrogen, ammonia plus organic nitrogen (Kjeldahl nitrogen).

BIOLOGICAL DATA: The identification and concentration of microscopic plant organisms (phytoplankton, periphyton), or enteric bacteria (total coliform, fecal coliform, or fecal streptococcal) living in aquatic habitats.

SEDIMENT DATA: Suspended-sediment concentration, suspended-sediment discharge, and particle-size data for discrete samples.

Frequency-of-Sampling Notation

The categories of data given in the "PERIOD OF RECORD" paragraph are followed by the water year(s) for which that kind of data was collected. The amount of data available is specified by the following letter codes:

(a) 1 or 2 samples per year.
(b) 3 to 5 samples per year.
(c) 6 to 9 samples per year.
(d) 10 to 20 samples per year.
(e) more than 20 samples per year.

Thus, "CHEMICAL DATA: 1972-74(c), 1977-82(a).", shows there are at least six analyses each year for the first three years of record, no data for this category in 1975 and 1976, and 1 or 2 samples for each of the six additional years.

Records of Ground-Water Levels

Ground-water level data consist of water-level measurements made in observation wells. Ground-water records are presented by county, in alphabetical order. Locations of observation wells are shown on figure 1.

Data Collection and Computation

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

Water-level records are from direct measurements using a steel tape, from the punched tape of a water-stage recorder, or from an electronic data recorder. Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above sea level (see DEFINITION OF TERMS) is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported as mean daily values; then monthly and yearly means are computed from the daily figures. Water levels in wells not equipped with recording gages are measured periodically, usually weekly, with a weighted tape.

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

Data Presentation

Each well record consists of three parts, the station description, the data table of water levels observed during the current water year, and a graph of the water levels for the current water year or other selected period. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings of the well description.

LOCATION.--Provides (immediately below the well-identification number) the latitude and longitude (in degrees, minutes, and seconds); the hydrologic unit number (see DEFINITION OF TERMS); the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--Identifies by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--Describes the depth, diameter, casing depth and/or screened interval, method of construction, and use of the well and additional information such as casing breaks, collapsed screen, and other changes since construction.

INSTRUMENTATION.--Describes frequency of measurements and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--Describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) sea level; it is reported with a precision depending on the method of determination.

REMARKS.--Describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--Identifies the period for which there are published records for the observation well or for an equivalent well. This entry reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted. An equivalent well is one that was in operation at a time that the present well was not, and whose location was such that water-level records from it can reasonably be considered equivalent with records from the present observation well.

EXTREMES FOR PERIOD OF RECORD.--Indicates the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet above or below land-surface datum. For wells not equipped with continuous-stage recorders, the table lists the water levels and measurement dates. For wells equipped with recorders, mean daily values are published, with missing records indicated by dashes in place of the water level. Because mean daily values are published for wells with recorders, the extremes may be values that are not listed in the table.

A hydrograph of water levels follows the data table for each well. The current year and the previous 9 years of record are plotted in feet above or below land-surface datum. If the period of record is less than 10 years, the water levels for the entire record are plotted. Because all values are not plotted for wells with continuous-stage recorders, some extreme values may not appear on the plot.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for most sampling sites they consist of only one set of measurements for the water year. The quality of ground water ordinarilyt changes only slowly; therefore, for most general purposes one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as part of a special study of a specific area. Consequently, a number of chemical analyses are presented for one county, but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the U. S. Geological Survey TWRI publications referred to in the "On-site Measurements and Sample Collection" and the "Laboratory Measurements" sections in this data report. In addition, the TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed alphabetically by County, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water quality records; however, the well number, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARKS codes listed for the surface-water-quality records are also applicable to ground-water-quality records.

ACCESS TO WATSTORE DATA

The U.S. Geological Survey is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storate and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.
- Daily Values File - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperature, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.
- Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.
- Water-Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.
- Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requestor will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, Virginia 22092

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 6-1/4 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District offices. (See address on the back of the title page.).

DEFINITION OF TERMS

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

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

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

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

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

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

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

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

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

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

Bed material See Bottom material.

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

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

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

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

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

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

Biomass pigment ratio is an indicator of the total proportion of periphyton which are autotrophic (plants). This is also called the Autotrophic Index.

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

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

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

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

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

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

Colloid is any substance with particles in such a fine state of subdivision dispersed in a medium, for example water, that they do not settle out; but not in so fine a state of subdivision that they can be said to be truly dissolved.

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

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

Continuing-record station is a specified site that meets one or all conditions listed:

1. When chemical samples are collected daily or monthly for 10 or more months during the water year.
2. When water temperature records include observations taken one or more times daily.
3. When sediment discharge records include periods for which sediment loads are computed and are considered to be representative of the runoff for the water year.

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

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

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

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

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

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

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

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistics.)

Dissolved refers to that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

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

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

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

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

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

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

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

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

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

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

Micrograms per gram (µg/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

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

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

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

National Water-Quality Assessment (NAWQA) Program of the U. S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, diverse, and geographically distributed part of the Nation's ground- and surface-water resources, and to identify, describe, and explain the major natural and human factors that affect these observed conditions and trends.

Organic carbon (OC) is a measure of the organic matter present in aqueous solution and (or) suspension. May be reported in any of three categories (DOC, dissolved organic carbon; SOC, suspended organic carbon; TOC, total organic carbon).

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

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

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

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

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

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

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

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

The classification is as follows:

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

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

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

Periphyton is the assemblage of algae, fungi, and bacteria which are attached to or live upon submerged objects in lakes and rivers.

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

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

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

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

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

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

Euglenoids (Euglenophyta) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark.

Fire algae (Pyrrhophyta) are free-swimming unicells characterized by a red spot.

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

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

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

Polychlorinated napthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated napthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

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

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

Milligrams of oxygen per area or volume per unit time [mg 0_2/(m^2.time) for periphyton and macrophytes and mg 0_2/(m^3.time) for phytoplankton] are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

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

Sea level In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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

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

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

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

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

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

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

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

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

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

Substrate is the physical surface upon which an organism lived.

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

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

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

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

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

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total".

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

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

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

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

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

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

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

Total (as used in tables of chemical analyses):

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total". (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Water year in U.S. Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and that includes 9 of the 12 months. Thus, the year ending September 30, 1985 is called the "1985 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to state annual basic-data reports published beginning in 1975.

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

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

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

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

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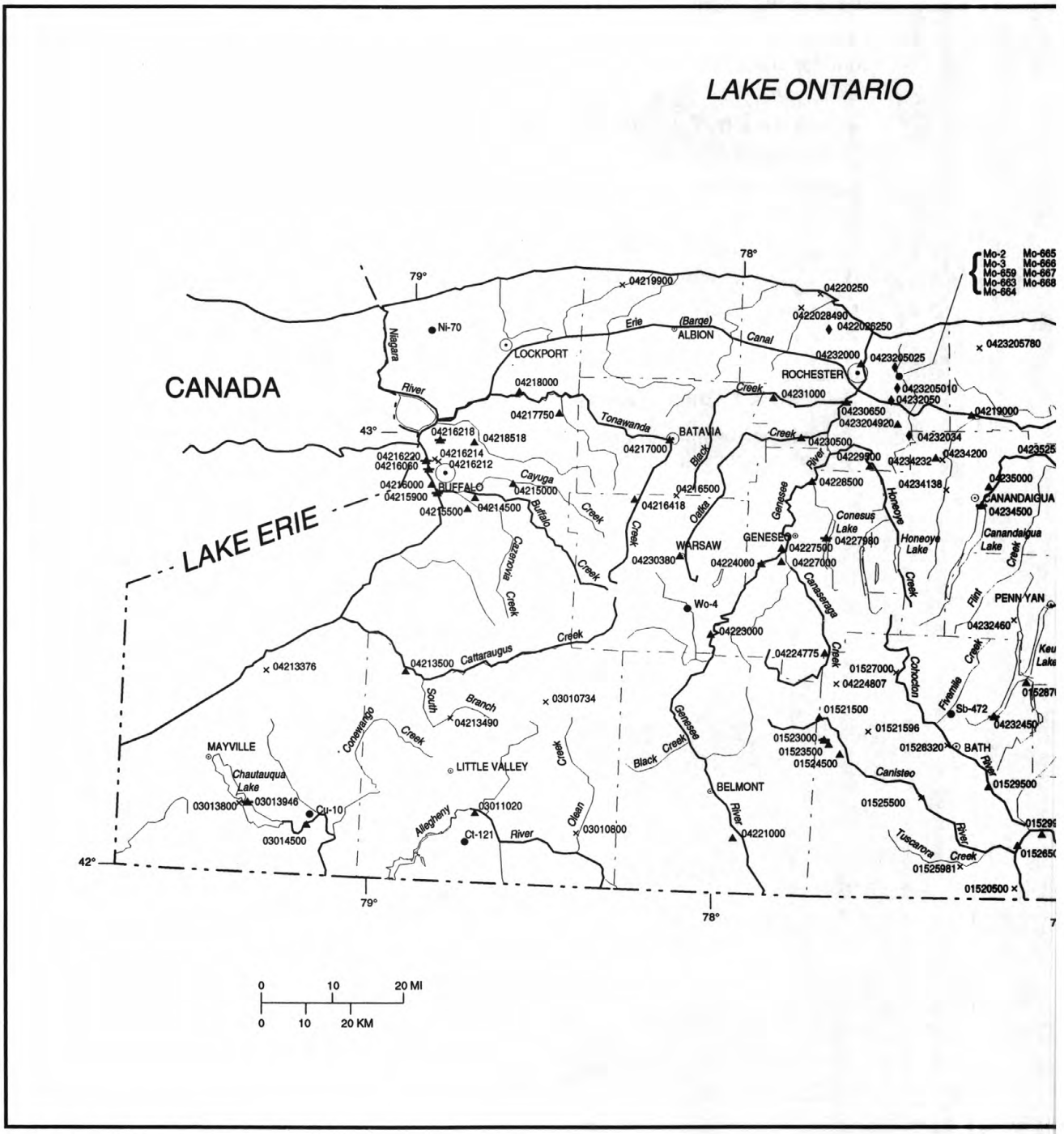
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Base from U.S. Geological Survey digital data, 1:2,000,000, 1972.
Albers Equal-Area Conic projection
Standard parallels 29 30' and 45 30', central meridian -96 00'.

FIGURE 4. LOCATION OF GAGING STATIONS AN



OBSERVATION WELLS IN WESTERN NEW YORK

01500000 OULEOUT CREEK AT EAST SIDNEY, NY

LOCATION.--Lat 42°20'00", long 75°14'07", Delaware County, Hydrologic Unit 02050101, on right bank 0.2 mi downstream from bridge on County Highway 44, 0.4 mi downstream from East Sidney Dam, at East Sidney, and 3.5 mi upstream from mouth.

DRAINAGE AREA.--103 mi^2.

PERIOD OF RECORD.--August 1940 to current year.

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,086.23 ft above sea level. Prior to June 13, 1947, water-stage recorder at site 0.5 mi upstream at datum 27.30 ft higher.

REMARKS.--No estimated daily discharges. Records good. Since November 1949, flow regulated by East Sidney Lake (see station 01499500). Satellite gage-height telemeter at station. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 16,700 ft^3/s, in July 1935, was determined by computation of flow over dam and from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	149	295	61	393	205	196	633	36	52	235	24
2	10	130	291	65	228	237	225	732	36	52	184	24
3	7.1	170	288	70	232	249	233	466	47	61	126	24
4	7.8	171	321	70	184	176	232	461	53	262	125	24
5	12	143	315	69	119	149	199	597	53	416	82	27
6	17	130	283	64	105	203	185	689	53	213	65	34
7	18	110	271	59	105	175	169	614	54	198	66	34
8	18	101	234	59	105	137	196	492	271	218	66	34
9	18	101	216	59	169	113	210	402	311	155	257	26
10	18	102	185	59	174	103	209	376	161	86	224	22
11	18	102	161	59	140	105	174	598	150	68	77	15
12	18	377	159	59	132	126	161	15	159	68	77	11
13	18	627	124	59	96	155	320	250	192	560	77	20
14	19	474	133	59	81	155	1070	1190	182	887	77	32
15	47	406	123	59	81	248	674	1440	138	401	77	26
16	85	406	110	58	68	299	200	1360	94	409	60	22
17	38	328	110	68	40	254	590	979	74	340	53	22
18	13	290	92	300	31	229	1110	469	74	232	53	158
19	14	289	83	421	31	263	918	275	96	228	53	133
20	14	242	65	17	72	395	435	229	146	362	54	63
21	140	212	57	531	367	436	313	175	98	230	54	36
22	536	214	76	1840	370	373	322	160	74	116	33	22
23	803	214	84	1970	298	307	300	140	74	99	24	134
24	395	214	84	1450	400	260	363	132	63	99	24	186
25	188	214	70	1120	402	244	357	132	50	100	24	184
26	146	213	61	1640	327	311	268	132	50	192	24	124
27	129	156	61	798	264	310	237	114	51	221	31	93
28	168	170	61	626	384	263	203	69	52	140	35	73
29	233	258	61	1540	304	250	190	55	52	87	35	194
30	243	298	61	1570	---	249	279	42	52	66	35	169
31	221	---	61	1160	---	208	---	36	---	110	28	---
TOTAL	3623.9	7011	4596	16039	5702	7187	10538	13454	2996	6728	2435	1990
MEAN	117	234	148	517	197	232	351	434	99.9	217	78.5	66.3
MAX	803	627	321	1970	402	436	1110	1440	311	887	257	194
MIN	7.1	101	57	17	31	103	161	15	36	52	24	11

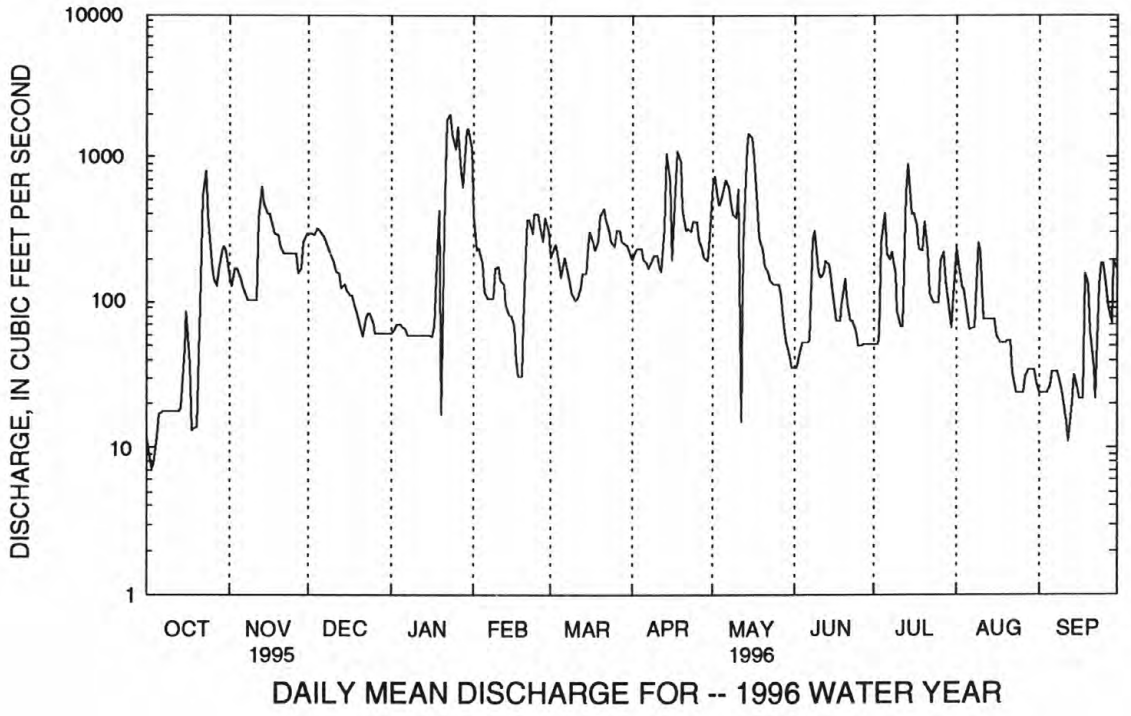
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

MEAN	95.2	179	216	186	202	342	380	199	102	57.4	41.9	55.8
MAX	618	404	517	517	604	690	1117	483	370	305	200	408
(WY)	1978	1973	1960	1996	1981	1977	1993	1983	1968	1973	1994	1977
MIN	3.35	4.46	45.0	28.3	33.3	86.2	91.6	35.4	16.2	6.95	3.86	2.45
(WY)	1965	1965	1961	1961	1980	1960	1946	1987	1964	1965	1964	1964

01500000 OULEOUT CREEK AT EAST SIDNEY, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1940 - 1996	
ANNUAL TOTAL	45273.8		82299.9			
ANNUAL MEAN	124		225		171	
HIGHEST ANNUAL MEAN					242	1960
LOWEST ANNUAL MEAN					77.9	1965
HIGHEST DAILY MEAN	1050	Mar 9	1970	Jan 23	3820	Dec 30 1942
LOWEST DAILY MEAN	4.6	Jul 1	7.1	Oct 3	1.2	Aug 13 1949
ANNUAL SEVEN-DAY MINIMUM	6.5	Aug 31	12	Oct 1	1.8	Nov 5 1973
INSTANTANEOUS PEAK FLOW			2080	Jan 23	a7250	Dec 30 1942
INSTANTANEOUS PEAK STAGE			4.90	Jan 23	b7.62	Dec 30 1942
10 PERCENT EXCEEDS	302		443		401	
50 PERCENT EXCEEDS	70		141		85	
90 PERCENT EXCEEDS	9.6		27		12	

a From rating curve extended above 4,000 ft^3/s.
b Site and datum then in use.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

01503000 SUSQUEHANNA RIVER AT CONKLIN, NY

LOCATION.--Lat 42°02'07", long 75°48'12", Broome County, Hydrologic Unit 02050101, on left bank at abutment of former highway bridge, 500 ft upstream from bridge on County Highway 304 at Conklin, 0.7 mi downstream from Little Snake Creek, and 3.5 mi downstream from Pennsylvania-New York State line.

DRAINAGE AREA.--2,232 mi^2.

PERIOD OF RECORD.--November 1912 to current year.

REVISED RECORDS.--WSP 1672: 1918(M, P). WSP 2103: Drainage area. WDR NY-81-3: 1918 (M, P).

GAGE.--Water-stage recorder. Datum of gage is 841.04 ft above sea level. Prior to Oct. 4, 1914, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minor regulation by upstream lakes and reservoirs. Telephone and satellite gage-height telemeters at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 18,000 ft^3/s and maximum (*);

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 19	2330	a*46,600	b*17.55	May 12	2230	24,300	12.27
Jan. 27	1830	23,200	11.95				

a About.
b Ice jam.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	2040	5020	1880	7230	5820	4550	14300	2050	1640	2120	815
2	194	1980	5070	1830	e5400	4680	4770	12700	1820	1470	3620	722
3	191	2030	4740	e1500	e4600	4530	4890	9990	1630	1360	3280	668
4	222	2210	4790	e1600	e4200	e3800	4730	8730	1510	1300	2390	623
5	334	2330	4810	e1400	e3400	3190	4430	9620	1460	2430	2130	598
6	560	2200	4680	e1500	e2500	3560	4070	9910	1440	4720	1940	575
7	599	1960	4150	e1700	e2600	3840	3920	10100	1380	3360	1660	575
8	665	1950	3900	e1700	e2700	e3200	4250	8890	1490	2430	1470	623
9	684	1940	3400	e1650	e3000	e2300	4440	7530	2880	2130	1470	602
10	554	1980	e3100	e1650	e3400	e2300	4290	7530	4000	1860	2170	570
11	452	1940	e2600	e1600	e3200	e2300	4180	12000	4050	1680	2950	557
12	390	5650	e2200	e1600	e2800	e2300	4060	22500	3410	1480	2050	574
13	345	8540	e2400	e1550	e2500	e2600	8510	24100	4550	2160	1640	561
14	326	8010	e2400	e1550	e2100	3060	15800	20200	4740	5490	1440	549
15	550	7430	2230	e1500	e2000	4490	14500	14400	3860	7760	1320	531
16	968	7650	e2400	e1500	e2000	5800	16700	11100	3030	6550	1310	555
17	1950	6990	e2200	e1500	e1900	5560	17000	9320	2420	6240	1450	626
18	1300	6050	e2100	e1600	e1900	4880	15400	7950	2080	4590	1370	1030
19	919	5610	e2000	e24000	e1800	4920	11800	7630	1950	3460	1250	1730
20	731	5500	e1800	43000	1820	7410	9320	8050	2310	3710	1100	1950
21	7040	5330	e1900	39500	e4600	8440	7710	6480	3350	4860	977	1350
22	9550	5280	e1900	31000	6900	7350	7050	6000	2590	3950	906	1060
23	7770	5070	e2000	18900	7890	6190	6530	5830	2280	2970	846	1220
24	5390	4690	e2000	14600	8860	5310	7800	4960	2030	2450	863	1920
25	3680	4250	e2000	16300	10300	4820	8750	4410	1740	2230	858	2040
26	2680	3840	e2000	13700	8770	5440	7580	3970	1580	2250	895	1790
27	2230	3660	e1900	16800	6690	6790	6880	3550	1410	3190	789	1570
28	2040	4340	e1900	18700	6470	6080	6360	3190	1260	3550	725	1340
29	2120	5550	e1900	14400	7040	5290	6370	2900	1310	2750	955	2210
30	2800	5630	e1900	11100	---	5090	10100	2560	1670	2260	1350	3210
31	2400	---	e1800	9350	---	4800	---	2370	---	2030	993	---
TOTAL	59836	131630	87190	300160	128570	146140	236740	282770	71280	98310	48287	32744
MEAN	1930	4388	2813	9683	4433	4714	7891	9122	2376	3171	1558	1091
MAX	9550	8540	5070	43000	10300	8440	17000	24100	4740	7760	3620	3210
MIN	191	1940	1800	1400	1800	2300	3920	2370	1260	1300	725	531

e Estimated

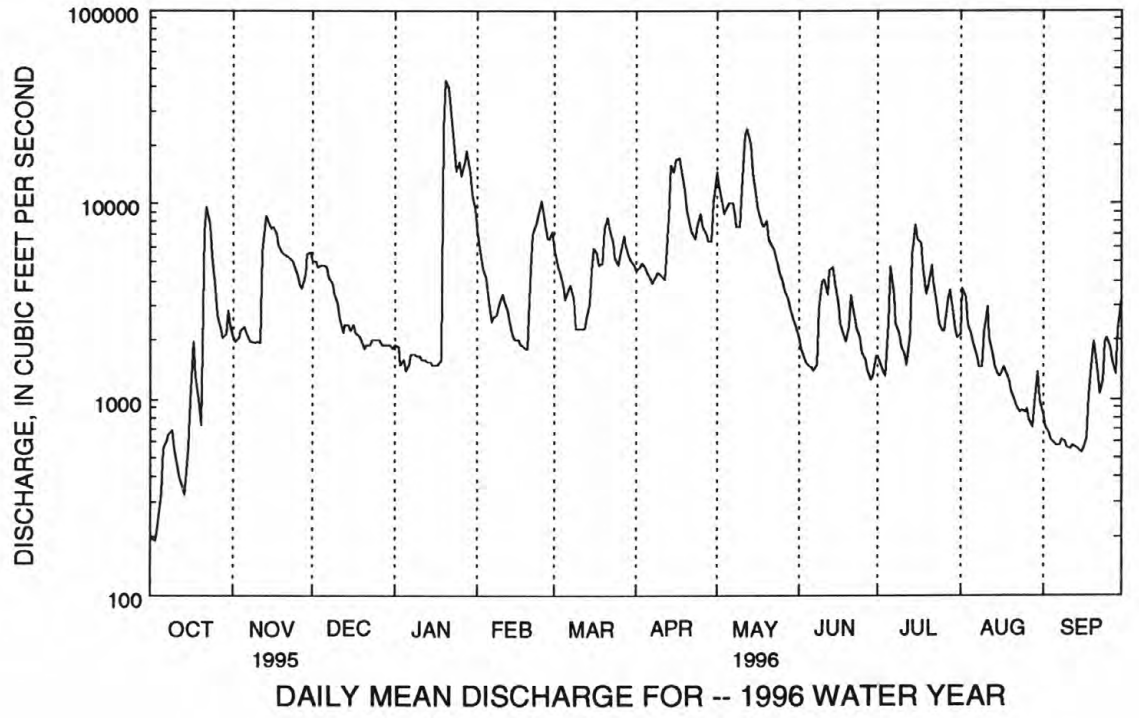
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1996, BY WATER YEAR (WY)

MEAN	1877	3403	3930	3871	3899	7562	8482	4235	2214	1434	1003	1185
MAX	12860	9281	9665	10110	11150	18540	21340	10590	8122	7929	5033	8783
(WY)	1978	1928	1921	1913	1981	1936	1940	1943	1917	1915	1915	1977
MIN	130	140	641	476	724	2808	2000	1300	509	267	171	142
(WY)	1965	1965	1931	1931	1980	1965	1946	1985	1964	1936	1964	1964

01503000 SUSQUEHANNA RIVER AT CONKLIN, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1913 - 1996	
ANNUAL TOTAL	885169		1623657			
ANNUAL MEAN	2425		4436		3587	
HIGHEST ANNUAL MEAN					5667	1928
LOWEST ANNUAL MEAN					1690	1965
HIGHEST DAILY MEAN	15000	Mar 9	43000	Jan 20	57800	Mar 19 1936
LOWEST DAILY MEAN	140	Sep 7	191	Oct 3	105	Oct 24 1964
ANNUAL SEVEN-DAY MINIMUM	147	Sep 3	329	Oct 1	114	Oct 19 1964
INSTANTANEOUS PEAK FLOW			a46600	Jan 19	61600	Mar 18 1936
INSTANTANEOUS PEAK STAGE			b17.55	Jan 19	20.83	Mar 22 1948
INSTANTANEOUS LOW FLOW			191	c	85	Oct 14 1964
10 PERCENT EXCEEDS	5670		9020		8410	
50 PERCENT EXCEEDS	1790		2600		2000	
90 PERCENT EXCEEDS	237		854		430	

a About.
b Ice jam.
c Oct. 2, 3, 4.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

01509000 TIOUGHNIOGA RIVER AT CORTLAND, NY

LOCATION.--Lat 42°36'10", long 76°09'35", Cortland County, Hydrologic Unit 02050102, on right bank at east end of Elm Street at Cortland, 0.4 mi downstream from confluence of East and West Branches.

DRAINAGE AREA.--292 mi^2, including 14.0 mi^2, the flow from which may be diverted into De Ruyter Reservoir in Oswego River basin.

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 2103: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 1,084.92 ft above sea level. Prior to Oct. 1, 1939, water-stage recorder at datum 4.00 ft higher; Oct. 1, 1939 to Sept. 30, 1963, water-stage recorder at datum 3.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diurnal fluctuation at low and medium flow caused by powerplants in mills on West Branch. Slight diversion from East Branch for operation of Erie (Barge) Canal. Slight diversion from Gate House Pond on West Branch 17 mi upstream from station into Onondaga Creek basin (St. Lawrence River basin) for manufacturing purposes by Linden Chlorine Process Co. Telephone and satellite gage-height telemeters at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 20	0230	*11,800	*13.02	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	193	526	187	e840	957	698	1820	307	441	268	112
2	43	192	528	190	e770	845	697	1440	287	317	207	108
3	40	217	490	153	e670	759	662	1140	273	356	179	106
4	41	235	558	e180	e580	599	618	1100	266	532	175	104
5	45	203	521	e180	e540	596	565	1300	259	733	163	104
6	77	179	477	e175	e480	609	508	1160	247	484	147	103
7	84	178	431	e170	e460	533	511	1060	273	375	138	105
8	68	241	382	e170	437	e460	550	897	477	318	186	116
9	59	231	357	e170	628	e440	507	828	469	278	655	130
10	52	213	338	e170	574	e430	496	910	400	242	519	138
11	47	233	328	e165	515	e400	465	2090	362	220	321	128
12	44	743	e320	e165	485	e390	531	3380	295	203	257	117
13	48	701	e310	e160	e420	e380	990	3280	387	211	225	120
14	62	584	300	e160	e410	434	2260	2240	386	264	200	129
15	227	600	278	e150	e380	791	1910	1630	309	523	190	123
16	190	560	281	e150	e350	914	1910	1280	258	679	287	117
17	126	511	267	e180	e325	695	2190	1090	232	418	263	131
18	103	483	257	e260	308	692	1690	961	215	306	218	215
19	90	481	e245	5300	e295	766	1370	983	276	311	193	186
20	79	471	e225	9660	325	1050	1190	849	336	452	177	153
21	728	483	e230	4360	1520	1080	1100	817	277	327	167	136
22	2070	481	230	2690	1670	944	955	823	283	268	159	148
23	1100	459	222	2010	1360	797	1140	687	298	236	158	257
24	582	433	219	1810	2380	700	1630	653	250	215	156	214
25	402	389	212	2200	2600	691	1450	595	313	199	151	194
26	332	396	212	1570	1740	937	1210	536	269	200	141	184
27	288	388	e205	2080	1300	837	1200	476	231	187	134	167
28	254	599	e200	2540	1340	715	1000	427	225	177	129	184
29	232	722	e190	1690	1220	684	907	393	219	168	125	482
30	223	569	194	1350	---	656	1220	358	486	166	120	343
31	208	---	190	1070	---	652	---	331	---	179	116	---
TOTAL	7986	12368	9723	41465	24922	21433	32130	35534	9165	9985	6524	4854
MEAN	258	412	314	1338	859	691	1071	1146	305	322	210	162
MAX	2070	743	558	9660	2600	1080	2260	3380	486	733	655	482
MIN	40	178	190	150	295	380	465	331	215	166	116	103
CFSM	.88	1.41	1.07	4.58	2.94	2.37	3.67	3.93	1.05	1.10	.72	.55
IN.	1.02	1.58	1.24	5.28	3.17	2.73	4.09	4.53	1.17	1.27	.83	.62

e Estimated

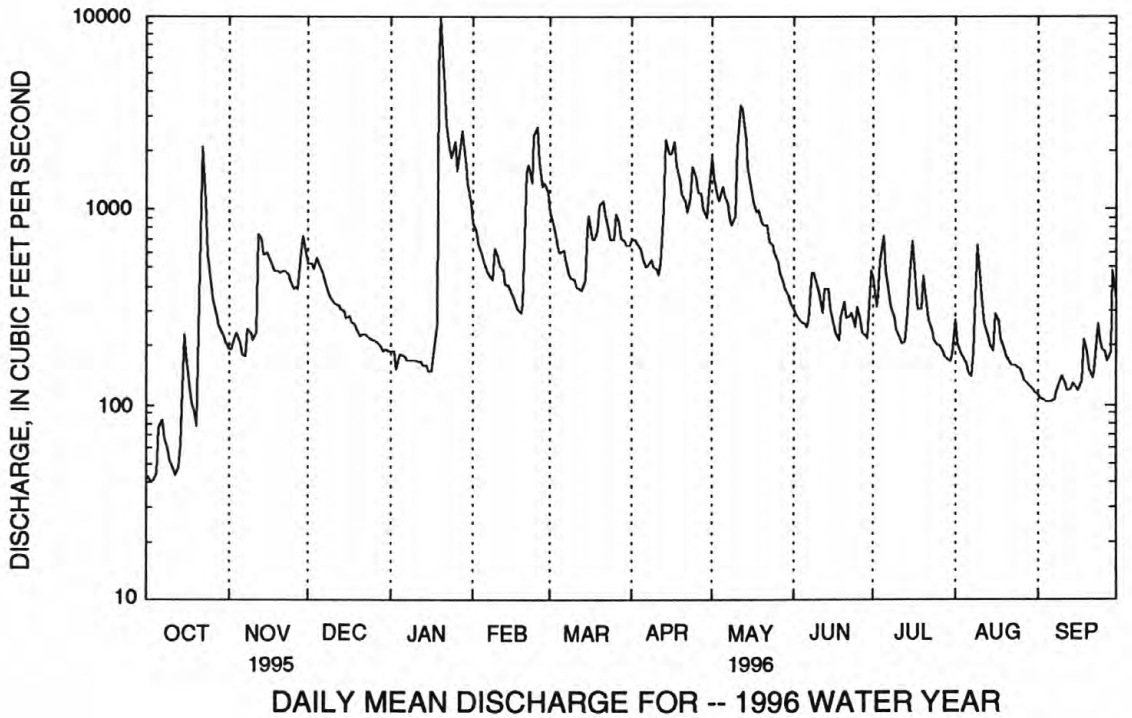
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1996, BY WATER YEAR (WY)

MEAN	255	428	565	512	552	1048	1266	578	325	180	132	155
MAX	1553	1119	1307	1338	1469	2432	3487	1352	1674	539	480	1125
(WY)	1978	1969	1973	1996	1976	1945	1993	1943	1972	1976	1992	1977
MIN	33.2	44.3	86.7	112	127	359	305	212	88.7	43.5	34.6	23.8
(WY)	1965	1965	1961	1961	1963	1941	1946	1985	1939	1962	1939	1939

01509000 TIOUGHNIOGA RIVER AT CORTLAND, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1938 - 1996	
ANNUAL TOTAL	112071		216089			
ANNUAL MEAN	307		590		498	
HIGHEST ANNUAL MEAN					723	1943
LOWEST ANNUAL MEAN					303	1965
HIGHEST DAILY MEAN	2070	Oct 22	9660	Jan 20	11500	Mar 6 1979
LOWEST DAILY MEAN	40	Oct 3	40	Oct 3	17	a
ANNUAL SEVEN-DAY MINIMUM	43	Sep 28	53	Oct 1	21	Sep 19 1939
INSTANTANEOUS PEAK FLOW			11800	Jan 20	13000	Mar 5 1964
INSTANTANEOUS PEAK STAGE			13.02	Jan 20	13.82	Apr 5 1950
INSTANTANEOUS LOW FLOW			40	b	9.8	c
ANNUAL RUNOFF (CFSM)	1.05		2.02		1.71	
ANNUAL RUNOFF (INCHES)	14.28		27.53		23.19	
10 PERCENT EXCEEDS	635		1300		1110	
50 PERCENT EXCEEDS	232		340		283	
90 PERCENT EXCEEDS	51		130		69	

a Sep. 26, 27, 1959.
b Oct. 2, 3, 4, 5.
c Sep. 20, 1939, Sep. 29, 1959.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

01510000 OTSELIC RIVER AT CINCINNATUS, NY

LOCATION.--Lat 42°32'28", long 75°54'00", Cortland County, Hydrologic Unit 02050102, on right bank 150 ft upstream from Mead Brook, and 300 ft downstream from bridge on County Highway 159 at Cincinnatus.

DRAINAGE AREA.--147 mi^2.

PERIOD OF RECORD.--June 1938 to September 1964, October 1969 to current year.

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,031.67 ft above sea level.

REMARKS.--Records fair. Telephone and satellite gage-height telemeters at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 21	1730	3,460	6.62	Jan. 19	1930	a*8,000	b*10.89

a About.
b Ice jam.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e11	115	346	115	e400	465	455	970	140	345	139	e35
2	e11	113	343	117	e360	420	443	750	116	261	62	e34
3	e10	130	309	92	e340	371	404	661	103	359	e60	e34
4	e12	145	358	e110	e320	280	374	704	95	511	e59	e33
5	e14	123	322	e110	e280	284	335	777	94	562	e57	e33
6	31	113	300	e105	e270	309	302	719	78	395	e52	e32
7	38	114	271	e100	e260	259	319	651	94	321	e48	e34
8	34	143	241	e100	e250	e250	342	573	324	272	130	e37
9	28	133	228	e105	436	e240	312	523	400	223	536	e42
10	25	123	e185	e105	380	e235	317	622	281	173	370	e48
11	24	141	e180	e100	e300	e230	295	1470	237	135	243	e40
12	22	806	e170	e100	e280	e225	362	1970	183	99	187	e37
13	21	558	e160	e95	e240	e220	833	1330	185	156	160	e38
14	37	471	158	e95	e250	282	1460	923	264	239	133	e42
15	273	516	182	e90	e220	506	946	742	199	228	116	e38
16	132	468	178	e90	e200	533	1490	633	139	285	232	e37
17	84	419	163	122	e190	405	1260	573	103	178	173	e40
18	63	393	153	180	e180	423	919	521	82	129	131	127
19	54	391	139	e4500	e170	483	817	675	128	264	108	90
20	44	383	128	e4000	e190	697	764	517	191	365	86	47
21	1660	379	142	1590	1100	651	935	520	168	211	72	e42
22	1660	374	138	1030	872	554	736	505	178	146	57	110
23	503	346	134	783	783	466	776	417	169	113	65	419
24	322	319	128	872	1500	417	847	384	126	93	82	227
25	242	283	123	955	1180	422	771	341	185	77	63	212
26	194	287	122	639	790	680	678	305	148	66	e45	181
27	163	277	118	1060	604	532	687	274	115	e63	e43	141
28	149	409	119	1020	753	448	595	247	126	e60	e41	256
29	134	438	115	674	602	427	611	221	122	e58	e40	697
30	129	349	113	e560	---	413	787	195	356	e58	e38	359
31	120	---	118	e460	---	416	---	171	---	e60	e37	---
TOTAL	6244	9259	5884	20074	13700	12543	20172	19884	5129	6505	3665	3542
MEAN	201	309	190	648	472	405	672	641	171	210	118	118
MAX	1660	806	358	4500	1500	697	1490	1970	400	562	536	697
MIN	10	113	113	90	170	220	295	171	78	58	37	32
CFSM	1.37	2.10	1.29	4.41	3.21	2.75	4.57	4.36	1.16	1.43	.80	.80
IN.	1.58	2.34	1.49	5.08	3.47	3.17	5.10	5.03	1.30	1.65	.93	.90

e Estimated

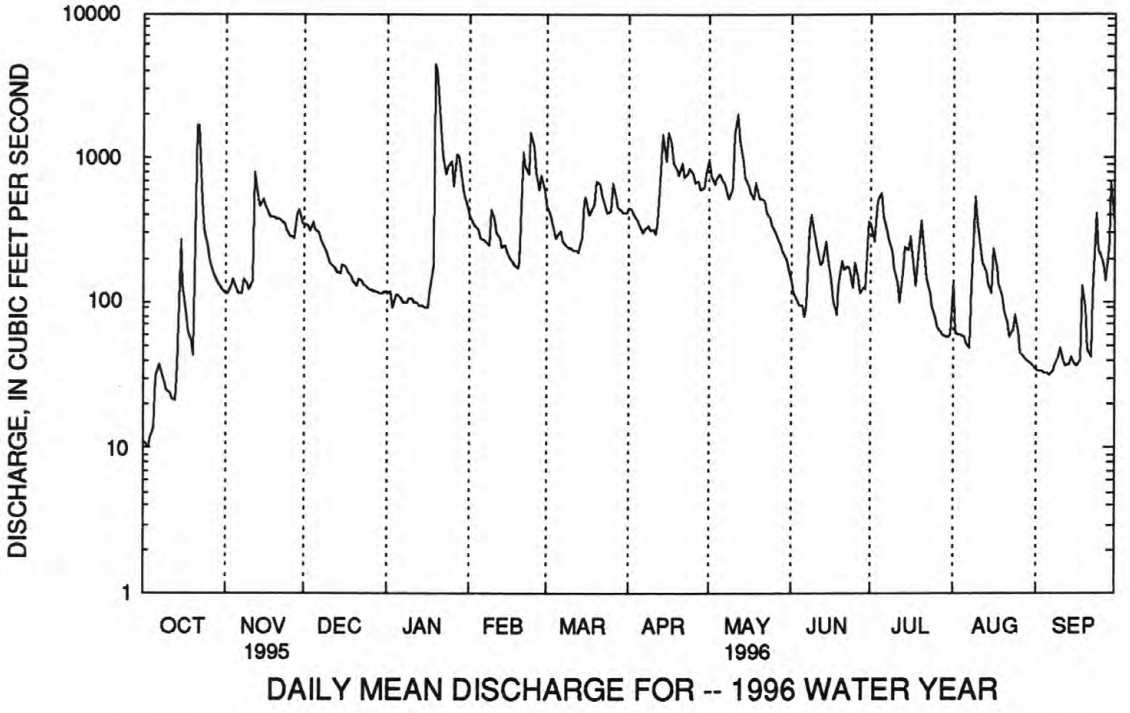
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1996, BY WATER YEAR (WY)

MEAN	149	247	325	266	281	584	686	291	156	84.5	57.4	88.4
MAX	713	628	677	648	764	1302	1693	687	773	299	277	706
(WY)	1978	1960	1991	1996	1976	1945	1940	1947	1972	1976	1994	1977
MIN	9.90	23.3	66.9	55.6	63.1	178	150	80.3	24.6	12.5	8.99	5.54
(WY)	1964	1954	1961	1961	1987	1941	1946	1985	1962	1962	1964	1964

01510000 OTSELIC RIVER AT CINCINNATUS, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1938 - 1996	
ANNUAL TOTAL	60937.8		126601			
ANNUAL MEAN	167		346		267	
HIGHEST ANNUAL MEAN					391	1943
LOWEST ANNUAL MEAN					151	1995
HIGHEST DAILY MEAN	1660	Oct 21	e4500	Jan 19	6200	Mar 20 1948
LOWEST DAILY MEAN	7.7	Sep 8	e10	Oct 3	4.1	Sep 24 1939
ANNUAL SEVEN-DAY MINIMUM	8.4	Aug 25	18	Oct 1	4.3	Sep 19 1939
INSTANTANEOUS PEAK FLOW			a8000	Jan 19	8390	Dec 30 1942
INSTANTANEOUS PEAK STAGE			b10.89	Jan 19	b10.89	Jan 19 1996
INSTANTANEOUS LOW FLOW			Unknown		3.8	Sep 25 1939
ANNUAL RUNOFF (CFSM)	1.14		2.35		1.82	
ANNUAL RUNOFF (INCHES)	15.42		32.04		24.71	
10 PERCENT EXCEEDS	392		766		610	
50 PERCENT EXCEEDS	115		228		138	
90 PERCENT EXCEEDS	12		44		23	

a About.
b Ice jam.
e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

01512500 CHENANGO RIVER NEAR CHENANGO FORKS, NY

LOCATION.--Lat 42°13'05", long 75°50'55", Broome County, Hydrologic Unit 02050102, on left bank in Chenango Valley State Park, and 1.2 mi downstream from Tioughnioga River and village of Chenango Forks.

DRAINAGE AREA.--1,483 mi^2.

PERIOD OF RECORD.--November 1912 to current year.

GAGE.--Water-stage recorder. Datum of gage is 871.63 ft above sea level. Nov. 11, 1912 to Oct. 1, 1914, nonrecording gage and Oct. 2, 1914 to Aug. 2, 1936, water-stage recorder at site 300 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. 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. Telephone and satellite gage-height telemeters at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 18,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan 20	0200	*33,700	*12.48	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	956	3150	e1110	e4200	4730	3240	8990	1210	2180	1590	389
2	128	924	3380	e1100	e3700	3990	3380	7110	1120	1620	1620	364
3	129	975	3110	e1080	e3100	3640	3250	5540	1040	1890	1020	345
4	156	1120	3330	e1030	e2500	e2700	3030	5310	1010	2570	1090	332
5	177	1070	3400	e1020	e2200	2540	2800	6140	1020	3480	991	329
6	338	984	3040	e990	e2000	2810	2600	5930	978	2770	938	373
7	482	924	2770	e970	e1900	2590	2540	5700	944	2050	803	418
8	426	1030	e2100	e950	1800	e1950	2980	4690	1790	1700	1020	424
9	366	1100	e2000	e940	2190	e1850	2960	4170	2600	1460	4990	439
10	323	1060	e1900	e920	2720	e1900	2870	4750	2510	1220	4650	455
11	295	1030	e1800	e900	2430	e1900	2650	12000	2600	1030	2460	432
12	275	3390	e1750	e890	2260	e1900	2650	16900	1840	867	1730	386
13	260	4540	e1750	e870	e1700	1900	6090	14100	1910	1090	1380	394
14	275	3790	e1800	e850	e1650	2110	12400	11900	2020	1880	1180	458
15	1220	3650	1490	e850	e1600	3670	10000	9790	1770	1790	1010	436
16	1480	3910	1580	e900	e1500	5000	11100	8260	1350	2880	1240	410
17	1280	3530	1510	e1100	e1400	3970	11400	6770	1190	2070	1490	492
18	594	3110	1420	e1200	e1350	3560	10200	4980	1090	1490	1230	1240
19	495	2980	e1350	15400	e1300	3830	8280	4290	1260	1330	987	1180
20	467	3040	e1250	31200	1270	5490	6980	4290	1860	2570	872	864
21	4410	3030	e1250	19900	4870	6160	6310	3920	1930	2090	725	644
22	10900	3080	e1260	14700	e7500	5280	5650	4230	1530	1510	664	623
23	6880	2930	e1260	11600	e6700	4410	4910	3530	1720	1290	621	1810
24	3600	2740	e1260	10500	9670	3650	5750	2990	1450	1100	662	1700
25	2350	2330	e1210	12100	10600	3350	5710	2530	1340	1000	678	1370
26	1700	2160	e1200	9490	8680	4280	4960	2250	1310	959	618	1240
27	1470	2300	e1160	9810	6790	4480	4810	2050	1140	904	557	1080
28	1350	2730	e1150	11800	6680	3760	4330	1880	940	811	509	938
29	1200	3920	e1150	9020	6470	3330	4060	1710	1050	734	506	3250
30	1030	3570	e1120	7290	---	3260	6290	1540	1780	714	479	3150
31	994	---	e1100	5940	---	3170	---	1370	---	764	437	---
TOTAL	45185	71903	57000	186420	110730	107160	164180	179610	45302	49813	38747	25965
MEAN	1458	2397	1839	6014	3818	3457	5473	5794	1510	1607	1250	865
MAX	10900	4540	3400	31200	10600	6160	12400	16900	2600	3480	4990	3250
MIN	128	924	1100	850	1270	1850	2540	1370	940	714	437	329

e Estimated

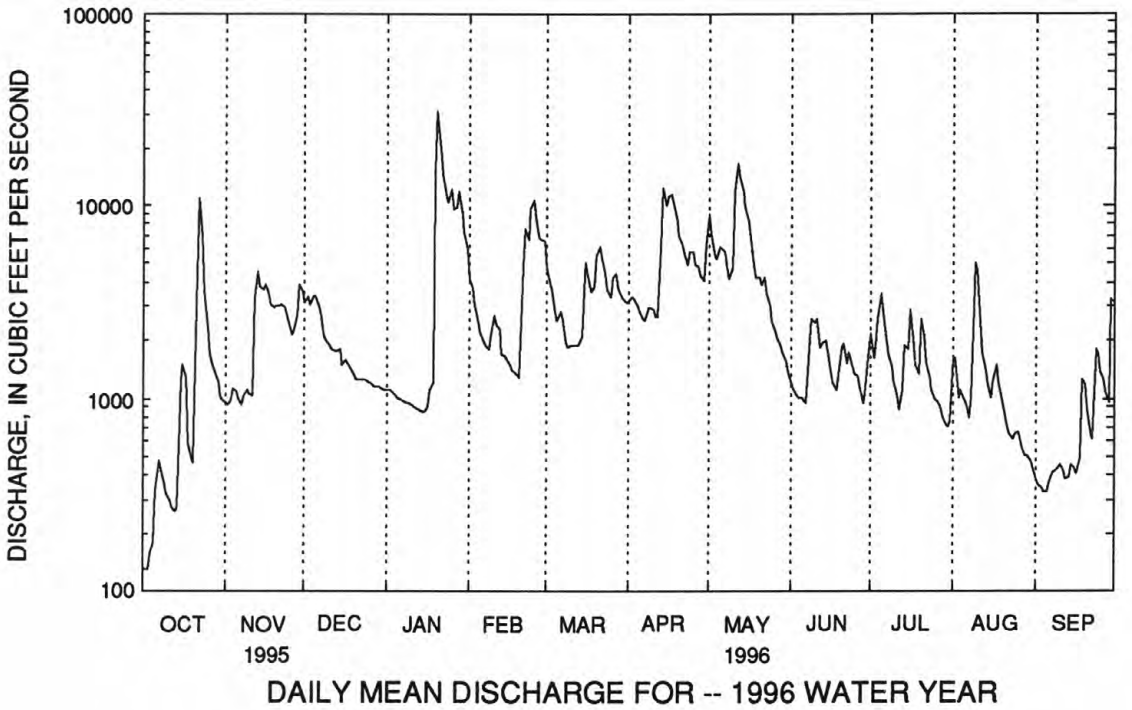
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1996, BY WATER YEAR (WY)

MEAN	1309	2271	2699	2596	2616	5332	5784	2622	1467	919	651	784
MAX	7210	6167	6102	7361	7688	12560	15330	6485	7439	5713	3138	5766
(WY)	1978	1928	1973	1913	1976	1936	1993	1943	1917	1935	1915	1977
MIN	155	168	525	445	472	1977	1317	770	346	175	145	107
(WY)	1940	1965	1961	1961	1980	1937	1946	1985	1939	1939	1913	1939

01512500 CHENANGO RIVER NEAR CHENANGO FORKS, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1913 - 1996	
ANNUAL TOTAL	564877		1082015			
ANNUAL MEAN	1548		2956		2420	
HIGHEST ANNUAL MEAN					3618	1943
LOWEST ANNUAL MEAN					1307	1965
HIGHEST DAILY MEAN	10900	Oct 22	31200	Jan 20	55400	Jul 8 1935
LOWEST DAILY MEAN	100	Sep 8	128	Oct 2	88	Sep 19 1939
ANNUAL SEVEN-DAY MINIMUM	114	Aug 25	221	Oct 1	94	Sep 19 1939
INSTANTANEOUS PEAK FLOW			33700	Jan 20	a96000	Jul 8 1935
INSTANTANEOUS PEAK STAGE			12.48	Jan 20	b20.30	Jul 8 1935
INSTANTANEOUS LOW FLOW			124	c	84	d
10 PERCENT EXCEEDS	3520		6690		6000	
50 PERCENT EXCEEDS	1120		1800		1300	
90 PERCENT EXCEEDS	157		508		300	

a From rating curve extended above 32,000 ft^3/s on basis of slope-area measurement of peak flow.
b From floodmarks.
c Oct. 2, 3, 4.
d Sep. 19, 25, 1939.



01521500 CANISTEO RIVER AT ARKPORT, NY

LOCATION.--Lat 42°23'45", long 77°42'42", Steuben County, Hydrologic Unit 02050104, on left bank 0.2 mi downstream from Arkport Dam, and 0.9 mi west of Arkport.

DRAINAGE AREA.--30.6 mi^2.

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

REVISED RECORDS.--WSP 1552: 1952-57. WSP 2103: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,202.85 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since November 1939, flows above 500 ft^3/s controlled by detention in Arkport Reservoir (see station 01521000). Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1935, reached a discharge of 4,820 ft^3/s, on basis of slope-area measurement.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.97	10	57	e6.5	e26	e45	51	134	10	10	2.8	2.6
2	1.3	10	64	e6.0	e21	e22	39	68	8.4	6.9	2.9	2.3
3	1.5	14	45	e5.8	e18	e16	38	53	7.6	13	2.7	1.9
4	3.5	16	60	e5.5	e17	e16	37	82	7.9	21	2.3	1.9
5	8.7	13	42	e5.2	e15	e30	45	80	11	12	2.1	3.4
6	15	11	33	e5.0	e13	e70	38	114	9.8	8.2	2.0	2.8
7	5.8	11	26	e4.8	e12	e30	35	73	12	6.0	1.9	4.3
8	3.8	17	24	e4.6	e12	e24	33	52	44	5.2	3.3	3.2
9	2.7	15	21	e4.4	e13	e22	32	78	22	4.0	57	2.4
10	2.3	12	e19	e4.4	e13	e20	31	334	16	3.6	15	2.5
11	2.2	13	e17	e4.2	e13	e18	38	681	12	3.3	7.5	2.7
12	2.1	98	e15	e4.2	e12	e22	161	710	9.4	2.9	4.6	4.6
13	2.0	43	e13	e4.0	e11	42	808	444	7.3	2.8	3.5	140
14	2.6	33	e11	e4.0	e10	160	792	81	6.9	2.6	2.8	46
15	3.2	39	e10	e4.0	e9.0	179	554	57	5.8	4.8	3.3	16
16	4.4	37	e9.6	e6.0	e7.5	77	83	44	4.5	5.4	6.3	9.0
17	5.1	36	e8.8	e10	e7.0	42	63	38	3.8	4.3	4.2	120
18	3.8	37	e8.2	e100	e6.0	37	52	32	4.6	3.7	3.1	162
19	2.8	42	e7.8	e700	e5.0	49	46	28	37	4.5	2.5	36
20	2.7	47	e7.4	e950	e9.5	288	51	23	54	5.8	2.3	18
21	404	62	e7.0	835	123	116	48	110	50	4.1	2.1	11
22	79	53	e6.8	179	98	60	38	62	21	3.4	1.9	9.1
23	32	46	e6.5	47	96	43	61	36	14	3.0	2.2	8.6
24	19	39	e6.2	157	224	35	111	31	12	2.6	2.2	7.3
25	13	34	e6.0	99	76	140	80	25	17	2.5	1.8	8.1
26	10	29	e5.7	48	57	168	56	21	12	2.4	1.7	8.7
27	8.1	31	e5.6	98	40	54	61	19	8.8	2.2	1.7	6.8
28	6.8	212	e8.0	72	128	37	43	17	7.1	2.1	1.7	53
29	7.6	83	e10	61	e56	37	43	15	6.4	2.0	2.0	87
30	12	50	e9.0	34	---	38	214	14	15	2.2	2.0	28
31	11	---	e7.0	e29	---	42	---	12	---	2.5	2.5	---
TOTAL	678.97	1193	576.6	3497.6	1148.0	1979	3782	3568	457.3	159.0	153.9	809.2
MEAN	21.9	39.8	18.6	113	39.6	63.8	126	115	15.2	5.13	4.96	27.0
MAX	404	212	64	950	224	288	808	710	54	21	57	162
MIN	.97	10	5.6	4.0	5.0	16	31	12	3.8	2.0	1.7	1.9

e Estimated

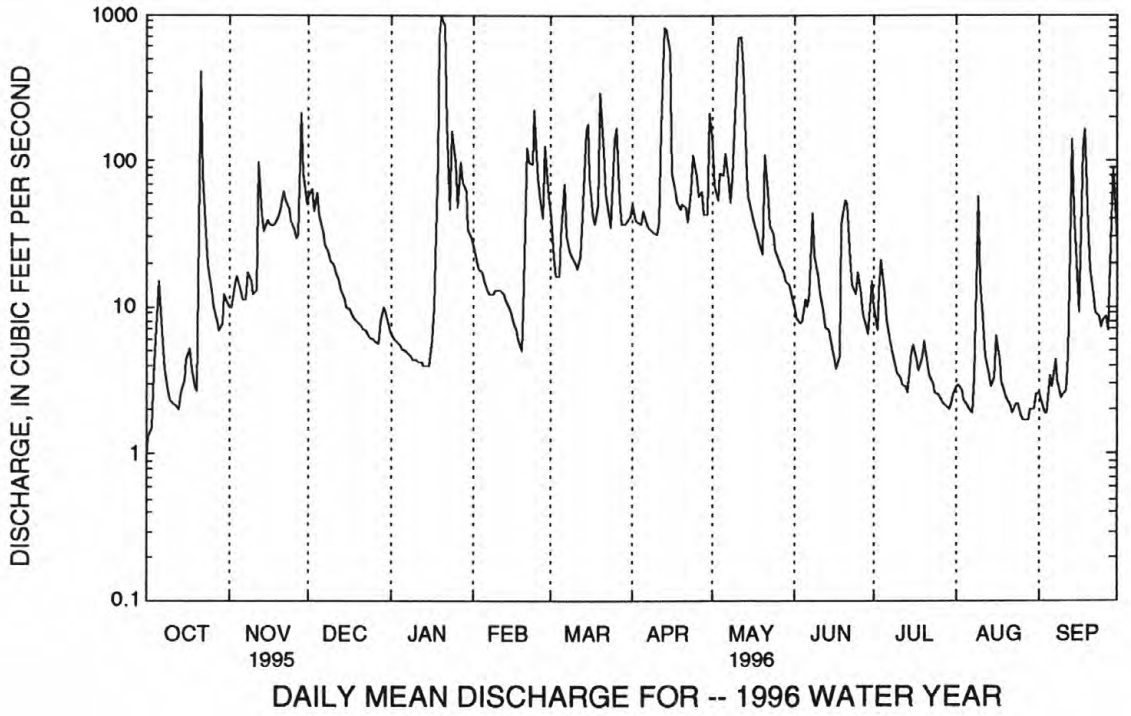
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1996, BY WATER YEAR (WY)

MEAN	16.3	29.2	38.7	36.7	44.5	86.5	84.0	40.4	26.3	7.89	6.31	10.3
MAX	98.4	106	132	113	195	188	205	144	245	46.2	58.6	151
(WY)	1977	1951	1973	1996	1976	1942	1993	1943	1972	1992	1984	1977
MIN	1.09	1.62	1.67	1.85	8.28	24.9	10.9	5.81	1.57	.82	.88	.59
(WY)	1942	1961	1961	1961	1958	1981	1946	1955	1955	1955	1966	1995

01521500 CANISTEO RIVER AT ARKPORT, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1937 - 1996	
ANNUAL TOTAL	8355.68		18002.57			
ANNUAL MEAN	22.9		49.2		35.5	
HIGHEST ANNUAL MEAN					55.9	1972
LOWEST ANNUAL MEAN					20.9	1955
HIGHEST DAILY MEAN	534	Jan 21	e950	Jan 20	1300	Feb 20 1939
LOWEST DAILY MEAN	.19	Sep 12	.97	Oct 1	.19	Sep 12 1995
ANNUAL SEVEN-DAY MINIMUM	.28	Sep 7	1.9	Aug 24	.28	Sep 7 1995
INSTANTANEOUS PEAK FLOW			a1000	Jan 19	2000	b
INSTANTANEOUS PEAK STAGE			c3.69	Jan 19	c5.63	Feb 19 1939
INSTANTANEOUS LOW FLOW			.96	d	f.00	g
10 PERCENT EXCEEDS	54		98		77	
50 PERCENT EXCEEDS	10		13		12	
90 PERCENT EXCEEDS	.95		2.6		1.7	

a About.
b Mar 5, 1938, Feb. 20, 1939.
c Ice jam.
d Oct. 1, 2.
e Estimated.
f Practically no flow (result of construction operations).
g Jul 30, 1938, Sep. 30, 1939.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

01523500 CANACADEA CREEK NEAR HORNELL, NY

LOCATION.--Lat 42°20'05", long 77°41'00", Steuben County, Hydrologic Unit 02050104, on right bank 35 ft downstream from bridge on State Highway 21, 1.2 mi west of Hornell, 1.5 mi downstream from Almond Dam, and 2.0 mi upstream from mouth.

DRAINAGE AREA.--57.9 mi^2.

PERIOD OF RECORD.--October 1940 to December 1942, October 1944 to current year.

REVISED RECORDS.--WSP 2103: Drainage area. WRD NY 1971: 1969(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,185.68 ft above sea level. Oct. 23, 1940 to Dec. 31, 1942, at site 185 ft upstream at different datum.

REMARKS.--Records fair. Since October 1948, floodflows regulated by detention in Almond Lake (see station 01523000). Occasional regulation at low flows to clear debris from gates at Almond Lake. Monthly figures for 1952-66 water years adjusted for regulation. Satellite gage-height telemeter at station. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1935, reached a stage of 16.61 ft, from floodmarks, discharge, 21,000 ft^3/s, on basis of slope-area measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	16	79	e12	e49	43	89	395	22	16	18	7.3
2	6.1	17	139	e11	e54	e24	72	129	17	18	12	6.4
3	6.1	16	128	e10	e44	e22	73	110	15	14	9.6	6.6
4	6.1	18	93	e10	e36	e21	74	117	27	21	10	6.7
5	6.4	20	67	e9.5	e30	68	76	150	26	31	9.9	7.0
6	16	22	52	e9.2	e26	148	73	188	22	29	10	10
7	27	24	51	e9.0	e25	51	66	148	22	26	7.8	21
8	18	24	35	e8.6	e24	27	50	103	72	25	7.9	26
9	10	27	38	e8.3	e25	24	53	102	63	19	47	20
10	8.0	29	28	e8.3	e26	24	59	468	39	16	73	13
11	6.7	35	27	e8.0	e28	31	64	373	29	10	56	8.2
12	7.0	123	28	e8.0	e26	31	172	235	15	11	19	7.0
13	6.8	151	28	e8.0	e24	30	662	791	15	13	9.2	306
14	14	81	28	e7.6	e22	204	1020	1030	15	12	7.6	132
15	12	75	29	e7.8	e19	368	961	459	16	22	11	38
16	7.4	73	32	e16	e16	185	788	116	16	28	11	14
17	5.3	69	33	24	e14	114	428	86	15	31	11	107
18	5.3	68	34	196	e12	47	159	65	14	37	12	269
19	5.3	68	24	145	e10	40	109	56	67	25	13	73
20	5.4	83	16	313	e50	395	91	56	62	19	12	41
21	386	102	22	819	218	439	77	75	97	19	12	30
22	446	99	26	1450	235	136	81	108	74	19	12	22
23	96	89	26	1450	151	73	76	78	37	18	12	22
24	52	70	26	911	227	56	146	50	33	16	12	17
25	23	54	21	479	269	112	176	43	35	14	12	12
26	18	48	18	192	119	368	114	40	27	10	15	13
27	17	48	18	153	70	107	102	39	24	7.5	14	15
28	14	362	23	185	213	73	90	38	18	6.9	7.6	102
29	11	282	27	97	166	66	71	33	11	6.6	7.4	231
30	9.9	94	18	61	---	69	418	31	8.7	6.2	7.0	49
31	14	---	13	51	---	73	---	26	---	17	7.3	---
TOTAL	1271.9	2287	1227	6677.3	2228	3469	6490	5738	953.7	563.2	485.3	1632.2
MEAN	41.0	76.2	39.6	215	76.8	112	216	185	31.8	18.2	15.7	54.4
MAX	446	362	139	1450	269	439	1020	1030	97	37	73	306
MIN	5.3	16	13	7.6	10	21	50	26	8.7	6.2	7.0	6.4

e Estimated

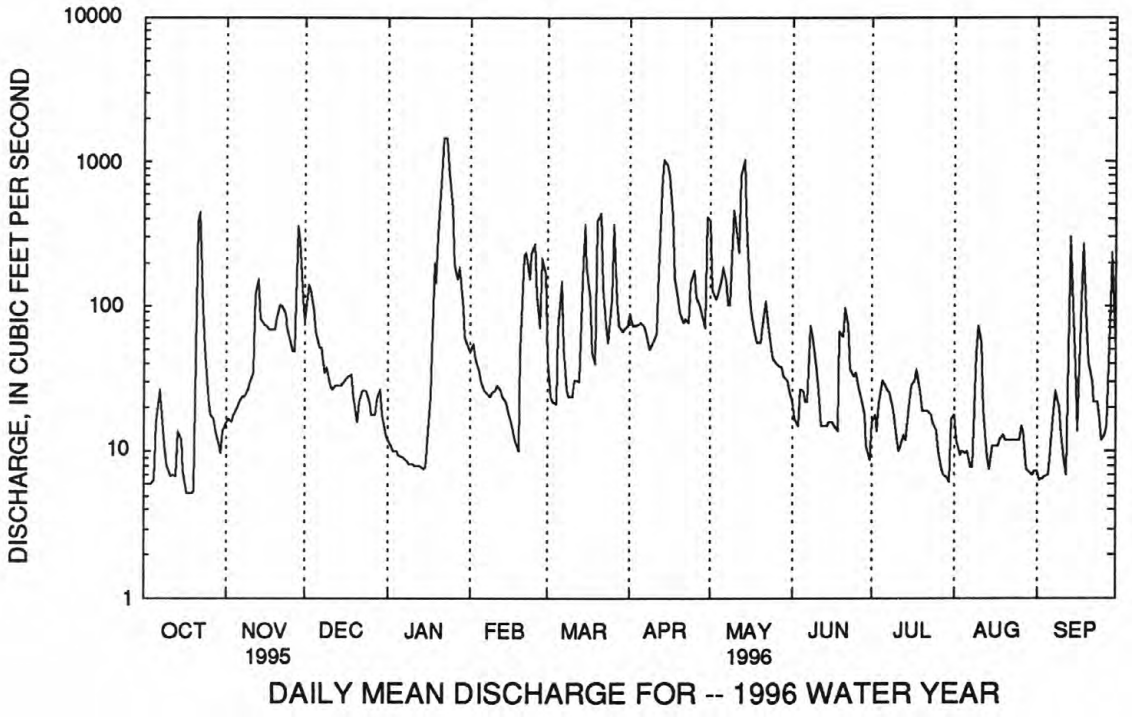
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1996, BY WATER YEAR (WY)

MEAN	32.8	56.5	70.5	66.2	76.3	152	145	74.4	55.6	23.2	19.0	25.9
MAX	139	193	218	215	278	341	470	215	547	111	128	198
(WY)	1977	1951	1973	1996	1976	1945	1993	1984	1972	1972	1984	1977
MIN	6.81	7.63	7.13	6.55	17.7	33.4	22.8	15.5	5.24	4.63	5.13	5.60
(WY)	1942	1942	1961	1961	1980	1969	1946	1955	1965	1965	1965	1941

01523500 CANACADEA CREEK NEAR HORNELL, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1941 - 1996	
ANNUAL TOTAL	16285.4		33022.6			
ANNUAL MEAN	44.6		90.2		66.2	
HIGHEST ANNUAL MEAN					110	1972
LOWEST ANNUAL MEAN					36.9	1965
HIGHEST DAILY MEAN	1100	Jan 22	1450	a	3970	Jun 23 1972
LOWEST DAILY MEAN	1.2	Aug 27	5.3	b	.60	c
ANNUAL SEVEN-DAY MINIMUM	2.5	Aug 21	6.9	Aug 30	.83	May 26 1965
INSTANTANEOUS PEAK FLOW			1800	Jan 22	d9430	May 17 1945
INSTANTANEOUS PEAK STAGE			3.48	Jan 22	6.65	Jun 3 1947
INSTANTANEOUS LOW FLOW			3.8	Aug 27	.50	May 29 1965
10 PERCENT EXCEEDS	89		198		145	
50 PERCENT EXCEEDS	20		28		26	
90 PERCENT EXCEEDS	5.8		8.1		8.2	

a Jan. 22, 23.
b Oct. 17-19.
c May 30 to June 1, 1965.
d From rating curve extended above 3,400 ft^3/s.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

01524500 CANISTEO RIVER BELOW CANACADEA CREEK, AT HORNELL, NY

LOCATION.--Lat 42°18'50", long 77°39'05", Steuben County, Hydrologic Unit 02050104, on right bank 235 ft upstream from Erie Railroad bridge in Hornell, 0.3 mi upstream from Crosby Creek, and 1.5 mi downstream from Canacadea Creek.

DRAINAGE AREA.--158 mi^2.

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

REVISED RECORD--WDR NY-86-3: 1971 (including minimum daily).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,131.32 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diversion from Carrington Creek, a tributary upstream from station, by City of Hornell for municipal supply (1996 average 3.8 ft^3/s); effluent from wastewater treatment plant enters river downstream from gage. Since Nov. 1939, flood flows regulated by Arkport Reservoir (see station 01521000), and, since October 1948, by Almond Lake (see station 01523000); normal regulation occasionally sufficient to affect figures of monthly runoff. Telephone and satellite gage-height telemeters at station. Several measurements of water temperature were made during the year.

COOPERATION.--Records of diversion from Carrington Creek furnished by City of Hornell.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	48	212	e32	122	108	127	751	90	71	e42	24
2	14	48	295	e31	132	89	122	437	83	62	35	23
3	14	51	250	e30	e105	70	114	357	78	59	30	22
4	15	55	223	e29	86	59	113	382	88	88	31	21
5	32	54	172	e28	e70	63	112	400	90	82	30	24
6	73	52	142	e27	61	160	114	456	83	73	29	27
7	59	57	130	e26	60	85	111	401	93	65	25	40
8	46	64	99	e25	59	71	104	333	216	67	37	46
9	30	64	98	e24	61	63	99	337	168	52	181	41
10	23	62	64	e24	62	55	97	778	112	42	103	30
11	20	73	63	e23	67	68	95	e1100	85	35	98	24
12	19	282	59	e23	62	87	316	e700	66	36	50	45
13	19	252	57	e23	57	144	1400	1680	61	39	32	410
14	30	161	58	e22	53	523	2370	1390	62	38	30	240
15	36	170	69	e22	43	768	1870	829	57	77	34	89
16	26	164	79	e38	36	420	1180	435	52	71	40	51
17	20	155	74	e58	34	209	705	365	50	63	36	163
18	19	156	70	e430	29	132	455	304	54	68	35	448
19	19	169	54	e2250	24	124	376	253	198	63	33	134
20	19	202	e42	1720	46	1040	330	219	284	50	32	103
21	884	263	e48	1650	144	768	279	340	301	46	33	83
22	647	246	e54	1710	143	367	244	312	182	45	32	69
23	160	215	e54	1560	134	254	233	248	113	43	33	60
24	116	176	e49	1180	373	188	403	200	101	33	33	54
25	69	141	e41	753	277	259	409	170	101	36	31	47
26	55	130	e34	406	152	693	280	149	86	32	32	42
27	50	129	e34	433	123	254	233	136	73	e22	33	41
28	45	707	e42	427	277	174	205	128	63	e20	26	124
29	41	502	e48	270	197	152	190	119	55	e19	25	302
30	43	245	e40	196	---	137	560	108	86	e22	24	88
31	45	---	e36	162	---	130	---	99	---	e40	24	---
TOTAL	2702	5093	2790	13632	3089	7714	13246	13916	3231	1559	1289	2915
MEAN	87.2	170	90.0	440	107	249	442	449	108	50.3	41.6	97.2
MAX	884	707	295	2250	373	1040	2370	1680	301	88	181	448
MIN	14	48	34	22	24	55	95	99	50	19	24	21

e Estimated

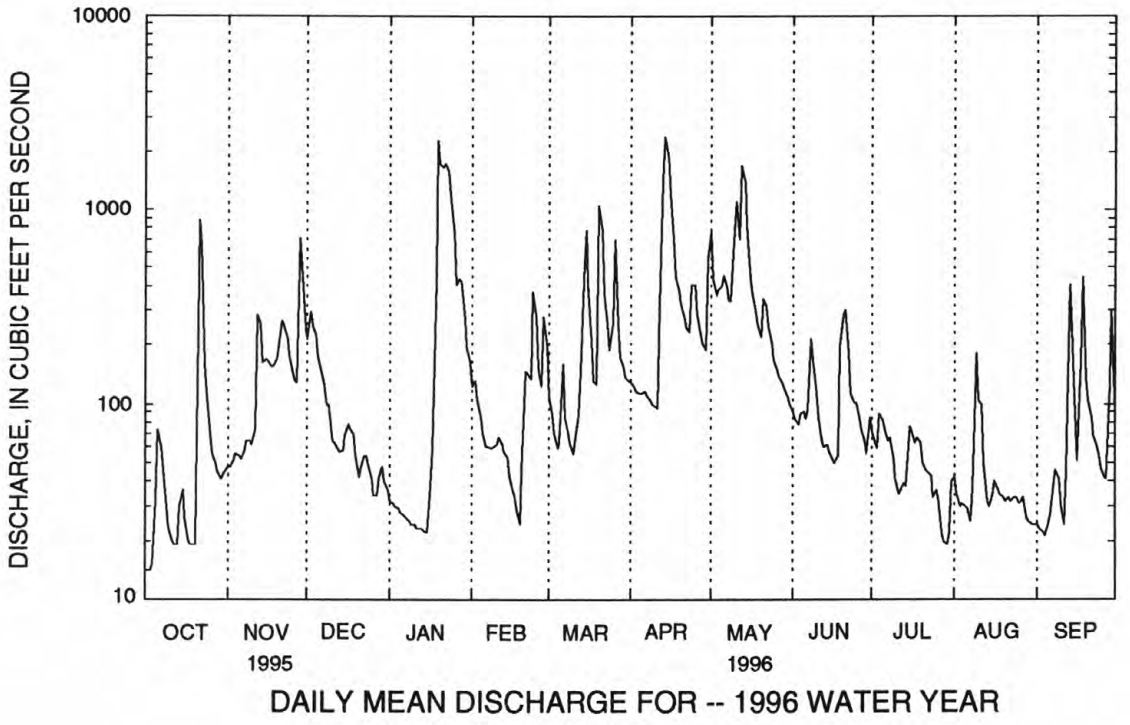
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1996, BY WATER YEAR (WY)

MEAN	76.0	126	159	155	183	361	348	197	139	55.4	47.4	60.7
MAX	304	455	551	440	722	826	877	696	1226	249	303	498
(WY)	1977	1951	1973	1996	1976	1945	1993	1943	1972	1972	1984	1977
MIN	13.5	17.9	16.6	15.6	35.6	111	66.6	42.4	20.1	13.8	13.2	11.7
(WY)	1965	1965	1961	1961	1963	1969	1946	1955	1955	1955	1965	1955

01524500 CANISTEO RIVER BELOW CANACADEA CREEK, AT HORNELL, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1942 - 1996	
ANNUAL TOTAL	38763		71176			
ANNUAL MEAN	106		194		159	
HIGHEST ANNUAL MEAN					255	1972
LOWEST ANNUAL MEAN					79.8	1965
HIGHEST DAILY MEAN	1520	Jan 21	2370	Apr 14	7440	Jun 23 1972
LOWEST DAILY MEAN	12	a	14	b	9.0	Sep 13 1955
ANNUAL SEVEN-DAY MINIMUM	13	Aug 22	23	Jan 9	10	Sep 8 1955
INSTANTANEOUS PEAK FLOW			c3400	Jan 19	d9560	Jun 23 1972
INSTANTANEOUS PEAK STAGE			f6.90	Jan 19	g13.45	Jun 23 1972
INSTANTANEOUS LOW FLOW			13	Oct 1	7.4	h
10 PERCENT EXCEEDS	227		428		349	
50 PERCENT EXCEEDS	57		73		69	
90 PERCENT EXCEEDS	15		26		22	

a Aug. 26, 27, 28, Sep. 8, 11.
b Oct. 1, 2, 3.
c About.
d From rating curve extended above 7,600 ft^3/s on basis of critical-depth measurement of peak flow.
f Ice jam.
g From floodmark.
h Sep. 13, 14, 1955.



01526500 TIOGA RIVER NEAR ERWINS, NY

LOCATION.--Lat 42°07'16", long 77°07'46", Steuben County, Hydrologic Unit 02050104, on right bank 20 ft downstream from bridge on Mulholland Road, 1.1 mi northeast of Erwins, and 1.1 mi downstream from Canisteo River.

DRAINAGE AREA.--1,377 mi^2.

PERIOD OF RECORD.--July 1918 to current year.

REVISED RECORDS.--WSP 891: 1935-38. WSP 1672: 1919(M), 1927(M), 1929(M). WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 931.24 ft above sea level. Prior to June 21, 1931, nonrecording gage on highway bridge at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. High flows regulated by upstream reservoirs. Telephone and satellite gage-height telemeters at station. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	482	2620	652	1680	1860	2130	12500	562	270	171	120
2	88	478	3430	621	1460	1470	2240	7900	494	251	179	118
3	88	566	2840	e500	e1300	1550	2200	4970	464	253	176	117
4	91	687	2440	e600	870	1170	2170	4270	428	378	169	116
5	103	701	2420	e600	e850	1170	2030	4170	419	370	162	128
6	300	513	1630	e550	e800	2160	1870	3600	377	276	159	123
7	334	500	1410	e500	755	1640	1770	3530	354	252	156	136
8	246	554	e1150	e460	715	e900	1790	2680	371	248	153	138
9	221	543	e950	e440	805	e900	1550	2500	630	243	249	148
10	188	509	e750	e420	1080	e900	1560	6290	507	227	491	157
11	163	471	e620	e400	889	903	1420	15800	433	209	297	156
12	139	2100	e600	e380	e800	975	1580	16700	435	198	247	147
13	124	3180	e640	e370	e700	1250	13900	12600	406	194	211	542
14	130	2300	e660	e370	e600	2980	14600	11400	381	212	183	2720
15	158	2430	e900	e360	e560	6140	7960	6710	340	266	174	1140
16	250	2310	845	e360	e540	4140	6650	3620	264	1040	173	621
17	287	2190	e720	e360	515	2350	5590	2690	248	616	167	606
18	210	2170	e640	e500	465	1840	3760	2340	258	357	162	3660
19	206	2030	e600	e28000	501	1970	2950	1950	358	335	156	2150
20	167	2050	e550	14800	e800	9580	2630	1600	714	324	151	1160
21	8480	2410	e800	7090	8330	8450	2620	1670	1020	297	155	893
22	11800	2430	e760	11500	6010	4520	2210	2540	820	229	148	848
23	5310	2180	e740	13200	4200	3000	2240	1930	641	206	148	967
24	2510	1890	e720	13200	6270	2280	3010	1450	467	189	146	1330
25	1550	1650	e700	11600	5840	2180	3300	1270	430	177	142	1320
26	1150	1380	e650	11300	3460	3810	3070	987	358	176	136	1270
27	851	1380	e650	10200	2560	2770	2620	1080	316	169	133	1210
28	904	3970	e620	9510	3640	2120	2380	1740	291	160	133	949
29	691	4820	e620	6330	3520	1920	3070	1160	254	173	131	3250
30	542	2670	e600	3980	---	2180	10700	703	254	200	125	1760
31	516	---	707	1810	---	2140	---	653	---	195	123	---
TOTAL	37885	51544	33982	150963	60515	81218	115570	143003	13294	8690	5506	28000
MEAN	1222	1718	1096	4870	2087	2620	3852	4613	443	280	178	933
MAX	11800	4820	3430	28000	8330	9580	14600	16700	1020	1040	491	3660
MIN	88	471	550	360	465	900	1420	653	248	160	123	116
CFSM	.89	1.25	.80	3.54	1.52	1.90	2.80	3.35	.32	.20	.13	.68
IN.	1.02	1.39	.92	4.08	1.63	2.19	3.12	3.86	.36	.23	.15	.76

e Estimated

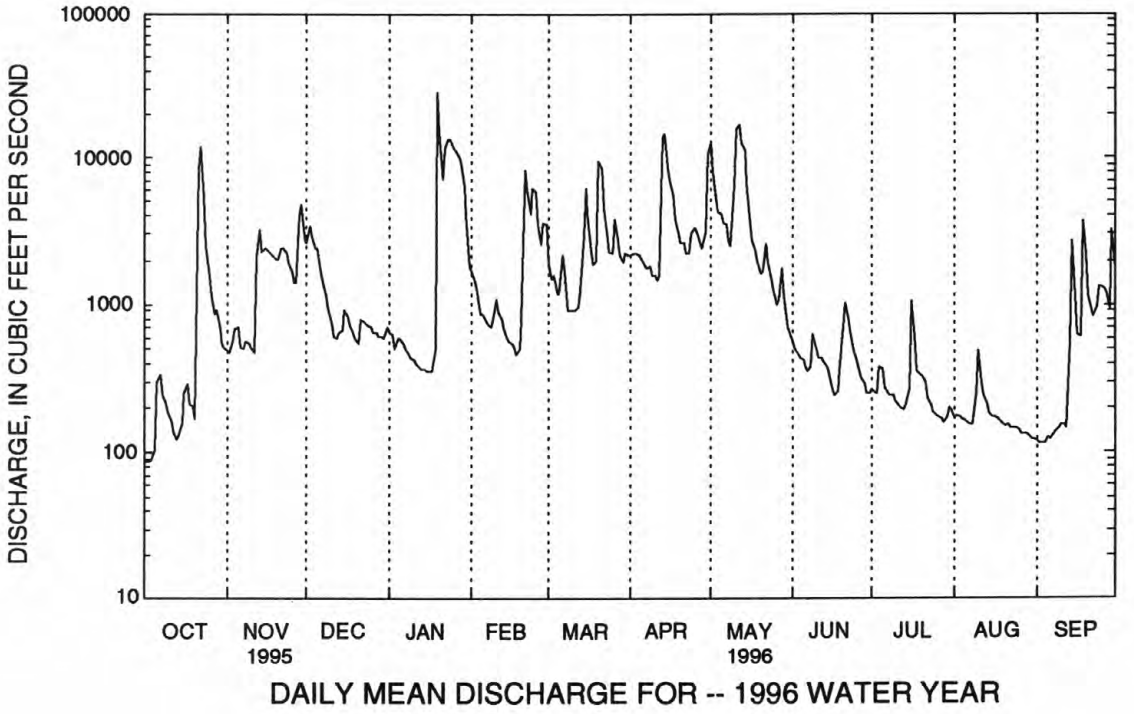
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1996, BY WATER YEAR (WY)

MEAN	592	1127	1316	1269	1488	3437	3342	1964	1015	438	355	358
MAX	4160	5296	4369	4870	5305	11350	11970	7043	8905	2310	3257	3992
(WY)	1991	1928	1973	1996	1976	1936	1993	1919	1972	1935	1994	1975
MIN	44.8	60.4	95.5	108	140	843	469	316	136	72.7	49.6	38.7
(WY)	1965	1965	1931	1961	1934	1981	1946	1934	1955	1962	1966	1932

01526500 TIOGA RIVER NEAR ERWINS, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1918 - 1996	
ANNUAL TOTAL	385187		730170			
ANNUAL MEAN	1055		1995		1390	
HIGHEST ANNUAL MEAN					2371	1978
LOWEST ANNUAL MEAN					634	1965
HIGHEST DAILY MEAN	17100	Jan 21	28000	Jan 19	110000	Jun 23 1972
LOWEST DAILY MEAN	88	a	88	b	20	Sep 2 1939
ANNUAL SEVEN-DAY MINIMUM	90	Sep 28	121	Aug 31	22	Aug 28 1939
INSTANTANEOUS PEAK FLOW			45600	Jan 19	c190000	Jun 23 1972
INSTANTANEOUS PEAK STAGE			16.88	Jan 19	d26.74	Jun 23 1972
INSTANTANEOUS LOW FLOW			88	f	18	g
ANNUAL RUNOFF (CFSM)	.77		1.45		1.01	
ANNUAL RUNOFF (INCHES)	10.41		19.73		13.72	
10 PERCENT EXCEEDS	2420		4860		3310	
50 PERCENT EXCEEDS	569		745		527	
90 PERCENT EXCEEDS	109		159		106	

a Aug. 25, 26, 27, Sep. 30, Oct 1, 2, 3.
b Oct 1, 2, 3.
c From rating curve extended above 90,000 ft^3/s, on basis of computation of peak flow at Lindley and Canisteo River at Erwins, 7.2 mi and 2.0 mi upstream, respectively, adjusted for flow from intervening area.
d From floodmarks.
f Oct. 1-4.
g Sep. 2, 3, 1939.



01528700 DIVERSION FROM WANETA LAKE TO KEUKA LAKE AT KEUKA, NY

LOCATION.--Lat 42°29'06", long 77°06'39", Steuben County, Hydrologic Unit 02050105, at entrance to conduit on Diversion Canal, 0.8 mi east of Keuka, and 1.0 mi north of Wayne.

DRAINAGE AREA.--45.5 mi^2.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Daily power generation records.

REMARKS.--Records for March 1931 (when diversion and power generation began) to September 1966 on file. Sketch indicates diversion from Lamoka-Waneta Lakes (Susquehanna River Basin) to Keuka Lake (Oswego River Basin).

COOPERATION.--Records furnished by New York State Electric and Gas Corp.

AVERAGE DISCHARGE.--30 years, 19.7 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 73 ft^3/s, June 23, 1972; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 72 ft^3/s, many days; no flow for many days.

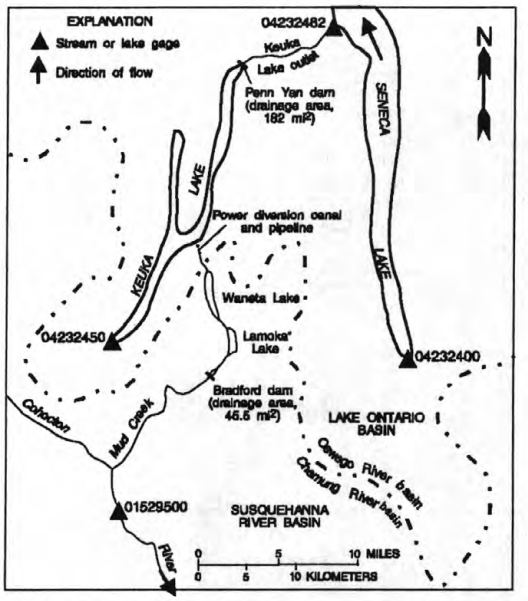


Figure 5.--Gaging stations and transbasin diversion, Cohocton River-Keuka Lake area.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	42	.00	.00	.00	28	19	.00	.00	.00	.00
2	.00	.00	42	.00	.00	.00	60	44	.00	.00	.00	.00
3	.00	.00	42	.00	.00	.00	60	42	.00	.00	.00	.00
4	.00	.00	23	.00	.00	.00	56	55	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	56	55	24	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	59	56	42	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	59	39	42	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	33	39	44	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	39	44	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	72	44	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	72	30	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	65	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	12	63	.00	.00	.00	.00
14	.00	22	.00	.00	.00	.00	59	56	.00	.00	.00	.00
15	.00	42	.00	.00	.00	1.8	60	58	.00	.00	.00	.00
16	.00	42	.00	.00	.00	52	60	49	.00	.00	.00	.00
17	.00	39	.00	.00	.00	.00	60	47	.00	.00	.00	.00
18	.00	39	.00	.00	.00	.00	59	42	.00	.00	.00	.00
19	.00	39	.00	.00	.00	.00	60	42	.00	.00	.00	.00
20	.00	34	.00	.00	.00	27	60	41	24	.00	.00	.00
21	.00	44	.00	.00	.00	63	59	41	42	.00	.00	.00
22	.00	48	.00	.00	.00	50	60	42	42	.00	.00	.00
23	29	48	.00	.00	.00	50	60	42	42	.00	.00	.00
24	49	38	.00	.00	.00	50	59	39	55	.00	.00	.00
25	49	38	.00	.00	.00	21	60	39	55	.00	.00	.00
26	49	38	.00	.00	.00	.00	58	39	48	.00	.00	.00
27	48	42	.00	.00	.00	.00	59	39	47	.00	.00	.00
28	48	29	.00	.00	.00	32	59	26	20	.00	.00	.00
29	49	42	.00	.00	.00	38	60	.00	.00	.00	.00	.00
30	46	42	.00	.00	---	.00	15	.00	.00	.00	.00	.00
31	26	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	393.00	666.00	149.00	0.00	0.00	384.80	1390.00	1302.00	645.00	0.00	0.00	0.00
MEAN	12.7	22.2	4.81	.000	.000	12.4	46.3	42.0	21.5	.000	.000	.000
MAX	49	48	42	.00	.00	63	60	72	55	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

CAL YR 1995 TOTAL 5186.00 MEAN 14.2 MAX 71 MIN .00
WTR YR 1996 TOTAL 4929.80 MEAN 13.5 MAX 72 MIN .00

01529500 COHOCTON RIVER NEAR CAMPBELL, NY

LOCATION.--Lat 42°15'09", long 77°13'01", Steuben County, Hydrologic Unit 02050105, on left bank just downstream from bridge on town road at junction with County Highway 125, 1.9 mi upstream from Michigan Creek, and 2.0 mi north of Campbell.

DRAINAGE AREA.--470 mi^2.

PERIOD OF RECORD.--July 1918 to current year.

REVISED RECORDS.--WSP 891: 1935. WSP 1302: 1919-20(M), 1927-28(M), 1928-38 (monthly runoff). WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,016.34 ft above sea level. Prior to Mar. 5, 1937, nonrecording gage on highway bridge.

REMARKS.--Records good except those for periods of estimated daily discharges, which are fair. During each year since March 1931, a large part of flow from 45.5 mi^2 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. Telephone and satellite gage-height telemeters at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 19	2030	*18,300	*9.55	Apr. 30	2030	6,240	5.82
Apr. 13	2330	7,940	6.57	May 12	0200	7,140	6.23

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	147	738	188	e600	e460	675	3920	313	488	100	51
2	39	141	1010	182	e500	e440	636	2430	294	332	102	50
3	31	144	793	e140	e400	e410	652	1550	268	355	100	49
4	26	146	768	e190	e350	e380	706	1610	256	460	94	48
5	32	137	686	e200	e320	e380	768	1740	263	353	87	49
6	190	128	620	e190	e280	e550	789	1750	245	286	78	53
7	121	126	581	e185	e260	e390	754	1550	232	255	74	163
8	91	152	e500	e180	e300	e320	711	1200	346	247	103	181
9	78	151	e480	e175	e800	e300	611	1230	303	224	734	93
10	66	139	e340	e175	377	e280	555	2420	262	203	371	107
11	59	137	e340	e170	e320	e280	527	5030	230	189	199	90
12	51	308	e320	e170	e290	e300	599	6250	212	179	152	88
13	47	302	e300	e165	e260	e380	5570	4090	244	237	133	742
14	49	268	e280	e165	e250	1130	6360	2870	252	272	121	767
15	56	327	296	e160	e240	2020	3780	2240	215	322	108	436
16	59	343	301	e160	e230	1340	2650	1790	191	325	112	252
17	63	331	272	e250	e220	833	2170	1320	175	208	106	351
18	57	340	e260	e420	e210	705	1610	1040	178	169	98	920
19	53	360	e240	e10500	e200	738	1180	892	413	158	90	602
20	48	404	e200	10300	e400	2720	1110	764	671	174	83	471
21	1880	506	267	4880	e2000	2490	1040	997	1240	153	80	417
22	1520	514	250	2950	1450	1670	923	1020	667	136	74	434
23	753	473	230	2210	1140	1140	1060	755	1110	125	72	397
24	487	426	219	1970	2020	823	1480	694	602	117	72	252
25	347	363	e210	1840	1550	861	1550	596	845	109	69	183
26	268	372	e200	1380	1190	1380	1280	521	704	107	64	176
27	219	352	e195	1880	849	944	1130	478	500	103	61	157
28	192	913	e190	1780	996	757	937	434	414	97	60	255
29	175	1070	e185	1260	e750	728	934	409	297	93	58	863
30	167	802	e180	e1100	---	695	3210	371	601	97	54	561
31	155	---	e200	e800	---	659	---	341	---	97	53	---
TOTAL	7426	10322	11651	46315	18752	26503	45957	52302	12543	6670	3762	9258
MEAN	240	344	376	1494	647	855	1532	1687	418	215	121	309
MAX	1880	1070	1010	10500	2020	2720	6360	6250	1240	488	734	920
MIN	26	126	180	140	200	280	527	341	175	93	53	48

e Estimated

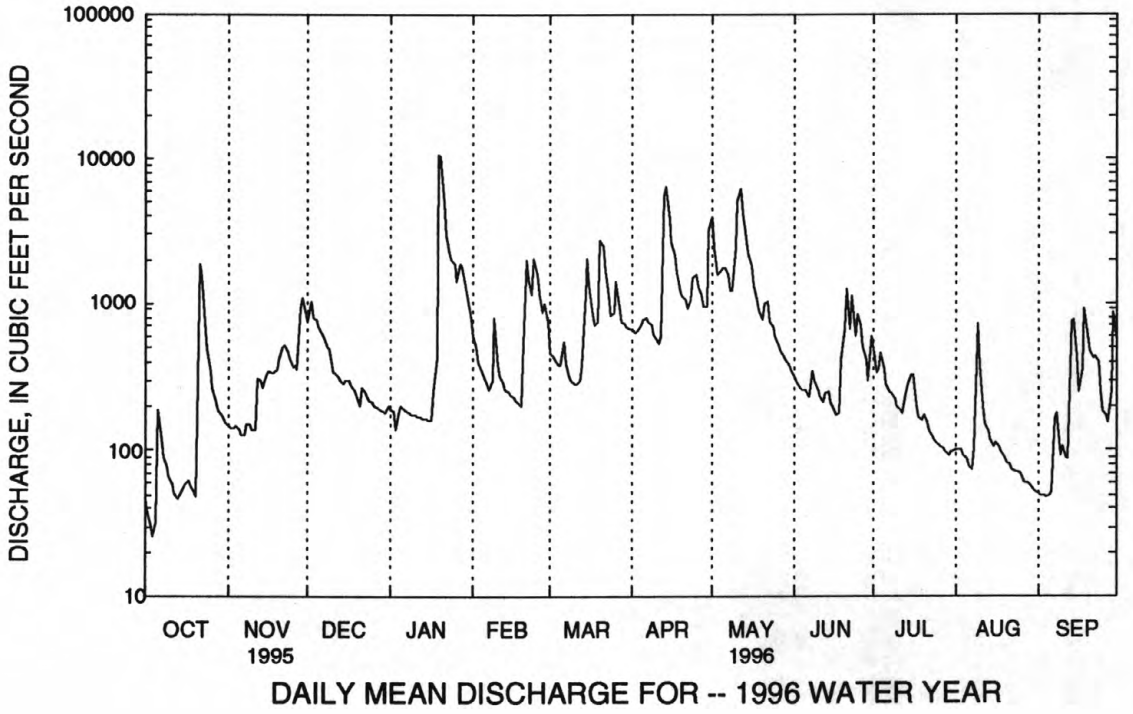
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1996, BY WATER YEAR (WY)

MEAN	183	328	422	407	484	1116	1138	611	337	181	121	137
MAX	1284	1611	1861	1494	2059	3793	3579	2074	3167	2278	649	1204
(WY)	1956	1928	1928	1996	1976	1936	1993	1919	1972	1935	1992	1977
MIN	25.7	33.0	42.5	32.5	75.1	312	201	143	59.2	31.1	25.0	15.5
(WY)	1942	1942	1961	1961	1920	1965	1946	1934	1955	1955	1934	1934

01529500 COHOCTON RIVER NEAR CAMPBELL, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1918 - 1996	
ANNUAL TOTAL	109182		251461			
ANNUAL MEAN	299		687		455	
HIGHEST ANNUAL MEAN					766	1956
LOWEST ANNUAL MEAN					210	1965
HIGHEST DAILY MEAN	4430	Jan 21	10500	Jan 19	24400	Jul 8 1935
LOWEST DAILY MEAN	18	Sep 8	26	Oct 4	8.0	Sep 6 1934
ANNUAL SEVEN-DAY MINIMUM	22	Sep 3	50	Aug 31	11	Sep 3 1934
INSTANTANEOUS PEAK FLOW			18300	Jan 19	a41100	Jul 8 1935
INSTANTANEOUS PEAK STAGE			9.55	Jan 19	b11.6	Jul 8 1935
INSTANTANEOUS LOW FLOW			23	Oct 5	8.0	c
10 PERCENT EXCEEDS	637		1550		1100	
50 PERCENT EXCEEDS	190		320		204	
90 PERCENT EXCEEDS	32		82		49	

a From rating curve extended above 24,200 ft^3/s on basis of velocity-area and slope-area measurements of peak flow.
b From floodmark.
c Sep. 6, 7, 1934.



01529950 CHEMUNG RIVER AT CORNING, NY

LOCATION.--Lat 42°08'47", long 77°03'28", Steuben County, Hydrologic Unit 02050105, on right bank adjacent to Corning Glass Works power plant, 0.2 mi upstream from bridge on State Highway 414 (Centerway St.) at Corning, and 1.7 mi downstream from Cohocton River.

DRAINAGE AREA.--2,006 mi^2.

PERIOD OF RECORD.--Occasional discharge measurements water years 1941, 1968-69. October 1974 to current year.

REVISED RECORDS.--WRD NY-78-1: 1976, 1977(M). WDR NY-83-3: 1982(M).

GAGE.--Water-stage recorder. Datum of gage is 900.00 ft above sea level.

REMARKS.--Records poor. High flows significantly regulated by upstream reservoirs. During each year a large part of flow from 45.5 mi^2 of drainage area is diverted upstream from Lake Lamoka on Mud Creek, an upstream tributary, into Keuka Lake (Oswego River basin) for power development. For table of diversion, see station 01528700. Telephone and satellite gage-height telemeters at station. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972, reached a stage of 40.71 ft, from floodmark; discharge 228,000 ft^3/s, from peak flows determined at upstream and downstream stations adjusted for drainage area and channel storage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	670	e3500	e1000	e2500	2440	e2900	e17400	938	e800	e300	e200
2	150	659	e4600	e950	e2100	e1970	e3000	e11300	841	e640	e310	e190
3	142	e740	e3800	e800	e1800	e2050	e2950	e6600	773	e680	e300	e190
4	140	e880	e3500	e900	e1300	e1650	e3000	e5980	707	e900	e290	e190
5	154	868	e3300	e950	e1250	e1650	e2900	e6000	e740	e800	e280	211
6	e530	692	e2400	e900	e1150	e2800	e2750	e5450	e650	e640	e270	207
7	507	671	e2100	e800	e1050	e2100	e2650	e5200	e630	e580	e260	e330
8	362	e740	e1800	e750	e1050	e1300	e2600	3940	e760	e550	e270	342
9	331	723	1490	e700	e1700	e1280	e2300	e3800	e1000	e520	e1050	e280
10	286	702	e1200	e680	e1550	e1240	e2200	e8800	e840	e500	e950	e300
11	248	654	e1000	e650	e1300	e1220	e2050	e21500	e740	e470	e550	e280
12	214	e2500	e950	e650	e1200	e1350	e2300	24300	e720	e450	e450	e270
13	191	e3600	e950	e620	e1100	e1800	e20000	e17000	e720	e500	e400	e1400
14	193	e2700	e1000	e620	e1000	e4200	e22000	e15000	e680	e550	e350	e3600
15	e240	e2900	e1250	e610	e900	e8300	e12700	9120	e600	e650	e330	e1700
16	e350	e2800	e1200	e600	e850	e5600	e9400	5700	e500	e1500	e320	e950
17	e400	e2700	e1050	e700	e800	e3300	e7850	4280	e480	e900	e320	e1050
18	302	e2600	e950	e1100	e750	e2650	5440	3600	e490	e600	e310	e4700
19	271	e2500	e850	e42000	e800	e2850	e4200	3090	e850	e570	e300	2820
20	242	e2600	e800	25700	e1300	e13500	e3850	2590	e1500	e570	e290	e1700
21	e11500	e3100	e1150	e13000	e11000	e12000	e3750	e2750	e2400	e500	e280	e1400
22	e14500	3000	e1050	e15500	e8500	e6300	e3200	e3700	e1600	e400	e270	e1380
23	6210	2750	e1010	e16500	e6300	e4300	e3400	2820	e1900	e370	e270	e1450
24	3130	2390	e980	e16200	e8400	e3200	e4600	2260	e1150	e340	e260	e1700
25	1980	2060	e950	e14500	e7400	e3150	e5000	2020	e1400	e320	e250	e1600
26	1480	e1800	e900	e13700	e4750	e6300	e4500	1690	e1150	e310	e240	e1550
27	1140	e1780	e900	e13400	e3500	e3850	e3850	1590	e900	e300	e230	e1470
28	e1150	e5100	e850	e12500	e4750	e3000	e3450	e2250	e780	e280	233	e1300
29	923	6010	e850	e8000	e4400	e2800	e4100	1720	e600	e290	e220	e4200
30	766	e3600	e850	5230	---	e3000	e15000	1180	e900	e330	e210	e2400
31	720	---	e1050	3030	---	e2900	---	1050	---	e320	e210	---
TOTAL	48911	64489	48230	213240	84450	114050	167890	203680	27939	17130	10573	39360
MEAN	1578	2150	1556	6879	2912	3679	5596	6570	931	553	341	1312
MAX	14500	6010	4600	42000	11000	13500	22000	24300	2400	1500	1050	4700
MIN	140	654	800	600	750	1220	2050	1050	480	280	210	190
CFSM	.79	1.07	.78	3.43	1.45	1.83	2.79	3.28	.46	.28	.17	.65
IN.	.91	1.20	.89	3.96	1.57	2.12	3.11	3.78	.52	.32	.20	.73

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1996, BY WATER YEAR (WY)

MEAN	1217	1722	2240	2118	2661	4366	4778	2576	1603	725	683	944
MAX	5478	5111	5246	6879	7993	9533	16150	6692	5835	1851	3388	5569
(WY)	1991	1978	1978	1996	1976	1979	1993	1989	1989	1984	1994	1975
MIN	157	341	389	328	537	1284	1599	549	244	173	184	141
(WY)	1992	1992	1989	1981	1980	1981	1981	1985	1991	1991	1991	1991

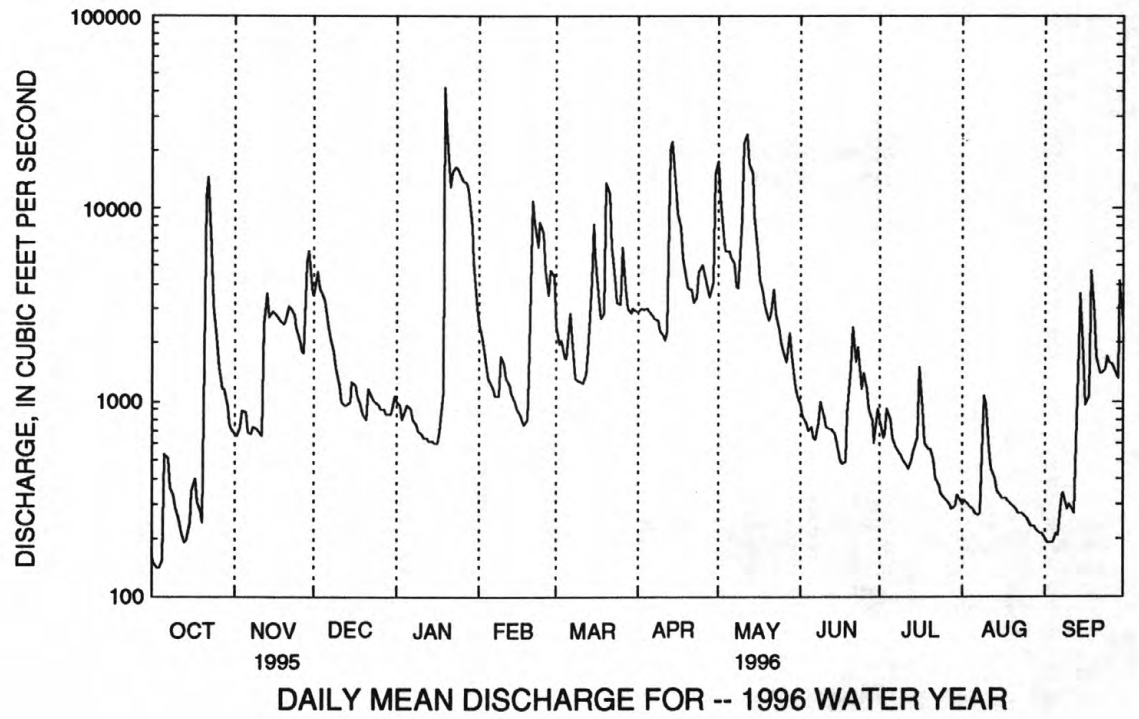
01529950 CHEMUNG RIVER AT CORNING, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1975 - 1996	
ANNUAL TOTAL	511708		1039942			
ANNUAL MEAN	1402		2841		2131	
HIGHEST ANNUAL MEAN					3284	1978
LOWEST ANNUAL MEAN					1287	1988
HIGHEST DAILY MEAN	20000	Jan 21	e42000	Jan 19	87100	Sep 26 1975
LOWEST DAILY MEAN	128	Sep 21	140	Oct 4	105	Oct 3 1980
ANNUAL SEVEN-DAY MINIMUM	138	Sep 15	200	Aug 31	108	Oct 2 1980
INSTANTANEOUS PEAK FLOW			a61000	Jan 19	127000	Sep 26 1975
INSTANTANEOUS PEAK STAGE			Unknown		32.46	Sep 26 1975
INSTANTANEOUS LOW FLOW			Unknown		95	b
ANNUAL RUNOFF (CFSM)	.70		1.42		1.06	
ANNUAL RUNOFF (INCHES)	9.49		19.29		14.44	
10 PERCENT EXCEEDS	3240		6300		4970	
50 PERCENT EXCEEDS	850		1150		974	
90 PERCENT EXCEEDS	184		280		238	

a About.

b Sep. 9, 10, 23, 24, 1991.

e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

01530500 NEWTOWN CREEK AT ELMIRA, NY

LOCATION.--Lat 42°06'16", long 76°47'54", Chemung County, Hydrologic Unit 02050105, on left bank 200 ft downstream from bridge on Linden Place in Elmira, and 1.5 mi upstream from mouth.

DRAINAGE AREA.--77.5 mi^2.

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 1502: 1956. WSP 2103: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 838.35 ft above sea level.

REMARKS.--No estimated daily discharges. Records fair. Diurnal fluctuation at low flow caused by numerous industrial operations upstream. Since August 1989, high flows regulated by detention in upstream reservoir. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	27	150	29	61	79	95	482	46	193	22	16
2	13	27	233	29	62	72	92	249	39	107	24	15
3	14	33	130	25	51	64	93	179	36	273	21	15
4	16	38	130	27	45	49	105	169	39	234	19	22
5	22	31	108	28	41	54	114	161	36	154	19	20
6	49	28	91	26	40	60	93	168	35	95	19	18
7	30	30	78	25	37	48	94	154	35	68	19	23
8	18	45	76	25	37	43	92	119	44	66	70	19
9	18	39	85	25	40	44	96	118	154	58	294	19
10	25	34	65	25	40	43	113	354	162	46	101	24
11	17	37	47	25	40	40	102	1550	101	40	57	19
12	14	389	41	25	36	43	149	1530	70	35	44	18
13	14	e110	37	25	31	53	1370	573	64	33	38	43
14	20	e85	37	25	33	162	1100	314	72	35	33	34
15	129	e100	39	26	31	344	410	221	57	64	30	24
16	57	e95	40	21	28	192	666	171	45	96	33	21
17	38	e85	39	27	27	107	467	147	39	55	33	57
18	26	e80	37	61	26	95	273	122	41	43	27	121
19	22	e87	35	2470	24	105	203	104	82	39	23	65
20	19	e100	31	2150	30	651	168	89	117	36	22	44
21	1210	e110	35	1100	226	366	196	111	195	30	23	34
22	1020	e110	34	580	140	216	144	117	513	27	21	27
23	273	e95	33	219	103	145	144	86	861	27	21	25
24	140	e85	32	206	357	111	209	76	315	34	22	23
25	97	e70	32	199	185	124	189	66	270	27	19	24
26	80	e75	31	121	128	178	157	56	170	27	18	24
27	69	e75	27	253	94	116	188	54	113	30	18	22
28	61	411	32	224	182	95	127	51	84	22	19	29
29	52	322	29	120	117	92	211	48	68	20	18	82
30	42	162	26	104	---	98	509	44	354	23	18	55
31	34	---	29	86	---	93	---	44	---	22	17	---
TOTAL	3651	3015	1869	8331	2292	3982	7969	7727	4257	2059	1162	982
MEAN	118	100	60.3	269	79.0	128	266	249	142	66.4	37.5	32.7
MAX	1210	411	233	2470	357	651	1370	1550	861	273	294	121
MIN	12	27	26	21	24	40	92	44	35	20	17	15
CFSM	1.52	1.30	.78	3.47	1.02	1.66	3.43	3.22	1.83	.86	.48	.42
IN.	1.75	1.45	.90	4.00	1.10	1.91	3.83	3.71	2.04	.99	.56	.47

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1996, BY WATER YEAR (WY)

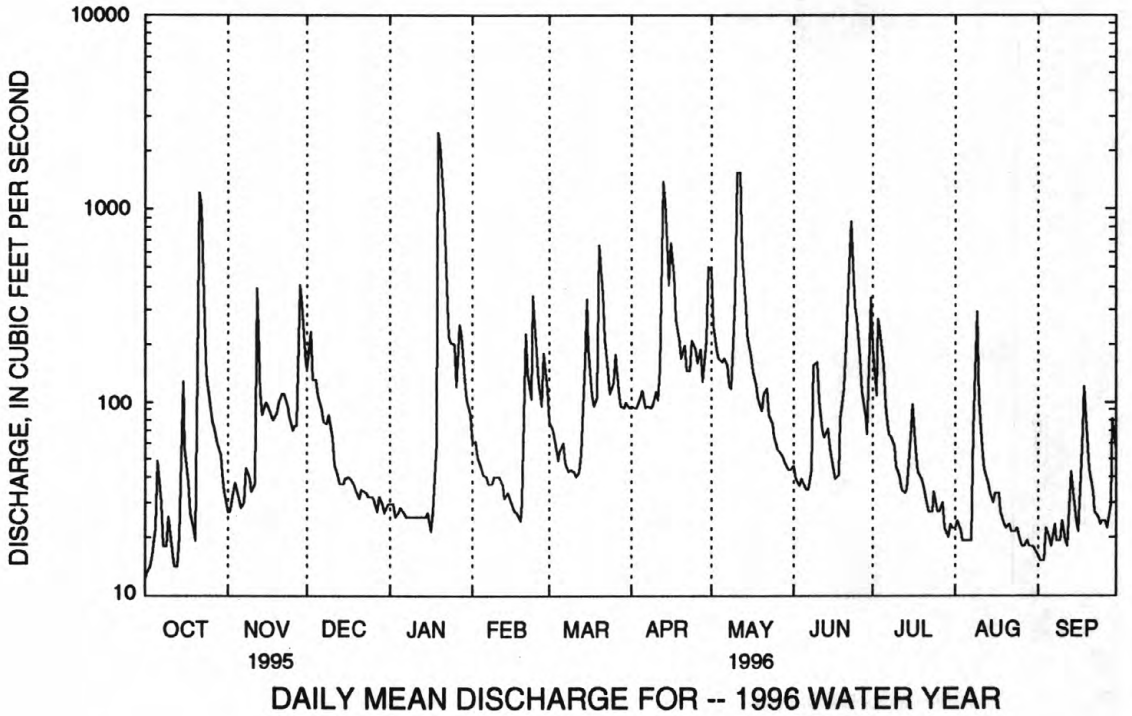
MEAN	51.4	73.5	92.0	77.5	97.2	192	188	112	63.3	35.9	32.4	32.5
MAX	365	258	238	269	274	364	747	313	297	111	171	232
(WY)	1956	1978	1943	1996	1976	1945	1993	1943	1972	1958	1994	1975
MIN	7.32	8.23	12.3	9.32	18.9	43.0	36.8	20.1	12.8	7.30	5.49	6.22
(WY)	1942	1942	1961	1981	1980	1981	1946	1985	1985	1991	1980	1985

SUSQUEHANNA RIVER BASIN

01530500 NEWTOWN CREEK AT ELMIRA, NY

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1938 - 1996	
ANNUAL TOTAL	27407.0		47296			
ANNUAL MEAN	75.1		129		87.1	
HIGHEST ANNUAL MEAN					140	1978
LOWEST ANNUAL MEAN					38.2	1965
HIGHEST DAILY MEAN	1210	Oct 21	2470	Jan 19	3030	Sep 26 1975
LOWEST DAILY MEAN	6.3	a	12	Oct 1	1.7	Sep 16 1985
ANNUAL SEVEN-DAY MINIMUM	6.6	Aug 24	17	Aug 28	2.8	Sep 13 1985
INSTANTANEOUS PEAK FLOW			3810	Jan 19	b4000	Jun 23 1972
INSTANTANEOUS PEAK STAGE			16.98	Jan 19	c19.28	Jun 23 1972
ANNUAL RUNOFF (CFSM)	.97		1.67		1.12	
ANNUAL RUNOFF (INCHES)	13.16		22.70		15.27	
10 PERCENT EXCEEDS	163		238		188	
50 PERCENT EXCEEDS	35		54		39	
90 PERCENT EXCEEDS	11		21		12	

a Aug. 27, 28.
b About (backwater from Chemung River).
c From floodmarks (backwater from Chemung River).



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

01531000 CHEMUNG RIVER AT CHEMUNG, NY

LOCATION.--Lat 42°00'08", long 76°38'06", Chemung County, Hydrologic Unit 02050105, on right bank 100 ft upstream from bridge on State Highway 427, 0.7 mi southwest of Chemung, and 10.0 mi upstream from mouth.

DRAINAGE AREA.--2,506 mi^2.

PERIOD OF RECORD.--September 1903 to current year (gage heights only for some winter periods).

REVISED RECORDS.--WSP 891: 1935-39. WSP 1432: 1904, 1907, 1915. WSP 2103: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 778.63 ft above sea level (levels by Corps of Engineers). Prior to Jan. 10, 1930, nonrecording gage on highway bridge 60 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. High flows significantly regulated by upstream reservoirs. During each year a large part of flow from 45.5 mi^2 of drainage area is diverted upstream from Lake Lamoka on Mud Creek, an upstream tributary, into Keuka Lake (Oswego River basin) for power development. For table of diversion, see station 01528700. Telephone and satellite gage-height telemeters at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 20	1000	*77,800	*19.71	May 1	0700	31,700	13.03
Apr. 14	0900	36,600	13.92	May 12	0700	45,700	15.45

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	178	879	4060	e1150	e3200	3850	3560	25200	1330	1500	504	273
2	174	829	4970	e1100	e2700	2970	3740	15700	1180	1110	484	262
3	167	849	4930	e950	e2300	2760	3670	9560	1100	1050	442	259
4	162	957	3920	e1100	e1700	2320	3700	7440	1030	1180	415	256
5	171	1020	4080	e1150	e1550	2080	3640	7550	977	1270	398	265
6	386	957	3200	e1100	e1500	2480	3490	6470	949	1030	379	284
7	629	812	2620	e1000	e1450	3140	3330	6760	897	859	362	322
8	545	846	2310	e950	e1400	e1800	3330	5400	937	821	420	372
9	437	897	e2000	e900	1550	e1680	3130	4670	1460	774	876	442
10	391	857	e1450	e850	1770	e1650	3000	7920	1600	719	1430	393
11	334	800	e1100	e800	e1600	e1600	2820	24400	1240	658	940	369
12	294	1640	e1050	e780	e1500	e1650	2810	41300	1050	613	677	352
13	259	3970	e1100	e780	e1300	1800	19500	25900	1070	593	578	713
14	245	3330	e1100	e750	e1200	2860	34100	19200	1030	615	508	3670
15	414	3340	1220	e750	e1100	8910	19800	13500	960	870	460	2610
16	440	3310	1280	e750	e1050	8850	14400	8030	835	1410	471	1440
17	432	3110	e1200	e750	e1000	5190	12700	5770	736	1410	452	1200
18	452	3070	e1100	e900	e950	3740	8470	4700	695	997	419	5300
19	372	3060	e1000	e30000	e900	3520	6330	4030	825	767	396	4800
20	351	3120	e900	65400	e900	11200	5260	3340	1270	712	373	2550
21	6750	3560	e1300	19400	8560	17900	5160	3170	2390	676	366	1790
22	22300	3880	e1300	17400	9450	10400	4410	4450	2680	618	357	1550
23	9610	3600	e1250	17600	7200	6620	4180	3780	3570	542	349	1430
24	4680	3110	e1200	17400	7800	4870	5580	2990	2190	512	369	1690
25	2900	2750	e1200	16100	10900	4120	6010	2640	1610	469	339	1680
26	2100	2400	e1150	14600	6480	5350	6010	2210	1720	453	327	1600
27	1630	2240	e1150	13300	4860	5700	5280	1990	1320	446	310	1530
28	1410	3240	e1100	16200	4850	4130	4570	2280	1100	417	304	1390
29	1290	8560	e1100	10100	6500	3600	4370	2400	981	395	296	3180
30	1070	4970	e1050	7500	---	3690	9550	1720	1220	414	293	3740
31	930	---	e1200	4140	---	3750	---	1460	---	446	282	---
TOTAL	61503	75963	57590	265650	97220	144180	215900	275930	39952	24346	14576	45712
MEAN	1984	2532	1858	8569	3352	4651	7197	8901	1332	785	470	1524
MAX	22300	8560	4970	65400	10900	17900	34100	41300	3570	1500	1430	5300
MIN	162	800	900	750	900	1600	2810	1460	695	395	282	256
CFSM	.79	1.01	.74	3.42	1.34	1.86	2.87	3.55	.53	.31	.19	.61
IN.	.91	1.13	.85	3.94	1.44	2.14	3.20	4.10	.59	.36	.22	.68

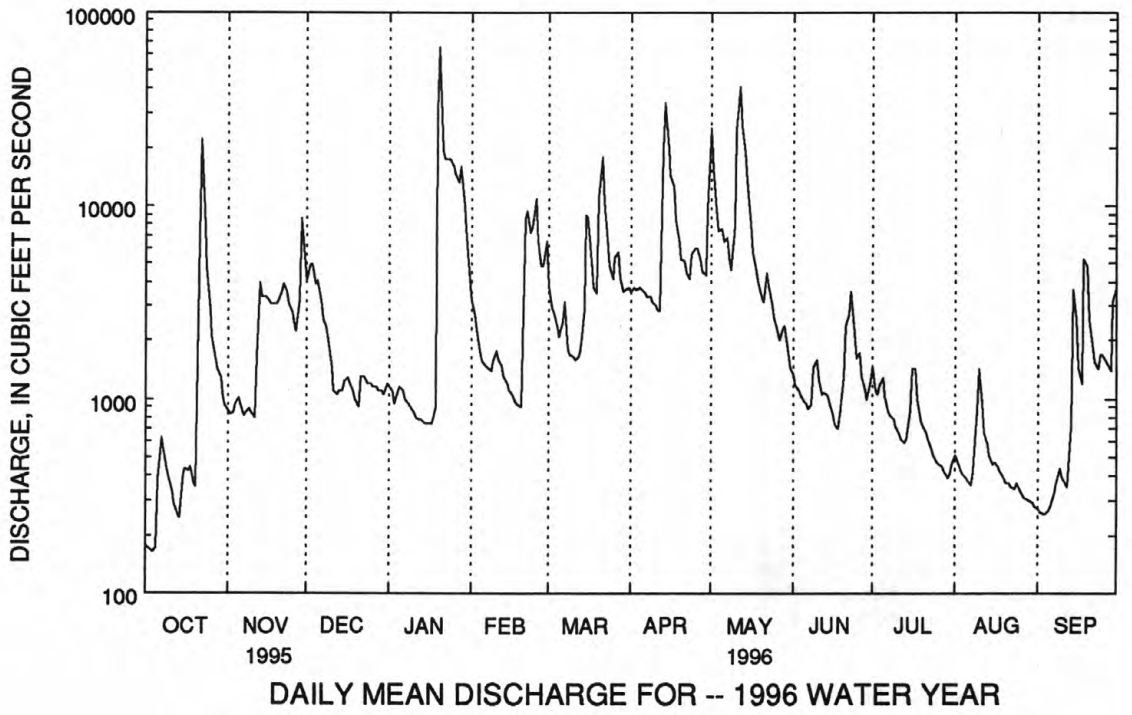
e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 1996, BY WATER YEAR (WY)

MEAN	1128	1892	2330	2358	2757	6290	6231	3662	1931	903	741	674
MAX	8408	9126	8752	8569	10090	20910	21600	11500	15720	5885	5001	7247
(WY)	1956	1928	1928	1996	1915	1936	1993	1919	1972	1935	1994	1975
MIN	101	114	137	207	327	1674	925	660	275	130	124	97.3
(WY)	1965	1931	1909	1931	1934	1965	1946	1934	1955	1911	1965	1932

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1906 - 1913 1915 - 1996	
ANNUAL TOTAL	656662		1318522			
ANNUAL MEAN	1799		3603		2560	
HIGHEST ANNUAL MEAN					4416	1978
LOWEST ANNUAL MEAN					1120	1965
HIGHEST DAILY MEAN	30100	Jan 21	65400	Jan 20	159000	Jun 23 1972
LOWEST DAILY MEAN	162	Oct 4	162	Oct 4	52	Aug 14 1911
ANNUAL SEVEN-DAY MINIMUM	175	Sep 29	267	Oct 1	75	Aug 10 1911
INSTANTANEOUS PEAK FLOW			77800	Jan 20	a189000	Jun 23 1972
INSTANTANEOUS PEAK STAGE			19.71	Jan 20	b31.62	Jun 23 1972
INSTANTANEOUS LOW FLOW			157	c	49	Aug 14 1911
ANNUAL RUNOFF (CFSM)	.72		1.44		1.03	
ANNUAL RUNOFF (INCHES)	9.75		19.57		13.87	
10 PERCENT EXCEEDS	4060		8500		6100	
50 PERCENT EXCEEDS	1060		1440		1030	
90 PERCENT EXCEEDS	229		389		220	

a From rating curve extended above 65,000 ft^3/s, on basis of slope-area and velocity-area studies at gage height 19.57 ft, and slope-area and contracted opening measurements at gage heights 23.97 ft and 31.62 ft.
b From floodmark.
c Oct. 3, 4.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

LAKES AND RESERVOIRS IN SUSQUEHANNA RIVER BASIN

01499500 EAST SIDNEY LAKE.--Lat 42°19'40", long 75°13'42", Delaware County, Hydrologic Unit 02050101, at East Sidney Dam, on Ouleout Creek, 0.3 mi upstream from bridge on County Highway 44 at East Sidney, 4.4 mi upstream from mouth, and 4.5 mi east of Unadilla. DRAINAGE AREA, 103 mi^2. PERIOD OF RECORD, November 1949 to September 1952 (monthend elevations and contents), October 1952 to September 1985 (mean daily elevations and monthend contents), October 1986 to current year (monthend elevations and contents). Prior to October 1970, published as "East Sidney Reservoir at East Sidney". REVISED RECORDS, WSP 2103: Drainage area. GAGE, water-stage recorder. Datum of gage is sea level. Prior to Oct. 1, 1979, at datum 0.05 ft lower.

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. Usable capacity, 33,550 acre-ft between elevations 1,115.0 ft (sill of conduits) and 1,203.0 ft (crest of spillway). Dead storage 56 acre-ft. 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. Telephone gage-height telemeter and satellite gage-height and precipitation telemeter at station.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 25,690 acre-ft, Apr. 3, 1993, elevation, 1,195.10 ft; minimum 56 acre-ft, Aug. 31, 1953, Sept. 7-26, Nov. 4, 1964, elevation, 1,115.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 18,783 acre-ft, Jan. 21, elevation, 1,186.52 ft; minimum, 1,437 acre-ft, Mar. 4, elevation, 1,138.40 ft.

01511000 WHITNEY POINT LAKE.--Lat 42°20'34", long 75°57'57", Broome County, Hydrologic Unit 02050102, on left bank at control-gate structure for Whitney Point Dam on Otselic River, 0.3 mi upstream from spillway, 0.9 mi upstream from mouth, and 1.0 mi north of Whitney Point. DRAINAGE AREA, 257 mi^2. PERIOD OF RECORD, October 1942 to September 1985 (mean daily elevations and monthend contents), October 1985 to current year (monthend elevations and contents). REVISED RECORDS, WSP 2103: Drainage area. GAGE, water-stage recorder. Datum of gage is sea level (levels by Corps of Engineers). Prior to October 1970, published as "Whitney Point Reservoir at Whitney Point".

REMARKS.--Lake is formed by earthfill dam with concrete spillway, completed by Corps of Engineers in 1942 for flood control; first used for flood regulation on Mar. 9, 1942. Usable capacity 86,440 acre-ft between elevations 950.0 ft (sill of gates) and 1,010.0 ft (crest of spillway). Dead storage, 28 acre-ft. 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. Telephone gage-height telemeter and satellite gage-height and precipitation telemeter at station.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 71,440 acre-ft, Mar. 23, 1948, elevation 1,005.0 ft; minimum, 36 acre-ft, Sept. 2-4, 1953, elevation, 950.4 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 41,680 acre-ft, Jan. 21, elevation, 991.45 ft; minimum, 5,205 acre-ft, Feb. 19, 20, elevation, 965.99 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	01499500 East Sidney Lake			01511000 Whitney Point Lake		
Sept. 30	1,147.00	2,705	--	973.16	12,888	--
Oct. 31	1,150.22	3,327	+ 10.1	973.14	12,863	- 0.4
Nov. 30	1,150.78	3,445	+ 2.0	972.83	12,481	- 6.4
Dec. 31	1,140.39	1,681	- 28.7	966.15	5,363	- 116
CAL YR 1995	--	--	- 0.1	--	--	0
Jan. 31	1,143.95	2,189	+ 8.3	967.51	6,713	+ 22.0
Feb. 29	1,140.07	1,639	- 9.6	966.40	5,609	- 19.2
Mar. 31	1,139.70	1,593	- 0.7	966.10	5,313	- 4.8
Apr. 30	1,149.15	3,111	+ 25.5	970.68	10,004	+ 78.8
May 31	1,150.54	3,395	+ 4.6	973.02	12,710	+ 44.0
June 30	1,150.99	3,490	+ 1.6	973.41	13,206	+ 8.3
July 31	1,150.61	3,410	- 1.3	973.18	12,914	- 4.7
Aug. 31	1,150.64	3,416	- 0.1	973.01	12,698	- 3.5
Sept. 30	1,150.31	3,346	- 1.2	973.18	12,914	+ 3.6
WTR YR 1996	--	--	+ 0.9	--	--	0

LAKES AND RESERVOIRS IN SUSQUEHANNA RIVER BASIN--Continued

01517900 TIOGA LAKE.--Lat 41°53'57", long 77°08'21", Tioga County, Hydrologic Unit 02050104, at Tioga Dam on Tioga River, 0.8 mi south of Tioga, and 1.7 mi upstream from Crooked Creek. DRAINAGE AREA, 280 mi^2. PERIOD OF RECORD, November 1979 to current year. GAGE, water-stage recorder. Datum of gage is sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by rolled earth and rockfill dam. Flood flows are routed to Hammond Lake through a connecting channel with weir at elevation 1,101.0 ft and to Hammond Dam spillway with crest at elevation 1,131.0 ft. Storage began in November 1979. Capacity at elevation 1,131.0 ft is 62,000 acre-ft. Recreation lake elevation is 1,081.0 ft, capacity 9,500 acre-ft. Reservoir is used for flood control and recreation. Figures given herein represent total contents. Flow is regulated by two service gates and low-flow by-pass system. U.S. Army Corps of Engineers telephone gage-height and satellite gage-height telemeter at station.

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 50,090 acre-ft, Apr. 3, 1993, elevation, 1,123.21 ft; minimum, 2,210 acre-ft, Oct. 25, 1980, elevation, 1,060.05 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 38,260 acre-ft, Jan. 21, elevation, 1,114.25 ft; minimum, 8,230 acre ft, Jan. 30, elevation, 1,078.16 ft.

01518498 HAMMOND LAKE.--Lat 41°53'56", long 77°08'52", Tioga County, Hydrologic Unit 02050104, at Hammond Dam on Crooked Creek, 3.0 mi upstream from mouth, and 0.8 mi southwest of Tioga. DRAINAGE AREA, 122 mi^2. PERIOD OF RECORD, November 1979 to current year. GAGE, water-stage recorder. Datum of gage is sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by rolled earth and rockfill dam with concrete chute spillway with uncontrolled weir at elevation 1,131.0 ft. Storage began in November 1979. Capacity at elevation 1,131.0 ft is 63,000 acre-ft. Recreation lake elevation is 1,086.0 ft, capacity 8,850 acre-ft. Reservoir is used for flood control and recreation. Figures given herein represent total contents. Flow is regulated by two gates through a connecting channel that discharges into Tioga Lake, and a low-flow outlet to Crooked Creek. U.S. Army Corps of Engineers telephone gage-height and satellite gage-height telemeter at station.

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 50,650 acre-ft, Apr.3, 1993, elevation, 1,123.55 ft; minimum, 2,430 acre-ft, Oct. 24, 1980, elevation, 1,074.00 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 34,030 acre-ft, Jan. 22, elevation, 1,111.83 ft; minimum, 8,010 acre-ft, Oct. 3-5, elevation, 1,084.8 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Elevation (feet)	Contents (acre-(feet)	Change in contents (equlivalent in cfs)	Elevation (feet)	Contents (acre-(feet)	Change in contents (equivalent in cfs)
	01517900 Tioga Lake			01518498 Hammond Lake		
Sept. 30	1,079.82	8,970	--	1,084.90	8,040	--
Oct. 31	1,081.30	9,650	+ 11.1	1,085.96	8,820	+ 12.7
Nov. 30	1,084.22	11,110	+ 24.5	1,087.06	9,500	+ 11.4
Dec. 31	1,081.43	9,710	- 22.8	1,086.17	8,950	- 8.9
CAL YR 1995.....	--	--	- 1.3	--	--	- 1.1
Jan. 31	1,084.71	11,350	+ 26.7	1,085.84	8,730	- 3.6
Feb. 29	1,081.89	9,940	- 24.5	1,086.56	9,190	+ 8.0
Mar. 31	1,181.50	9,740	- 3.3	1,086.39	9,090	- 1.6
Apr. 30	1,082.91	10,450	+ 11.9	1,087.23	9,630	+ 9.1
May 31	1,081.13	9,560	- 14.5	1,086.54	9,180	- 7.3
June 30	1,081.26	9,630	+ 1.2	1,086.44	9,120	- 1.0
July 31	1,081.22	9,610	- 0.3	1,086.14	8,940	- 2.9
Aug. 31	1,081.21	9,600	- 0.2	1,085.52	8,490	- 7.3
Sept. 30	1,081.43	9,710	+ 1.8	1,086.15	8,940	+ 7.6
WTR YR 1996.....	--	--	+ 1.0	--	--	+ 1.2

LAKES AND RESERVOIRS IN SUSQUEHANNA RIVER BASIN--Continued

01519995 COWANESQUE LAKE.--Lat 41°59'05", long 77°09'05", Tioga County, Hydrologic Unit 02050104, at Cowanesque Dam on Cowanesque River, 1.8 mi southwest of Lawrenceville, and 2.5 mi upstream from mouth. DRAINAGE AREA, 298 mi^2. PERIOD OF RECORD, December 1979 to current year. GAGE, water-stage recorder. Datum of gage is sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by rolled earth and rockfill dam with concrete chute spillway with uncontrolled weir at elevation 1,117.0 ft. Storage began in December 1979. Capacity at elevation 1,117.0 ft is 89,110 acre-ft. Recreation lake elevation is 1,045.0 ft, capacity 7,330 acre-ft. Reservoir is used for flood control and recreation. Figures given herein represent total contents. Flow is regulated by two service gates and low-flow by-pass system. U.S. Army Corps of Engineers telephone gage-height and satellite gage-height and precipitation telemeter at station.

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 84,560 acre-ft, Apr. 2, 1993, elevation, 1,114.78 ft; minimum, 65 acre-ft, June 23, 1980, elevation, 1,011.50 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 73,480 acre-ft, Jan. 21, elevation 1,108.99 ft; minimum, 22,820 acre-ft, Sept. 30, elevation, 1,070.02 ft.

01523000 ALMOND LAKE NEAR ALMOND, NY.--Lat 42°20'56", long 77°42'10", Steuben County, Hydrologic Unit 02050104, at Almond Dam on Canacadea Creek, 2.0 mi northeast of Almond, and 3.0 mi upstream from mouth. DRAINAGE AREA, 55.8 mi^2. PERIOD OF RECORD, July 1949 to September 1952 (monthly elevations and contents), October 1952 to September 1985 (mean daily elevations and monthend contents), October 1985 to current year (monthend elevations and contents). Prior to October 1970, published as "Almond Reservoir near Almond". REVISED RECORDS, WSP 2103: Drainage area. GAGE, Water-stage recorder. Datum of gage is sea level (levels by Corps of Engineers).

REMARKS.--Lake is formed by earthfill dam with concrete spillway, completed by Corps of Engineers in June 1949 for flood control; first used for flood regulation on Mar. 28, 1950. Usable capacity, 14,800 acre-ft between elevations 1,229.0 ft (sill of gates) and 1,300.0 ft (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. Telephone gage-height telemeter and satellite gage-height and precipitation telemeter at station.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 14,100 acre-ft, June 23, 1972, elevation, 1,298.58 ft; no contents for many days each year 1949-65.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 10,468 acre-ft, Jan. 20, elevation, 1,290.42 ft; minimum, 1,542 acre-ft, Sep. 30, elevation, 1,258.59 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	Elevation (feet)	Contents (acre-(feet)	Change in contents (equlivalent in cfs)	Elevation (feet)	Contents (acre-(feet)	Change in contents (equivalent in cfs)
	01519995 Cowanesque Lake			01523000 Almond Lake		
Sept. 30	1,076.65	29,050	--	1,260.05	1,758	--
Oct. 31	1,080.39	32,990	+ 64.1	1,260.28	1,795	+ 0.6
Nov. 30	1,080.35	32,950	- 0.7	1,260.05	1,758	- 0.6
Dec. 31	1,080.12	32,720	- 3.7	1,260.23	1,787	+ 0.5
CAL YR 1995	--	--	- 0.2	--	--	0
Jan. 31	1,080.29	32,890	+ 2.8	1,260.15	1,774	- 0.2
Feb. 29	1,080.12	32,720	- 3.0	1,259.89	1,733	- 0.7
Mar. 31	1,080.14	32,740	+ 0.3	1,260.35	1,806	+ 1.2
Apr. 30	1,085.02	38,220	+ 92.1	1,261.57	2,007	+ 3.4
May 31	1,077.96	30,360	- 128.0	1,260.03	1,755	- 4.1
June 30	1,080.08	32,680	+ 39.0	1,260.33	1,803	+ 0.8
July 31	1,080.15	32,750	+ 1.1	1,260.25	1,790	- 0.2
Aug. 31	1,080.03	32,630	- 2.0	1,260.19	1,780	- 0.2
Sept. 30	1,070.06	22,850	- 164.0	1,259.03	1,604	- 3.0
WTR YR 1996	--	--	- 8.5	--	--	- 0.2

DIVERSION OF WATER AFFECTING THE SUSQUEHANNA RIVER BASIN

01528700 Diversion from Waneta Lake to Keuka Lake at Keuka, NY (see station for daily discharge).

03011020 ALLEGHENY RIVER AT SALAMANCA, NY

LOCATION.--Lat 42°09'23", long 78°42'56", Cattaraugus County, Hydrologic Unit 05010001, on left bank 230 ft upstream from Main Street bridge in Salamanca, 1.3 mi downstream from Great Valley Creek, and 1.6 mi upstream from Little Valley Creek.

DRAINAGE AREA.--1,608 mi^2.

PERIOD OF RECORD.--September 1903 to current year. Monthly discharge only for some periods, published in WSP 1305. Prior to October 1964, published as "at Red House."

REVISED RECORDS.--WSP 1385: 1907, 1909-12, 1913(M), 1914-15, 1916-17(M), 1925, 1927. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,358.00 ft above 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 downstream at different datum. Oct. 1, 1964 to Sept. 30, 1967, at present site at datum 0.04 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are fair. U.S. Army Corps of Engineers telephone gage-height telemeter and satellite gage-height and precipitation telemeter at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 17,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 19	2300	*39,600	*16.41	May 12	1800	24,300	12.24

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	1290	5430	1080	e3600	7000	3360	13200	1170	900	661	296
2	125	1310	5880	1050	e3050	5620	3270	11900	1060	787	560	276
3	122	1620	5060	614	e2600	4620	3040	10500	982	678	499	260
4	148	2110	5130	e950	e2300	3560	2840	8950	936	673	436	249
5	196	1890	4690	e1150	e2000	3660	2910	7420	926	681	389	242
6	864	1700	4140	e1120	e1700	6450	2840	5920	912	614	353	248
7	1090	1700	3590	e1100	e1500	5010	2700	5000	880	541	329	353
8	799	2280	e3050	e1100	e1500	e3600	2630	4220	1140	705	327	595
9	523	2320	e2600	e1050	e3500	e3000	2440	3750	1060	737	945	901
10	387	2090	e2100	e1050	e2000	e2600	2350	7940	919	604	1060	1270
11	316	3570	1600	e1050	e2500	e2400	2310	17000	904	505	675	929
12	276	11200	e1500	e1000	e1900	e2300	2480	23900	884	445	501	763
13	249	9610	e1400	e1000	e1700	2570	8950	22000	925	415	432	2640
14	249	7390	e1500	e1000	e1500	3020	16000	17100	922	395	393	4830
15	385	6160	2370	e1000	e1300	4760	13200	11800	916	573	376	3360
16	727	5340	2550	e1000	e1200	5360	9700	8230	818	1280	1010	2450
17	779	4490	e2000	1090	e1100	4490	7610	5860	696	1370	755	2190
18	560	4010	e1700	e2100	e1050	3900	6020	4600	1270	1110	555	5880
19	444	3990	e1500	e25000	e1000	3790	4880	3750	3130	1340	451	5060
20	394	4150	1320	36300	e1800	6610	4430	3120	3060	1950	394	3490
21	5360	4360	1420	32700	e4000	8710	4300	2890	2330	1450	557	2660
22	8520	4200	1580	25500	8890	7310	3730	3440	1920	1050	516	2130
23	5870	3820	1500	15500	9020	5760	3780	2850	1800	849	466	2100
24	3410	3480	1410	11700	10400	4640	4890	2440	1530	733	605	1860
25	2430	3100	1340	11900	10200	4380	4650	2180	1790	660	557	1510
26	1910	2900	1250	8610	9060	6240	4130	1920	1480	596	496	1320
27	1540	2750	1140	8110	7820	5280	4000	1760	1190	550	394	1150
28	1310	5700	1130	10000	9260	4370	3530	1640	998	502	501	2100
29	1390	7730	1120	8740	9090	3980	3330	1590	884	457	400	7190
30	1370	6320	994	7290	---	3810	7280	1470	874	453	358	5610
31	1320	---	1090	5330	---	3480	---	1300	---	589	323	---
TOTAL	43197	122580	73084	226184	116540	142280	147580	219640	38306	24192	16274	63912
MEAN	1393	4086	2358	7296	4019	4590	4919	7085	1277	780	525	2130
MAX	8520	11200	5880	36300	10400	8710	16000	23900	3130	1950	1060	7190
MIN	122	1290	994	614	1000	2300	2310	1300	696	395	323	242
CFSM	.87	2.54	1.47	4.54	2.50	2.85	3.06	4.41	.79	.49	.33	1.32
IN.	1.00	2.84	1.69	5.23	2.70	3.29	3.41	5.08	.89	.56	.38	1.48

e Estimated

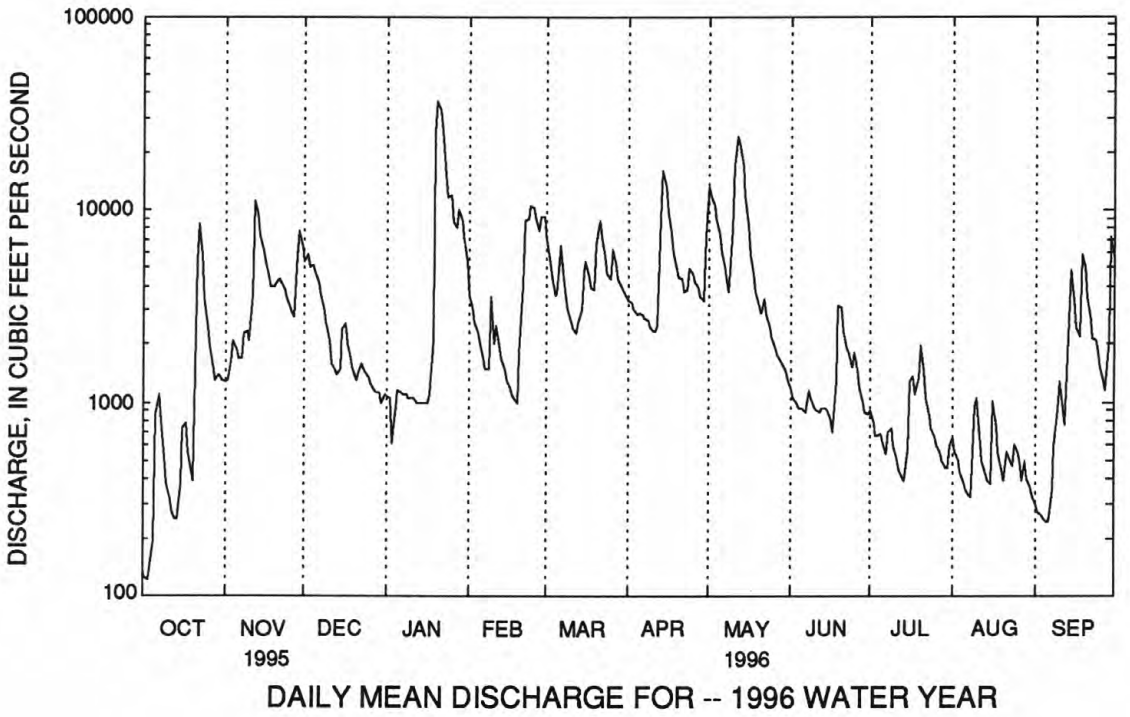
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1996, BY WATER YEAR (WY)

MEAN	1332	2530	3091	3332	3156	6002	5872	3485	2018	1097	725	849
MAX	5801	8605	9147	10200	9683	14850	15540	9574	11520	6074	3882	7477
(WY)	1991	1928	1928	1913	1976	1936	1940	1943	1972	1942	1977	1977
MIN	124	146	189	255	550	1983	970	796	299	150	119	118
(WY)	1931	1931	1961	1961	1905	1937	1946	1985	1934	1934	1930	1932

03011020 ALLEGHENY RIVER AT SALAMANCA, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1904 - 1996	
ANNUAL TOTAL	713942		1233769			
ANNUAL MEAN	1956		3371		2787	
HIGHEST ANNUAL MEAN					4174	1916
LOWEST ANNUAL MEAN					1784	1931
HIGHEST DAILY MEAN	12600	Jan 21	36300	Jan 20	67900	Jun 23 1972
LOWEST DAILY MEAN	116	Sep 8	122	Oct 3	79	a
ANNUAL SEVEN-DAY MINIMUM	120	Sep 6	271	Aug 31	84	Dec 11 1908
INSTANTANEOUS PEAK FLOW			39600	Jan 19	73000	Jun 23 1972
INSTANTANEOUS PEAK STAGE			16.41	Jan 19	b24.01	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.22		2.10		1.73	
ANNUAL RUNOFF (INCHES)	16.52		28.54		23.54	
10 PERCENT EXCEEDS	5130		7990		6780	
50 PERCENT EXCEEDS	1250		1830		1510	
90 PERCENT EXCEEDS	181		449		288	

a Sep. 10, 11, 1971.
b From floodmarks.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

03013946 CHAUTAUQUA LAKE AT BEMUS POINT, NY

LOCATION.--Lat 42°09'23", long 79°23'39", Chautauqua County, Hydrologic Unit 05010002, 6 ft east of lake shore, 30 ft south of the intersection of Pauline Avenue and Lakeside Avenue, and 950 ft southeast of the ferry landing at Bemus Point.

DRAINAGE AREA.--189 mi^2.

PERIOD OF RECORD.--October 1972 to September 1973; November 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Nov. 1974 at site 950 ft northwest at same datum.

REMARKS.--Lake regulated for flood control by Warner Dam. Area of water surface, 20.98 mi^2. Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,311.23 ft, Mar. 5, 1976; minimum, 1,306.34 ft, Feb. 27-28, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,309.14 ft, May 12; minimum, 1,306.77 ft, Jan. 17.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1307.23	1307.53	1307.87	1307.18	1308.24	1308.29	1307.69	1308.65	1308.11	1308.26	1308.49	1308.01
2	1307.22	1307.52	1307.90	1307.15	1308.16	1308.23	1307.65	1308.63	1308.11	1308.26	1308.41	1307.99
3	1307.22	1307.49	1307.88	1307.18	1308.08	1308.21	1307.62	1308.58	1308.13	1308.28	1308.33	1307.98
4	1307.25	1307.47	1307.92	1307.15	1307.99	1308.15	1307.60	1308.54	1308.16	1308.25	1308.24	1307.97
5	1307.28	1307.45	1307.90	1307.13	1307.91	1308.13	1307.61	1308.50	1308.17	1308.19	1308.19	1307.96
6	1307.39	1307.39	1307.85	1307.10	1307.83	1308.21	1307.62	1308.46	1308.17	1308.18	1308.18	1307.96
7	1307.43	1307.37	1307.80	1307.06	1307.76	1308.22	1307.65	1308.39	1308.29	1308.17	1308.17	1308.01
8	1307.43	1307.39	1307.74	1307.02	1307.77	1308.17	1307.67	1308.31	1308.43	1308.24	1308.18	1308.07
9	1307.42	1307.38	1307.70	1306.99	1307.88	1308.12	1307.68	1308.25	1308.40	1308.23	1308.19	1308.11
10	1307.41	1307.34	1307.64	1306.98	1307.88	1308.05	1307.69	1308.38	1308.33	1308.20	1308.17	1308.19
11	1307.40	1307.50	1307.63	1306.95	1307.90	1307.98	1307.70	1308.76	1308.55	1308.18	1308.16	1308.21
12	1307.39	1307.84	1307.58	1306.93	1307.89	1307.91	1307.73	1309.09	1308.57	1308.17	1308.14	1308.24
13	1307.39	1307.88	1307.54	1306.90	1307.85	1307.86	1307.96	1309.09	1308.51	1308.17	1308.12	1308.29
14	1307.42	1307.85	1307.55	1306.87	1307.82	1307.83	1308.26	1309.01	1308.44	1308.17	1308.12	1308.28
15	1307.47	1307.90	1307.63	1306.84	1307.77	1307.94	1308.31	1308.92	1308.36	1308.25	1308.12	1308.23
16	1307.49	1307.92	1307.67	1306.81	1307.71	1308.00	1308.34	1308.81	1308.26	1308.26	1308.14	1308.19
17	1307.48	1307.89	1307.66	1306.81	1307.65	1307.99	1308.32	1308.72	1308.18	1308.24	1308.12	1308.20
18	1307.47	1307.86	1307.64	1306.98	1307.61	1307.96	1308.27	1308.62	1308.39	1308.24	1308.11	1308.25
19	1307.47	1307.85	1307.62	1308.03	1307.54	1307.93	1308.22	1308.52	1308.86	1308.47	1308.11	1308.21
20	1307.48	1307.85	1307.61	1308.50	1307.52	1307.97	1308.22	1308.43	1308.98	1308.52	1308.10	1308.15
21	1307.53	1307.86	1307.59	1308.49	1307.63	1307.98	1308.23	1308.36	1308.88	1308.41	1308.13	1308.10
22	1307.53	1307.89	1307.57	1308.44	1307.88	1307.97	1308.19	1308.28	1308.80	1308.31	1308.12	1308.13
23	1307.53	1307.86	1307.53	1308.39	1307.97	1307.94	1308.46	1308.19	1308.74	1308.23	1308.13	1308.26
24	1307.52	1307.83	1307.48	1308.49	1308.08	1307.89	1308.86	1308.19	1308.64	1308.21	1308.13	1308.27
25	1307.52	1307.78	1307.44	1308.60	1308.12	1307.87	1308.89	1308.18	1308.55	1308.21	1308.11	1308.26
26	1307.51	1307.73	1307.42	1308.56	1308.12	1307.95	1308.83	1308.17	1308.45	1308.21	1308.10	1308.18
27	1307.50	1307.69	1307.39	1308.55	1308.11	1307.93	1308.78	1308.16	1308.35	1308.20	1308.09	1308.11
28	1307.51	1307.80	1307.34	1308.54	1308.27	1307.89	1308.69	1308.15	1308.26	1308.19	1308.07	1308.33
29	1307.52	1307.88	1307.30	1308.47	1308.33	1307.84	1308.62	1308.15	1308.24	1308.19	1308.05	1308.64
30	1307.56	1307.87	1307.25	1308.40	---	1307.79	1308.61	1308.13	1308.26	1308.45	1308.04	1308.58
31	1307.57	---	1307.21	1308.32	---	1307.73	---	1308.12	---	1308.55	1308.02	---
MEAN	1307.44	1307.70	1307.61	1307.61	1307.91	1308.00	1308.13	1308.48	1308.42	1308.26	1308.15	1308.18
MAX	1307.57	1307.92	1307.92	1308.60	1308.33	1308.29	1308.89	1309.09	1308.98	1308.55	1308.49	1308.64
MIN	1307.22	1307.34	1307.21	1306.81	1307.52	1307.73	1307.60	1308.12	1308.11	1308.17	1308.02	1307.96

CAL YR 1995 MEAN 1307.70 MAX 1308.37 MIN 1306.81
WTR YR 1996 MEAN 1307.99 MAX 1309.09 MIN 1306.81

03014500 CHADAKOIN RIVER AT FALCONER, NY

LOCATION.--Lat 42°06'45", long 79°12'15", Chautauqua County, Hydrologic Unit 05010002, on left bank 10 ft downstream from South Dow Street Bridge in Falconer, 1.8 mi upstream from mouth, and 6 mi downstream from Chautauqua Lake.

DRAINAGE AREA.--194 mi^2.

PERIOD OF RECORD.--November 1934 to current year.

REVISED RECORDS.--WSP 803: 1936(M).

GAGE.--Water-stage recorder, crest-stage gages, and concrete control. Datum of gage is 1,256.41 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Chautauqua Lake. Diurnal fluctuation caused by mills upstream from station. Monthly figures for 1951-66 water years adjusted for regulation. Telephone gage-height telemeter at station. U.S. Army Corps of Engineers satellite gage-height and precipitation telemeter at station. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	412	648	415	745	776	598	900	65	44	724	46
2	39	421	654	393	733	758	544	907	64	44	714	42
3	42	428	637	379	712	762	370	871	66	362	706	41
4	38	421	656	407	692	740	368	811	64	586	575	37
5	54	417	628	375	684	749	340	804	56	250	215	33
6	42	409	659	387	670	759	59	790	55	53	63	33
7	34	449	606	367	518	758	54	767	344	52	63	42
8	22	491	558	375	299	751	52	763	715	70	66	37
9	36	478	575	359	630	733	51	783	706	55	63	45
10	45	460	595	359	625	709	52	815	713	54	61	33
11	43	494	531	364	634	686	51	923	767	53	61	30
12	40	539	444	336	633	664	58	1010	813	51	61	46
13	39	573	548	332	626	649	68	1010	833	51	61	150
14	51	616	478	328	616	643	117	1010	625	51	61	534
15	39	640	472	326	605	663	462	1010	752	338	73	528
16	33	632	471	314	594	673	700	1010	731	579	59	430
17	28	622	464	301	579	664	834	1010	322	72	57	261
18	25	615	465	325	570	659	768	1010	583	346	57	505
19	24	619	465	732	547	650	757	981	1100	937	57	500
20	30	613	464	872	567	665	763	956	1100	956	60	495
21	30	618	473	874	602	670	777	922	1050	918	58	287
22	19	627	510	853	632	665	761	871	1050	854	56	69
23	17	617	497	837	643	665	861	548	1000	322	63	149
24	16	608	491	881	699	642	980	66	962	58	53	200
25	30	592	483	887	697	639	966	65	952	55	53	488
26	57	584	475	866	706	667	963	65	853	56	54	657
27	56	578	454	865	710	654	961	65	819	55	53	655
28	58	615	448	873	765	638	915	65	619	55	52	732
29	59	614	439	838	793	629	885	65	48	71	53	877
30	59	378	430	827	---	620	915	65	48	461	54	861
31	279	---	423	792	---	607	---	65	---	733	49	---
TOTAL	1425	16180	16141	17439	18526	21207	16050	21003	17875	8642	4455	8843
MEAN	46.0	539	521	563	639	684	535	678	596	279	144	295
MAX	279	640	659	887	793	776	980	1010	1100	956	724	877
MIN	16	378	423	301	299	607	51	65	48	44	49	30

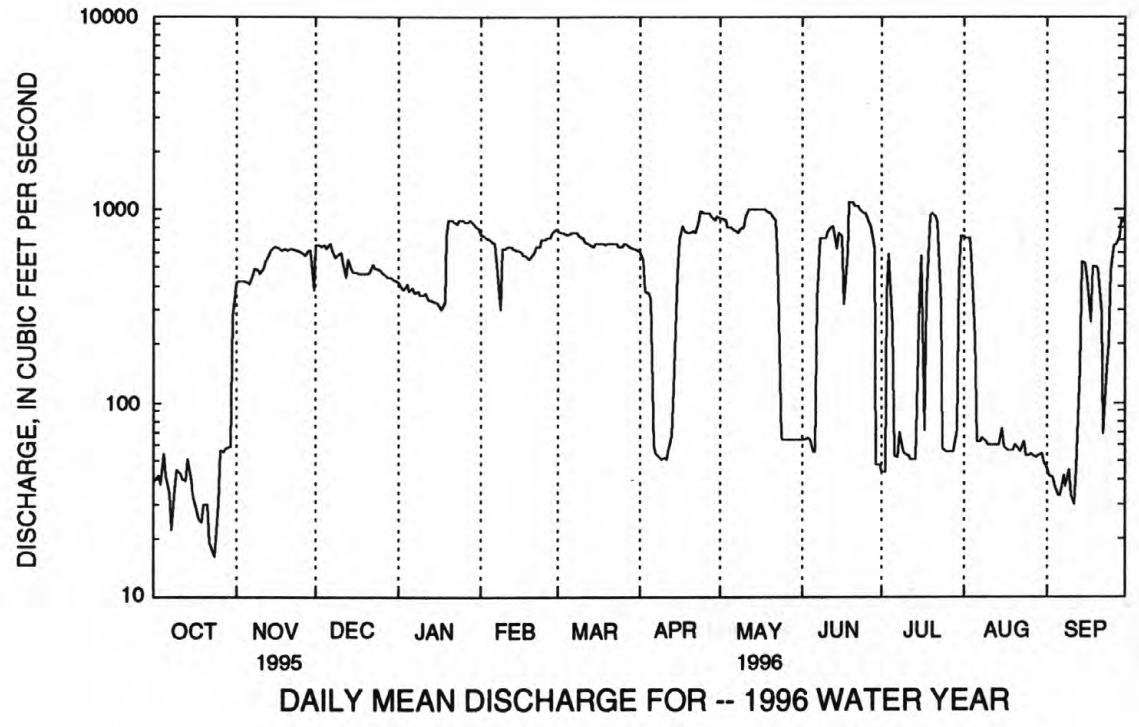
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1996, BY WATER YEAR (WY)

MEAN	208	365	504	512	516	683	639	299	208	120	108	157
MAX	751	997	997	955	989	1358	1305	974	852	729	540	705
(WY)	1946	1986	1951	1993	1990	1976	1947	1943	1986	1986	1977	1977
MIN	8.12	5.69	6.38	36.3	195	282	53.1	58.5	15.1	8.55	7.44	17.8
(WY)	1964	1961	1961	1961	1963	1983	1946	1941	1954	1954	1954	1941

03014500 CHADAKOIN RIVER AT FALCONER, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1935 - 1996	
ANNUAL TOTAL	94782.9		167786			
ANNUAL MEAN	260		458		361	
HIGHEST ANNUAL MEAN					527	1986
LOWEST ANNUAL MEAN					228	1962
HIGHEST DAILY MEAN	732	Jan 21	1100	a	2020	Mar 6 1976
LOWEST DAILY MEAN	4.7	Jul 22	16	Oct 24	3.0	Nov 20 1960
ANNUAL SEVEN-DAY MINIMUM	12	Jul 18	23	Oct 18	3.7	Nov 18 1960
INSTANTANEOUS PEAK FLOW			1240	Jul 19	2250	Sep 14 1979
INSTANTANEOUS PEAK STAGE			3.12	Jul 19	4.93	Sep 14 1979
INSTANTANEOUS LOW FLOW			13	Nov 30	2.5	Sep 18 1995
10 PERCENT EXCEEDS	626		871		829	
50 PERCENT EXCEEDS	74		498		276	
90 PERCENT EXCEEDS	30		46		36	

a Jun. 19, 20.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

ALLEGHENY RIVER BASIN
LAKES IN ALLEGHENY RIVER BASIN

03013946 CHAUTAUQUA LAKE AT BEMUS POINT, NY (see station for daily mean elevation).

STREAMS TRIBUTARY TO LAKE ERIE

04213500 CATTARAUGUS CREEK AT GOWANDA, NY

(National Water-Quality Assessment Program station)

LOCATION.--Lat 42°27'50", long 78°56'07", Erie County, Hydrologic Unit 04120102, on right bank 380 ft downstream from bridge on State Highways 39 and 62 at Gowanda, 4.2 mi downstream from South Branch, and 17.8 mi upstream from mouth.

DRAINAGE AREA.--436 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1912;WDR NY-82-3: Drainage area. WRD NY 1971: 1956(M). WRD NY 1974: 1940-42 (M, P).

GAGE.--Water-stage recorder. Datum of gage is 738.85 ft above sea level. Prior to Oct. 1, 1969, at datum 0.11 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diurnal fluctuation at low and medium flow caused by powerplant 20 mi upstream from station. Telephone gage-height telemeter at station. .

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 19	1200	a*27,500	b*13.02	Apr. 23	2200	8,530	7.03
Apr. 13	0830	14,000	8.69	May 11	0600	13,444	8.51

a About.
b Ice jam.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	318	1220	e380	e650	1090	990	2520	382	320	374	149
2	70	339	1570	e360	e600	e900	934	1670	370	292	300	148
3	65	399	1170	e250	e520	e780	816	1200	398	296	266	145
4	84	372	1700	e380	e500	e700	772	1260	437	368	238	141
5	109	347	1080	e400	e480	e950	942	1370	469	304	227	156
6	338	307	879	e380	e440	e2100	813	1350	384	270	210	153
7	257	384	679	e370	e400	1230	763	1110	923	253	213	180
8	182	642	578	e360	e500	e900	749	940	1780	299	243	253
9	146	464	524	e350	e1600	e650	683	1020	778	260	804	291
10	123	380	e350	e340	1050	e580	671	5780	613	242	506	303
11	110	883	e340	e330	1460	e550	713	11100	1720	228	331	229
12	101	2700	e320	e320	979	e520	1210	7920	872	217	265	225
13	96	1130	e300	e320	e700	e700	11100	3370	1120	209	238	373
14	131	804	e450	e310	e600	1200	5760	1980	681	207	215	520
15	368	903	e1600	e300	e560	2520	2290	1460	522	260	206	324
16	373	878	1190	e300	e520	1630	1800	1210	422	310	236	286
17	258	814	e820	e500	e460	1110	1480	1100	382	258	219	309
18	190	800	e600	e1800	e420	929	1410	987	759	234	199	843
19	159	1060	e500	e17000	e380	1000	1190	879	1000	357	189	481
20	144	1080	e420	6000	e800	1780	1570	757	816	362	180	324
21	2090	1160	e460	2560	e4200	1680	1390	1030	716	272	455	266
22	1230	1050	e440	1650	3180	1140	1090	964	516	232	307	247
23	527	922	e420	1350	2230	981	4480	735	458	209	242	305
24	333	812	e400	3090	3340	861	4810	725	436	201	220	259
25	260	717	e380	2590	2000	1470	2430	606	533	211	197	288
26	228	694	e360	1480	1530	3040	1620	544	405	301	184	273
27	205	739	e340	1940	1240	1350	1440	536	352	234	170	244
28	190	4240	e340	1730	2460	1060	1140	498	321	204	167	1180
29	357	1990	e340	1210	1560	1010	1020	464	302	192	161	1700
30	530	1130	e320	e1000	---	1010	1860	433	335	1160	155	703
31	394	---	e380	e800	---	948	---	410	---	664	151	---
TOTAL	9726	28458	20470	50150	35359	36369	57936	55928	19202	9426	8068	11298
MEAN	314	949	660	1618	1219	1173	1931	1804	640	304	260	377
MAX	2090	4240	1700	17000	4200	3040	11100	11100	1780	1160	804	1700
MIN	65	307	300	250	380	520	671	410	302	192	151	141
CFSM	.72	2.18	1.51	3.71	2.80	2.69	4.43	4.14	1.47	.70	.60	.86
IN.	.83	2.43	1.75	4.28	3.02	3.10	4.94	4.77	1.64	.80	.69	.96

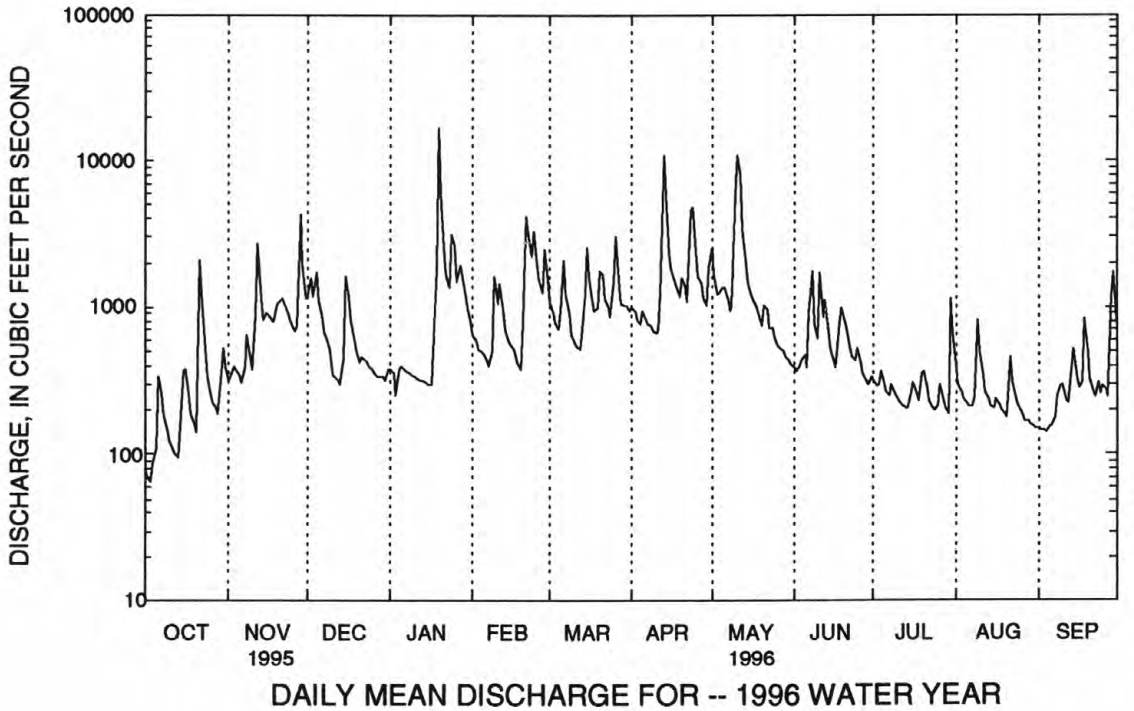
e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

MEAN	400	711	957	828	930	1598	1466	738	489	291	241	312
MAX	1573	1772	2089	1727	2819	3824	3686	1948	1436	867	1225	2423
(WY)	1946	1986	1991	1952	1976	1945	1947	1943	1989	1986	1977	1977
MIN	81.8	118	111	136	222	799	279	283	143	78.3	79.5	85.8
(WY)	1964	1961	1961	1961	1963	1981	1946	1941	1955	1955	1941	1960

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1940 - 1996	
ANNUAL TOTAL	194360		342390			
ANNUAL MEAN	532		935		744	
HIGHEST ANNUAL MEAN					1030	1977
LOWEST ANNUAL MEAN					532	1995
HIGHEST DAILY MEAN	6810	Mar 8	e17000	Jan 19	22900	Mar 17 1942
LOWEST DAILY MEAN	60	Sep 6	65	Oct 3	52	a
ANNUAL SEVEN-DAY MINIMUM	76	Sep 28	127	Oct 8	57	Sep 7 1945
INSTANTANEOUS PEAK FLOW			b27500	Jan 19	34600	Mar 7 1956
INSTANTANEOUS PEAK STAGE			c13.02	Jan 19	d14.03	Mar 7 1956
INSTANTANEOUS LOW FLOW			f49	Oct 3	g6.0	Aug 21 1941
ANNUAL RUNOFF (CFSM)	1.22		2.15		1.71	
ANNUAL RUNOFF (INCHES)	16.58		29.21		23.19	
10 PERCENT EXCEEDS	1140		1740		1610	
50 PERCENT EXCEEDS	320		518		417	
90 PERCENT EXCEEDS	95		205		125	

a Sep. 13, 1945, Aug. 1, 1955.
b About.
c Ice jam.
d Present datum.
e Estimated.
f Result of regulation.
g About, result of regulation.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04213500 CATTARAUGUS CREEK AT GOWANDA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1963-64, 1972 to 1993, 1996.
CHEMICAL DATA: 1959 (e), 1963 (b), 1972 (a), 1975 (b), 1976-78 (c), 1979-80 (d), 1981-82 (c), 1983-91 (c) 1992-93 (b), 1996 (c)
MINOR ELEMENTS DATA: 1972-74 (a), 1975 (b), 1976-77 (c), 1978-86 (b), 1987-89 (d), 1990-91 (c), 1992-93 (b), 1996 (c)
ORGANIC DATA: OC--1975 (b), 1976-77 (c), 1978-80 (d), 1981 (c), 1996 (c).
NUTRIENT DATA: 1975 (b), 1976-77 (c), 1978-80 (d), 1981-82 (c), 1983-93 (b), 1996 (c).
BIOLOGICAL DATA:
Bacterial--1978-80 (d), 1981-82 (c), 1983-93 (b), 1996 (c).
Phytoplankton--1978 (b), 1979-80 (c), 1981 (b).
SEDIMENT DATA: 1964 (b), 1978-82 (c), 1983-86 (c), 1987-89 (d), 1990-91 (c), 1992-93 (b). 1996 (c).
BOTTOM SEDIMENT DATA: 1996 (a).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1958 to September 1959, unpublished; January 1978 to September 1981.
pH: October 1958 to September 1959, unpublished.
WATER TEMPERATURES: October 1958 to September 1959, January 1978 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 952 microsiemens Oct. 7, 1958; minimum daily, 150 microsiemens Feb. 19, 1981.
WATER TEMPERATURES: Maximum daily, 29.0°C Aug. 19, 1978; minimum daily, 0.0° C on many days during winter periods.

WATER-QUALITY DATA, MARCH 1996 TO SEPTEMBER 1996

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
MAR										
28...	0930	1020	263	8.2	11.0	4.0	748	13.0	101	260
APR										
26...	0830	1640	261	8.0	15.0	11.5	727	10.8	104	--
MAY										
31...	1030	405	369	8.2	17.0	13.0	749	10.4	101	K4
JUN										
25...	0915	546	319	8.2	22.0	18.5	741	9.1	100	K4800
AUG										
28...	0930	152	407	8.2	21.0	21.0	746	8.7	99	100
SEP										
12...	1000	177	414	8.3	19.5	19.5	739	8.6	97	340

DATE	HARD-NESS NONCARB DISSOLV FLD. AS CACO3 (MG/L) (00904)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
MAR									
28...	24	35	5.7	8.9	1.2	106	0	87	19
APR									
26...	19	32	5.2	7.9	1.4	100	0	82	18
MAY									
31...	25	51	9.1	11	1.6	171	0	140	25
JUN									
25...	28	44	7.0	8.6	1.7	135	0	111	18
AUG									
28...	42	55	11	13	1.9	172	0	141	28
SEP									
12...	37	56	10	13	1.9	176	0	144	30

K Results based on colony count outside the ideal range (non-ideal colony count).

04213500 CATTARAUGUS CREEK AT GOWANDA, NY--Continued

WATER-QUALITY DATA, MARCH 1996 TO SEPTEMBER 1996

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
MAR									
28...	16	<0.10	4.1	157	<0.01	0.94	<0.015	0.30	<0.20
APR									
26...	13	<0.10	4.1	134	<0.01	0.80	<0.015	0.30	<0.20
MAY									
31...	20	<0.10	2.7	230	<0.01	1.4	0.030	0.30	<0.20
JUN									
25...	14	<0.10	3.7	168	<0.01	0.81	0.040	1.3	<0.20
AUG									
28...	21	<0.10	2.6	234	<0.01	0.61	0.020	<0.20	<0.20
SEP									
12...	21	<0.10	4.3	235	0.02	0.73	0.040	<0.20	0.20

DATE	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
MAR									
28...	0.05	<0.01	<0.01	11	8.0	2.4	0.70	77	212
APR									
26...	0.08	<0.01	<0.01	11	7.0	2.6	0.90	144	638
MAY									
31...	<0.01	<0.01	<0.01	5.0	5.0	1.6	0.30	5	5.6
JUN									
25...	0.37	<0.01	0.01	71	4.0	3.4	1.8	486	717
AUG									
28...	<0.01	<0.01	<0.01	4.0	3.0	1.9	0.20	11	4.5
SEP									
12...	<0.01	0.02	<0.01	4.0	3.0	1.8	0.60	25	12

DATE	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLORPYRIFOS DISSOLVED (UG/L) (38933)	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)
MAR												
28...	<0.002	<0.002	0.008	E0.006	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002
APR												
26...	<0.002	<0.002	0.019	E0.008	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002
MAY												
31...	<0.002	<0.002	0.014	E0.006	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002
JUN												
25...	<0.002	0.018	0.126	E0.021	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	0.023	<0.002
AUG												
28...	<0.002	<0.002	0.023	E0.007	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002
SEP												
12...	<0.002	<0.002	0.017	E0.006	<0.001	<0.002	<0.002	<0.003	<0.003	<0.004	<0.004	<0.002

04213500 CATTARAUGUS CREEK AT GOWANDA, NY--Continued

WATER-QUALITY DATA, MARCH 1996 TO SEPTEMBER 1996

DATE	P,P' DDE DISSOLV (UG/L) (34653)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
MAR												
28...	<0.006	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002
APR												
26...	<0.006	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002
MAY												
31...	<0.006	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002
JUN												
25...	<0.006	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002
AUG												
28...	<0.006	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002
SEP												
12...	<0.006	<0.002	<0.001	<0.003	<0.017	<0.002	<0.004	<0.003	<0.003	<0.002	<0.004	<0.002

DATE	MALA-THION, DIS-SOLVED (UG/L) (39532)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARA-THION, DIS-SOLVED (UG/L) (39542)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)
MAR												
28...	<0.005	0.005	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
APR												
26...	<0.005	0.006	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
MAY												
31...	<0.005	0.006	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
JUN												
25...	<0.005	0.116	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	E0.003
AUG												
28...	<0.005	0.004	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	<0.018
SEP												
12...	<0.005	E0.004	<0.004	<0.004	<0.003	<0.004	<0.006	<0.004	<0.004	<0.005	<0.002	E0.003

DATE	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROP-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)
MAR											
28...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002
APR											
26...	<0.003	<0.007	<0.004	<0.013	<0.005	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002
MAY											
31...	<0.003	<0.007	<0.004	<0.013	E0.003	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002
JUN											
25...	<0.003	<0.007	<0.004	<0.013	E0.005	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002
AUG											
28...	<0.003	<0.007	<0.004	<0.013	E0.005	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002
SEP											
12...	<0.003	<0.007	<0.004	<0.013	E0.004	<0.010	<0.007	<0.013	<0.002	<0.001	<0.002

04213500 CATTARAUGUS CREEK AT GOWANDA, NY--Continued

Concentrations of trace elements and organic compounds in streambed sediments

Stream bed sediment samples were collected during low-flow conditions in the Lake Erie - Lake St. Clair basin to determine concentrations of trace elements and hydrophobic organic compounds in stream bed sediment. Samples of bed sediment are used to assess contaminants in stream systems. Since contaminants are often concentrated in bed sediment their use in assessments increases the probability of detecting low-level concentrations of contaminants. Bed sediment also provide an assessment of contaminant levels over time and are a direct measure of the availability of contaminants to organisms. Bed sediment and water samples provide a better understanding of the distribution and fate of contaminants than either measure can provide on its own.

Composite bed sediments samples were collected through the collection of the top 1 to 2 centimeters of material from at least 5 different depositional areas within the stream reach. A subsample from the composite sample collected at each site was shipped to the Iowa City sediment laboratory for particle-size analysis. Additionally, subsamples from the composite were: (1) processed using a 2.0-millimeter stainless-steel mesh sieve (WS, <2MM) for preparation of material for organic contaminant analysis, and (2) processed using a 63-micrometer nylon-cloth sieve (<63U WS) for preparation of material for trace element analysis. More specific details describing the guidelines used in collection and in processing the stream-bed sediment samples can be found in Shelton and Capel (1994).

Results of the laboratory analysis and the field measurements recorded at the time of sample collection are summarized in the following tables. Constituent concentrations are provided on a dry-weight (DW) basis. Constituent names are abbreviated as follows: DDD, dichlorodiphenyldichloroethane; DDE, dichlorodiphenyldichloroethene; DCPA, dimethyl tetrachloroterephthalate; DDT, dicholorodiphenyltrichloroethane; HCH, hexachlorocyclohexane; PCB, polychlorinated biphenyls. (BOT MAT = bottom material, SED, BM = sediment, bottom material, BED MAT = bed material, REC = recoverable, (49239) = number in parentheses beneath the constituent description is the USGS National Water Quality Laboratory parameter code). Additional tissue, surface-water, and/or water-quality data for these sampling sites can be found in the continuous-record station sections of the Indiana, Michigan, New York, and Ohio, data reports.

BED SEDIMENT DATA, AUGUST 1996

DATE	TIME	ALUMINUM BOT MAT <63U WS FIELD PERCENT (34790)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	MAGNESIUM BOT MAT <63U WS FIELD PERCENT (34900)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	POTASSIUM BOT MAT <63U WS FIELD PERCENT (34940)	PHOSPHORUS BOT MAT <63U WS FIELD PERCENT (34935)	TITANIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	ANTIMONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)
AUG 22...	1030	5.7	4.2	3.3	1.3	0.67	1.9	0.07	0.290	0.6	11	390

DATE	BERYLLIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)	CHROMIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	EUROPIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	LANTHANUM BOT MAT <63U WS FIELD (UG/G) (34885)
AUG 22...	2	<10	0.3	55	52	15	25	<2	13	<8	<4	28

DATE	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MANGANESE BOT MAT <63U WS FIELD (UG/G) (34905)	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYBDENUM BOT MAT <63U WS FIELD (UG/G) (34915)	NEODYMIUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	SCANDIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELENIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	STRONTIUM BOT MAT <63U WS FIELD (UG/G) (34965)
AUG 22...	21	40	750	0.02	<2	26	30	11	11	0.2	0.1	130

DATE	SULFUR BOT MAT <63U WS FIELD (UG/G) (34970)	TANTALUM BOT MAT <63U WS FIELD (UG/G) (34975)	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	VANADIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTERBIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PERCENT) (49266)
AUG 22...	0.31	<40	9	<10	3.2	78	22	2	86	2.35	1.01

04213500 CATTARAUGUS CREEK AT GOWANDA, NY--Continued

BED SEDIMENT DATA, AUGUST 1996

DATE	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	PCB, SED, BM WS,<2MM DW, REC (UG/KG) (49459)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ALDRIN, SED, BM WS,<2MM DW, REC (UG/KG) (49319)	PHENOL C8-ALKYL- SED, BM WS,<2MM DW, REC (UG/KG) (49424)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)
AUG 22...	1.34	22.0	12.0	9.70	<50	E13	<50	<50	<1	<50	E9.0

DATE	9,10-ANTHRA-QUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	AZO-BENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZOCI NNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	2,2'-BI QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	4-BROMO PHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)	PHTHALA TEBUTYL BENZYL- SED, BM WS,<2MM DW, REC (UG/KG) (49427)
AUG 22...	E21	<50	55	<50	67	E45	E40	58	<50	<50	E42

DATE	CARBA-ZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CIS-CHLOR-DANE, SED, BM WS,<2MM DW, REC (UG/KG) (49320)	TRANS-CHLOR-DANE, SED, BM WS,<2MM DW, REC (UG/KG) (49321)	METHANE 2CHLORO ETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	M-CRE-SOL, 4-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49422)	NAPTHAL ENE, 2-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49407)	CHLORO-NEB, SED, BM WS,<2MM DW, REC (UG/KG) (49322)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	4CHLORO PHNPHN LETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
AUG 22...	<50	<1	<1	<50	<50	<50	<5	<50	<50	85	140

DATE	DCPA, SED, BM WS,<2MM DW, REC (UG/KG) (49324)	O, P'-DDD, SED, BM WS,<2MM DW, REC (UG/KG) (49325)	P, P'-DDD, SED, BM WS,<2MM DW, REC (UG/KG) (49326)	O, P'-DDE, SED, BM WS,<2MM DW, REC (UG/KG) (49327)	P, P'-DDE, SED, BM WS,<2MM DW, REC (UG/KG) (49328)	O, P'-DDT, SED, BM WS,<2MM DW, REC (UG/KG) (49329)	P, P'-DDT, SED, BM WS,<2MM DW, REC (UG/KG) (49330)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPH ENE,DI-BENZO-SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHAL-ATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)	BENZENE O-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49439)
AUG 22...	<5	<1	<1	<1	<1	<2	<2	<50	<50	61	<50

DATE	BENZENE M-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49442)	DIEL-DRIN, SED, BM WS,<2MM DW, REC (UG/KG) (49331)	PHTHAL-ATE, D IETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	3,5-XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)	PHTHAL-ATE,DI-METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	TOLUENE 2,4-DI-NITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49395)	TOLUENE 2,6-DI-NITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49396)
AUG 22...	<50	<50	<1	E41	<50	<50	E38	<50	<50	<50	<50

DATE	PHTHAL ATE, D IOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)	ENDO-SULFAN I, SED, BM WS,<2MM DW, REC (UG/KG) (49332)	ENDRIN, SED, BM WS,<2MM DW, REC (UG/KG) (49335)	PHTHALA TE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	MOVE VALUES TO PCODE 49948 (49490)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	ALPHA-HCH, SED, BM WS,<2MM DW, REC (UG/KG) (49338)	BETA-HCH, SED, BM WS,<2MM DW, REC (UG/KG) (49339)	LINDANE SED, BM WS,<2MM DW, REC (UG/KG) (49345)	HEPTA-CHLOR, SED, BM WS,<2MM DW, REC (UG/KG) (49341)
AUG 22...	91	<1	<2	83	<50	100	<50	<1	<1	<1	<1

04213500 CATTARAUGUS CREEK AT GOWANDA, NY--Continued

BED SEDIMENT DATA, AUGUST 1996

DATE	HEPTACHLOR EPOXIDE SED, BM WS,<2MM DW, REC (UG/KG) (49342)	BENZENE HEXACHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49343)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISODRIN SED, BM WS,<2MM DW, REC (UG/KG) (49344)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISOQUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	METHOXYCHLOR, O,P'-, SED, BM WS,<2MM DW, REC (UG/KG) (49347)	METHOXYCHLOR P,P'-, SED, BM WS,<2MM DW, REC (UG/KG) (49346)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)
AUG 22...	<1	<5	74	<1	<50	<50	<5	<5	<50	E9.0	<50

DATE	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	MIREX, SED, BM WS,<2MM DW, REC (UG/KG) (49348)	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49444)	DIPHNYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)	DPROPYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	CIS-NONACHLOR, SED, BM WS,<2MM DW, REC (UG/KG) (49316)	TRANS-NONACHLOR, SED, BM WS,<2MM DW, REC (UG/KG) (49317)	OXYCHLORDANE, SED, BM WS,<2MM DW, REC (UG/KG) (49318)	PENTACHLOROANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)
AUG 22...	E10	E15	<1	<5	<50	<50	<50	<1	<1	<1	<1

DATE	BENZENE PNTCHLR NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49446)	CIS-PERMETHRIN SED, BM WS,<2MM DW, REC (UG/KG) (49349)	TRANS-PERMETHRIN SED, BM WS,<2MM DW, REC (UG/KG) (49350)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	TOXAPHENE SED, BM WS,<2MM DW, REC (UG/KG) (49351)	BENZENE 124TRICHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49438)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)
AUG 22...	<50	<5	<5	E44	<50	<50	84	<50	<200	<50	<50

04214500 BUFFALO CREEK AT GARDENVILLE, NY

LOCATION.--Lat 42°51'17", long 78°45'19", Erie County, Hydrologic Unit 04120103, on left bank 300 ft downstream from bridge on Union Road in Gardenville, 2.0 mi upstream from Cayuga Creek, and 10.1 mi upstream from mouth.

DRAINAGE AREA.--142 mi^2.

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1337: 1939-52. WSP 1912; WDR NY-82-3: Drainage area. WRD NY-78-1: 1939-1976 (P).

GAGE.--Water-stage recorder. Datum of gage is 603.65 ft above sea level. Prior to Sept. 26, 1968, water-stage recorder at site 400 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Telephone gage-height telemeter at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,750 ft^3/s and maximum (*);

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 19	1900	*8,410	8.10	Apr. 23	2030	5,260	6.50
Feb. 21	0300	Ice jam	*12.41	May 10	2100	4,000	5.72
Apr. 13	0530	5,260	6.50				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	40	249	e74	e92	199	180	614	54	67	83	9.1
2	9.5	69	395	e72	e88	167	171	458	48	39	39	9.1
3	10	131	217	e68	e86	e130	150	261	57	32	34	8.7
4	14	95	324	e66	e80	e120	201	252	140	33	30	8.8
5	31	75	211	e76	e80	e150	248	344	100	34	24	9.5
6	174	59	e160	e90	e78	e140	219	283	75	28	19	10
7	113	69	e100	e86	e78	e130	178	226	420	24	17	12
8	65	190	e80	e82	e110	e130	185	179	647	25	18	21
9	37	108	e98	e78	e540	e120	151	268	202	22	117	19
10	27	72	e80	e76	e420	e120	148	1550	119	21	76	17
11	21	291	e78	e76	e340	e110	189	2290	1470	20	34	14
12	19	1080	e80	e74	e260	e110	296	2230	576	19	23	17
13	17	293	e84	e74	e190	e200	4230	705	241	18	19	39
14	28	195	e160	e72	e160	e400	1820	408	153	18	18	84
15	249	289	e660	e80	e140	1110	580	280	117	33	16	127
16	104	283	e320	e110	e120	551	451	221	81	49	17	109
17	71	258	e220	e800	e110	319	347	194	63	31	18	51
18	43	261	e170	e2000	e105	251	298	170	59	23	17	155
19	33	462	e140	e5000	e100	290	240	150	110	57	15	92
20	30	486	e100	1100	e800	464	430	125	172	64	14	42
21	1090	702	e110	486	e2000	503	386	1120	240	34	13	30
22	405	489	e120	330	e1000	302	416	419	117	23	12	28
23	143	319	e110	310	e600	249	2890	198	75	18	12	28
24	82	228	e100	1450	e340	214	2180	188	73	18	13	29
25	57	181	e98	827	e260	606	829	135	114	18	13	31
26	45	181	e94	399	e220	969	460	105	70	19	12	39
27	40	196	e90	618	e210	283	350	92	50	29	11	42
28	38	1480	e92	473	571	219	256	84	41	19	10	386
29	38	511	e86	288	300	222	230	72	37	16	9.8	541
30	42	253	e80	e220	---	207	434	64	84	29	9.6	140
31	43	---	e76	e100	---	184	---	58	---	189	9.3	---
TOTAL	3128.2	9346	4982	15655	9478	9169	19143	13743	5805	1069	772.7	2148.2
MEAN	101	312	161	505	327	296	638	443	193	34.5	24.9	71.6
MAX	1090	1480	660	5000	2000	1110	4230	2290	1470	189	117	541
MIN	9.5	40	76	66	78	110	148	58	37	16	9.3	8.7
CFSM	.71	2.19	1.13	3.56	2.30	2.08	4.49	3.12	1.36	.24	.18	.50
IN.	.82	2.45	1.31	4.10	2.48	2.40	5.01	3.60	1.52	.28	.20	.56

e Estimated

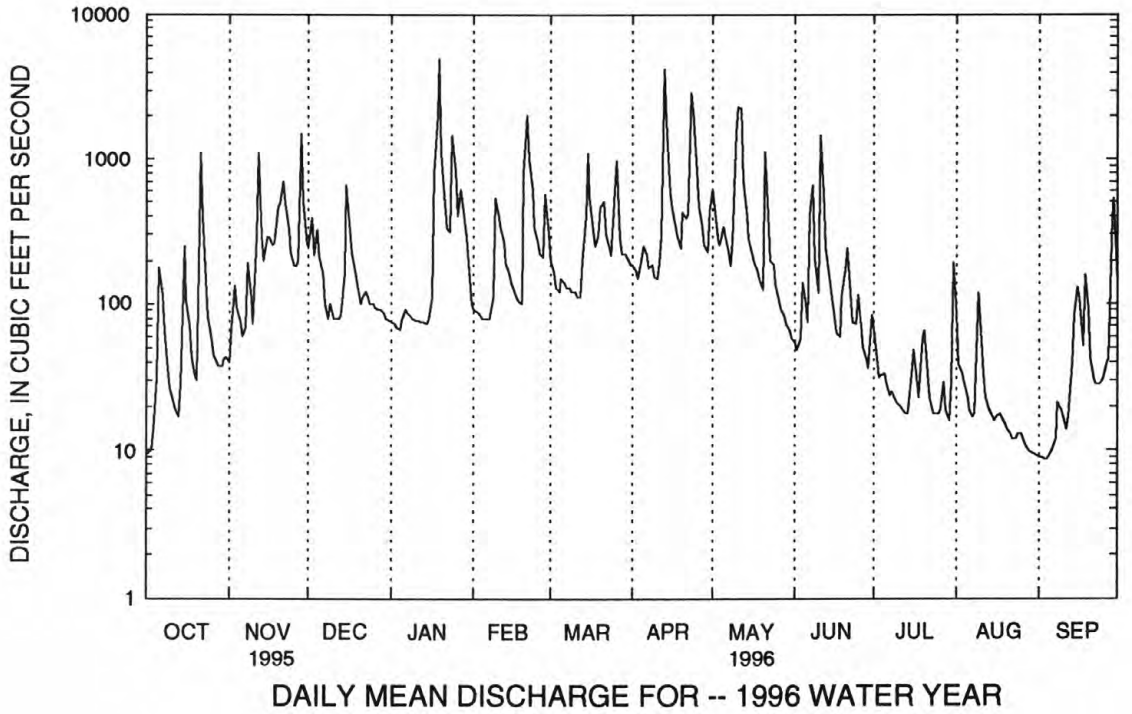
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1996, BY WATER YEAR (WY)

MEAN	90.2	202	291	250	295	500	381	178	102	49.9	47.0	69.3
MAX	381	685	706	512	835	1048	950	495	531	354	376	827
(WY)	1987	1986	1991	1969	1976	1942	1947	1984	1989	1992	1992	1977
MIN	9.32	18.2	17.4	27.4	40.2	197	68.8	38.5	15.6	6.89	10.8	6.25
(WY)	1965	1961	1961	1961	1963	1981	1946	1941	1955	1955	1966	1964

04214500 BUFFALO CREEK AT GARDENVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1939 - 1996	
ANNUAL TOTAL	55905.6		94439.1			
ANNUAL MEAN	153		258		204	
HIGHEST ANNUAL MEAN					301	1977
LOWEST ANNUAL MEAN					128	1965
HIGHEST DAILY MEAN	2300	Jan 13	e5000	Jan 19	7650	Mar 7 1956
LOWEST DAILY MEAN	e8.5	Sep 7	8.7	Sep 3	1.0	Sep 1 1964
ANNUAL SEVEN-DAY MINIMUM	10	Aug 24	9.2	Aug 30	2.6	Sep 13 1964
INSTANTANEOUS PEAK FLOW			8410	Jan 19	a11300	b
INSTANTANEOUS PEAK STAGE			c12.41	Feb 21	14.34	Mar 21 1978
INSTANTANEOUS LOW FLOW			8.5	d	.20	Sep 1 1964
ANNUAL RUNOFF (CFSM)	1.08		1.82		1.44	
ANNUAL RUNOFF (INCHES)	14.65		24.74		19.53	
10 PERCENT EXCEEDS	319		544		462	
50 PERCENT EXCEEDS	75		110		86	
90 PERCENT EXCEEDS	13		18		15	

a From rating curve extended above 3,200 ft^3/s on basis of slope-area measurement at gage-height 7.07 ft.
b Mar. 1, 1955, Mar. 7, 1956.
c Ice jam.
d Sep. 3, 4.
e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04215000 CAYUGA CREEK NEAR LANCASTER, NY

LOCATION.--Lat 42°53'24", long 78°38'43", Erie County, Hydrologic Unit 04120103, on right bank 150 ft upstream from low dam in Como Lake Park, 700 ft downstream from bridge on Bowen Road, 800 ft downstream from Little Buffalo Creek, 2.0 mi southeast of Lancaster, and 8.7 mi upstream from mouth.

DRAINAGE AREA.--96.4 mi^2.

PERIOD OF RECORD.--September 1938 to September 1968. October 1971 to April 1974 (peak discharges only). May 1974 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder and low concrete dam as control. Datum of gage is 672.02 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since August 1962, undetermined amount of flow diverted by Lancaster Country Club for irrigation upstream from station. Concrete dam configuration modified in September 1974 resulting in a lower point of zero flow. Telephone gage-height telemeter at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 19	1445	*7,450	*9.40	Apr. 23	1730	4,050	7.52
Apr. 13	1945	3,830	7.39	May 10	2215	4,560	7.81

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	23	e180	e54	e60	e110	121	328	33	44	72	2.7
2	2.8	57	e320	e52	e54	e80	110	241	29	26	40	2.5
3	2.3	e70	e190	e49	e47	e64	97	150	35	21	20	2.4
4	2.7	e60	e280	e54	e42	e76	135	149	216	22	15	2.4
5	6.3	e50	e160	e58	e40	e72	153	170	101	20	11	2.8
6	73	e40	e88	e54	e39	e68	187	157	60	17	9.1	2.9
7	53	e62	e64	e52	44	e66	132	124	437	14	7.8	4.2
8	31	e180	e52	e52	127	e64	132	99	398	12	8.5	8.1
9	15	e92	e78	e51	501	e60	103	127	137	11	14	12
10	9.7	e50	e60	e50	197	e58	104	1260	82	11	13	7.2
11	7.2	e270	e56	e50	e180	e56	124	1500	664	11	9.6	5.5
12	5.4	e920	e54	e49	e120	67	231	1430	421	9.6	7.6	6.1
13	4.7	e200	e52	e49	e96	87	3000	373	159	8.6	6.6	20
14	7.8	e100	e52	e48	e86	368	1060	212	97	7.7	6.2	37
15	181	e220	e580	e60	e74	875	327	158	70	19	5.7	53
16	68	e210	e240	80	e66	395	284	131	52	35	8.8	119
17	27	e205	e160	653	e60	225	221	118	41	17	6.8	43
18	18	e200	e100	2540	e56	201	190	103	43	12	5.5	180
19	13	e400	e66	4010	e54	236	149	88	80	64	5.1	56
20	11	e420	e60	575	e340	306	267	74	114	62	4.5	26
21	858	e620	75	281	e1600	277	229	830	88	23	4.5	17
22	229	e380	78	202	605	186	382	262	52	14	4.2	14
23	89	e240	74	187	347	158	2200	140	40	11	4.2	20
24	51	e170	71	1210	453	144	1340	132	41	9.3	5.0	20
25	38	e110	70	482	218	650	582	92	97	9.6	6.1	25
26	30	e96	65	272	167	625	286	72	52	9.5	4.4	19
27	26	e110	62	478	144	183	229	61	34	12	3.6	18
28	25	e1300	63	e230	452	143	161	49	26	9.6	3.6	579
29	26	e410	59	e160	187	150	152	46	23	7.8	3.5	427
30	23	e190	57	e90	---	137	306	41	74	14	3.1	104
31	21	---	e54	e70	---	125	---	37	---	97	2.8	---
TOTAL	1956.5	7455	3620	12302	6456	6312	12994	8754	3796	660.7	321.8	1835.8
MEAN	63.1	248	117	397	223	204	433	282	127	21.3	10.4	61.2
MAX	858	1300	580	4010	1600	875	3000	1500	664	97	72	579
MIN	1.6	23	52	48	39	56	97	37	23	7.7	2.8	2.4
CFSM	.65	2.58	1.21	4.12	2.31	2.11	4.49	2.93	1.31	.22	.11	.63
IN.	.75	2.88	1.40	4.75	2.49	2.44	5.01	3.38	1.46	.25	.12	.71

e Estimated

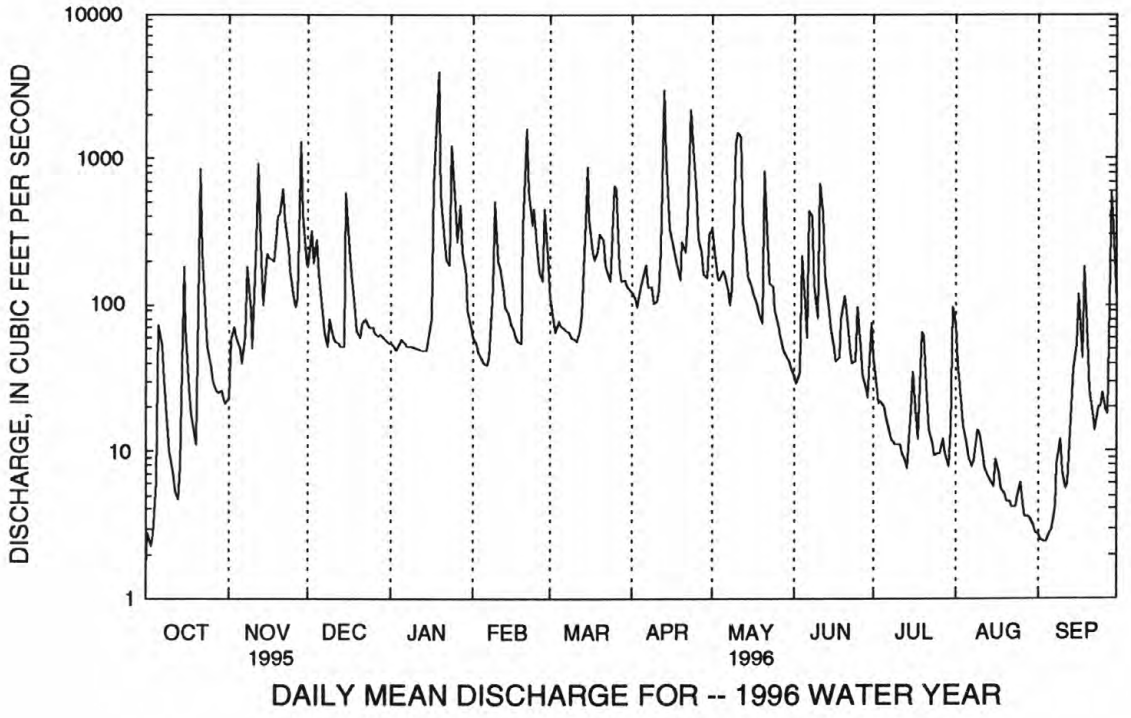
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1996, BY WATER YEAR (WY).

MEAN	58.3	128	187	168	207	345	252	107	53.8	22.5	30.1	47.2
MAX	252	601	505	397	457	680	623	330	338	163	323	572
(WY)	1987	1986	1978	1996	1976	1942	1940	1947	1989	1992	1977	1977
MIN	2.90	4.34	5.60	9.85	25.1	146	36.5	18.7	5.88	1.06	1.87	.80
(WY)	1967	1961	1961	1961	1963	1981	1946	1941	1955	1955	1939	1960

04215000 CAYUGA CREEK NEAR LANCASTER, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1939 - 1968 1974 - 1996	
ANNUAL TOTAL	38470.6		66463.8			
ANNUAL MEAN	105		182		134	
HIGHEST ANNUAL MEAN					206	1956
LOWEST ANNUAL MEAN					78.5	1962
HIGHEST DAILY MEAN	1900	Mar 7	4010	Jan 19	5830	Feb 24 1985
LOWEST DAILY MEAN	1.6	Oct 1	1.6	Oct 1	.10	Aug 9 1939
ANNUAL SEVEN-DAY MINIMUM	2.1	Aug 24	2.6	Aug 31	.19	Jul 11 1955
INSTANTANEOUS PEAK FLOW			7450	Jan 19	9440	Sep 14 1979
INSTANTANEOUS PEAK STAGE			9.40	Jan 19	a12.58	Mar 30 1960
INSTANTANEOUS LOW FLOW			1.3	Oct 2	b.00	c
ANNUAL RUNOFF (CFSM)	1.09		1.88		1.39	
ANNUAL RUNOFF (INCHES)	14.85		25.65		18.82	
10 PERCENT EXCEEDS	229		403		307	
50 PERCENT EXCEEDS	48		66		46	
90 PERCENT EXCEEDS	2.9		7.5		3.8	

a Ice jam.
b Practically no flow when stop logs were installed in the dam.
c Aug. 8, 9, 1939.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04215500 CAZENOVIA CREEK AT EBENEZER, NY

LOCATION.--Lat 42°49'47", long 78°46'31", Erie County, Hydrologic Unit 04120103, on right bank 30 ft upstream from bridge on Ridge Road in Ebenezer, 4.0 mi upstream from mouth, and 5.0 mi southeast of Buffalo.

DRAINAGE AREA.--135 mi^2.

PERIOD OF RECORD.--June 1940 to current year.

REVISED RECORDS.--WSP 1912: Drainage area. WRD NY 1973: 1972 (M). WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 604.86 ft above sea level. Prior to Apr. 4, 1955, at datum 2.00 ft higher. Apr. 4 to Oct. 12, 1955, nonrecording gage at temporary site 1.3 mi downstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Telephone gage-height telemeter at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 19	1345	*10,020	*12.28	Apr. 23	1645	4,940	8.62
Apr. 13	0600	5,800	9.31	May 10	2345	4,490	8.24

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	60	332	e76	e100	219	191	525	58	71	91	10
2	9.6	153	483	e74	e92	190	170	393	55	52	47	9.5
3	9.3	198	280	e72	e90	e150	150	240	71	48	40	9.8
4	17	153	625	e70	e86	e140	185	245	123	81	35	10
5	61	113	279	e82	e84	e160	201	297	101	62	27	9.7
6	280	88	e200	e96	e82	e150	167	267	75	46	23	9.3
7	121	138	e160	e90	e90	e140	155	200	838	39	21	15
8	59	338	e100	e86	e220	e130	165	157	703	39	26	31
9	33	141	e110	e82	e600	e125	146	210	239	34	280	38
10	22	99	e92	e80	e300	e120	139	1810	150	33	101	28
11	16	561	e88	e78	e280	e120	158	2410	1020	31	47	19
12	13	1490	e88	e76	e240	e160	470	2100	487	29	34	25
13	11	332	e120	e74	e220	e300	4510	595	218	27	27	47
14	24	224	e300	e74	e170	1090	1670	351	374	25	23	107
15	357	325	e750	e90	e150	966	516	260	209	94	21	155
16	152	321	e490	321	e130	477	467	208	114	67	30	106
17	66	282	e250	1410	e120	275	349	181	84	38	29	61
18	37	284	e160	2400	e110	225	303	157	95	29	24	228
19	26	601	e150	6100	e280	273	240	135	302	58	20	92
20	26	573	e120	1050	e1600	460	444	113	471	67	18	46
21	1450	790	e120	453	e2100	394	354	1120	439	40	17	32
22	382	508	e130	306	1140	252	448	349	184	30	16	30
23	142	341	e120	282	511	218	3000	191	123	25	19	30
24	88	253	e110	1540	e420	190	1990	188	149	26	20	33
25	67	203	e100	698	e300	634	656	131	165	26	16	56
26	56	204	e96	357	e250	814	391	106	107	50	14	59
27	50	258	e94	518	241	266	330	97	77	41	13	56
28	50	2170	e94	404	743	208	233	85	62	29	13	901
29	52	599	e90	255	328	212	208	76	57	24	12	628
30	69	293	e84	214	---	195	428	68	89	59	11	157
31	66	---	e80	e160	---	184	---	64	---	195	11	---
TOTAL	3822.9	12093	6295	17668	11077	9437	18834	13329	7239	1515	1126	3038.3
MEAN	123	403	203	570	382	304	628	430	241	48.9	36.3	101
MAX	1450	2170	750	6100	2100	1090	4510	2410	1020	195	280	901
MIN	9.3	60	80	70	82	120	139	64	55	24	11	9.3
CFSM	.91	2.99	1.50	4.22	2.83	2.25	4.65	3.18	1.79	.36	.27	.75
IN.	1.05	3.33	1.73	4.87	3.05	2.60	5.19	3.67	1.99	.42	.31	.84

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

MEAN	110	248	350	295	327	556	422	203	108	51.4	48.7	79.1
MAX	410	705	868	576	859	1062	1005	585	473	381	371	977
(WY)	1946	1986	1991	1957	1976	1945	1947	1984	1989	1992	1977	1977
MIN	9.76	16.2	20.4	37.8	55.8	216	79.9	43.6	17.5	6.11	9.62	7.93
(WY)	1954	1961	1961	1961	1963	1981	1946	1941	1955	1955	1966	1960

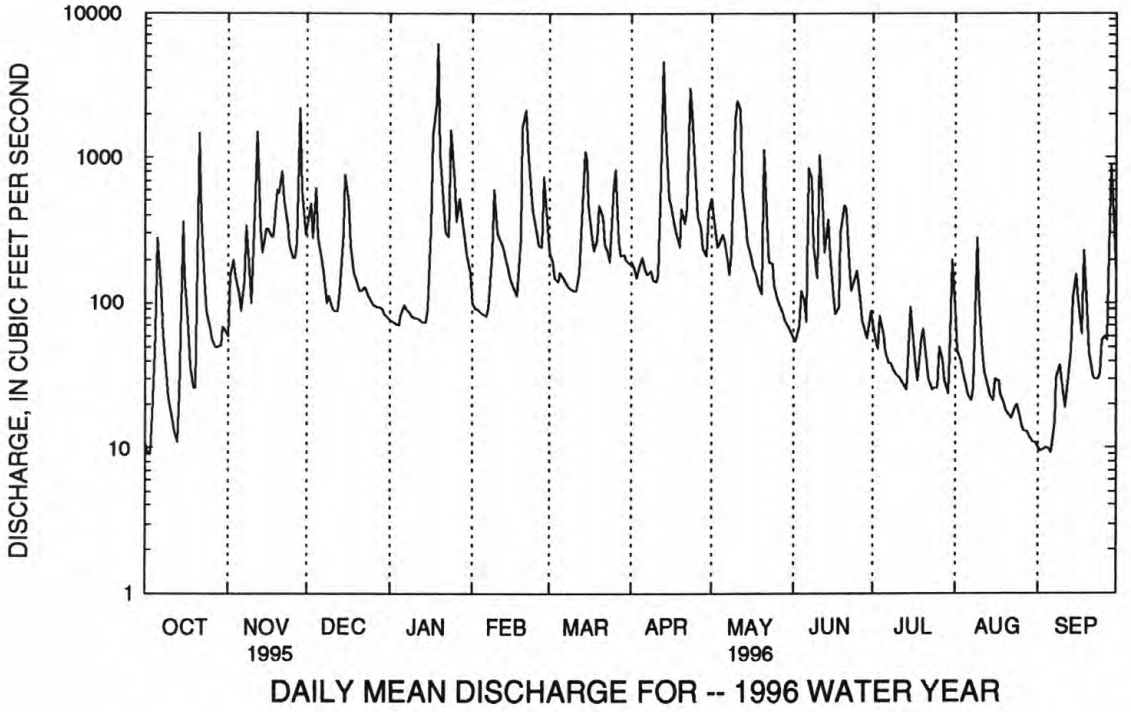
04215500 CAZENOVIA CREEK AT EBENEZER, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1940 - 1996	
ANNUAL TOTAL	66710.4		105474.2			
ANNUAL MEAN	183		288		233	
HIGHEST ANNUAL MEAN					332	1977
LOWEST ANNUAL MEAN					163	1965
HIGHEST DAILY MEAN	2900	Jan 13	6100	Jan 19	7560	Mar 7 1956
LOWEST DAILY MEAN	5.8	Aug 30	9.3	a	3.1	Jul 20 1955
ANNUAL SEVEN-DAY MINIMUM	6.1	Aug 24	9.9	Aug 31	3.5	Jul 17 1955
INSTANTANEOUS PEAK FLOW			10200	Jan 19	b13500	Mar 1 1955
INSTANTANEOUS PEAK STAGE			12.28	Jan 19	c15.82	Mar 1 1955
INSTANTANEOUS LOW FLOW			7.1	Oct 3	2.6	Nov 7 1953
ANNUAL RUNOFF (CFSM)	1.35		2.13		1.72	
ANNUAL RUNOFF (INCHES)	18.38		29.06		23.42	
10 PERCENT EXCEEDS	404		599		546	
50 PERCENT EXCEEDS	86		130		97	
90 PERCENT EXCEEDS	13		25		15	

a Oct. 3, Sep. 6.

b From rating curve extended above 7,700 ft^3/s.

c Present datum.



04215900 LAKE ERIE AT BUFFALO, NY

LOCATION.--Lat 42°52'39", long 78°53'26", Erie County, Hydrologic Unit 04120200, near outer end of Buffalo River South Pier, at Buffalo.

DRAINAGE AREA.--263,700 mi^2.

PERIOD OF RECORD.--January 1860 to current year. Records prior to October 1960 in files of Lake Survey Center.

REVISED RECORDS.--WDR NY-75-1: 1974.

GAGE.--Water-stage recorder. Elevations are in feet International Great Lakes Datum (IGLD) of 1985. Prior to Oct. 1, 1991, elevations are in feet (IGLD) of 1955. Prior to Feb. 5, 1899, nonrecording gages.

COOPERATION.--Records furnished by U.S. Department of Commerce, NOAA-NOS, Lake Survey Center, Detroit, Mich.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 581.34 ft, Dec. 2, 1985; minimum, 564.86 ft, Mar. 10, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 576.54 ft, Nov. 28; minimum elevation, 567.94 ft, Oct. 5.

ELEVATION (FEET IGLD), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	571.48	570.99	572.14	570.63	571.03	571.35	571.48	572.11	572.30	573.03	573.03	572.34
2	571.58	571.48	571.12	569.88	571.16	571.32	571.48	571.94	572.40	572.96	572.90	572.37
3	570.89	572.44	571.45	570.11	570.93	572.17	570.99	571.88	572.37	572.99	572.83	572.34
4	571.39	572.08	571.42	571.12	570.96	571.25	570.60	571.91	572.47	573.03	572.80	572.30
5	569.58	571.85	571.52	571.06	571.16	570.99	571.55	571.85	572.63	572.99	572.76	572.21
6	572.08	571.42	573.26	570.80	570.83	570.73	571.42	571.81	572.40	573.03	572.80	571.91
7	572.24	571.35	571.88	570.01	570.86	571.09	571.68	571.81	572.50	572.93	572.80	571.94
8	571.85	571.91	571.03	571.32	570.93	571.45	571.52	571.81	572.47	572.83	572.93	573.19
9	571.48	571.42	572.86	571.55	570.96	571.32	571.52	571.94	572.24	573.09	572.83	572.53
10	571.55	571.39	573.58	571.09	570.86	571.19	571.62	572.27	572.50	572.99	572.76	572.60
11	571.55	572.17	572.37	570.70	571.48	571.19	571.55	572.24	572.57	572.83	572.67	572.63
12	571.68	572.04	571.32	570.89	571.06	571.19	571.19	572.53	572.63	572.73	572.80	572.83
13	571.52	571.39	570.76	571.16	570.93	571.19	571.35	572.50	572.73	572.80	572.83	572.86
14	572.34	571.06	571.29	570.93	570.93	571.22	571.62	572.30	572.80	572.83	572.63	573.75
15	573.09	572.34	571.29	570.57	570.96	571.29	571.16	572.17	572.70	572.99	572.93	573.26
16	572.30	571.68	571.35	570.73	570.96	571.09	572.08	572.24	572.67	573.16	572.83	572.37
17	571.52	571.35	571.03	570.83	570.99	571.03	571.94	572.21	572.50	572.99	572.70	572.04
18	571.68	571.42	570.30	570.60	571.03	571.22	571.42	572.40	572.47	572.90	572.67	572.53
19	571.22	571.25	569.78	572.70	570.80	570.47	571.48	572.47	572.83	573.29	572.53	572.53
20	571.75	571.68	571.25	571.09	570.86	570.57	571.65	572.50	572.96	572.93	572.80	572.50
21	571.81	572.01	571.48	570.96	570.93	571.62	571.48	572.47	572.96	572.96	572.70	572.47
22	572.40	571.81	571.39	570.99	570.96	571.81	571.58	572.47	573.12	572.86	572.67	573.16
23	571.39	571.78	571.35	570.89	570.76	571.71	571.71	572.44	572.99	573.09	572.76	572.57
24	572.67	571.29	571.48	571.45	571.94	571.32	571.75	572.24	572.96	573.03	572.63	572.80
25	571.58	571.58	571.68	571.06	571.16	572.47	571.81	572.21	573.06	573.12	572.80	572.83
26	571.42	571.22	571.42	570.83	570.89	572.27	572.11	572.21	573.06	573.03	572.63	572.24
27	571.42	571.19	571.29	573.16	570.89	571.32	571.85	572.21	573.03	572.90	572.24	572.63
28	572.17	572.11	571.22	571.32	572.04	571.03	571.68	572.21	572.96	572.60	572.30	573.22
29	571.71	571.16	571.71	571.68	571.48	571.35	571.25	572.11	573.09	572.70	572.47	573.09
30	571.52	571.45	571.32	571.45	---	571.29	572.40	572.37	573.29	572.93	572.34	572.53
31	571.09	---	570.99	571.16	---	571.32	---	572.37	---	573.09	572.40	---
MEAN	571.68	571.61	571.49	571.06	571.06	571.32	571.56	572.20	572.72	572.96	572.70	572.62
MAX	573.09	572.44	573.58	573.16	572.04	572.47	572.40	572.53	573.29	573.29	573.03	573.75
MIN	569.58	570.99	569.78	569.88	570.76	570.47	570.60	571.81	572.24	572.60	572.24	571.91

CAL YR 1995 MEAN 571.91 MAX 573.58 MIN 569.58
WTR YR 1996 MEAN 571.92 MAX 573.75 MIN 569.58

04216000 NIAGARA RIVER AT BUFFALO, NY

LOCATION.--Lat 42°52'40", long 78°55'00", Erie County, Hydrologic Unit 04120104, at head of Niagara River at Buffalo, and 34.3 mi upstream from mouth.

DRAINAGE AREA.--263,700 mi^2.

PERIOD OF RECORD.--January 1860 to September 1960 (monthly discharges only published in WSP 1912), October 1960 to current year. Records of January 1926 to September 1960 daily discharges available in files of U.S. Department of Commerce and U.S. Geological Survey.

REVISED RECORDS.--WSP 1912: 1862(M), 1955 (M), 1936 (M), WDR NY-77-1: Drainage area.

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.

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, which began operation 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, which began operation in July 1939, and by the Ogoki project, which began operation in July 1943. Figures of monthly mean discharge for 1860 to 1960 and daily discharge for 1961 to 1965, published in WSP 1912, are the official records of the U.S. Lake Survey, and have been coordinated with and concurred by the counterpart Canadian agencies, as have been the extremes for period of record through December 1976 and records October 1977 to current year.

COOPERATION.--Records of daily discharge furnished by Detroit District Corps of Engineers and Canada Department of the Environment.

AVERAGE DISCHARGE.--136 years, 206,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194000	189000	220000	188000	183000	201000	202000	211000	223000	225000	224000	214000
2	198000	203000	204000	155000	187000	201000	202000	210000	224000	224000	221000	214000
3	183000	218000	205000	149000	189000	216000	193000	213000	223000	223000	222000	213000
4	192000	220000	202000	181000	191000	197000	179000	214000	225000	225000	219000	213000
5	159000	214000	200000	189000	191000	198000	203000	213000	230000	227000	218000	212000
6	206000	201000	244000	192000	184000	186000	201000	211000	223000	227000	218000	204000
7	213000	202000	215000	167000	191000	196000	205000	211000	226000	222000	218000	202000
8	209000	208000	197000	187000	192000	201000	203000	212000	225000	221000	224000	237000
9	198000	207000	230000	207000	198000	203000	202000	213000	219000	221000	220000	222000
10	197000	203000	250000	198000	193000	203000	204000	224000	224000	221000	219000	220000
11	200000	219000	228000	192000	206000	198000	202000	226000	228000	219000	219000	225000
12	202000	233000	202000	193000	199000	196000	196000	235000	230000	215000	219000	231000
13	199000	210000	190000	197000	198000	197000	203000	235000	230000	218000	223000	230000
14	211000	202000	200000	196000	196000	200000	212000	229000	229000	218000	219000	255000
15	238000	219000	203000	187000	195000	202000	202000	224000	228000	220000	224000	253000
16	222000	216000	205000	187000	194000	199000	213000	223000	224000	224000	225000	228000
17	199000	205000	200000	197000	195000	194000	213000	220000	219000	224000	222000	214000
18	206000	206000	182000	195000	195000	200000	195000	224000	216000	220000	222000	226000
19	194000	207000	167000	240000	187000	184000	200000	227000	222000	228000	219000	225000
20	201000	208000	198000	202000	192000	180000	196000	228000	229000	222000	222000	227000
21	209000	218000	203000	203000	197000	207000	200000	232000	230000	221000	221000	225000
22	230000	215000	204000	202000	196000	209000	201000	231000	231000	221000	221000	238000
23	201000	218000	204000	199000	193000	210000	203000	231000	228000	226000	222000	226000
24	226000	202000	206000	208000	216000	202000	213000	224000	224000	224000	220000	231000
25	208000	210000	211000	202000	205000	217000	208000	221000	226000	225000	226000	232000
26	202000	203000	203000	196000	195000	234000	211000	221000	225000	223000	221000	219000
27	200000	196000	202000	233000	193000	198000	209000	219000	226000	221000	212000	227000
28	217000	220000	198000	226000	215000	195000	203000	221000	222000	214000	211000	241000
29	208000	199000	208000	200000	206000	200000	192000	216000	225000	215000	218000	245000
30	205000	207000	188000	189000	---	200000	204000	223000	231000	221000	213000	227000
31	196000	---	189000	171000	---	198000	---	224000	---	226000	216000	---
TOTAL	6323000	6278000	6358000	6028000	5672000	6222000	6070000	6866000	6765000	6881000	6818000	6776000
MEAN	204000	209300	205100	194500	195600	200700	202300	221500	225500	222000	219900	225900
MAX	238000	233000	250000	240000	216000	234000	213000	235000	231000	228000	226000	255000
MIN	159000	189000	167000	149000	183000	180000	179000	210000	216000	214000	211000	202000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1996, BY WATER YEAR (WY)

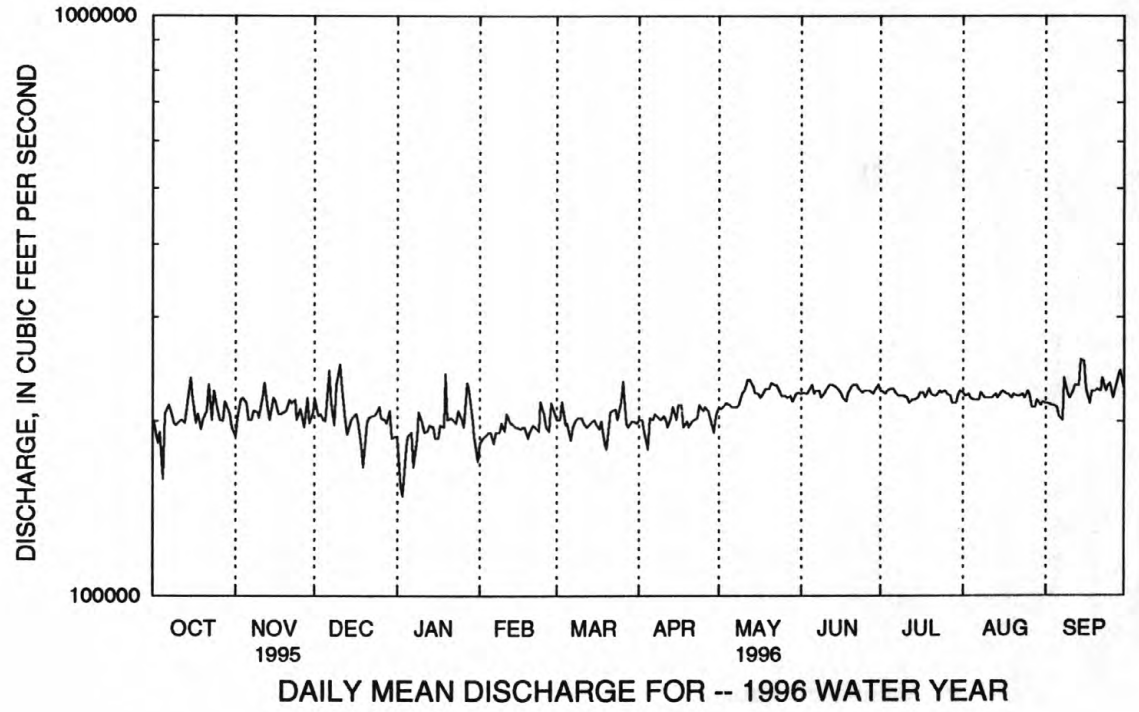
MEAN	200300	200600	201000	194900	192300	198300	207500	216300	216200	212100	208400	204300
MAX	254000	248000	260900	254000	241600	255500	264200	264700	268400	265200	253500	243700
(WY)	1987	1987	1986	1987	1987	1986	1985	1974	1986	1986	1986	1986
MIN	152700	148100	149800	138500	116200	142700	152000	159100	158000	154100	155000	153900
(WY)	1935	1935	1965	1964	1936	1934	1935	1934	1934	1934	1934	1934

ST. LAWRENCE RIVER MAIN STEM

04216000 NIAGARA RIVER AT BUFFALO, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1926 - 1996	
ANNUAL TOTAL	76680000		77057000			
ANNUAL MEAN	210100		210500		204800	
HIGHEST ANNUAL MEAN					249600	1986
LOWEST ANNUAL MEAN					155300	1934
HIGHEST DAILY MEAN	259000	Jan 22	255000	Sep 14	a347000	Dec 2 1985
LOWEST DAILY MEAN	159000	Oct 5	149000	Jan 3	90000	Jan 13 1964
ANNUAL SEVEN-DAY MINIMUM	187000	Sep 29	174000	Jan 2	105000	Feb 6 1936
10 PERCENT EXCEEDS	224000		228000		238000	
50 PERCENT EXCEEDS	209000		211000		206000	
90 PERCENT EXCEEDS	198000		192000		169000	

a Result of high, storm-generated Lake Erie level.



04216060 NIAGARA RIVER AT ANDERSON PARK, BUFFALO, NY

LOCATION.--Lat 42°54'53", long 78°54'12", Erie County, Hydrologic Unit 04120104, at Anderson Park (Broderick Park) dock at foot of Ferry Street on Squaw Island, Buffalo, 0.6 mi downstream from Peace Bridge.

DRAINAGE AREA.--263,700 mi^2.

PERIOD OF RECORD.--October 1984 to current year. Prior to October 1987, published as "at Bird Island."

GAGE.--Water-stage recorder. Datum of gage is International Great Lakes Datum (IGLD) of 1985. Prior to Oct. 1, 1991, datum of gage was International Great Lakes Datum (IGLD) of 1955.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 572.72 ft, Dec. 2, 1985; minimum recorded, 563.65 ft, Oct. 5, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum recorded elevation, 569.20 ft, Nov. 28; minimum recorded, 563.65 ft, Oct. 5.

ELEVATION (FEET IGLD), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	566.22	565.82	566.70	565.45	566.11	566.08	566.11	566.62	566.72	567.11	567.25	566.76
2	566.26	566.10	565.85	564.76	566.28	565.85	566.10	566.54	566.79	567.07	567.18	566.77
3	565.74	566.86	565.95	565.05	565.98	566.72	565.75	566.55	566.76	567.10	567.09	566.67
4	566.15	566.66	566.01	565.86	565.76	566.07	565.41	566.44	566.91	567.12	567.04	566.74
5	564.99	566.38	565.97	566.18	565.72	565.53	566.06	566.41	566.98	567.05	567.01	566.66
6	566.49	566.08	567.51	565.86	565.58	565.36	565.96	566.30	566.78	567.04	567.05	566.47
7	566.73	566.08	566.55	565.45	565.75	565.64	566.19	566.27	566.86	566.96	567.08	566.43
8	566.58	566.54	565.87	566.49	565.68	566.12	566.08	566.38	566.91	566.95	567.17	567.53
9	566.23	566.15	566.95	566.70	565.73	566.01	566.05	566.40	566.74	567.07	567.16	567.02
10	566.23	565.98	567.72	566.11	565.56	565.88	566.15	566.67	566.95	567.09	567.08	567.03
11	566.27	566.48	567.03	565.73	566.16	565.72	566.08	566.77	567.05	566.99	566.97	567.05
12	566.33	566.91	566.04	565.78	565.83	565.72	565.91	567.08	567.06	566.84	567.03	567.30
13	566.22	566.11	565.51	566.03	565.54	565.72	566.09	566.98	567.12	566.84	567.13	567.27
14	566.73	565.81	565.91	565.78	565.60	565.74	566.29	566.73	567.21	566.92	567.05	568.06
15	567.53	566.68	565.98	565.49	565.61	565.80	565.89	566.60	567.14	567.08	567.18	567.78
16	566.92	566.44	565.92	565.65	565.79	565.73	566.41	566.63	567.12	567.22	567.16	567.18
17	566.24	566.02	565.72	565.59	565.75	565.58	566.51	566.61	567.02	567.10	567.07	566.66
18	566.39	565.99	565.24	565.42	565.65	565.76	565.93	566.75	567.01	567.01	567.02	567.12
19	566.01	565.93	564.84	567.21	565.56	565.28	565.94	566.84	567.25	567.40	566.91	567.06
20	566.27	566.24	565.90	566.58	565.61	565.30	566.01	566.86	567.40	567.15	567.02	567.10
21	566.56	566.60	566.13	566.10	565.66	566.13	566.24	566.93	567.36	567.19	567.07	567.03
22	567.09	566.48	566.09	566.05	565.69	566.27	566.15	566.92	567.47	567.11	567.02	567.59
23	566.19	566.39	565.99	565.71	565.51	566.24	566.21	566.84	567.29	567.25	567.14	567.14
24	567.03	565.86	566.04	566.13	566.45	565.84	566.41	566.67	567.17	567.13	567.01	567.24
25	566.41	566.03	566.30	565.87	565.82	566.54	566.30	566.68	567.29	567.25	567.14	567.36
26	566.16	565.75	566.18	565.66	565.51	566.94	566.45	566.65	567.14	567.21	567.02	566.85
27	566.07	565.81	565.90	567.27	565.54	565.96	566.44	566.61	567.06	567.10	566.73	567.10
28	566.69	566.69	565.77	566.51	566.46	565.69	566.09	566.64	566.96	566.91	566.75	567.56
29	566.44	565.95	566.27	566.21	566.02	565.91	565.82	566.49	567.02	566.90	566.93	567.65
30	566.24	566.16	565.91	566.31	---	565.84	566.47	566.74	567.23	567.09	566.78	567.15
31	565.89	---	565.70	565.97	---	565.84	---	566.78	---	567.24	566.78	---
MEAN	566.36	566.23	566.11	565.97	565.79	565.90	566.12	566.66	567.06	567.08	567.03	567.11
MAX	567.53	566.91	567.72	567.27	566.46	566.94	566.51	567.08	567.47	567.40	567.25	568.06
MIN	564.99	565.75	564.84	564.76	565.51	565.28	565.41	566.27	566.72	566.84	566.73	566.43

WTR YR 1996 MEAN 566.45 MAX 568.06 MIN 564.76

04216218 BLACK ROCK CANAL AT BLACK ROCK LOCK, BUFFALO, NY

LOCATION.--Lat 42°56'01", long 78°54'18", Erie County, Hydrologic Unit 04120104, at Black Rock Lock adjacent to U.S. Army Corps of Engineers installation at foot of Hamilton Street, Buffalo and 0.2 mi downstream from International railroad bridge.

DRAINAGE AREA.--263,700 mi^2.

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water stage recorder. Datum of gage is International Great Lakes Datum (IGLD) of 1985. Prior to Oct. 1, 1991, datum of gage was International Great Lakes Datum (IGLD) of 1955.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 579.93 ft, Dec. 2, 1985; minimum recorded, 567.28 ft, Oct. 5, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum recorded elevation, 576.13 ft, Dec. 9; minimum recorded, 567.28 ft, Oct. 5.

ELEVATION (FEET IGLD), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	571.51	571.04	572.22	570.70	571.08	571.43	571.53	572.17	572.29	573.01	573.32	572.38
2	571.64	571.51	571.19	569.95	571.18	571.38	571.55	571.94	572.35	573.08	573.24	572.40
3	570.90	572.45	571.50	570.11	570.99	572.24	571.07	571.94	572.40	573.41	573.18	572.37
4	571.45	572.11	571.47	571.15	571.00	571.30	570.63	571.94	572.51	573.38	573.11	572.33
5	569.65	571.91	571.51	571.13	571.20	571.04	571.59	571.91	572.74	573.29	573.05	572.24
6	571.99	571.48	573.27	570.86	570.88	570.77	571.46	571.85	572.53	573.14	573.03	571.97
7	572.24	571.42	571.94	570.06	570.92	571.15	571.75	571.81	572.70	573.11	573.01	571.88
8	571.98	571.94	571.09	571.35	570.96	571.49	571.59	571.89	572.69	573.05	572.98	573.09
9	571.54	571.47	572.84	571.62	571.02	571.38	571.59	572.00	572.46	573.27	572.76	572.56
10	571.56	571.46	573.61	571.12	570.88	571.24	571.68	572.18	572.60	573.41	572.76	572.63
11	571.60	572.16	572.45	570.77	571.53	571.23	571.62	572.23	572.70	573.28	572.68	572.63
12	571.71	572.06	571.38	570.94	571.10	571.25	571.26	572.58	572.81	573.12	572.78	572.81
13	571.55	571.45	570.81	571.20	570.99	571.24	571.37	572.56	572.95	573.09	572.83	572.83
14	572.26	571.10	571.34	570.98	570.97	571.30	571.65	572.37	572.92	573.06	572.62	573.55
15	573.17	572.33	571.35	570.61	570.99	571.32	571.23	572.24	572.95	573.19	572.77	573.30
16	572.41	571.74	571.39	570.76	571.03	571.15	572.07	572.31	572.97	573.30	572.84	572.50
17	571.55	571.41	571.08	570.90	571.05	571.04	572.01	572.25	573.02	573.15	572.72	572.02
18	571.77	571.45	570.38	570.66	571.07	571.28	571.46	572.33	572.99	573.15	572.66	572.58
19	571.23	571.32	569.80	572.70	570.86	570.54	571.55	572.39	573.11	573.32	572.54	572.54
20	571.75	571.74	571.30	571.14	570.91	570.56	571.58	572.44	573.10	573.31	572.69	572.56
21	571.82	572.05	571.52	571.01	570.96	571.67	571.65	572.42	572.90	573.37	572.66	572.50
22	572.60	571.84	571.44	571.03	571.00	571.85	571.63	572.46	572.99	573.14	572.66	572.90
23	571.40	571.83	571.41	570.92	570.82	571.78	571.71	572.40	573.17	573.20	572.74	572.55
24	572.65	571.33	571.53	571.48	572.01	571.38	571.83	572.29	573.21	573.13	572.63	572.79
25	571.67	571.64	571.76	571.10	571.22	572.31	571.80	572.26	573.18	573.11	572.73	572.90
26	571.49	571.28	571.47	570.87	570.95	572.40	572.13	572.28	573.14	573.25	572.66	572.26
27	571.44	571.22	571.33	573.10	570.94	571.38	571.95	572.23	573.04	573.29	572.28	572.68
28	572.20	572.07	571.27	571.41	572.08	571.07	571.76	572.27	572.95	573.11	572.29	---
29	571.75	571.20	571.77	571.68	571.51	571.43	571.35	572.14	573.05	573.13	572.53	573.11
30	571.55	571.52	571.37	571.52	---	571.34	572.37	572.39	572.97	573.21	572.36	572.54
31	571.14	---	571.04	571.20	---	571.37	---	572.43	---	573.30	572.44	---
MEAN	571.72	571.65	571.54	571.10	571.11	571.36	571.61	572.22	572.85	573.21	572.76	---
MAX	573.17	572.45	573.61	573.10	572.08	572.40	572.37	572.58	573.21	573.41	573.32	---
MIN	569.65	571.04	569.80	569.95	570.82	570.54	570.63	571.81	572.29	573.01	572.28	---

CAL YR 1995 MEAN 571.96 MAX 573.61 MIN 569.65

04216220 NIAGARA RIVER AT BLACK ROCK LOCK, BUFFALO, NY

LOCATION.--Lat. 42°56'02", long 78°54'17", Erie County, Hydrologic Unit 04120104, at Black Rock Lock adjacent to U.S. Army Corps of Engineers installation at foot of Hamilton Street, Buffalo and 0.2 mi downstream from International railroad bridge.

DRAINAGE AREA.--263,700 mi^2.

PERIOD OF RECORD.--October 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is International Great Lakes Datum (IGLD) of 1985. Prior to Oct. 1, 1991, datum of gage was International Great Lakes Datum (IGLD) of 1955.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 571.15 ft, Dec. 2, 1985; minimum recorded, 563.28 ft, Oct. 5, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum recorded elevation, 568.28 ft, Nov. 28 but may have been higher during periods of missing gage-height record; minimum recorded, 563.28 ft, Oct. 5.

ELEVATION (FEET IGLD), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	565.52	565.13	565.94	564.70	---	---	---	---	565.76	566.24	566.23	565.91
2	565.54	565.38	565.11	564.12	---	---	---	---	565.81	566.18	566.20	565.94
3	565.07	566.07	565.17	564.42	---	---	---	---	565.78	566.11	566.11	565.83
4	565.42	565.90	565.25	565.12	---	---	---	---	565.92	566.13	566.07	565.90
5	564.44	565.63	565.18	565.47	---	---	---	---	565.99	566.10	566.06	565.82
6	565.70	565.36	566.68	565.10	---	---	---	---	565.82	566.12	566.12	565.68
7	565.96	565.37	565.79	564.83	---	---	---	565.35	565.89	566.06	566.15	565.62
8	565.85	565.79	565.13	565.71	---	---	---	565.48	565.96	566.05	566.21	566.60
9	565.51	565.44	566.07	565.95	---	---	---	565.48	565.83	566.07	566.21	566.13
10	565.53	565.24	566.84	---	---	---	---	565.73	566.02	566.05	566.14	566.12
11	565.56	565.67	566.25	---	---	---	---	565.84	566.10	565.98	566.05	566.16
12	565.62	566.21	565.29	---	---	---	---	566.15	---	565.90	566.10	566.36
13	565.51	565.38	564.76	---	---	---	---	566.05	---	565.92	566.23	566.32
14	565.94	565.08	565.12	---	---	---	---	565.81	---	565.99	566.20	567.11
15	566.71	565.85	565.21	---	---	---	---	565.67	---	566.06	566.29	566.90
16	566.17	565.72	565.12	---	---	---	---	565.68	---	566.19	566.23	566.35
17	565.54	565.28	564.93	---	---	---	---	565.67	---	566.10	566.17	565.82
18	565.68	565.21	564.52	---	---	---	---	565.81	---	566.03	566.15	566.23
19	565.32	565.18	564.17	---	---	---	---	565.90	---	566.35	566.05	566.19
20	565.53	565.48	565.11	---	---	---	---	565.91	---	566.11	566.14	566.26
21	565.86	565.84	565.34	---	---	---	---	566.00	---	566.20	566.21	566.20
22	566.36	565.74	565.32	---	---	---	---	565.99	---	566.18	566.18	566.68
23	565.50	565.64	565.20	---	---	---	---	565.90	---	566.27	566.27	566.26
24	566.26	565.10	565.24	---	---	---	---	565.71	---	566.17	566.14	566.31
25	565.71	565.25	565.52	---	---	---	---	565.74	566.34	566.27	566.26	566.44
26	565.46	564.98	565.41	---	---	---	---	565.70	566.21	566.19	566.18	566.02
27	565.35	565.07	565.12	---	---	---	---	565.67	566.15	566.07	565.86	566.28
28	565.95	565.92	564.97	---	---	---	---	565.69	566.07	565.94	565.89	566.67
29	565.72	565.22	565.48	---	---	---	---	565.51	566.13	565.94	566.05	566.75
30	565.52	565.42	565.24	---	---	---	---	565.78	566.34	566.07	565.91	566.30
31	565.19	---	565.00	---	---	---	---	565.82	---	566.21	565.92	---
MEAN	565.65	565.48	565.34	---	---	---	---	---	---	566.10	566.13	566.24
MAX	566.71	566.21	566.84	---	---	---	---	---	---	566.35	566.29	567.11
MIN	564.44	564.98	564.17	---	---	---	---	---	---	565.90	565.86	565.62

04216418 TONAWANDA CREEK AT ATTICA, NY

LOCATION.--Lat 42°51'50", long 78°17'02", Wyoming County, Hydrologic Unit 04120104, on right bank behind Village Hall and fire station, 150 ft downstream from bridge on State Highway 238 (Main Street) at Attica, and 0.4 mi upstream from Tannery Creek.

DRAINAGE AREA.--76.9 mi^2.

PERIOD OF RECORD.--October 1977 to current year.

REVISED RECORDS.--WDR NY-79-1: 1978 (M). WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete weir. Datum of gage is 954.63 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, about 6,000 ft^3/s, June 23, 1972, gage height, about 12.0 ft, from information supplied by Village of Attica.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft^3/s and maximum(*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 19	0930	*3,150	*7.86	May 10	1945	2,550	7.26
Apr. 13	1945	3,040	7.75	May 21	1015	1,930	6.63
Apr. 23	1830	2,780	7.49				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	24	162	e54	95	e110	142	345	45	36	27	6.1
2	4.4	37	173	e44	e85	e90	115	251	41	29	22	5.8
3	5.5	48	132	e40	e75	e78	102	165	41	27	31	5.7
4	8.6	44	197	e48	e66	e82	114	194	45	33	21	5.9
5	15	37	114	e60	e59	e80	142	187	52	26	16	11
6	68	33	95	e64	e56	e80	148	182	42	21	14	9.2
7	28	44	75	e58	e53	e78	124	132	204	19	12	8.0
8	21	78	64	e57	e80	e76	115	110	227	21	13	13
9	18	49	54	e55	e160	e70	96	138	100	19	52	14
10	14	38	37	e52	e130	e66	97	817	73	18	29	11
11	12	80	e44	e50	e110	e64	103	991	87	17	18	9.5
12	11	283	e54	e48	e100	e60	260	1050	75	16	14	9.1
13	11	102	e70	e48	e90	e66	2130	362	59	14	12	37
14	15	80	e100	e48	e85	e140	953	226	49	14	11	40
15	57	103	298	e52	e80	453	380	166	42	27	10	30
16	43	106	205	54	e75	243	291	136	37	32	14	37
17	31	98	139	252	e70	158	240	123	33	19	13	52
18	22	100	115	1350	e65	154	223	106	36	16	11	301
19	18	153	94	1840	e60	197	172	93	108	29	9.5	62
20	16	156	88	576	e100	231	347	80	136	35	9.5	36
21	575	201	114	300	e600	184	248	683	74	20	9.0	27
22	166	152	115	223	e300	133	248	220	49	16	8.1	24
23	75	122	108	165	e220	115	1470	142	42	14	10	30
24	50	97	103	637	e160	102	864	133	46	13	24	22
25	38	80	95	320	e130	555	450	97	59	13	12	33
26	33	81	79	221	e120	452	247	81	40	18	9.2	31
27	29	118	79	334	e110	173	192	75	33	16	8.2	22
28	26	752	85	217	316	134	145	65	29	12	8.1	170
29	26	219	79	166	154	141	141	60	26	12	7.1	190
30	25	132	70	144	---	131	418	54	53	39	6.2	68
31	23	---	e60	115	---	134	---	50	---	43	6.1	---
TOTAL	1489.0	3647	3297	7692	3804	4830	10717	7514	1983	684	467.0	1320.3
MEAN	48.0	122	106	248	131	156	357	242	66.1	22.1	15.1	44.0
MAX	575	752	298	1840	600	555	2130	1050	227	43	52	301
MIN	4.4	24	37	40	53	60	96	50	26	12	6.1	5.7
CFSM	.62	1.58	1.38	3.23	1.71	2.03	4.65	3.15	.86	.29	.20	.57
IN.	.72	1.76	1.59	3.72	1.84	2.34	5.18	3.63	.96	.33	.23	.64

e Estimated

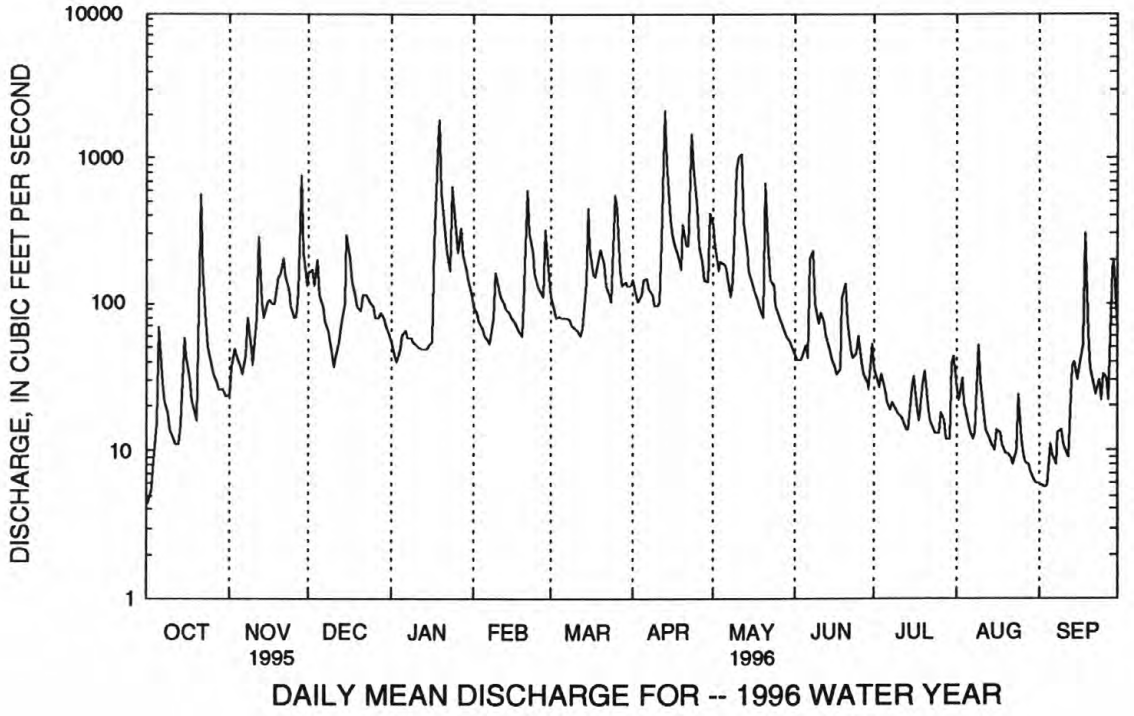
04216418 TONAWANDA CREEK AT ATTICA, NY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1996, BY WATER YEAR (WY)

MEAN	67.2	128	161	132	135	228	217	103	60.6	36.9	35.6	46.3
MAX	182	353	329	258	293	459	366	264	278	179	192	172
(WY)	1987	1986	1978	1979	1981	1979	1978	1984	1989	1992	1992	1992
MIN	10.8	16.6	34.5	41.5	34.4	122	73.1	36.4	18.8	10.1	7.28	6.19
(WY)	1992	1992	1990	1994	1980	1981	1995	1995	1991	1983	1991	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1978 - 1996	
ANNUAL TOTAL	27985.2		47444.3			
ANNUAL MEAN	76.7		130		112	
HIGHEST ANNUAL MEAN					157	1978
LOWEST ANNUAL MEAN					72.8	1995
HIGHEST DAILY MEAN	1150	Jan 20	2130	Apr 13	2630	Feb 24 1985
LOWEST DAILY MEAN	3.7	a	4.4	Oct 2	3.7	a
ANNUAL SEVEN-DAY MINIMUM	3.9	Aug 23	6.1	Aug 29	3.9	Aug 23 1995
INSTANTANEOUS PEAK FLOW			3150	Jan 19	4700	Dec 29 1984
INSTANTANEOUS PEAK STAGE			7.86	Jan 19	b12.40	Feb 18 1979
INSTANTANEOUS LOW FLOW			3.1	Oct 2	3.1	c
ANNUAL RUNOFF (CFSM)	1.00		1.69		1.46	
ANNUAL RUNOFF (INCHES)	13.54		22.95		19.87	
10 PERCENT EXCEEDS	162		249		250	
50 PERCENT EXCEEDS	43		69		60	
90 PERCENT EXCEEDS	6.1		13		14	

a Aug. 24-27, Sep. 6, 7, 1995.
b Ice jam.
c Aug. 26, Sep. 7, 1995.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04217000 TONAWANDA CREEK AT BATAVIA, NY

LOCATION.--Lat 42°59'51", long 78°11'20", Genesee County, Hydrologic Unit 04120104, on right bank 150 ft downstream from municipal dam, 500 ft upstream from bridge on Walnut Street in Batavia, and 5.0 mi downstream from Little Tonawanda Creek.

DRAINAGE AREA.--171 mi^2.

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

REVISED RECORDS.--WSP 1627: 1956-57. WSP 1912: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 876.33 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diversion upstream from station by city of Batavia for municipal supply; sewage, which may include water from municipal and industrial wells upstream from gage, enters creek downstream from gage. Telephone gage-height telemeter at station. Several measurements of water temperature were made during the year.

COOPERATION.--City of Batavia maintains records of diversion.

EXTREMES OUTSIDE PERIOD OF RECORD.--From records of city of Batavia, maximum stage, 14.5 ft, in March 1942.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 20	0530	*4,310	*10.33	May 12	1930	2,390	7.35
Apr. 14	1100	3,940	9.83	June 21	0330	1,920	6.38
Apr. 24	1430	3,050	8.53				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	47	320	90	e180	e260	295	831	97	133	63	12
2	8.0	52	422	89	e150	e220	273	722	89	87	46	13
3	7.7	86	296	74	e130	200	231	442	85	74	41	10
4	9.1	84	345	70	e110	164	246	363	89	76	47	9.1
5	14	73	295	e90	92	176	249	422	89	74	35	8.9
6	66	62	219	e90	89	173	365	374	91	61	30	15
7	86	59	160	e90	89	161	301	344	103	53	28	15
8	38	116	108	e90	110	150	288	270	414	51	28	17
9	28	114	127	e85	392	135	244	253	252	51	46	22
10	25	82	82	e85	365	128	217	471	207	49	74	e18
11	21	79	e80	85	363	122	227	1380	168	47	43	e16
12	20	405	e85	82	340	128	244	2130	189	43	32	e15
13	18	298	88	83	215	141	1250	1610	145	39	28	e22
14	19	183	89	81	e170	207	3550	811	110	38	27	61
15	42	188	250	e85	e150	731	1550	458	89	47	37	76
16	83	220	400	87	139	845	761	345	76	86	32	68
17	54	218	277	153	126	496	515	296	68	59	30	84
18	37	211	205	731	123	371	459	261	65	44	25	e300
19	29	247	161	2910	107	388	372	224	90	48	22	e240
20	25	331	116	3940	175	451	390	192	1050	77	20	e70
21	260	419	119	1960	1010	439	567	379	1440	57	18	e50
22	754	474	126	936	1430	340	378	906	469	42	15	e45
23	310	332	118	582	884	287	834	474	269	37	17	e60
24	152	257	111	617	757	249	2540	309	172	33	24	e52
25	104	196	109	985	656	354	1540	242	188	32	30	e65
26	79	182	104	841	412	1080	912	186	147	32	20	e60
27	66	179	95	571	322	842	558	164	105	34	16	e48
28	57	547	99	577	438	391	393	145	85	33	15	61
29	53	931	92	e400	487	334	322	131	77	29	14	457
30	52	551	85	e320	---	314	413	117	140	34	13	189
31	49	---	90	e220	---	291	---	107	---	80	13	---
TOTAL	2574.8	7223	5273	17099	10011	10568	20484	15359	6658	1680	929	2179.0
MEAN	83.1	241	170	552	345	341	683	495	222	54.2	30.0	72.6
MAX	754	931	422	3940	1430	1080	3550	2130	1440	133	74	457
MIN	7.7	47	80	70	89	122	217	107	65	29	13	8.9

e Estimated

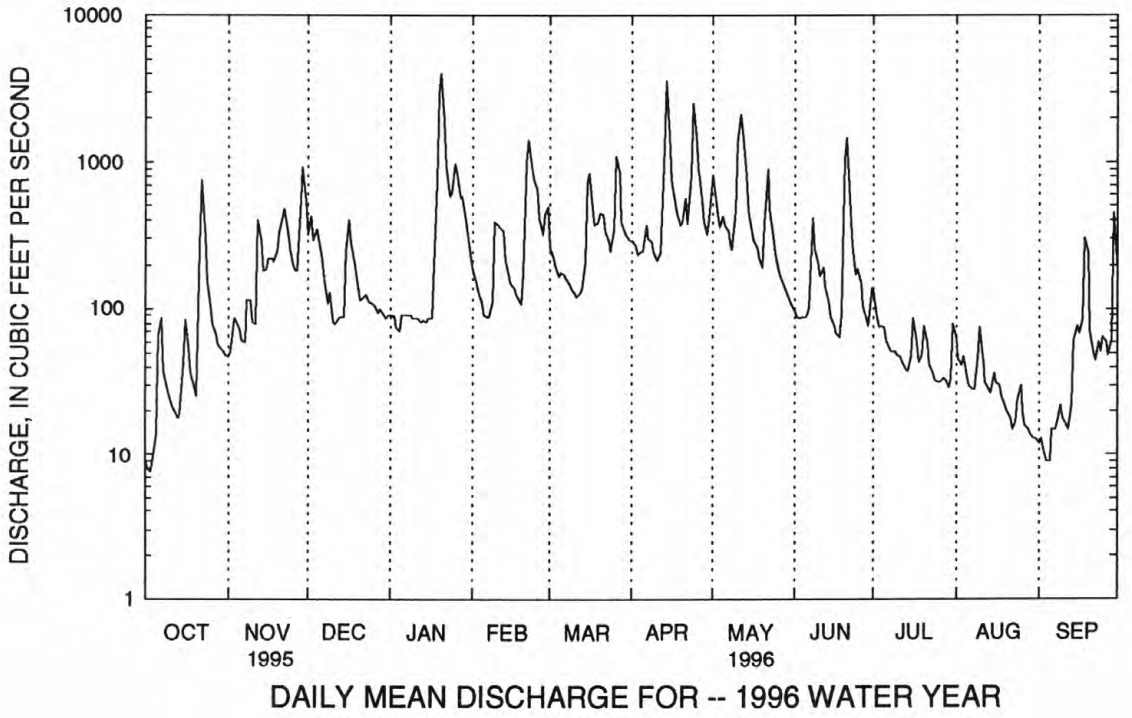
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

MEAN	80.2	171	263	256	305	540	462	204	106	52.7	49.2	63.6
MAX	344	653	718	552	903	1206	1100	544	722	247	451	873
(WY)	1946	1986	1978	1996	1976	1945	1947	1984	1989	1992	1977	1977
MIN	9.03	15.3	13.6	17.5	50.9	244	82.1	65.8	20.1	6.17	7.91	5.63
(WY)	1965	1961	1961	1961	1963	1965	1946	1995	1965	1955	1944	1955

04217000 TONAWANDA CREEK AT BATAVIA, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1944 - 1996	
ANNUAL TOTAL	52221.2		100037.8			
ANNUAL MEAN	143		273		212	
HIGHEST ANNUAL MEAN					311	1976
LOWEST ANNUAL MEAN					124	1965
HIGHEST DAILY MEAN	2340	Jan 21	3940	Jan 20	6660	Mar 31 1960
LOWEST DAILY MEAN	7.7	Sep 7	7.7	Oct 3	.60	Aug 2 1955
ANNUAL SEVEN-DAY MINIMUM	9.2	Sep 28	11	Aug 30	1.1	Jul 31 1955
INSTANTANEOUS PEAK FLOW			4310	Jan 20	7200	Mar 31 1960
INSTANTANEOUS PEAK STAGE			10.33	Jan 20	13.85	Apr 6 1947
INSTANTANEOUS LOW FLOW			7.4	a	.40	b
10 PERCENT EXCEEDS	324		592		505	
50 PERCENT EXCEEDS	79		122		96	
90 PERCENT EXCEEDS	13		25		14	

a Oct. 2, 3.
b Aug. 5-7, 1955.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04217750 MURDER CREEK NEAR AKRON, NY

LOCATION.--Lat 43°02'49", long 78°30'47", Erie County, Hydrologic Unit 04120104, on left bank at downstream side of bridge on State Highway 93, 2.0 mi northwest of Akron, and 5.7 mi upstream from mouth.

DRAINAGE AREA.--58.8 mi^2.

PERIOD OF RECORD.--Occasional low flow discharge measurements, water years 1964-65. November 1982 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 623.78 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 21	0400	*1,610	*5.80	Apr. 25	0400	920	4.84
Feb. 22	1230	695	4.44	May 12	1400	831	4.69
Apr. 14	2400	920	4.84				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.4	11	146	e20	e95	e80	67	140	33	37	18	5.8
2	e2.2	12	105	e19	e80	e70	61	155	32	35	17	6.8
3	e2.0	14	98	e19	e65	e62	58	118	34	29	15	7.6
4	e2.6	20	84	e19	e50	e54	58	88	77	26	13	7.9
5	e3.4	20	e66	e18	e38	e48	64	76	86	24	11	7.8
6	e24	16	e48	e18	e30	e44	74	75	61	22	9.7	7.9
7	e12	15	e36	e17	e28	e40	87	67	66	21	8.4	7.4
8	e11	15	e32	e17	e26	e46	80	61	111	20	8.9	9.5
9	e12	17	e28	e17	e50	e42	72	55	116	19	9.0	9.4
10	e9.5	23	78	e16	112	e46	62	90	94	19	7.2	8.5
11	e7.5	33	62	e16	159	e42	56	309	95	20	7.3	8.3
12	e6.5	86	22	e16	119	40	57	752	218	19	8.7	11
13	e6.0	129	27	e15	e90	42	286	675	207	17	7.9	12
14	e5.5	141	42	e15	e70	69	720	388	151	16	7.5	12
15	e6.0	95	43	e17	e55	209	754	200	98	20	7.2	12
16	e7.0	83	53	e34	e45	282	366	118	63	18	6.8	12
17	e12	87	106	45	e36	307	217	84	47	21	6.4	10
18	e22	86	118	233	e32	193	157	69	41	24	6.3	11
19	e11	96	87	1010	e30	133	125	59	62	22	6.8	13
20	e9.5	120	73	1360	61	125	113	53	151	22	6.6	17
21	e26	160	54	1280	286	137	122	140	279	25	6.8	11
22	110	187	39	516	623	129	142	193	197	21	6.7	9.1
23	159	217	34	235	474	108	353	204	194	17	6.8	8.1
24	108	170	e29	255	292	93	818	136	141	15	5.7	7.8
25	44	113	e27	344	218	104	794	91	92	15	5.6	8.4
26	27	79	e25	410	184	172	421	65	66	15	6.4	8.2
27	19	67	e24	282	125	274	241	53	52	14	6.6	9.7
28	16	96	e23	e200	e110	162	155	47	41	13	6.5	26
29	14	155	e21	e160	e96	107	112	43	35	14	6.4	56
30	12	227	e20	e130	---	88	106	39	37	20	6.2	85
31	11	---	e20	e110	---	76	---	36	---	23	5.6	---
TOTAL	720.1	2590	1670	6863	3679	3424	6798	4679	2977	643	258.0	426.2
MEAN	23.2	86.3	53.9	221	127	110	227	151	99.2	20.7	8.32	14.2
MAX	159	227	146	1360	623	307	818	752	279	37	18	85
MIN	2.0	11	20	15	26	40	56	36	32	13	5.6	5.8
CFSM	.40	1.47	.92	3.77	2.16	1.88	3.85	2.57	1.69	.35	.14	.24
IN.	.46	1.64	1.06	4.34	2.33	2.17	4.30	2.96	1.88	.41	.16	.27

e Estimated

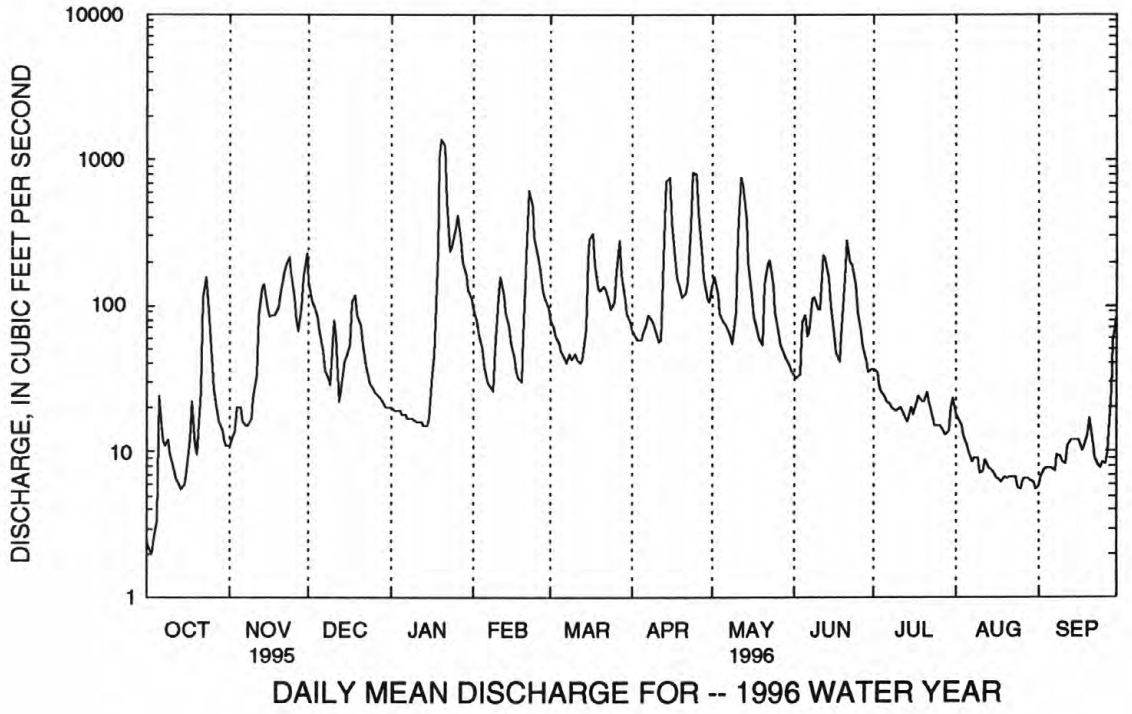
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1996, BY WATER YEAR (WY)

MEAN	24.2	72.9	105	96.8	109	138	142	73.3	41.2	15.0	14.5	15.8
MAX	87.3	183	222	221	243	214	227	157	183	58.8	96.2	109
(WY)	1987	1986	1984	1996	1985	1991	1996	1989	1989	1992	1992	1992
MIN	5.33	6.63	15.0	30.5	29.0	88.6	44.9	22.5	7.27	4.54	2.18	2.88
(WY)	1992	1992	1990	1994	1987	1983	1995	1985	1995	1983	1991	1991

04217750 MURDER CREEK NEAR AKRON, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1983 - 1996	
ANNUAL TOTAL	19989.9		34727.3			
ANNUAL MEAN	54.8		94.9		71.3	
HIGHEST ANNUAL MEAN					94.9	1996
LOWEST ANNUAL MEAN					54.9	1995
HIGHEST DAILY MEAN	898	Jan 22	1360	Jan 20	2710	Feb 25 1985
LOWEST DAILY MEAN	1.4	Aug 20	e2.0	Oct 3	.86	Aug 24 1991
ANNUAL SEVEN-DAY MINIMUM	2.0	Aug 16	6.2	Aug 25	1.4	Aug 23 1991
INSTANTANEOUS PEAK FLOW			1610	Jan 21	3000	Feb 25 1985
INSTANTANEOUS PEAK STAGE			5.80	Jan 21	7.16	Feb 25 1985
INSTANTANEOUS LOW FLOW			Unknown		.53	Aug 24 1991
ANNUAL RUNOFF (CFSM)	.93		1.61		1.21	
ANNUAL RUNOFF (INCHES)	12.65		21.97		16.47	
10 PERCENT EXCEEDS	127		211		172	
50 PERCENT EXCEEDS	22		43		35	
90 PERCENT EXCEEDS	3.3		7.8		4.6	

e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04218000 TONAWANDA CREEK AT RAPIDS, NY

LOCATION.--Lat 43°05'35", long 78°38'11", Niagara County, Hydrologic Unit 04120104, on right bank at downstream side of bridge on Rapids Road at Rapids, 4.6 mi east of Pendleton, 4.9 mi downstream from Beeman Creek, and 5.9 mi upstream from Mud Creek.

DRAINAGE AREA.--349 mi^2, includes 0.76 mi^2 in Mud Creek from which flow is diverted into Black Creek.

PERIOD OF RECORD.--August 1955 to September 1965, March 1978 to September 1979 (seasonal gage-height records only), October 1979 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 571.19 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 20	0130	3,150	10.00	Apr. 26	0400	3,990	11.75
Jan. 22	1730	*5,080	*13.86	May 14	0400	3,400	10.53
Feb. 24	0430	3,010	9.70	June 22	1800	2,410	8.25
Apr. 16	0600	4,360	12.48				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	95	1130	e180	e630	e480	519	792	207	281	143	24
2	16	97	689	e180	e420	e420	499	1120	188	276	163	22
3	15	108	635	e175	e310	e390	463	1110	179	214	119	23
4	18	115	566	e175	e250	e360	431	794	211	180	90	24
5	25	134	528	e170	e210	e350	452	620	293	165	78	25
6	52	125	510	e165	e190	e330	515	623	271	156	74	23
7	93	113	354	e165	e170	e320	591	588	250	141	63	23
8	137	109	e370	e160	e150	e310	565	548	340	122	57	25
9	104	122	e240	e160	e600	e300	520	457	605	110	61	37
10	69	170	e230	e160	793	e290	450	490	601	108	61	42
11	52	201	e280	e155	1040	e290	393	1110	712	112	75	41
12	44	359	414	e150	896	e280	388	2280	894	103	85	41
13	39	536	e300	e150	e710	280	1030	3140	903	94	67	45
14	39	606	e240	e150	e550	389	2370	3240	655	87	55	59
15	42	477	e230	e190	e440	954	3630	2090	484	85	48	82
16	51	432	394	221	e340	1340	4120	1020	357	100	48	106
17	86	452	687	313	e310	1520	2470	650	276	129	60	85
18	104	460	664	1010	e290	1150	1270	549	232	129	59	83
19	85	504	534	2590	e280	790	895	478	224	115	50	222
20	67	586	392	3180	e270	743	767	409	760	108	46	318
21	114	790	293	4120	e900	911	928	734	1590	107	41	153
22	348	911	e250	4970	1790	879	1010	1170	2310	114	39	100
23	797	963	e240	4150	2520	716	1510	1340	1790	91	38	83
24	609	790	e240	2300	2740	616	2680	1060	828	76	37	83
25	313	586	e220	1890	1800	599	3490	668	531	67	34	77
26	198	447	e210	1820	1290	784	3760	513	434	61	33	78
27	151	380	e200	1880	878	1400	2440	396	355	58	41	74
28	126	458	e190	1450	752	1490	1350	331	274	56	40	114
29	113	760	e190	1150	e550	825	855	287	223	56	34	300
30	103	1200	e180	1010	---	610	694	252	216	64	29	486
31	98	---	e180	853	---	564	---	225	---	88	26	---
TOTAL	4125	13086	11780	35392	22069	20680	41055	29084	17193	3653	1894	2898
MEAN	133	436	380	1142	761	667	1368	938	573	118	61.1	96.6
MAX	797	1200	1130	4970	2740	1520	4120	3240	2310	281	163	486
MIN	15	95	180	150	150	280	388	225	179	56	26	22
CFSM	.38	1.25	1.09	3.27	2.18	1.91	3.92	2.69	1.64	.34	.18	.28
IN.	.44	1.39	1.26	3.77	2.35	2.20	4.38	3.10	1.83	.39	.20	.31

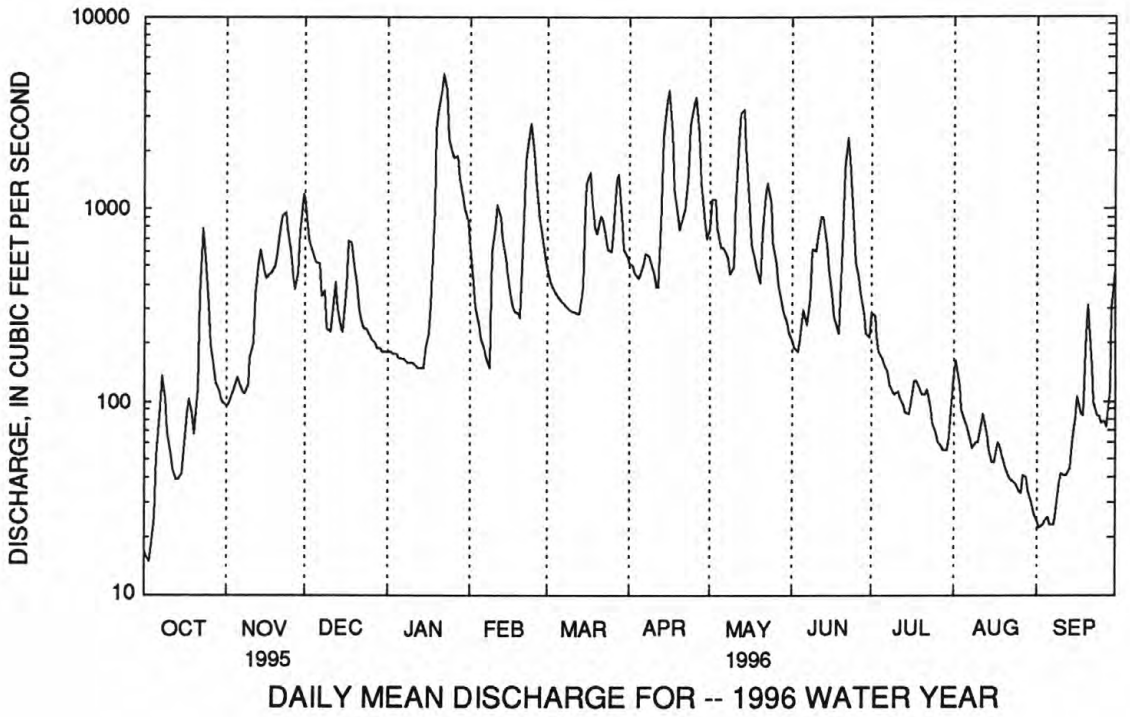
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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1996, BY WATER YEAR (WY)

MEAN	139	314	487	503	615	952	941	407	212	92.8	88.3	96.4
MAX	642	1239	1116	1142	1363	1650	1533	1046	1372	463	601	613
(WY)	1987	1986	1987	1996	1981	1956	1960	1956	1989	1992	1992	1992
MIN	14.8	25.7	23.3	29.4	103	452	334	144	45.6	26.1	15.9	10.0
(WY)	1965	1961	1961	1961	1963	1981	1995	1993	1965	1991	1991	1991

04218000 TONAWANDA CREEK AT RAPIDS, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1955 - 1996	
ANNUAL TOTAL	112474		202909			
ANNUAL MEAN	308		554		403	
HIGHEST ANNUAL MEAN					556	1956
LOWEST ANNUAL MEAN					255	1965
HIGHEST DAILY MEAN	3740	Jan 23	4970	Jan 22	6130	Apr 1 1960
LOWEST DAILY MEAN	15	Oct 3	15	Oct 3	4.8	Jul 28 1983
ANNUAL SEVEN-DAY MINIMUM	18	Sep 28	23	Sep 1	6.8	Sep 1 1991
INSTANTANEOUS PEAK FLOW			5080	Jan 22	6280	Apr 1 1960
INSTANTANEOUS PEAK STAGE			13.86	Jan 22	16.96	Apr 1 1960
INSTANTANEOUS LOW FLOW			14	Oct 3	4.5	Jul 28 1983
ANNUAL RUNOFF (CFSM)	.88		1.59		1.15	
ANNUAL RUNOFF (INCHES)	11.99		21.63		15.68	
10 PERCENT EXCEEDS	688		1300		1040	
50 PERCENT EXCEEDS	170		290		190	
90 PERCENT EXCEEDS	24		49		29	



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04218518 ELLICOTT CREEK BELOW WILLIAMSVILLE, NY

LOCATION.--Lat 42°58'40", long 78°45'50", Erie County, Hydrologic Unit 04120104, on right bank 15 ft upstream from bridge on State Highway 324 (Sheridan Drive), 0.8 mi upstream from sewage treatment plant, 1.4 mi northwest of Williamsville, and 10.8 mi upstream from mouth.

DRAINAGE AREA.--81.6 mi^2.

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

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 586.41 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Regulation by seasonal manipulation of dam at Island Park 2.4 mi upstream by Village of Williamsville and by intermittent pumping from stone quarries 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. Telephone gage-height telemeter at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 19	1615	*2,550	*9.04	Apr. 24	1845	1,780	7.26
Feb. 22	0430	1,200	5.82	May 12	0115	1,370	6.26
Apr. 14	1515	1,670	7.01				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	42	143	e60	e90	151	121	277	72	110	177	19
2	13	57	157	e58	e74	e120	113	233	69	84	110	20
3	12	88	141	e80	e62	e98	106	174	85	72	74	19
4	28	83	119	e90	e56	e90	121	138	140	66	63	20
5	74	61	e110	e100	e52	e86	141	132	230	63	56	20
6	159	50	e76	e94	e50	e80	180	132	146	60	44	20
7	99	54	e58	e88	e60	e90	170	122	159	57	35	31
8	70	66	e50	e80	143	e96	145	106	375	55	54	62
9	58	88	e58	e78	265	e90	128	105	318	72	64	46
10	31	68	e56	e76	340	e86	108	283	215	63	55	45
11	26	239	e54	e74	260	e80	101	1000	219	60	49	38
12	29	417	e52	e72	217	e78	126	1240	372	51	42	45
13	27	456	e50	e70	e140	90	775	833	430	44	37	71
14	52	201	e90	e70	e110	155	1570	277	204	39	32	145
15	74	220	148	e68	e96	570	741	184	131	56	31	277
16	145	251	304	e110	e86	553	320	141	100	49	41	187
17	80	238	285	264	e80	310	246	138	80	53	30	142
18	48	225	205	651	e76	196	200	127	82	46	30	103
19	36	270	158	2180	110	172	153	114	83	76	30	135
20	37	357	e110	2130	158	208	194	103	141	68	28	78
21	229	479	e90	701	715	271	277	279	170	56	27	49
22	585	511	e86	285	943	230	255	505	123	44	26	51
23	240	350	e82	223	382	183	939	238	107	39	25	48
24	96	196	e76	434	320	162	1620	148	105	36	26	50
25	77	147	e72	813	261	195	900	135	105	34	31	51
26	63	114	e70	403	185	560	379	113	133	54	29	48
27	52	134	e70	327	149	338	243	101	92	55	26	77
28	47	255	e68	277	203	166	178	93	77	41	25	310
29	45	434	e76	192	279	148	149	87	84	37	24	668
30	47	206	e68	e140	---	141	185	84	101	58	23	384
31	44	---	e62	e110	---	130	---	78	---	134	21	---
TOTAL	2636	6357	3244	10398	5962	5923	10884	7720	4748	1832	1365	3259
MEAN	85.0	212	105	335	206	191	363	249	158	59.1	44.0	109
MAX	585	511	304	2180	943	570	1620	1240	430	134	177	668
MIN	12	42	50	58	50	78	101	78	69	34	21	19
CFSM	1.04	2.60	1.28	4.11	2.52	2.34	4.45	3.05	1.94	.72	.54	1.33
IN.	1.20	2.90	1.48	4.74	2.72	2.70	4.96	3.52	2.16	.84	.62	1.49

e Estimated

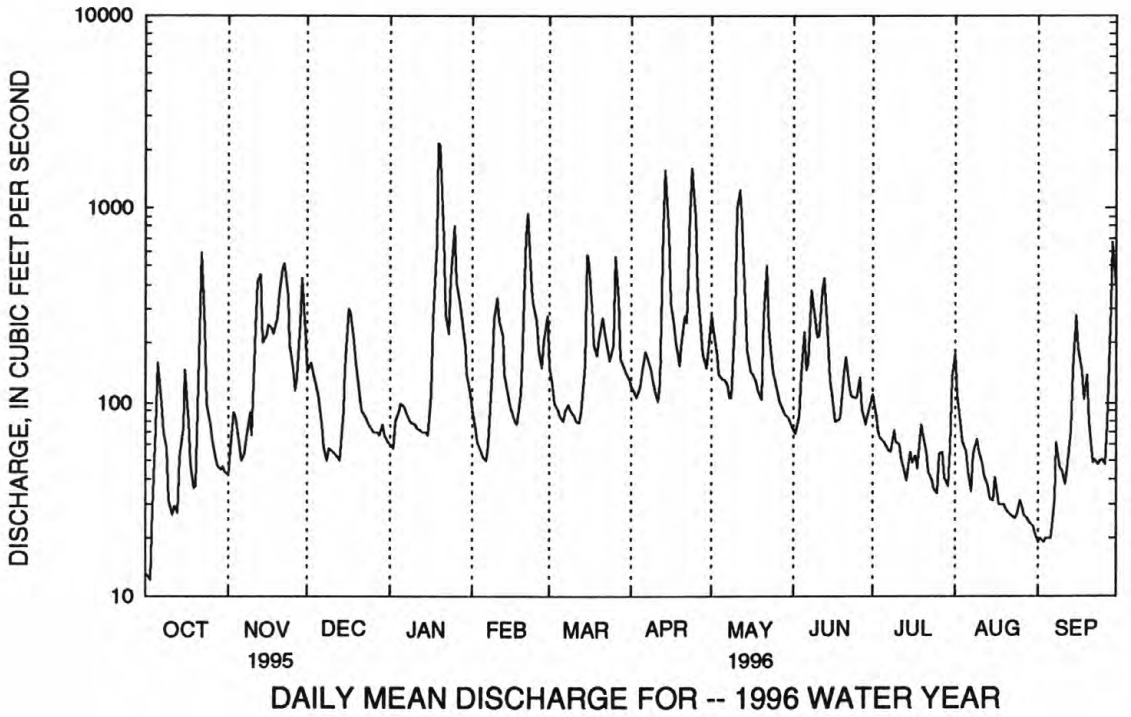
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1996, BY WATER YEAR (WY)

MEAN	68.1	143	202	158	176	275	215	114	76.6	42.1	55.5	70.2
MAX	175	342	441	335	377	519	363	258	275	144	397	425
(WY)	1987	1986	1978	1996	1990	1977	1996	1989	1989	1976	1977	1977
MIN	11.2	27.1	40.6	39.2	56.0	119	94.8	47.5	24.2	11.8	13.5	9.76
(WY)	1975	1979	1990	1977	1980	1981	1995	1977	1988	1978	1974	1973

04218518 ELLICOTT CREEK BELOW WILLIAMSVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1973 - 1996	
ANNUAL TOTAL	38696.0		64328			
ANNUAL MEAN	106		176		133	
HIGHEST ANNUAL MEAN					177	1977
LOWEST ANNUAL MEAN					97.7	1995
HIGHEST DAILY MEAN	1350	Mar 8	2180	Jan 19	3280	Feb 25 1985
LOWEST DAILY MEAN	9.0	Sep 19	12	Oct 3	2.7	Aug 15 1978
ANNUAL SEVEN-DAY MINIMUM	12	Sep 16	20	Aug 31	3.6	Jul 15 1978
INSTANTANEOUS PEAK FLOW			2550	Jan 19	3640	Feb 25 1985
INSTANTANEOUS PEAK STAGE			9.04	Jan 19	11.19	Feb 25 1985
INSTANTANEOUS LOW FLOW			3.7	Oct 10	a.00	Jul 27 1976
ANNUAL RUNOFF (CFSM)	1.30		2.15		1.63	
ANNUAL RUNOFF (INCHES)	17.64		29.33		22.10	
10 PERCENT EXCEEDS	228		352		300	
50 PERCENT EXCEEDS	62		98		72	
90 PERCENT EXCEEDS	14		37		17	

a Result of pipeline construction.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04219000 ERIE (BARGE) CANAL AT LOCK 30, MACEDON, NY

LOCATION.--Lat 43°04'20", long 77°17'45", Wayne County, Hydrologic Unit 04140201, on left bank in Macedon, 500 ft downstream from headgate in old Erie Canal, 700 ft downstream from bridge on State Highway 350, 0.2 mi downstream from Lock 30, and 2.6 mi upstream from Ganargua Creek.

PERIOD OF RECORD.--November 1919 to December 1920, October 1950 to September 1977, October 1977 to current year (navigation seasons only). Prior to October 1956, published as "Barge Canal at Lock 30, Macedon."

REVISED RECORDS.--WSP 1237: 1951

GAGE.--Water-stage recorder. Datum of gage is 447.58 ft above sea level. Nov. 1, 1919 to Dec. 28, 1920, nonrecording gage at same site at different datum.

REMARKS.--No estimated daily values. Records good. This record represents net diversion from Niagara River basin into Oswego River basin through Erie (Barge) Canal. During the non-navigation period, when the pool upstream from Lock 30 is drained, discharge consists of leakage through guard gates, runoff from small areas tributary to canal upstream from station, or diversion for use downstream in the Canal system.

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.

AVERAGE DISCHARGE.--27 years (water years 1951-77), 200 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 874 ft^3/s, Dec. 3, 1969; no significant flow at times in many years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	234	---	---	---	---	---	31	215	281	223	253
2	240	232	---	---	---	---	---	33	228	284	229	265
3	234	222	---	---	---	---	---	40	204	288	226	247
4	230	215	---	---	---	---	---	82	206	276	238	247
5	257	208	---	---	---	---	---	104	240	284	234	245
6	273	191	---	---	---	---	---	150	233	278	231	231
7	265	199	---	---	---	---	---	170	224	275	233	228
8	268	184	---	---	---	---	---	168	241	276	228	228
9	267	159	---	---	---	---	---	169	254	269	233	227
10	274	133	---	---	---	---	---	171	256	264	219	235
11	275	107	---	---	---	---	---	185	267	273	231	234
12	270	85	---	---	---	---	---	231	264	267	223	235
13	268	61	---	---	---	---	---	239	277	276	227	249
14	262	17	---	---	---	---	---	234	280	280	233	269
15	257	---	---	---	---	---	---	210	275	270	242	242
16	258	---	---	---	---	---	---	169	256	265	238	231
17	254	---	---	---	---	---	---	152	212	268	239	225
18	252	---	---	---	---	---	---	152	233	279	247	233
19	262	---	---	---	---	---	---	161	256	269	239	234
20	260	---	---	---	---	---	---	181	266	274	243	235
21	274	---	---	---	---	---	---	187	289	284	243	250
22	289	---	---	---	---	---	---	191	280	260	242	231
23	271	---	---	---	---	---	---	191	211	237	234	239
24	253	---	---	---	---	---	---	193	193	237	234	237
25	236	---	---	---	---	---	---	190	210	234	248	236
26	236	---	---	---	---	---	---	206	203	240	230	231
27	223	---	---	---	---	---	---	196	213	230	226	228
28	230	---	---	---	---	---	---	196	209	232	235	224
29	223	---	---	---	---	---	---	191	212	232	244	229
30	223	---	---	---	---	---	67	194	232	226	250	230
31	226	---	---	---	---	---	---	204	---	241	262	---
TOTAL	7864	---	---	---	---	---	---	5171	7139	8149	7304	7128
MEAN	254	---	---	---	---	---	---	167	238	263	236	238
MAX	289	---	---	---	---	---	---	239	289	288	262	269
MIN	223	---	---	---	---	---	---	31	193	226	219	224

0422026250 NORTHRUP CREEK AT NORTH GREECE, NY

LOCATION.--Lat 43°15'13", long 77°43'33", Monroe County, Hydrologic Unit 04130001, on right bank 75 ft downstream from bridge on State Highway 18 (Latta Road), 0.5 mi west of North Greece and 5.1 mi upstream from mouth.

DRAINAGE AREA.--11.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 306 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Unpublished water-quality records for prior years are available in files of Monroe County Department of Health.

COOPERATION.--Gage-height record and discharge measurements were provided by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 758 ft^3/s, May 17, 1974, from rating curve extended above 15 ft^3/s on basis of contracted-opening measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	5.8	15	e6.0	e15	e14	11	23	11	13	11	5.4
2	3.4	9.6	15	e5.6	e13	e12	10	17	11	9.3	8.6	5.4
3	4.5	7.3	11	e5.3	e12	e11	10	14	11	8.0	7.8	5.1
4	5.8	6.2	11	e4.8	e11	e10	11	14	10	7.7	7.2	5.6
5	6.3	6.0	9.7	e4.2	e10	e10	11	14	10	6.7	6.9	6.4
6	19	6.0	e9.0	e5.0	e11	e9.5	11	13	9.3	6.4	6.4	7.0
7	5.9	7.6	e7.5	e5.6	e16	e9.5	11	12	12	6.2	6.7	9.6
8	4.8	8.2	e6.5	e6.5	e34	e9.0	11	11	11	6.1	21	8.2
9	4.6	8.0	e6.0	e7.0	e32	e8.5	10	11	12	6.1	17	7.4
10	4.5	13	e5.8	e8.0	e30	e8.0	9.2	39	12	6.0	9.2	7.2
11	4.6	14	e5.6	e7.5	e36	e7.5	8.5	89	9.6	5.8	7.6	7.2
12	4.7	19	e5.2	e8.5	e24	e10	9.9	146	19	5.5	7.0	7.4
13	4.8	13	e6.0	e7.5	e17	e18	104	54	24	5.8	6.8	19
14	7.1	17	e10	e6.5	e13	e44	86	22	13	5.7	6.4	13
15	8.4	34	e34	e7.0	e10	49	28	16	10	11	6.5	11
16	5.7	26	e30	e10	e9.0	25	21	14	8.6	7.9	7.7	9.6
17	5.0	20	e18	e70	e8.5	18	18	13	8.2	6.7	6.8	11
18	5.0	18	e14	e170	e9.0	16	15	13	7.9	6.4	6.5	18
19	4.9	24	e11	319	e11	15	13	12	36	8.3	6.2	11
20	5.1	24	e9.0	89	e60	28	17	13	36	6.7	5.6	9.5
21	71	31	e11	68	e150	40	16	168	17	6.1	6.0	8.8
22	17	25	e9.0	45	38	24	30	32	84	6.0	6.0	11
23	7.9	18	e8.5	23	26	20	124	21	27	5.3	5.9	11
24	6.3	14	e8.0	78	31	18	81	23	14	5.7	5.9	9.8
25	5.9	12	e7.5	45	23	26	28	16	13	5.3	5.6	11
26	5.6	12	e7.2	34	18	22	21	14	9.1	5.8	6.1	9.9
27	5.5	12	e7.0	38	16	15	16	13	7.8	5.7	5.9	9.6
28	5.7	20	e7.0	e30	24	13	13	12	7.2	5.5	5.7	16
29	5.9	15	e6.8	e25	e17	13	12	11	7.5	5.5	5.2	16
30	6.0	11	e6.5	e20	---	12	24	11	36	21	5.5	11
31	5.7	---	e6.5	e17	---	11	---	11	---	27	5.4	---
TOTAL	260.8	456.7	324.3	1176.0	724.5	546.0	790.6	892	504.2	244.2	232.1	298.1
MEAN	8.41	15.2	10.5	37.9	25.0	17.6	26.4	28.8	16.8	7.88	7.49	9.94
MAX	71	34	34	319	150	49	124	168	84	27	21	19
MIN	3.4	5.8	5.2	4.2	8.5	7.5	8.5	11	7.2	5.3	5.2	5.1
CFSM	.72	1.30	.89	3.24	2.14	1.51	2.25	2.46	1.44	.67	.64	.85
IN.	.83	1.45	1.03	3.74	2.30	1.74	2.51	2.84	1.60	.78	.74	.95

e Estimated

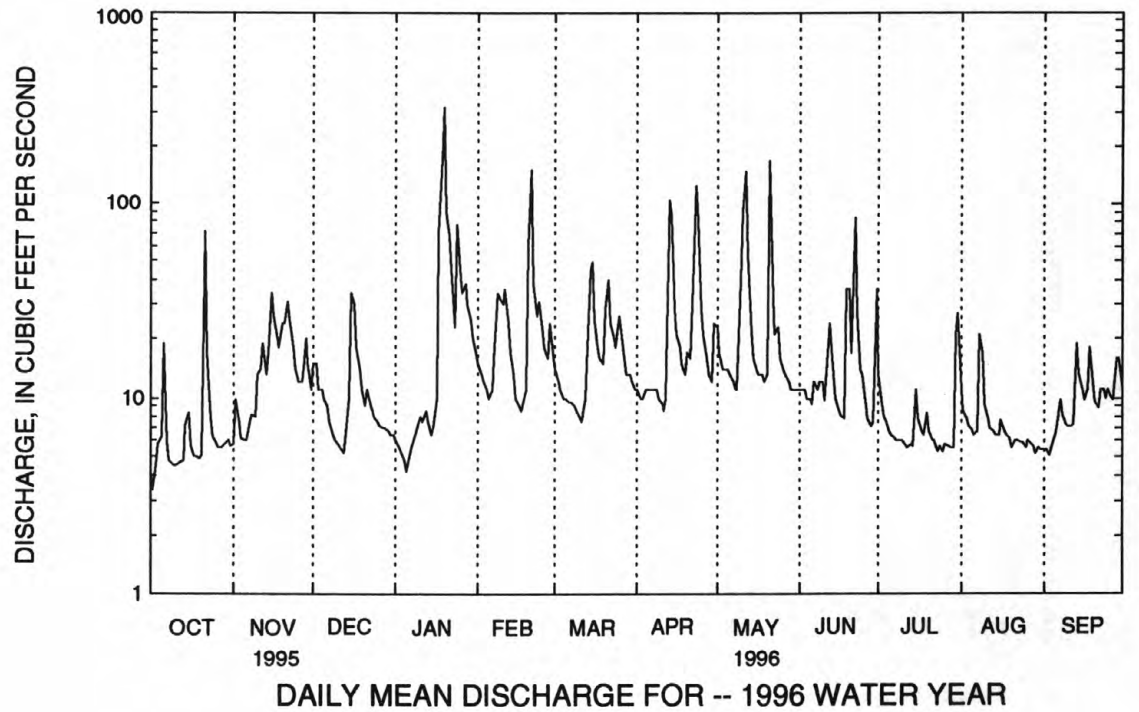
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1996, BY WATER YEAR (WY)

MEAN	6.33	11.1	12.1	19.0	19.9	26.2	25.1	14.1	6.02	4.20	4.19	4.31
MAX	14.7	18.8	23.1	37.9	38.9	40.7	31.7	28.8	16.8	7.88	7.49	9.94
(WY)	1990	1993	1991	1996	1990	1993	1991	1996	1996	1996	1996	1996
MIN	1.83	2.49	3.65	7.52	7.82	15.7	5.27	4.77	3.06	1.96	1.60	1.92
(WY)	1995	1992	1992	1994	1993	1995	1995	1993	1991	1993	1993	1994

0422026250 NORTHRUP CREEK AT NORTH GREECE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1989 - 1996	
ANNUAL TOTAL	3063.4		6449.5			
ANNUAL MEAN	8.39		17.6		12.7	
HIGHEST ANNUAL MEAN					17.6	1996
LOWEST ANNUAL MEAN					7.33	1995
HIGHEST DAILY MEAN	98	Jan 20	319	Jan 19	420	Apr 22 1991
LOWEST DAILY MEAN	2.2	Jun 15	3.4	Oct 2	1.1	Aug 19 1993
ANNUAL SEVEN-DAY MINIMUM	3.0	Jun 10	4.8	Oct 7	1.4	Aug 22 1993
INSTANTANEOUS PEAK FLOW			432	Jan 19	573	Apr 22 1991
INSTANTANEOUS PEAK STAGE			a3.88	Feb 21	3.89	Apr 22 1991
INSTANTANEOUS LOW FLOW			1.9	Oct 2	.39	Aug 19 1993
ANNUAL RUNOFF (CFSM)	.72		1.51		1.08	
ANNUAL RUNOFF (INCHES)	9.74		20.51		14.72	
10 PERCENT EXCEEDS	15		31		24	
50 PERCENT EXCEEDS	5.2		11		6.7	
90 PERCENT EXCEEDS	3.5		5.6		2.2	

a Ice jam.



0422026250 NORTHRUP CREEK AT NORTH GREECE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1989 to current year.
CHEMICAL DATA: 1989-96 (e).
NUTRIENT DATA: 1989-96 (e).
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1994 to current year.
INSTRUMENTATION.--Water-quality monitor since October 1989. Water temperature recorder since November 1994 provides 15-minute-interval readings.
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 27.0°C, July 15, 1995; minimum, 0.0°C, on many days during winter period.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 24.5°C, June 30 and Aug. 7 and 8; minimum, 0.0°C, on many days during winter period.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	14.0	15.0	9.0	7.5	8.0	3.5	1.0	2.5	.0	.0	.0
2	17.0	15.5	16.0	13.0	9.0	11.5	3.0	1.0	2.0	.0	.0	.0
3	16.0	14.5	15.0	13.0	8.5	11.5	3.5	1.0	2.0	.0	.0	.0
4	15.0	14.5	14.5	8.5	5.0	6.5	3.5	2.0	3.0	.0	.0	.0
5	14.5	14.5	14.5	5.0	3.5	4.5	2.5	1.0	2.0	.0	.0	.0
6	16.0	14.5	15.5	5.5	3.5	4.5	2.5	.0	1.0	.0	.0	.0
7	16.5	15.5	16.0	6.0	4.5	5.0	.0	.0	.0	.0	.0	.0
8	15.5	13.5	14.5	5.5	3.5	5.0	.0	.0	.0	.0	.0	.0
9	13.5	12.5	13.0	3.5	2.0	2.5	.0	.0	.0	.0	.0	.0
10	14.0	11.5	12.5	5.5	3.0	4.0	.0	.0	.0	.0	.0	.0
11	15.0	13.0	14.0	9.0	5.5	7.0	.0	.0	.0	.0	.0	.0
12	16.5	13.5	15.0	7.5	3.0	5.0	.0	.0	.0	.0	.0	.0
13	17.0	15.0	16.0	3.5	3.0	3.0	.0	.0	.0	.0	.0	.0
14	16.0	15.0	15.5	4.5	3.5	4.0	.0	.0	.0	.0	.0	.0
15	15.0	11.0	13.0	4.0	1.0	2.0	.0	.0	.0	.0	.0	.0
16	11.0	9.0	10.0	3.0	1.5	2.0	.0	.0	.0	.0	.0	.0
17	10.0	8.0	9.0	3.0	2.0	2.5	.0	.0	.0	.0	.0	.0
18	12.5	10.0	11.0	3.0	2.5	3.0	.0	.0	.0	2.0	.0	.0
19	12.0	10.5	11.5	3.5	3.0	3.5	.0	.0	.0	4.5	.0	2.0
20	14.5	11.5	13.0	4.5	3.5	4.0	.0	.0	.0	.0	.0	.0
21	14.0	10.5	11.5	4.5	3.5	4.0	.0	.0	.0	.0	.0	.0
22	10.5	9.5	10.0	4.0	3.0	3.0	.0	.0	.0	1.5	.0	.5
23	12.0	9.0	10.5	3.0	2.5	2.5	.0	.0	.0	1.5	1.5	1.5
24	13.0	11.0	12.0	2.5	1.5	2.0	.0	.0	.0	1.5	.5	1.5
25	11.5	9.5	10.5	2.0	.5	1.0	.0	.0	.0	.5	.0	.0
26	10.5	8.0	9.5	2.5	2.0	2.5	.0	.0	.0	1.0	.0	.0
27	12.0	10.5	11.0	4.0	2.5	3.0	.0	.0	.0	2.5	.0	1.0
28	12.0	10.5	11.5	4.5	2.5	3.5	.0	.0	.0	.0	.0	.0
29	10.5	8.0	9.0	2.5	1.0	2.0	.0	.0	.0	.0	.0	.0
30	8.0	7.0	7.5	2.0	.5	1.5	.0	.0	.0	.0	.0	.0
31	7.5	7.0	7.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	17.0	7.0	12.4	13.0	.5	4.1	3.5	.0	.4	4.5	.0	.2

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	.5	.0	.0	7.0	4.5	6.0	12.0	7.5	10.0
2	.0	.0	.0	1.5	.0	.5	8.0	3.0	5.5	14.5	8.5	11.5
3	.0	.0	.0	.5	.0	.0	6.0	4.0	5.0	12.5	10.0	11.5
4	.0	.0	.0	.0	.0	.0	4.0	2.5	3.0	10.5	9.5	10.0
5	.0	.0	.0	.0	.0	.0	8.0	2.0	4.5	12.5	9.0	11.0
6	.0	.0	.0	.0	.0	.0	7.0	3.5	5.5	15.0	10.0	12.0
7	.0	.0	.0	.0	.0	.0	5.5	4.0	4.5	14.5	9.0	12.0
8	.0	.0	.0	.0	.0	.0	6.0	3.0	4.5	16.5	11.0	13.5
9	.0	.0	.0	.0	.0	.0	7.0	2.5	4.5	14.5	13.0	13.5
10	.0	.0	.0	.0	.0	.0	7.5	3.0	5.0	17.0	13.5	15.0
11	.0	.0	.0	.0	.0	.0	7.0	4.0	6.0	16.5	10.0	13.5
12	.0	.0	.0	.0	.0	.0	7.0	6.5	7.0	12.0	7.5	9.5
13	.0	.0	.0	.0	.0	.0	6.5	4.5	5.0	14.0	9.0	11.0
14	.0	.0	.0	2.5	.0	1.0	7.0	5.0	6.0	14.5	9.0	11.5
15	.0	.0	.0	2.5	1.0	1.5	10.0	4.5	7.5	15.5	10.0	13.0
16	.0	.0	.0	4.0	.0	2.0	9.5	6.5	8.0	14.0	12.0	13.0
17	.0	.0	.0	4.5	.0	2.5	7.5	4.5	6.0	17.5	12.0	14.5
18	.0	.0	.0	6.5	2.0	4.0	12.0	5.0	8.0	20.0	15.0	17.5
19	.0	.0	.0	7.5	3.5	5.5	14.5	9.5	11.5	22.5	18.5	20.0
20	.0	.0	.0	5.5	2.0	3.5	15.5	12.0	13.5	22.5	19.0	20.5
21	.0	.0	.0	2.5	1.5	2.0	14.5	11.5	13.0	21.0	18.0	19.5
22	1.0	.0	.5	3.0	.5	1.5	13.5	10.5	12.0	19.5	17.0	18.5
23	3.0	1.0	2.0	3.5	.5	2.0	13.5	8.5	11.0	18.0	15.5	17.0
24	3.5	2.0	3.0	4.5	.5	3.0	11.0	7.0	9.0	17.5	14.5	16.0
25	4.5	1.5	3.0	8.5	4.0	6.0	11.0	7.0	9.0	17.0	13.0	15.0
26	4.5	1.5	3.0	6.0	2.0	4.0	12.0	10.5	11.0	16.0	14.0	15.0
27	3.0	1.5	2.0	4.0	.5	2.5	10.5	7.0	8.5	17.5	13.5	15.5
28	4.0	1.0	3.0	5.0	.5	3.0	12.0	6.5	9.0	17.5	14.5	16.0
29	1.0	.0	.0	5.0	3.5	4.0	11.0	8.5	9.5	16.0	13.5	15.0
30	---	---	---	7.5	2.0	4.5	10.5	8.5	9.5	16.5	12.5	14.5
31	---	---	---	8.5	4.0	6.0	---	---	---	17.5	14.0	15.5
MONTH	4.5	.0	.6	8.5	.0	1.9	15.5	2.0	7.6	22.5	7.5	14.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.0	14.5	16.5	23.5	21.0	22.5	21.0	19.5	20.5	21.0	18.5	19.5
2	20.0	16.0	18.0	22.5	20.0	21.5	21.5	19.0	20.0	21.0	18.5	20.0
3	19.5	18.5	18.5	21.5	18.5	20.0	22.0	19.0	20.5	21.5	19.5	20.5
4	18.5	17.5	18.0	20.0	17.5	18.5	22.5	20.0	21.0	21.5	20.0	21.0
5	17.5	16.5	17.0	21.0	17.5	19.0	23.0	20.5	22.0	22.5	21.0	22.0
6	18.0	15.5	17.0	20.5	19.0	20.0	24.0	22.0	23.0	23.0	21.5	22.5
7	18.5	17.5	18.0	22.0	19.5	21.0	24.5	23.0	24.0	23.0	21.5	22.0
8	18.0	16.5	17.5	22.0	20.5	21.0	24.5	22.0	23.0	21.5	20.5	21.0
9	18.0	16.5	17.5	21.0	19.5	20.0	22.5	21.0	22.0	21.5	20.0	20.5
10	21.5	17.5	19.5	19.5	17.5	18.5	21.5	20.0	20.5	21.5	20.5	21.0
11	22.0	19.5	20.5	20.5	17.5	19.0	20.5	18.5	19.5	21.0	19.5	20.5
12	21.0	19.5	20.0	21.0	18.5	20.0	20.5	19.0	20.0	21.0	19.5	20.5
13	21.0	19.5	20.5	22.5	20.5	21.5	21.5	19.5	20.5	19.5	17.0	18.5
14	22.5	19.5	21.0	23.0	21.0	22.0	22.0	20.0	21.0	17.5	16.5	17.0
15	22.5	20.0	21.0	22.5	21.0	21.5	22.5	20.5	21.5	17.5	16.5	17.0
16	21.5	19.5	20.5	22.5	20.0	21.5	22.0	21.0	21.0	17.5	16.5	17.0
17	20.5	19.5	20.0	23.5	21.0	22.0	21.5	20.0	21.0	17.5	17.0	17.5
18	20.0	19.0	19.5	23.5	21.5	22.5	21.5	19.5	20.5	18.0	16.0	17.0
19	21.5	19.5	20.5	23.0	20.5	22.0	22.0	20.0	21.0	17.5	15.5	16.5
20	22.0	20.0	21.0	20.5	18.0	19.0	23.0	20.5	21.5	18.0	16.0	17.0
21	22.0	20.0	21.0	20.5	18.0	19.0	23.5	22.0	22.5	17.5	16.0	17.0
22	21.5	19.0	20.5	21.5	18.5	20.0	23.0	20.5	22.0	17.5	16.5	17.0
23	21.0	18.0	19.5	21.5	19.5	20.5	23.5	22.5	23.0	16.5	14.5	15.5
24	20.0	18.5	19.5	21.0	19.5	20.5	23.0	21.5	22.0	14.5	13.5	14.0
25	21.0	18.5	19.5	22.5	20.5	21.0	22.5	20.0	21.5	15.0	14.0	14.5
26	20.0	17.5	19.0	22.0	20.5	21.0	22.5	20.5	21.5	15.0	13.5	14.5
27	21.5	18.0	19.5	21.0	19.5	20.0	21.5	21.0	21.0	17.0	15.0	16.0
28	21.0	19.5	20.0	20.0	17.5	19.0	21.5	19.5	20.5	17.5	15.5	17.0
29	21.0	20.0	20.5	21.0	17.5	19.0	20.5	19.0	20.0	15.5	14.0	15.0
30	24.5	20.5	22.5	22.0	20.5	21.0	20.5	19.0	20.0	15.0	13.5	14.0
31	---	---	---	22.0	20.0	20.5	20.5	18.0	19.0	---	---	---
MONTH	24.5	14.5	19.4	23.5	17.5	20.5	24.5	18.0	21.2	23.0	13.5	18.1

0422026250 NORTHRUP CREEK AT NORTH GREECE, NY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	BEGIN TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)
OCT							
05-06	1315	0815	18	5.9	416	--	--
06-10	0920	0820	6.2	14	464	--	--
14-15	1330	0030	9.9	6.7	544	--	--
15-16	0130	0830	7.6	6.2	522	--	--
20-21	1745	1245	47	120	402	390	49
21-23	1345	0845	28	36	551	75	10
NOV							
07-08	0640	0240	8.4	4.3	--	--	--
08-09	0340	0840	7.8	5.3	--	--	--
09-11	0945	1245	11	3.8	629	--	--
11-12	1345	0845	21	45	693	93	13
12-13	0945	0845	14	16	650	--	--
13-15	0940	0540	19	16	734	--	--
15-16	0640	0840	30	23	735	--	--
16-18	0940	1240	21	10	857	--	--
18-20	1340	0040	23	5.7	852	--	--
20-21	1020	1920	28	7.7	781	--	--
21-22	2020	0820	31	16	751	--	--
22-27	0905	0805	15	4.1	874	--	--
DEC							
11-12	1000	1200	e5.4	4.6	1010	--	--
14-15	1020	0920	e19	5.7	1100	--	--
15-18	1020	0920	e25	5.4	1060	--	--
18-21	0935	1635	e11	2.8	947	--	--
JAN							
16-18	1325	0825	e73	20	1060	--	--
18-18	0910	2210	170	170	778	742	86
22-25	0955	0855	48	36	858	97	13
25-29	0915	0815	35	23	876	--	--
JAN 29-							
FEB 01	0925	0825	e20	22	1040	--	--
08-09	0940	0440	e33	35	941	50	9
09-12	0540	0840	e32	24	860	--	--
19-20	0515	0815	e26	5.4	1080	--	--
20-21	0945	0145	71	45	736	171	20
22-26	0955	0855	e28	9.4	806	--	--
26-29	0935	0835	e19	4.6	873	--	--
FEB 29-							
MAR 04	0925	0825	e13	7.1	952	--	--
14-15	0920	0020	44	22	830	--	--
15-18	0120	0820	29	44	851	--	--
18-19	0945	1745	16	2.0	901	--	--
19-21	1845	0845	30	--	864	--	--
21-25	0935	0835	23	4.5	1020	--	--
25-25	0925	2025	27	2.5	920	--	--
APR							
12-14	1320	0020	77	40	678	163	17
14-15	0120	0820	69	27	578	--	--
15-18	0915	0815	20	40	790	--	--
18-22	0925	0825	15	1.8	861	--	--
22-23	0935	2035	84	40	566	--	--
23-25	2135	0835	77	24	550	--	--
25-29	0935	0835	18	3.5	749	--	--
29-30	0920	2020	18	6.2	744	--	--
APR 30-							
MAY 02	2120	0820	23	6.9	604	--	--
02-06	0925	0825	14	2.7	649	--	--
10-12	1350	0450	101	40	433	164	22
12-13	0550	0850	100	24	459	--	--
13-16	0935	0835	25	3.3	556	--	--
16-20	0915	0815	13	1.7	682	--	--

0422026250 NORTHRUP CREEK AT NORTH GREECE, NY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT							
05-06	<0.01	0.28	1.5	0.230	0.170	39	51
06-10	<0.01	0.96	1.4	0.200	0.155	45	55
14-15	<0.01	0.54	1.8	0.200	0.170	57	84
15-16	<0.01	0.63	1.1	0.250	0.150	56	67
20-21	<0.01	1.6	1.3	0.990	0.105	42	44
21-23	<0.01	0.99	0.97	0.270	0.017	80	54
NOV							
07-08	<0.01	0.77	2.2	0.130	0.093	71	68
08-09	0.02	0.82	1.8	0.130	0.087	75	67
09-11	0.02	0.90	1.7	0.110	0.074	80	69
11-12	0.01	0.98	1.4	0.270	0.072	67	62
12-13	0.01	0.89	1.3	0.170	0.074	84	67
13-15	0.06	1.1	1.4	0.140	0.069	100	76
15-16	0.04	0.86	1.2	0.065	0.063	110	70
16-18	0.08	1.8	1.4	0.110	0.052	110	74
18-20	0.06	1.4	1.7	0.095	0.049	130	73
20-21	0.03	1.4	1.5	0.110	0.050	120	69
21-22	0.02	1.2	1.5	0.140	0.053	110	67
22-27	0.06	1.4	<0.05	0.095	0.017	130	82
DEC							
11-12	0.21	1.9	2.8	0.120	0.042	130	100
14-15	0.15	1.1	2.3	0.160	0.088	200	80
15-18	0.22	0.27	1.7	0.130	0.072	200	77
18-21	0.21	1.3	2.1	0.075	0.045	130	82
JAN							
16-18	0.19	1.1	1.2	0.230	0.057	190	72
18-18	0.10	2.2	1.5	1.35	0.050	150	43
22-25	0.25	1.4	1.6	0.230	0.044	150	50
25-29	0.32	1.0	1.6	0.150	0.050	150	49
JAN 29-							
FEB 01	0.76	1.2	1.9	0.120	0.051	170	62
08-09	1.00	1.6	1.7	0.190	0.080	170	49
09-12	0.76	1.6	1.4	0.130	0.054	150	48
19-20	1.40	2.1	2.0	0.110	0.061	160	79
20-21	0.67	0.99	1.3	0.260	0.056	150	40
22-26	0.33	1.1	1.3	0.100	0.050	140	49
26-29	0.37	0.90	1.4	0.075	0.038	140	54
FEB 29-							
MAR 04	0.57	1.1	1.6	0.085	0.038	160	56
14-15	0.23	0.95	1.2	0.180	0.033	150	42
15-18	0.22	0.73	1.4	0.070	0.030	150	49
18-19	0.13	0.63	1.4	0.050	0.018	140	140
19-21	0.12	0.72	1.2	0.095	0.019	150	150
21-25	0.09	0.92	1.2	0.060	0.018	180	51
25-25	0.03	0.57	1.2	0.055	0.007	160	51
APR							
12-14	0.10	1.2	1.4	0.200	0.018	100	46
14-15	0.08	0.95	1.2	0.150	0.026	83	36
15-18	0.01	0.51	1.4	0.050	0.014	120	47
18-22	<0.01	0.52	1.3	0.050	0.012	130	53
22-23	0.03	0.98	0.83	0.250	0.027	74	36
23-25	0.04	1.1	0.98	0.160	0.029	69	34
25-29	0.02	0.71	1.4	0.065	0.020	110	46
29-30	0.04	0.70	1.4	0.085	0.015	90	39
APR 30-							
MAY 02	0.03	0.72	1.1	0.080	0.021	68	33
02-06	<0.01	0.60	1.5	0.045	0.016	81	40
10-12	0.03	0.72	0.69	0.370	0.039	41	23
12-13	0.02	0.63	0.77	0.200	0.038	41	26
13-16	<0.01	0.62	1.2	0.085	0.022	67	38
16-20	<0.01	0.61	1.5	0.080	0.038	81	44

0422026250 NORTHRUP CREEK AT NORTH GREECE, NY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	BEGIN TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)
JUN							
12-12	1235	2335	24	75	--	261	42
13-13	0035	0835	31	60	--	183	29
13-17	0935	0835	12	14	680	--	--
17-20	0935	0830	24	33	--	--	--
JUL							
15-15	1010	2110	15	39	492	96	14
15-18	2210	0910	7.3	13	599	--	--
29-31	2130	0030	5.4	45	439	160	23
JUL 30-AUG 01	0130	0830	23	55	475	138	18
08-08	0935	2035	32	45	398	149	23
08-12	2135	0835	11	10	617	23	5
SEP							
13-13	0545	1645	19	33	413	80	13
13-16	1745	0845	13	18	480	--	--
17-18	1235	0235	16	6.4	--	--	--
18-19	0335	0835	15	18	--	--	--
28-28	1005	2105	18	20	623	--	--
28-30	2205	0905	16	12	604	--	--

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
JUN							
12-12	0.03	1.2	1.4	0.620	0.120	69	47
13-13	0.03	0.99	1.1	0.430	0.099	66	38
13-17	0.02	0.73	1.6	0.240	0.130	78	64
17-20	0.02	0.56	1.5	0.360	0.043	67	54
JUL							
15-15	0.01	0.61	1.5	<0.005	0.105	55	49
15-18	<0.01	0.80	1.6	<0.005	0.115	69	62
29-31	0.05	0.56	1.4	0.370	0.135	40	47
JUL 30-AUG 01	<0.05	0.65	0.96	0.310	0.105	52	46
08-08	0.02	0.52	1.3	0.400	0.100	41	41
08-12	0.01	0.47	1.2	0.185	0.120	70	70
SEP							
13-13	0.02	0.62	1.3	0.290	0.145	38	44
13-16	0.02	0.47	1.3	0.210	0.120	49	53
17-18	0.14	0.38	1.2	0.180	0.120	80	100
18-19	0.13	0.66	1.1	0.230	0.120	62	71
28-28	0.02	0.50	1.5	0.250	0.120	65	73
28-30	0.02	0.50	1.3	0.200	0.100	66	57

04221000 GENESEE RIVER AT WELLSVILLE, NY

LOCATION.--Lat 42°07'20", long 77°57'27", Allegany County, Hydrologic Unit 04130002, on left bank 35 ft upstream from concrete weir at Wellsville, 0.5 mi upstream from bridge on State Highway 17, 0.6 mi upstream from Crowner Brook and sewage treatment plant, 0.6 mi downstream from Dyke Creek, and 140.9 mi upstream from mouth.

DRAINAGE AREA.--288 mi^2.

PERIOD OF RECORD.--August 1955 to September 1958, October 1972 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,470.00 ft above sea level. October 1957 to September 1958, nonrecording gage at site 0.4 mi upstream at datum 3.00 ft higher. August 1955 to September 1957, at same site at datum 8.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Record for station 04221500 Genesee River at Scio, 5.2 mi downstream, published for June 1916 to September 1972. Telephone and satellite gage-height telemeters at station. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since June 1916, 38,500 ft^3/s, June 23, 1972, gage height, 20.7 ft, present datum, from floodmark, on basis of contracted-opening measurement of peak flow 0.5 mi downstream.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 21	1130	5,900	9.40	Apr. 13	2300	5,140	8.94
Jan. 19	1630	*22,700	*16.13	Apr. 30	1830	4,380	8.45
Jan. 27	1600	3,790	8.07	May 11	2030	7,460	10.29

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	146	843	171	e500	683	643	2190	174	88	44	24
2	16	146	857	175	e420	599	626	1470	159	70	41	23
3	15	194	662	120	e360	499	568	1170	147	71	39	22
4	19	181	716	e180	e300	393	532	1220	145	72	36	22
5	31	159	581	e190	e270	509	533	1040	147	64	35	28
6	237	150	523	e180	e240	872	479	957	134	56	32	36
7	89	158	449	e170	e220	430	471	799	125	52	31	50
8	62	214	387	e165	255	e400	437	690	137	79	59	63
9	45	195	370	e160	622	e360	406	632	125	76	170	48
10	39	176	e290	e155	321	e320	405	2450	115	56	83	42
11	34	337	e230	e150	430	e300	419	5160	108	49	55	38
12	31	1420	e220	e150	e280	e290	676	5630	101	44	46	52
13	29	736	e210	e145	e200	e350	4140	2850	95	41	43	732
14	32	637	e230	e145	e200	786	3240	1820	93	40	40	410
15	68	670	264	e140	e190	1190	1660	1360	84	136	38	179
16	72	599	e250	137	e180	796	1320	1080	74	143	47	134
17	71	544	e220	167	e170	555	1050	913	69	81	44	297
18	54	523	e200	e800	e150	501	849	749	87	71	40	875
19	47	523	183	13800	e140	524	739	616	201	113	36	346
20	47	539	e160	6520	e600	2300	729	515	197	138	33	237
21	3620	594	e210	2450	e2300	1500	651	750	219	85	34	187
22	1200	551	e190	1500	1360	967	548	619	122	66	36	159
23	559	504	e190	1170	1080	789	560	456	108	55	33	179
24	391	457	e180	1700	1900	662	702	419	99	48	36	143
25	306	402	e170	1350	1170	911	727	349	119	48	36	130
26	248	389	e160	889	955	1450	609	301	94	47	31	117
27	210	385	e155	2200	783	812	643	288	81	43	28	103
28	197	1530	e150	1500	1400	704	529	269	72	40	26	450
29	180	1040	e150	1060	881	728	763	262	66	37	27	1070
30	164	789	e145	875	---	697	2290	228	99	39	27	439
31	151	---	e170	e650	---	627	---	197	---	48	26	---
TOTAL	8281	14888	9715	39164	17877	22504	27944	37449	3596	2096	1332	6635
MEAN	267	496	313	1263	616	726	931	1208	120	67.6	43.0	221
MAX	3620	1530	857	13800	2300	2300	4140	5630	219	143	170	1070
MIN	15	146	145	120	140	290	405	197	66	37	26	22
CFSM	.93	1.72	1.09	4.39	2.14	2.52	3.23	4.19	.42	.23	.15	.77
IN.	1.07	1.92	1.25	5.06	2.31	2.91	3.61	4.84	.46	.27	.17	.86

e Estimated

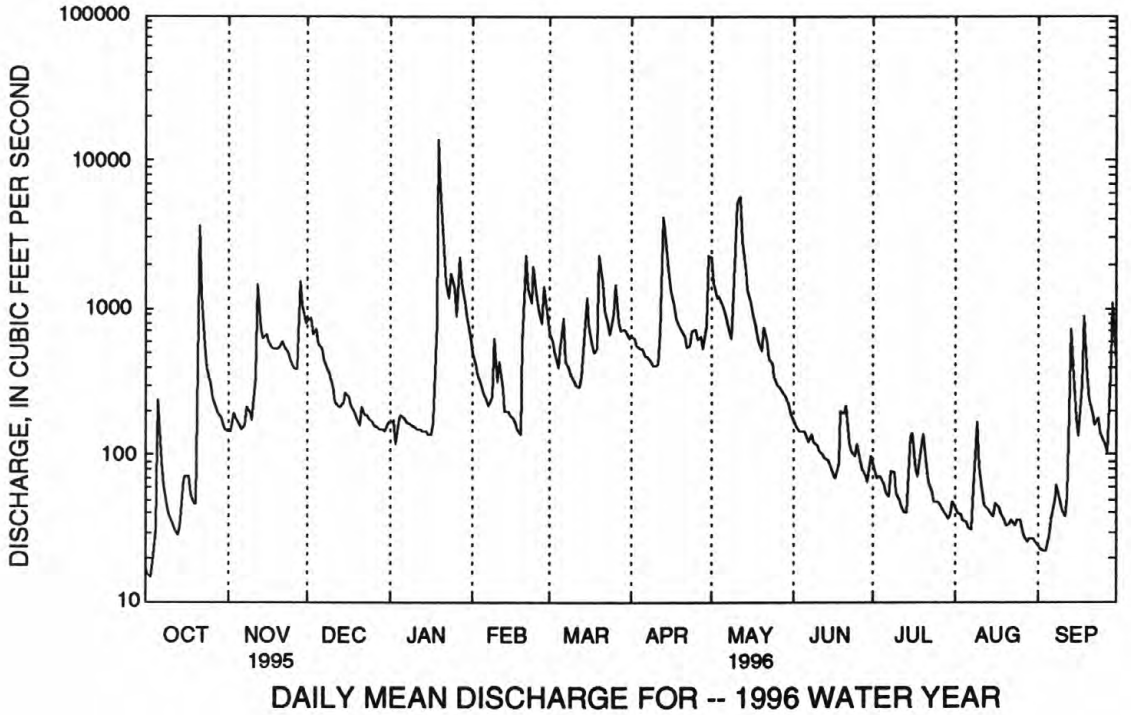
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1996, BY WATER YEAR (WY)

MEAN	228	349	459	375	456	775	872	471	276	159	127	185
MAX	784	773	1016	1263	1443	1689	1925	1208	1269	656	666	1246
(WY)	1991	1993	1973	1996	1976	1956	1958	1996	1989	1977	1994	1977
MIN	25.0	37.3	104	52.1	94.4	320	361	113	45.3	27.5	25.0	18.8
(WY)	1958	1958	1990	1981	1958	1981	1976	1985	1991	1993	1957	1995

04221000 GENESEE RIVER AT WELLSVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1955 - 1958, 1973 - 1996	
ANNUAL TOTAL	97134		191481			
ANNUAL MEAN	266		523		393	
HIGHEST ANNUAL MEAN					564	1956
LOWEST ANNUAL MEAN					261	1981
HIGHEST DAILY MEAN	3620	Oct 21	13800	Jan 19	13800	Jan 19 1996
LOWEST DAILY MEAN	13	Sep 7	15	Oct 3	13	a
ANNUAL SEVEN-DAY MINIMUM	15	Sep 3	24	Aug 29	15	Sep 3 1995
INSTANTANEOUS PEAK FLOW			22700	Jan 19	22700	Jan 19 1996
INSTANTANEOUS PEAK STAGE			16.13	Jan 19	16.13	Jan 19 1996
ANNUAL RUNOFF (CFSM)	.92		1.82		1.37	
ANNUAL RUNOFF (INCHES)	12.55		24.73		18.53	
10 PERCENT EXCEEDS	630		1170		886	
50 PERCENT EXCEEDS	156		210		207	
90 PERCENT EXCEEDS	20		39		41	

a Sep. 2, 3, 1991.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04223000 GENESEE RIVER AT PORTAGEVILLE, NY

LOCATION.--Lat 42°34'13", long 78°02'33", Wyoming County, Hydrologic Unit 04130002, on left bank at Portageville, 500 ft downstream from bridge on State Highway 436, 800 ft upstream from abandoned railroad bridge piers, 0.9 mi upstream from Upper Falls, and 89.8 mi upstream from mouth.

DRAINAGE AREA.--984 mi^2.

PERIOD OF RECORD.--August 1908 to current year. Prior to December 1945, published as "at St. Helena". Records published for both sites December 1945 to September 1950.

REVISED RECORDS.--WSP 264: 1908. WSP 564: 1916(M). WSP 2112; WDR NY-82-3: Drainage area. WRD NY 1972: 1950(M), 1951(M), 1956(M), 1959(M), 1964(M), 1967(M).

GAGE.--Water-stage recorder. Datum of gage is 1,080.00 ft above 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 downstream at different datum. Oct. 1, 1946 to June 21, 1972, water-stage recorder at site 1,200 ft downstream at datum 2.60 ft higher (destroyed by flood of June 1972). July 12, 1972 to May 18, 1973, nonrecording gage at site 500 ft upstream at datum 11.48 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since July 1928, some seasonal regulation by Rushford Lake. Diurnal fluctuation at low flow caused by powerplant. Monthly figures of discharge and runoff 1952 to 1966 water years adjusted for change in contents in Rushford Lake. Telephone gage-height telemeter and satellite gage-height and precipitation telemeter at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 21	1900	16,800	16.16	Apr. 13	1015	26,000	19.25
Jan. 20	0300	*56,200	*29.12	May 12	0630	26,400	19.36

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e70	1090	2480	636	1250	e1580	1830	7680	586	466	332	e140
2	e68	470	3280	e600	e1100	e1350	1670	3740	551	317	193	e130
3	e65	522	2290	499	e900	1240	1550	2790	556	281	176	e120
4	e75	624	2660	e600	e800	982	1490	2990	494	354	e165	e120
5	143	563	2090	e750	e750	1040	1600	3270	562	333	e155	e130
6	447	509	1700	e700	e675	2400	1500	3100	529	274	e145	e140
7	530	493	1380	e680	e600	1790	1390	2580	477	241	e135	e150
8	371	794	1240	e670	844	e1250	1360	2000	667	235	e170	e160
9	264	784	2040	e650	1310	e1100	1270	2100	739	299	1460	e165
10	209	646	2170	e640	1380	e1000	1250	6830	842	239	880	194
11	170	692	1740	e630	e1200	e900	1290	17300	581	210	461	218
12	157	5130	e950	e630	e1000	804	2410	20400	524	e180	285	179
13	157	3010	e900	e620	e900	885	20800	7670	995	e170	222	1040
14	159	2130	e900	e620	e825	1830	15500	4780	562	e160	198	2340
15	243	2210	1350	e600	e750	4710	5860	3440	462	e205	177	911
16	605	2150	1520	e580	e700	3100	4200	2630	433	377	340	568
17	1270	1940	1210	e700	e650	1760	3460	2290	397	435	312	477
18	888	1840	e1000	e4000	e600	1450	2790	2090	343	300	228	2620
19	250	1950	e850	30400	e560	1610	2240	1830	807	282	188	1390
20	541	2110	e700	37400	677	4250	2220	1570	1010	411	176	834
21	9780	2520	1240	7980	e4000	4770	2280	1930	1160	388	190	604
22	7190	2320	2010	4130	4870	2710	1880	2470	736	332	172	480
23	2870	2010	1610	3060	3370	1990	2500	1650	570	234	e165	433
24	1330	1720	795	4230	6300	1620	4220	1390	539	199	e160	426
25	909	1430	769	5790	3940	2640	2950	1220	465	184	e160	401
26	688	1380	e750	2720	2860	6340	2340	1050	515	e170	e165	375
27	562	1510	e700	3530	2180	2910	2300	977	374	e160	183	320
28	490	5960	e670	4750	3900	2110	1870	861	315	e150	e160	435
29	500	4700	e660	2450	2580	1840	1570	785	292	e140	e155	3120
30	929	2830	e650	2140	---	1950	5710	722	339	e150	e150	1560
31	1490	---	e700	1670	---	1810	---	652	---	319	e145	---
TOTAL	33420	56037	43004	125055	51471	65721	103300	114787	17422	8195	8203	20180
MEAN	1078	1868	1387	4034	1775	2120	3443	3703	581	264	265	673
MAX	9780	5960	3280	37400	6300	6340	20800	20400	1160	466	1460	3120
MIN	65	470	650	499	560	804	1250	652	292	140	135	120

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 1996, BY WATER YEAR (WY)

MEAN	629	1073	1334	1397	1440	2914	2802	1519	880	441	324	416
MAX	3320	4201	4314	4795	5838	7360	7780	4826	7006	1876	1875	4949
(WY)	1918	1928	1928	1913	1976	1936	1940	1919	1972	1915	1977	1977
MIN	74.1	110	160	100	229	945	450	294	118	64.8	64.5	50.1
(WY)	1965	1965	1909	1961	1920	1937	1946	1934	1934	1934	1934	1913

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1908 - 1996	
ANNUAL TOTAL	332264		646795			
ANNUAL MEAN	910		1767		1263	
HIGHEST ANNUAL MEAN					2038	1916
LOWEST ANNUAL MEAN					766	1962
HIGHEST DAILY MEAN	11700	Jan 21	37400	Jan 20	72000	Jun 23 1972
LOWEST DAILY MEAN	55	a	e65	Oct 3	20	Oct 5 1913
ANNUAL SEVEN-DAY MINIMUM	56	Sep 5	132	Aug 31	34	Jul 25 1934
INSTANTANEOUS PEAK FLOW			56200	Jan 20	b90000	Jun 23 1972
INSTANTANEOUS PEAK STAGE			29.12	Jan 20	c35.25	Jun 23 1972
INSTANTANEOUS LOW FLOW			Unknown		18	d
10 PERCENT EXCEEDS	2160		3480		2900	
50 PERCENT EXCEEDS	500		843		600	
90 PERCENT EXCEEDS	80		170		133	

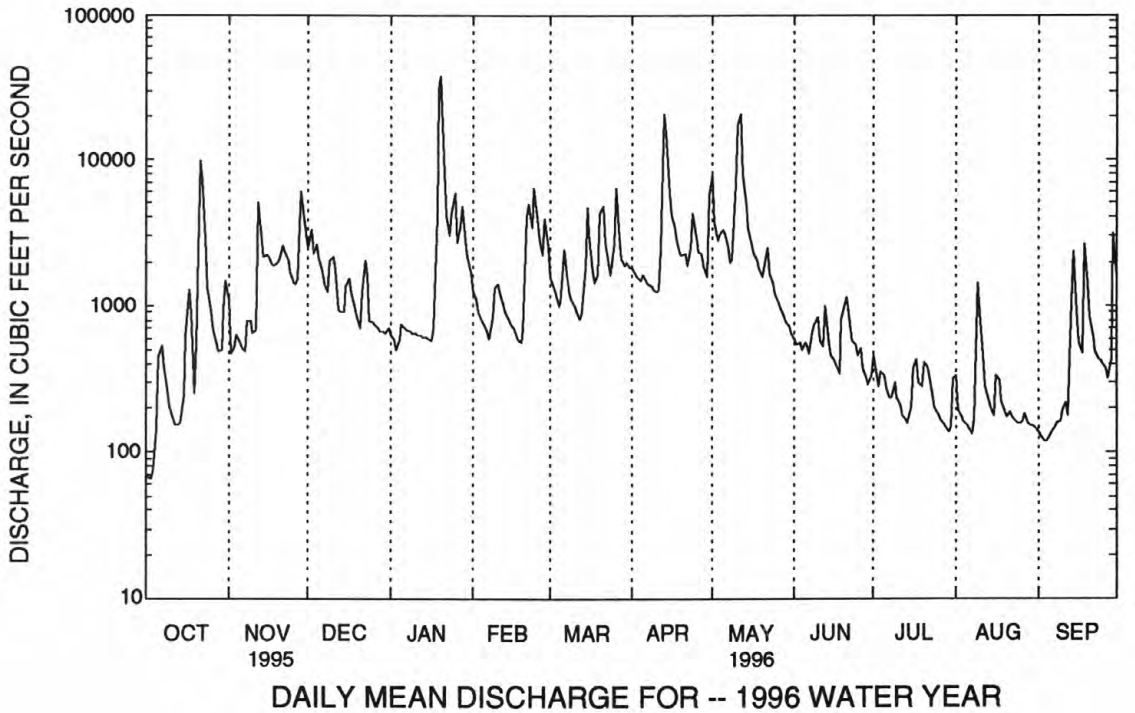
a Sep. 5, 6, 7, 8, 9, 11, 12.

b About, from rating curve extended above 25,000 ft^3/s on basis of contracted-opening measurement of 71,000 ft^3/s, at highway bridge 0.4 mi upstream and contracted-opening measurement of 98,200 ft^3/s, 0.7 mi downstream from gage.

c From high-water mark, site and datum then in use.

d Oct. 5, 17, 1913.

e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04224000 MOUNT MORRIS LAKE NEAR MOUNT MORRIS, NY

LOCATION.--Lat 42°44'00", long 77°54'40", Livingston County, Hydrologic Unit 04130002, at Mount Morris Dam on Genesee River, 2.0 mi northwest of Mount Morris, 5.0 mi upstream from Canaseraga Creek, and 69.3 mi upstream from mouth.

DRAINAGE AREA.--1,080 mi^2.

PERIOD OF RECORD.--January 1952 to current year. Prior to October 1970, published as "Mount Morris Reservoir near Mount Morris."

REVISED RECORDS.--WSP 1437: 1955. WSP 2112; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by U.S. Army Corps of Engineers). Prior to Apr. 8, 1952, reference point at same site and datum.

REMARKS.--Lake is formed by a concrete gravity-type dam with overflow spillway, completed by U. S. Army Corps of Engineers in 1951 for flood control; first used for flood regulation on Nov. 24, 1951. Usable capacity, 336,800 acre-ft between elevation 585.0 ft, sill of conduits, and 760.0 ft, crest of spillway. Dead storage, 609 acre-ft. Discharge is controlled by the operation of nine gates. Water is stored during high flows and released when downstream conditions warrant.

COOPERATION.--Capacity table provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 755.46 ft, June 25, 1972, contents, 322,600 acre-ft; minimum, 584.06 ft, Aug. 30, 1991, contents, 446.4 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 706.66 ft, Jan.25, contents, 182,900 acre-ft; minimum, 585.09 ft, Sep. 4, contents 625 acre-ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

(Furnished by U. S. Army Corps of Engineers in 1953)

584.00	436	605.00	8,250	660.00	78,200
586.00	782	610.00	11,600	680.00	119,800
588.00	1,210	620.00	19,800	700.00	166,300
590.00	1,730	630.00	30,500	730.00	245,200
595.00	3,410	640.00	43,700	750.00	305,100
600.00	5,610				

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	585.46	594.83	624.43	591.43	685.35	625.71	607.22	644.55	590.20	588.60	588.52	585.17
2	585.45	590.05	619.63	590.90	679.83	619.18	605.09	647.98	589.88	588.26	587.58	585.15
3	585.43	589.91	617.13	589.32	674.17	612.05	601.34	646.43	589.98	587.75	587.08	585.14
4	585.50	590.54	620.76	588.49	668.31	599.22	596.85	643.47	589.62	587.91	586.88	585.10
5	585.69	590.50	625.92	589.60	662.60	592.44	596.39	641.16	589.51	588.30	586.76	585.13
6	588.10	590.07	629.07	591.50	655.42	599.21	597.29	638.61	590.10	587.79	586.68	585.28
7	589.18	589.86	631.19	591.15	646.86	604.40	594.36	635.75	589.34	587.45	586.47	586.87
8	588.69	590.88	628.33	590.83	638.43	594.30	594.32	630.93	590.10	587.27	586.59	587.09
9	587.71	591.78	621.23	590.79	630.89	591.53	593.75	624.73	590.83	587.61	589.08	587.34
10	587.23	591.06	614.41	590.59	625.76	591.63	593.65	623.66	591.59	587.57	589.08	587.71
11	586.87	590.67	607.18	590.25	624.86	592.32	593.75	640.24	590.36	587.19	587.36	588.34
12	586.57	604.91	592.50	590.03	625.37	593.16	596.67	666.41	589.67	586.99	586.39	587.86
13	586.41	615.70	590.72	---	626.55	605.82	628.98	681.04	591.97	586.86	585.89	---
14	586.37	613.86	591.45	---	627.44	612.37	658.58	685.42	590.20	586.78	585.78	---
15	586.92	610.70	592.90	---	628.27	624.11	669.28	685.54	588.93	587.04	585.64	---
16	587.59	608.00	593.46	---	628.90	633.08	672.54	683.96	588.68	587.93	585.76	---
17	593.05	604.50	593.00	---	629.28	634.28	673.20	680.92	588.64	589.08	586.42	---
18	592.93	599.30	591.94	---	629.87	630.68	673.03	676.72	588.64	588.26	585.91	---
19	588.06	596.44	591.97	633.93	630.31	626.46	669.51	672.30	589.67	587.86	585.67	---
20	587.23	598.69	588.94	682.79	630.80	623.71	664.88	667.62	592.19	588.41	585.55	---
21	607.11	601.12	588.47	698.96	633.73	626.02	661.11	663.14	591.41	588.77	585.56	---
22	636.89	603.20	592.98	703.04	641.77	625.53	657.37	660.65	590.35	588.34	585.59	---
23	638.48	601.41	594.14	703.61	644.45	621.66	653.32	656.83	589.54	587.70	585.46	---
24	632.82	596.36	589.70	704.44	644.22	617.23	651.74	651.18	589.48	587.20	585.52	---
25	624.93	594.17	588.86	706.28	644.62	612.12	652.39	644.21	588.89	586.98	585.42	---
26	616.49	594.11	590.07	705.01	640.82	620.81	651.90	636.25	589.21	586.87	585.39	---
27	602.17	595.48	590.60	702.40	635.73	624.44	650.51	626.80	588.56	586.81	585.35	---
28	590.17	613.49	590.82	701.42	631.48	621.35	646.59	615.05	588.08	586.69	585.50	---
29	589.86	628.11	591.09	698.61	630.29	617.82	641.46	594.36	587.90	586.61	585.25	---
30	590.67	627.94	590.81	694.81	---	613.63	638.24	590.39	588.36	586.64	585.22	---
31	596.54	---	590.82	690.75	---	609.52	---	590.60	---	587.38	585.19	---
MEAN	596.02	600.25	602.08	---	641.25	613.41	632.84	646.67	589.73	587.58	586.28	---
MAX	638.48	628.11	631.19	---	685.35	634.28	673.20	685.54	592.19	589.08	589.08	---
MIN	585.43	589.86	588.47	---	624.86	591.53	593.65	590.39	587.90	586.61	585.19	---

CAL YR 1995 MEAN 595.29 MAX 654.55 MIN 585.05

04224775 CANASERAGA CREEK ABOVE DANSVILLE, NY

LOCATION.--Lat 42°32'08", long 77°42'16", Livingston County, Hydrologic Unit 04130002, on right bank on Poags Hole Road, 0.7 mi upstream from Stony Brook, and 1.7 mi south of Dansville.

DRAINAGE AREA.--88.9 mi^2.

PERIOD OF RECORD.--August 1974 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area. WDR NY-91-3: 1984, 1986(P).

GAGE.--Water-stage recorder. Datum of gage is 715.60 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Telephone gage-height telemeter and satellite gage-height and precipitation telemeter at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 21	1100	2,030	3.61	Apr. 13	0715	2,810	4.42
Jan. 19	1500	*7,340	*8.50	May 11	1930	2,800	4.41

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	31	169	e20	e90	e90	e120	e600	e50	31	16	9.2
2	8.1	32	196	e19	e55	e70	e115	e400	e47	25	15	9.0
3	7.7	34	132	17	e45	e55	e110	e300	e44	28	14	9.1
4	8.3	34	172	e17	e38	e48	e120	e200	e42	33	12	9.2
5	13	32	120	e18	e32	e75	e350	e400	e46	28	12	10
6	42	31	98	e19	e34	e300	e250	e350	e44	23	11	9.7
7	26	32	73	e22	e38	e100	e160	e250	e42	21	11	11
8	20	42	e56	e25	e50	e80	e140	e180	e46	20	22	10
9	14	39	e46	e28	e420	e65	e110	e220	e50	19	39	11
10	11	36	38	e27	e54	e55	e100	e500	e46	17	24	16
11	10	36	e40	e26	e170	e54	e95	2070	43	17	17	14
12	10	175	e43	e26	e50	e52	e140	1600	39	16	16	16
13	9.9	90	45	e28	e30	e100	2260	686	40	16	15	75
14	11	77	50	e30	e28	e300	e1400	e350	37	15	14	53
15	15	97	155	e31	e25	721	e1000	e240	34	25	14	24
16	23	106	194	e32	e23	e350	e500	e180	30	34	18	18
17	23	97	128	e40	e22	e240	e350	e140	29	21	17	32
18	17	102	82	e300	e22	e200	e260	e120	34	19	14	154
19	14	128	68	3680	e23	e180	e210	e110	58	20	13	42
20	13	161	61	1750	e220	696	e180	e100	49	21	12	26
21	1050	204	e65	1090	e750	716	e160	263	42	18	11	19
22	448	181	e60	e700	e380	e350	e140	e180	34	16	11	16
23	164	156	e52	e540	e220	e220	e180	e120	31	15	11	15
24	84	130	e46	990	e500	e180	e600	e90	30	14	11	14
25	58	107	e40	e750	e320	e350	e500	e80	37	14	10	14
26	45	104	e35	e480	e200	e720	e300	e75	31	13	9.8	14
27	39	111	e30	879	e130	e300	e200	e70	27	12	9.9	12
28	34	557	e32	e450	e320	e200	e160	e65	25	11	10	20
29	33	255	e29	e320	e120	e160	e160	e75	24	11	9.8	70
30	33	179	e26	e250	---	e130	e500	e60	41	12	9.5	33
31	32	---	e23	e140	---	e110	---	e54	---	18	9.3	---
TOTAL	2324.1	3396	2404	12744	4409	7267	10870	10128	1172	603	438.3	785.2
MEAN	75.0	113	77.5	411	152	234	362	327	39.1	19.5	14.1	26.2
MAX	1050	557	196	3680	750	721	2260	2070	58	34	39	154
MIN	7.7	31	23	17	22	48	95	54	24	11	9.3	9.0
CFSM	.84	1.27	.87	4.62	1.71	2.64	4.08	3.68	.44	.22	.16	.29
IN.	.97	1.42	1.01	5.33	1.84	3.04	4.55	4.24	.49	.25	.18	.33

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1996, BY WATER YEAR (WY)

MEAN	54.7	89.9	109	106	133	208	214	119	67.1	37.0	30.2	43.2
MAX	175	194	252	411	432	419	519	327	270	128	77.1	331
(WY)	1991	1993	1978	1996	1976	1979	1993	1996	1989	1992	1992	1977
MIN	10.7	19.5	38.9	24.4	31.4	70.6	81.8	26.2	16.8	10.8	7.52	6.83
(WY)	1984	1992	1989	1984	1980	1984	1981	1985	1991	1985	1985	1995

04224775 CANASERAGA CREEK ABOVE DANSVILLE, NY--Continued

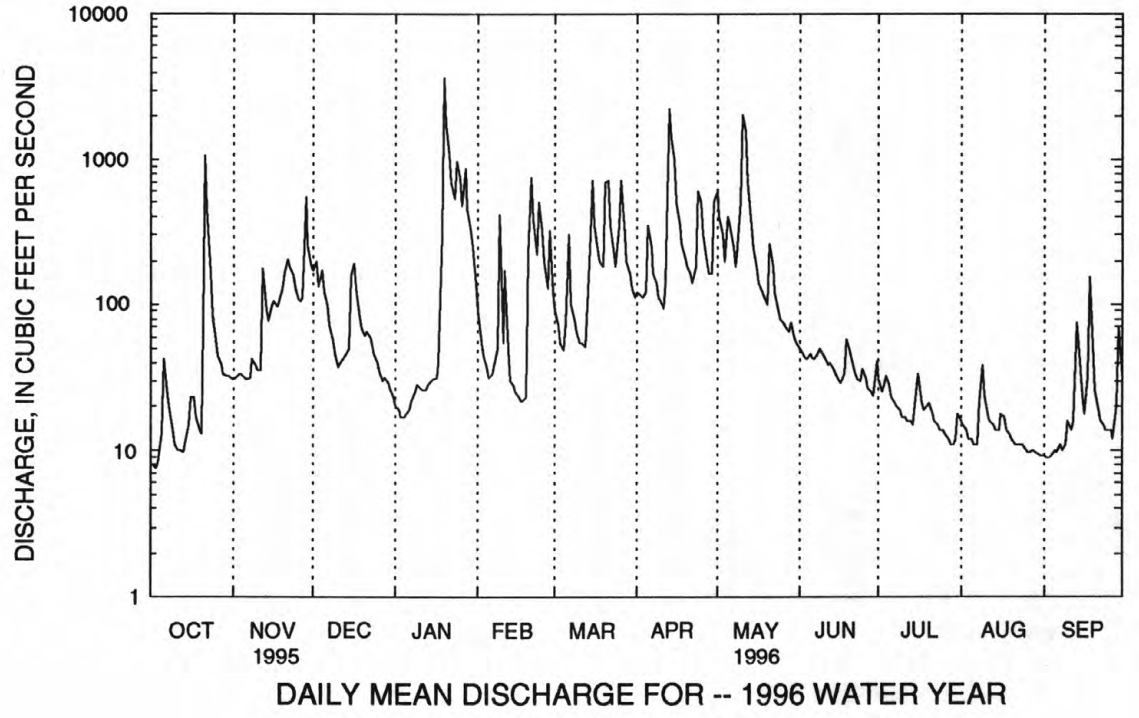
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1974 - 1996	
ANNUAL TOTAL	25522.1		56540.6			
ANNUAL MEAN	69.9		154		100	
HIGHEST ANNUAL MEAN					154	1996
LOWEST ANNUAL MEAN					65.5	1985
HIGHEST DAILY MEAN	1050	Oct 21	3680	Jan 19	3680	Jan 19 1996
LOWEST DAILY MEAN	e6.6	a	7.7	Oct 3	e6.6	b
ANNUAL SEVEN-DAY MINIMUM	6.7	Sep 2	9.3	Aug 29	6.7	Sep 2 1995
INSTANTANEOUS PEAK FLOW			c7340	Jan 19	7340	Jan 19 1996
INSTANTANEOUS PEAK STAGE			8.50	Jan 19	8.50	Jan 19 1996
ANNUAL RUNOFF (CFSM)	.79		1.74		1.13	
ANNUAL RUNOFF (INCHES)	10.68		23.66		15.33	
10 PERCENT EXCEEDS	160		350		220	
50 PERCENT EXCEEDS	35		44		52	
90 PERCENT EXCEEDS	7.2		12		13	

a Sep. 26, 27.

b Sep. 26, 27, 1995.

c From rating curve extended above 1,400 ft^3/s.

e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY

LOCATION.--Lat 42°44'13", long 77°50'27", Livingston County, Hydrologic Unit 04130002, on right bank 100 ft upstream from bridge on State Highway 408 at Shakers Crossing, 1.4 mi upstream from mouth, and 1.5 mi northeast of Mount Morris.

DRAINAGE AREA.--335 mi^2.

PERIOD OF RECORD.--July 1915 to September 1922 (gage height only), November 1958 to September 1970, October 1974 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 545.52 ft above sea level. Prior to July 1981 at site 250 ft east on left bank of old filled-in channel at same datum,and prior to November 1958 at site 250 ft east and 40 ft north at datum 5.52 ft lower. April 1968 to September 1970, and since October 1974, auxiliary water-stage recorder 0.6 mi downstream from base gage.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972 reached an estimated discharge of 11,200 ft^3/s from U. S. Army Corps of Engineers publication (Tropical Storm Agnes, June 1972).

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 21	1430	3,010	10.08	Apr. 14	0400	4,160	11.52
Jan. 19	2330	*5,510	*13.01	May 12	1430	4,850	12.30

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	68	405	e44	335	304	435	1400	189	149	62	42
2	22	66	519	e38	192	204	410	792	175	111	61	41
3	21	68	374	e34	e130	224	390	561	163	120	57	41
4	25	69	374	e30	e95	230	463	724	161	150	53	41
5	35	65	323	e32	e70	221	723	910	177	125	51	40
6	171	62	280	e35	e66	467	665	887	157	102	49	44
7	109	61	230	e38	e76	310	529	709	160	91	47	44
8	83	74	148	e40	e200	238	491	546	217	87	50	45
9	53	75	172	e45	e600	224	398	716	193	81	121	45
10	42	66	127	e43	e200	226	367	2120	180	75	86	45
11	40	63	92	e41	e250	210	357	3400	155	72	63	45
12	35	274	e90	e40	e150	221	413	4700	165	69	56	45
13	32	222	e98	e41	e80	314	3640	4090	167	66	54	47
14	35	149	e110	e43	e60	890	3880	2690	153	67	50	50
15	56	228	249	e48	e54	1540	2460	1820	135	99	49	64
16	64	285	267	e60	e50	1050	1650	1230	120	130	66	68
17	74	269	199	e100	e48	612	1160	743	111	87	59	66
18	58	272	e160	e1400	e50	511	720	525	122	74	53	228
19	48	376	e130	4440	e60	497	540	438	184	79	49	121
20	44	483	111	5010	e200	1420	530	369	235	93	47	82
21	1700	609	e120	3330	892	1510	507	929	225	74	47	64
22	1410	532	e110	2230	e700	906	416	759	168	67	47	54
23	532	422	e100	1790	e550	694	861	380	150	63	48	55
24	220	338	e90	1910	e700	540	1490	326	126	60	49	51
25	155	240	e82	1800	e600	726	1240	310	159	58	50	57
26	114	244	e74	1220	e500	1500	823	274	136	57	49	55
27	85	247	e68	1250	e380	694	642	252	110	56	49	50
28	83	1120	e70	1100	488	498	485	241	99	53	47	56
29	75	833	e62	708	375	485	484	248	95	51	46	157
30	75	507	e58	551	---	463	1160	224	198	54	45	93
31	68	---	e50	386	---	425	---	206	---	65	44	---
TOTAL	5586	8387	5342	27877	8151	18354	28329	33519	4785	2585	1704	1936
MEAN	180	280	172	899	281	592	944	1081	159	83.4	55.0	64.5
MAX	1700	1120	519	5010	892	1540	3880	4700	235	150	121	228
MIN	21	61	50	30	48	204	357	206	95	51	44	40
CFSM	.54	.83	.51	2.68	.84	1.77	2.82	3.23	.48	.25	.16	.19
IN.	.62	.93	.59	3.10	.91	2.04	3.15	3.72	.53	.29	.19	.21

e Estimated

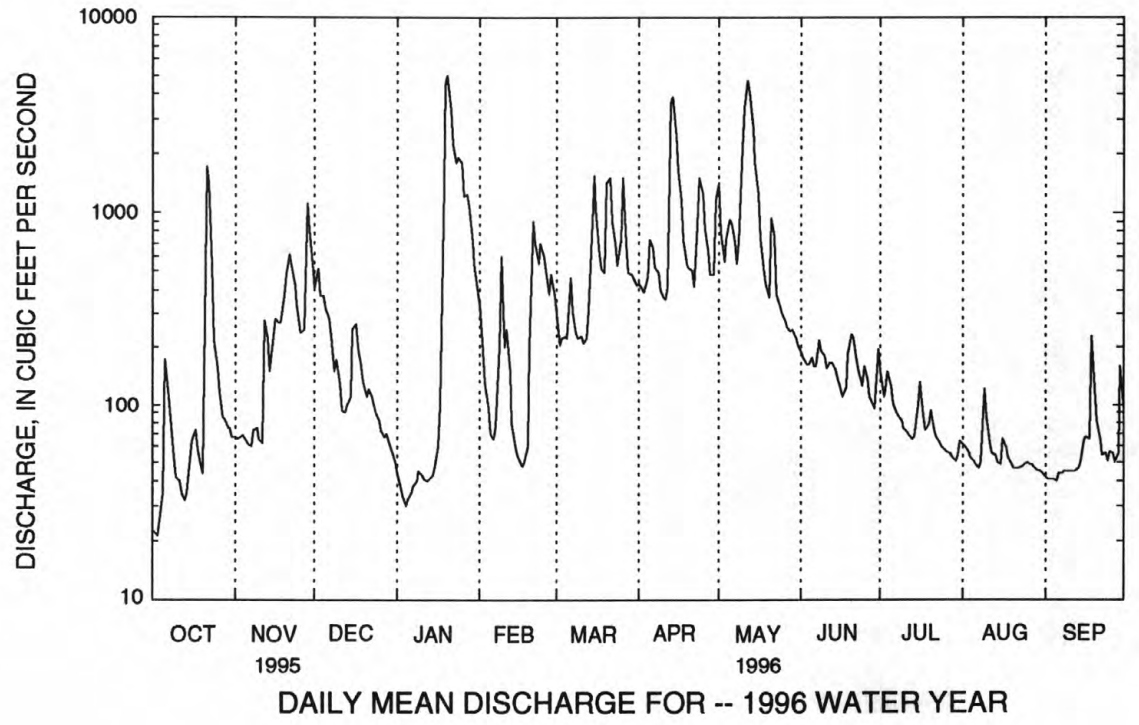
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1996, BY WATER YEAR (WY)

MEAN	147	223	304	302	400	662	673	351	203	105	84.2	108
MAX	601	647	906	899	1452	1575	1537	1081	913	454	297	1162
(WY)	1978	1993	1978	1996	1976	1979	1993	1996	1989	1992	1992	1977
MIN	24.4	31.3	29.9	30.9	74.6	209	231	109	48.1	22.9	19.9	22.6
(WY)	1965	1965	1961	1961	1963	1965	1995	1995	1965	1965	1965	1965

04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY--continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1959 - 1970, 1975 - 1996	
ANNUAL TOTAL	71504		146555			
ANNUAL MEAN	196		400		297	
HIGHEST ANNUAL MEAN					461	1978
LOWEST ANNUAL MEAN					137	1965
HIGHEST DAILY MEAN	2780	Jan 21	5010	Jan 20	5010	Jan 20 1996
LOWEST DAILY MEAN	21	Oct 3	21	Oct 3	8.5	Aug 18 1970
ANNUAL SEVEN-DAY MINIMUM	24	Sep 28	35	Jan 2	15	Jul 26 1965
INSTANTANEOUS PEAK FLOW			5510	Jan 19	5510	Jan 19 1996
INSTANTANEOUS PEAK STAGE			13.01	Jan 19	a13.33	Mar 4 1976
INSTANTANEOUS LOW FLOW			21	b	c4.3	Aug 19 1970
ANNUAL RUNOFF (CFSM)	.58		1.20		.89	
ANNUAL RUNOFF (INCHES)	7.94		16.27		12.05	
10 PERCENT EXCEEDS	414		916		700	
50 PERCENT EXCEEDS	111		149		145	
90 PERCENT EXCEEDS	30		45		38	

a Maximum gage height, 23.62 ft, present datum, May 17, 1916 (backwater from Genesee River).
b Oct. 1, 2, 3.
c Result of temporary regulation.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY

LOCATION.--Lat 42°46'00", long 77°50'21", Livingston County, Hydrologic Unit 04130002, on right bank 100 ft north of Jones Bridge Road, 0.8 mi downstream from Canaseraga Creek, 2.8 mi northeast of Mount Morris, and 63.0 mi upstream from mouth.

DRAINAGE AREA.--1,424 mi^2.

PERIOD OF RECORD.--May 1903 to April 1906, August 1908 to April 1914, July 1915 to current year. Prior to 1968, published as "at Jones Bridge."

REVISED RECORDS.--WSP 1277: 1952. WSP 1387: 1913. WSP 1437: 1955. WSP 2112; WDR NY-82-3: Drainage area. WDR NY-78-1: 1974-77 (M, m).

GAGE.--Water-stage recorder. Datum of gage is 540.12 ft above sea level. Prior to Sept. 11, 1915, nonrecording gage on bridge at datum 2.85 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diurnal fluctuation at low flow caused by powerplant. Flow regulated to some extent by Rushford Lake 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. Telephone and satellite gage-height telemeters at station. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	1450	4300	e600	e7500	4550	2790	4790	e860	632	491	137
2	124	757	4660	e550	e7400	4050	2670	5080	e790	552	378	134
3	96	670	3050	e500	e7000	3310	2470	5560	e740	471	277	168
4	84	745	794	e450	e6900	2460	2290	6020	e720	505	222	131
5	127	772	670	e300	7300	1450	2490	6250	e710	551	248	130
6	360	696	630	e300	e7600	2290	2530	6040	e700	457	234	131
7	565	658	787	e350	e7000	2570	2160	6030	e710	393	201	132
8	567	750	3870	e400	e6000	1950	2060	5980	e1000	363	191	152
9	394	957	4190	e450	e5000	e1550	1840	5460	e960	368	1050	209
10	269	843	3590	e500	e3500	e1500	1750	5940	e920	394	1400	203
11	215	766	2900	e500	e2000	e1450	1770	4320	e900	332	700	263
12	211	2040	1610	e500	e1500	e1200	2100	5200	758	274	482	263
13	128	2910	e1160	e500	e1200	e650	5140	4570	1230	267	345	371
14	159	2810	e1120	e490	e700	1210	4540	5410	1000	258	301	2610
15	198	2750	e1300	e480	e550	2090	2960	6800	706	309	240	1470
16	302	2660	1740	e500	e520	1790	4140	6720	629	470	283	779
17	901	2490	1580	e550	e500	3670	6080	7300	598	604	506	632
18	1110	2230	1390	e3000	e500	4190	7230	7690	620	492	354	1920
19	474	2120	e1500	e6200	e500	4180	7070	7430	813	417	280	2360
20	264	2350	e940	5690	e550	5340	6840	7110	1450	496	244	1140
21	1990	2610	e860	3920	1360	5960	6660	6430	1350	559	252	807
22	2710	2670	1230	3550	2180	5320	6500	5880	1140	481	245	654
23	4610	2480	1460	5720	4170	4550	5600	6680	816	391	215	573
24	5780	2120	1020	3910	6300	3760	4190	7260	761	288	219	546
25	4860	1720	e800	6690	7200	3580	5320	7510	707	296	211	537
26	3440	1630	e750	7540	7350	4440	5140	7030	708	252	212	516
27	2510	1490	e700	6980	6610	4510	6420	6180	603	219	194	447
28	781	1660	e650	7720	5680	4360	6490	4470	500	222	208	430
29	689	2950	e600	8190	4990	3690	5260	2460	456	224	177	2100
30	745	4090	e700	8140	---	3480	3120	e1400	599	220	168	2550
31	1360	---	e600	e7600	---	3090	---	e1000	---	275	107	---
TOTAL	36113	54844	51151	92770	119560	98190	125620	176000	24454	12032	10635	22495
MEAN	1165	1828	1650	2993	4123	3167	4187	5677	815	388	343	750
MAX	5780	4090	4660	8190	7600	5960	7230	7690	1450	632	1400	2610
MIN	84	658	600	300	500	650	1750	1000	456	219	107	130

e Estimated

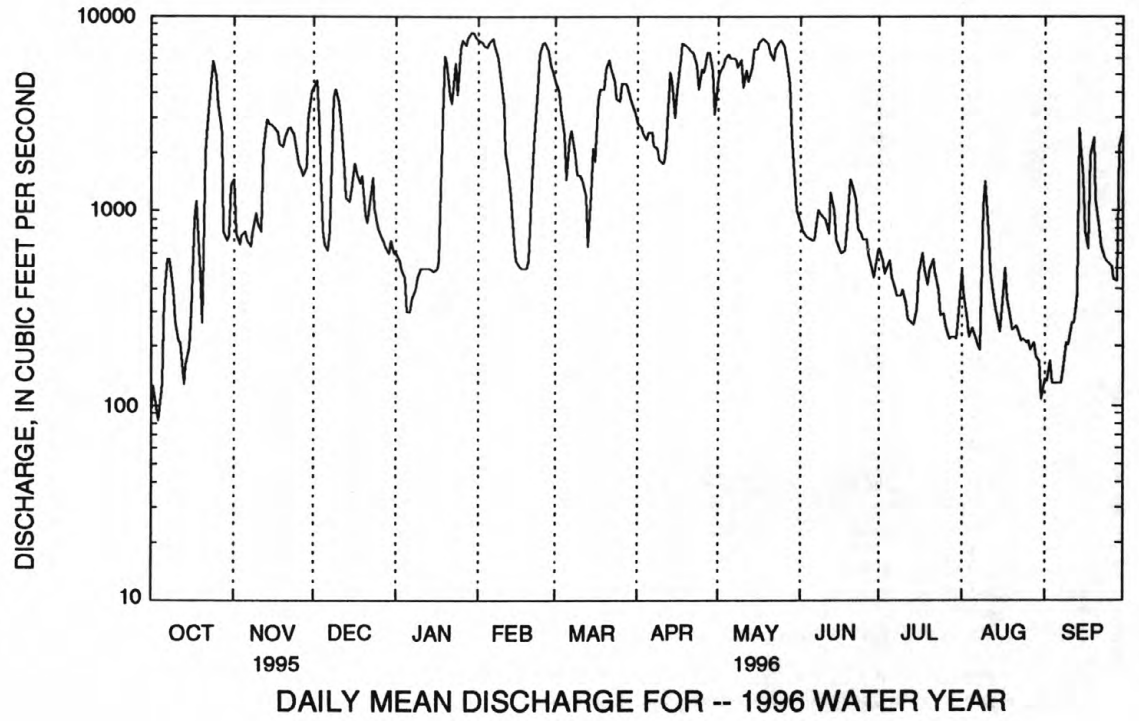
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1996, BY WATER YEAR (WY)

MEAN	822	1316	1738	1819	1891	3923	3921	2123	1124	649	430	474
MAX	4743	5447	6319	5903	5194	10010	9914	6545	4305	6801	2205	4130
(WY)	1978	1928	1928	1913	1925	1936	1940	1919	1989	1972	1977	1977
MIN	107	152	230	135	356	1289	636	410	146	84.3	82.8	99.2
(WY)	1961	1965	1909	1961	1920	1937	1946	1934	1934	1934	1934	1995

04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1903 - 1906, 1908 - 1914, 1915 - 1996	
ANNUAL TOTAL	402804		823864			
ANNUAL MEAN	1104		2251		1687	
HIGHEST ANNUAL MEAN					2641	1916
LOWEST ANNUAL MEAN					972	1934
HIGHEST DAILY MEAN	5780	Oct 24	8190	Jan 29	45700	May 17 1916
LOWEST DAILY MEAN	66	a	84	Oct 4	15	Oct 9 1980
ANNUAL SEVEN-DAY MINIMUM	86	Sep 7	134	Aug 31	54	Sep 2 1934
INSTANTANEOUS PEAK FLOW			8320	Jan 29	55100	May 17 1916
INSTANTANEOUS PEAK STAGE			13.66	Jan 29	b25.80	Mar 13 1920
INSTANTANEOUS LOW FLOW			64	Oct 3	12	Jul 23 1955
10 PERCENT EXCEEDS	2820		6260		4340	
50 PERCENT EXCEEDS	700		1110		810	
90 PERCENT EXCEEDS	119		231		189	

a Sep. 9, 30.
b Ice jam.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04227980 CONESUS LAKE NEAR LAKEVILLE, NY

LOCATION.--Lat 42°47'39", long 77°43'15", Livingston County, Hydrologic Unit 04130003, on west shore of Conesus Lake at Geneseo Water Works pumping station, 300 ft east of State Highway 256, and 3.0 mi south of Lakeville.

DRAINAGE AREA.--69.8 mi^2.

PERIOD OF RECORD.--July 1963 to current year. Since 1930 in files of village of Geneseo.

REVISED RECORDS.--WSP 2112; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level. To convert elevations to adjustment of 1988, subtract 0.53 ft. Oct. 1, 1970 to Sept. 30, 1975, at datum 800.00 ft higher. Prior to Oct. 1, 1970, nonrecording gage at site 200 ft downstream at datum 796.59 ft higher.

REMARKS.--Lake elevation regulated by gates at outlet. Area of water surface, 5.08 mi^2. Daily average of about 2 ft^3/s diverted from lake for water supply for Avon, Geneseo, and Lakeville Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 822.50 ft, June 24, 1972; minimum, 816.11 ft, Dec. 22, 24, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 819.78 ft, May 12; minimum, 817.01 ft, Jan. 16.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	817.46	817.83	817.80	817.13	817.83	818.41	818.34	819.12	818.74	818.72	818.40	817.97
2	817.45	817.84	817.81	817.09	817.84	818.43	818.38	819.04	818.73	818.65	818.39	817.95
3	817.43	817.85	817.83	817.10	817.85	818.46	818.41	818.92	818.73	818.65	818.38	817.93
4	817.44	817.84	817.84	817.08	817.86	818.45	818.47	818.82	818.72	818.65	818.37	817.91
5	817.46	817.83	817.86	817.05	817.86	818.49	818.51	818.75	818.73	818.62	818.36	817.91
6	817.55	817.81	817.86	817.04	817.86	818.47	818.56	818.68	818.71	818.59	818.34	817.91
7	817.59	817.81	817.85	817.03	817.87	818.45	818.62	818.69	818.74	818.58	818.33	817.92
8	817.58	817.80	817.84	817.04	817.87	818.42	818.67	818.72	818.76	818.57	818.34	817.92
9	817.57	817.79	817.84	817.03	817.91	818.37	818.70	818.77	818.77	818.56	818.38	817.91
10	817.56	817.78	817.82	817.04	817.91	818.32	818.73	818.93	818.78	818.53	818.35	817.89
11	817.54	817.78	817.80	817.04	817.93	818.27	818.76	819.32	818.78	818.51	818.33	817.87
12	817.53	817.78	817.79	817.03	817.93	818.20	818.81	819.73	818.81	818.50	818.31	817.86
13	817.52	817.77	817.77	817.03	817.93	818.14	819.08	819.65	818.82	818.48	818.29	817.91
14	817.54	817.76	817.80	817.03	817.92	818.12	819.22	819.37	818.81	818.47	818.27	817.89
15	817.56	817.83	817.78	817.03	817.91	818.22	819.07	819.08	818.80	818.50	818.26	817.83
16	817.53	817.82	817.74	817.03	817.90	818.30	818.90	818.88	818.79	818.53	818.26	817.77
17	817.50	817.79	817.70	817.04	817.88	818.32	818.87	818.86	818.77	818.51	818.24	817.74
18	817.48	817.77	817.65	817.26	817.86	818.32	818.88	818.85	818.77	818.52	818.22	817.75
19	817.47	817.76	817.61	818.08	817.84	818.32	818.91	818.85	818.81	818.57	818.20	817.74
20	817.47	817.76	817.62	818.60	817.84	818.42	818.96	818.83	818.86	818.56	818.19	817.72
21	817.73	817.77	817.57	818.61	817.94	818.57	819.01	818.88	818.75	818.54	818.17	817.70
22	817.84	817.77	817.52	818.52	818.00	818.60	819.03	818.86	818.65	818.52	818.16	817.69
23	817.85	817.75	817.48	818.41	818.05	818.57	819.09	818.83	818.63	818.51	818.15	817.69
24	817.86	817.73	817.43	818.36	818.13	818.52	819.13	818.82	818.66	818.49	818.14	817.67
25	817.86	817.71	817.39	818.34	818.19	818.47	819.00	818.80	818.69	818.49	818.11	817.65
26	817.86	817.69	817.36	818.21	818.24	818.45	818.92	818.80	818.69	818.48	818.08	817.64
27	817.86	817.68	817.32	818.13	818.28	818.37	818.87	818.79	818.69	818.47	818.06	817.63
28	817.85	817.71	817.28	818.05	818.35	818.29	818.82	818.78	818.68	818.45	818.05	817.64
29	817.84	817.75	817.23	817.93	818.39	818.24	818.84	818.77	818.69	818.43	818.03	817.66
30	817.83	817.78	817.19	817.82	---	818.27	818.97	818.75	818.78	818.42	818.01	817.64
31	817.82	---	817.15	817.81	---	818.30	---	818.74	---	818.42	817.98	---
MEAN	817.63	817.78	817.63	817.55	817.97	818.37	818.82	818.93	818.74	818.53	818.23	817.80
MAX	817.86	817.85	817.86	818.61	818.39	818.60	819.22	819.73	818.86	818.72	818.40	817.97
MIN	817.43	817.68	817.15	817.03	817.83	818.12	818.34	818.68	818.63	818.42	817.98	817.63

CAL YR 1995 MEAN 817.93 MAX 818.69 MIN 816.93
WTR YR 1996 MEAN 818.16 MAX 819.73 MIN 817.03

04228500 GENESEE RIVER AT AVON, NY

LOCATION.--Lat 42°55'04", long 77°45'27", Livingston County, Hydrologic Unit 04130003, on right bank 250 ft downstream from bridge on U.S. Highway 20 (State Highway 5), 0.3 mi west of Avon, 0.8 mi downstream from Conesus Creek, and 35.6 mi upstream from mouth.

DRAINAGE AREA.--1,673 mi^2.

PERIOD OF RECORD.--August 1955 to current year.

REVISED RECORDS.--WSP 2112; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 500.11 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diurnal fluctuation at low flow caused by powerplant. Flow regulated to some extent by Rushford Lake, 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. Telephone gage-height telemeter and satellite gage-height and precipitation telemeter at station. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	1420	4250	e750	8020	4960	2960	5320	1060	857	388	189
2	91	1180	4890	e700	8090	4570	2790	5770	968	803	485	209
3	128	677	4220	e600	7730	3780	2640	6030	907	618	392	208
4	115	662	2160	e450	7560	3180	2500	6430	898	596	315	234
5	111	736	889	e350	8010	2010	2470	6920	865	616	292	209
6	194	696	741	e350	8450	1910	2710	6860	886	589	309	207
7	483	644	679	e400	7940	2630	2520	6460	878	486	277	213
8	538	649	2000	e450	7000	2490	2300	6340	900	438	293	224
9	428	865	4120	e500	6060	1900	2120	5990	1080	409	458	235
10	323	883	e3900	e550	4630	e1800	1920	6000	1100	427	1390	280
11	248	769	e3400	e600	2640	e1700	1860	7180	1130	414	1010	266
12	224	1060	e2000	e600	1810	e1400	1920	9220	934	372	634	321
13	207	2550	e1400	e590	e1600	1110	5750	8430	967	335	467	360
14	159	2800	e1200	e590	e1000	1060	9250	7110	1340	329	388	1120
15	191	2790	e1300	e580	e700	2730	6290	7610	948	339	351	2180
16	242	2780	e1900	e600	e650	2760	4550	7620	752	426	304	1200
17	487	2680	e1800	e700	e600	2990	5680	7330	687	529	398	826
18	1080	2500	e1600	e2000	e600	4490	7020	7800	677	638	463	933
19	875	2320	e1600	e7800	e600	4580	7400	7780	722	563	371	2310
20	355	2450	e1100	10800	e700	5390	7230	7470	1330	493	324	1740
21	1080	2770	e1000	8430	e2000	6970	7130	7630	2140	552	303	1040
22	2990	2960	e1000	5500	e2400	6640	6860	6990	1700	548	307	801
23	3990	2810	e1250	6070	e3500	5700	7030	6740	1210	489	305	684
24	5460	2520	e1550	5940	5670	4630	7310	7180	889	412	278	617
25	5510	2100	e1350	7300	7120	4160	6440	7610	852	343	281	606
26	4190	1790	e900	8100	7500	4690	6300	7400	775	359	271	586
27	3130	1720	e800	7960	7260	5100	6420	6800	753	319	271	560
28	1700	1580	e750	8060	6380	5080	7070	5550	617	282	256	513
29	752	2480	e700	8290	5620	4350	6380	3660	543	286	266	842
30	678	3810	e700	8600	---	3760	4500	1590	657	296	244	2410
31	949	---	e800	8090	---	3440	---	1170	---	299	231	---
TOTAL	36995	55651	55949	112300	131840	111960	147320	201990	29165	14462	12322	22123
MEAN	1193	1855	1805	3623	4546	3612	4911	6516	972	467	397	737
MAX	5510	3810	4890	10800	8450	6970	9250	9220	2140	857	1390	2410
MIN	87	644	679	350	600	1060	1860	1170	543	282	231	189

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1996, BY WATER YEAR (WY)

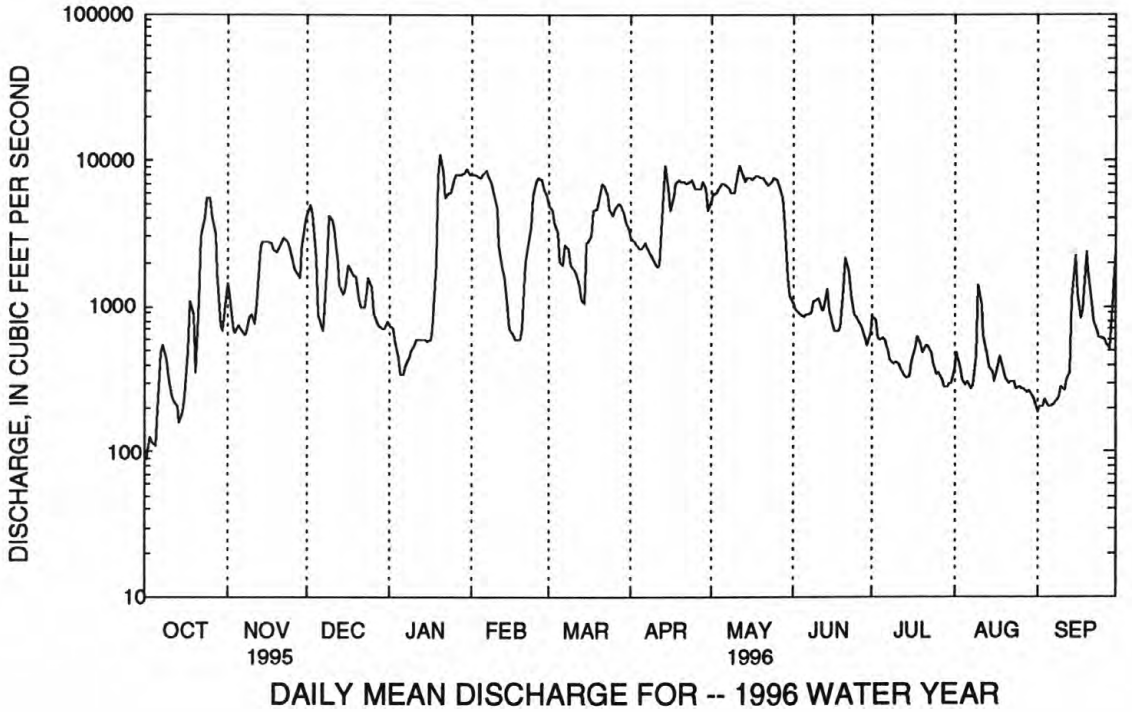
MEAN	1027	1595	2264	1996	2292	4111	4639	2390	1321	823	520	610
MAX	5146	3637	5942	4781	6036	8916	7846	6516	4906	7032	2408	4569
(WY)	1978	1971	1973	1979	1990	1956	1993	1996	1989	1972	1992	1977
MIN	145	182	325	155	397	1813	1672	613	334	172	142	111
(WY)	1964	1965	1961	1961	1958	1960	1995	1985	1991	1962	1965	1955

04228500 GENESEE RIVER AT AVON, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1955 - 1996	
ANNUAL TOTAL	451617		932077			
ANNUAL MEAN	1237		2547		1964	
HIGHEST ANNUAL MEAN					2846	1978
LOWEST ANNUAL MEAN					1130	1965
HIGHEST DAILY MEAN	6330	Jan 21	10800	Jan 20	16200	Jun 25 1972
LOWEST DAILY MEAN	84	Sep 11	87	Oct 1	49	Oct 10 1980
ANNUAL SEVEN-DAY MINIMUM	103	Sep 8	173	Oct 1	88	Aug 1 1955
INSTANTANEOUS PEAK FLOW			11200	Jan 19	16500	Jun 25 1972
INSTANTANEOUS PEAK STAGE			34.24	Jan 19	40.67	Jun 25 1972
INSTANTANEOUS LOW FLOW			79	a	47	b
10 PERCENT EXCEEDS	3200		7140		5390	
50 PERCENT EXCEEDS	780		1150		1090	
90 PERCENT EXCEEDS	129		295		216	

a Oct. 1, 2.

b Oct. 10, 11, 1980.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04229500 HONEOYE CREEK AT HONEOYE FALLS, NY

LOCATION.--Lat 42°57'26", long 77°35'21", Monroe County, Hydrologic Unit 04130003, on right bank 25 ft downstream from bridge on State Highway 65 at Honeoye Falls, and 15.3 mi upstream from mouth.

DRAINAGE AREA.--196 mi^2.

PERIOD OF RECORD.--October 1945 to September 1970, October 1972 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 610.00 ft above sea level. Prior to Sept. 30, 1970, water-stage recorder at same site at datum 609.76 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Outlet of Honeoye Lake not controlled. Some diversion from, and regulation of Hemlock and Canadice Lakes for water supply of city of Rochester. Diurnal fluctuation at low flow caused by mills upstream from station. Prior to 1967 water year, published monthly figures adjusted for change in contents in, and diversion from, Hemlock and Canadice Lakes. During low-water periods the village of Honeoye Falls pumps water from two deep wells with maximum pumping capacity of 600 gal/min (1.33 ft^3/s). This pumped water enters creek upstream from gage. Satellite gage-height telemeter at station. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972, reached a stage of about 6.3 ft, present datum; discharge, about 6,600 ft^3/s, from rating curve extended above 2,700 ft^3/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 20	0200	*2,820	*4.62	May 12	1630	2,420	4.35
Apr. 14	0630	1,540	3.62				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.3	8.0	127	53	132	e140	160	737	91	89	4.8	e1.2
2	e1.0	8.2	137	57	e110	e120	154	590	78	59	6.9	e1.1
3	e.60	8.1	134	e54	e100	e110	144	428	73	52	6.9	e1.1
4	e1.0	9.3	117	e54	e90	e100	155	393	70	147	5.8	e1.0
5	1.8	9.6	110	e58	e75	e100	167	481	65	89	4.7	e1.0
6	2.2	9.0	101	e58	e60	e110	197	491	60	56	3.9	e1.1
7	2.5	9.4	e80	e55	e55	e100	185	471	55	42	3.0	e2.0
8	1.4	9.1	e70	e55	e60	e95	179	390	61	37	4.7	e2.8
9	2.7	11	e65	e55	e100	e95	159	327	70	30	21	e3.2
10	2.8	11	e55	e55	e180	e95	139	409	65	22	18	e3.2
11	2.0	11	e50	e52	e230	e95	127	1200	61	17	e10	e3.0
12	1.4	11	e45	e52	e190	e90	123	2280	56	14	e5.5	e2.5
13	1.3	20	e40	e50	e160	e100	757	2170	72	12	e3.6	e8.0
14	2.1	23	e40	e50	e130	123	1450	1510	62	10	e3.2	e15
15	2.1	32	e60	e55	e110	471	908	1100	51	15	e3.0	e12
16	1.5	36	e100	e65	e95	543	591	849	43	16	e4.0	e10
17	1.3	41	e120	e80	e80	341	449	657	39	19	e3.5	e9.0
18	1.2	47	e110	e300	e75	275	366	524	37	18	e3.0	e20
19	1.1	51	e100	e1900	e70	262	307	439	47	23	e2.6	e25
20	1.2	78	e80	2260	e120	416	286	369	83	21	e2.4	e14
21	93	115	e70	1270	e260	725	311	402	113	19	e2.2	e6.0
22	268	138	e70	770	318	559	255	495	90	15	e2.1	e6.0
23	148	112	e68	587	228	405	342	408	68	11	e2.0	e8.5
24	55	84	e65	586	286	323	857	356	61	9.2	e2.2	e7.8
25	31	63	e65	725	318	321	672	324	52	8.1	e2.2	e6.5
26	21	65	e65	518	e210	394	540	263	49	7.7	e1.8	e6.0
27	16	66	e60	407	192	340	454	220	44	6.6	e1.6	e5.5
28	13	173	e60	344	204	247	382	182	38	5.6	e1.5	e10
29	11	290	59	274	e180	217	328	163	35	4.9	e1.4	e30
30	9.9	187	56	251	---	198	428	128	79	5.9	e1.3	e45
31	8.8	---	53	181	---	176	---	104	---	5.1	e1.2	---
TOTAL	707.20	1735.7	2432	11331	4418	7686	11572	18860	1868	886.1	140.0	267.5
MEAN	22.8	57.9	78.5	366	152	248	386	608	62.3	28.6	4.52	8.92
MAX	268	290	137	2260	318	725	1450	2280	113	147	21	45
MIN	.60	8.0	40	50	55	90	123	104	35	4.9	1.2	1.0

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1996, BY WATER YEAR (WY)

MEAN	41.4	76.2	130	129	161	296	332	177	77.6	32.2	23.6	22.3
MAX	443	345	493	369	664	685	1146	608	344	377	336	538
(WY)	1978	1978	1946	1979	1976	1976	1993	1996	1989	1992	1992	1977
MIN	.45	2.06	2.04	2.15	10.3	107	50.0	23.7	3.19	1.04	.75	.64
(WY)	1964	1961	1961	1961	1958	1965	1946	1995	1995	1955	1949	1964

04229500 HONEOYE CREEK AT HONEOYE FALLS, NY--Continued

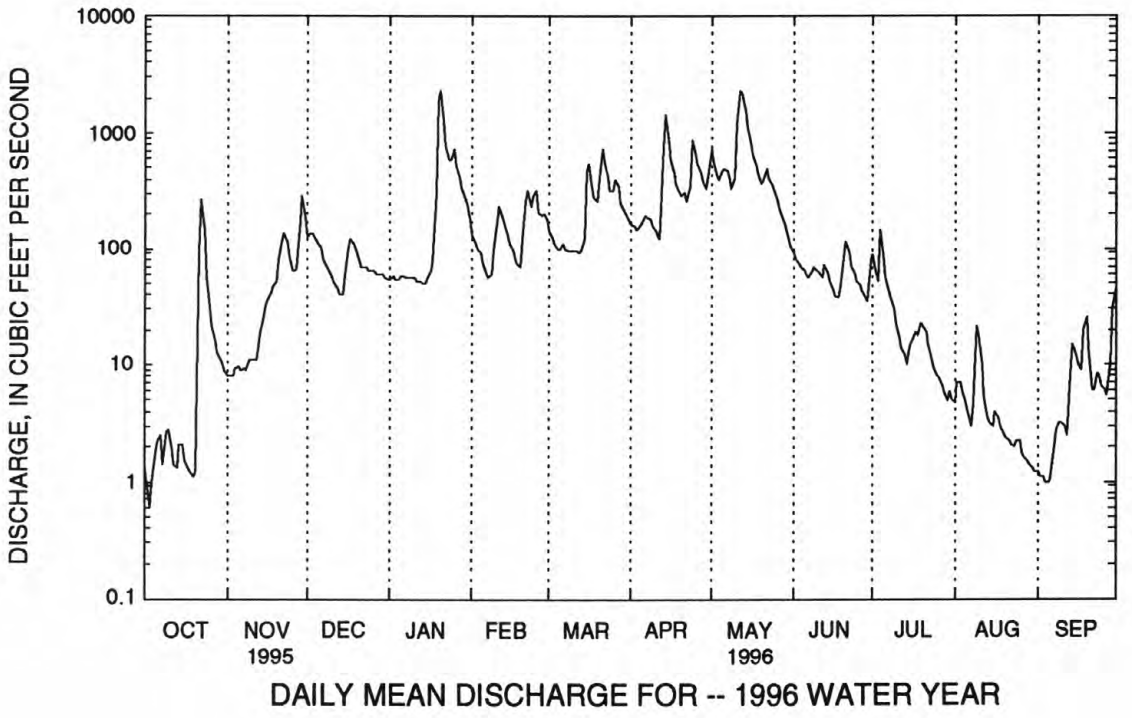
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1946 - 1970 1973 - 1996	
ANNUAL TOTAL	23413.10		61903.50			
ANNUAL MEAN	64.1		169		125	
HIGHEST ANNUAL MEAN					238	1993
LOWEST ANNUAL MEAN					46.4	1965
HIGHEST DAILY MEAN	997	Jan 21	2280	May 12	3820	Apr 2 1993
LOWEST DAILY MEAN	.50	a	e.60	Oct 3	.10	Aug 24 1949
ANNUAL SEVEN-DAY MINIMUM	.58	Aug 23	1.1	Aug 31	.13	Aug 22 1949
INSTANTANEOUS PEAK FLOW			2820	Jan 20	b4630	Mar 28 1950
INSTANTANEOUS PEAK STAGE			4.62	Jan 20	c6.42	Mar 28 1950
INSTANTANEOUS LOW FLOW			Unknown		.06	Aug 28 1949
10 PERCENT EXCEEDS	160		431		325	
50 PERCENT EXCEEDS	25		64		53	
90 PERCENT EXCEEDS	.90		2.5		2.4	

a Aug. 25, 26, 27, Sep. 15.

b From rating curve extended above 2,700 ft^3/s.

c Datum then in use.

e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04230380 OATKA CREEK AT WARSAW, NY

LOCATION.--Lat 42°44'39", long 78°08'16", Wyoming County, Hydrologic Unit 04130003, on right bank 400 ft downstream from bridge on Court Street, Warsaw.

DRAINAGE AREA.--39.1 mi^2.

PERIOD OF RECORD.--December 1963 to current year.

REVISED RECORDS.--WSP 2112; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 987.15 ft above sea level (levels by Corps of Engineers).

REMARKS.--Records good except those for estimated daily discharges, which are fair. Telephone gage-height telemeter and satellite gage-height and precipitation telemeter at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 690 ft^3/s and maximum(*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 21	1000	951	4.31	Apr. 13	1930	1,510	5.39
Jan. 19	1115	*3,770	*9.39	Apr. 23	1730	720	3.49
Mar. 25	2145	892	3.95	May 10	2145	764	3.61
Apr. 13	0415	1,390	5.14	May 12	0130	789	3.68

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	14	111	e20	78	e60	124	188	29	17	13	4.7
2	2.9	27	104	e20	e60	e54	98	137	27	13	9.3	5.0
3	3.0	26	82	e19	e50	e49	90	105	27	16	9.1	4.4
4	4.7	22	107	e19	e44	e48	105	146	28	16	8.6	4.2
5	32	19	59	e19	e40	e48	129	136	34	14	9.3	5.4
6	94	17	48	e18	e36	e48	133	136	27	11	6.2	5.3
7	15	25	35	e18	36	e47	115	92	53	9.8	5.7	6.6
8	10	34	36	e17	89	e47	97	76	73	10	29	6.8
9	7.9	23	31	e17	187	e47	81	97	38	9.6	82	7.1
10	6.8	19	e33	e17	93	e46	87	308	31	8.7	20	5.9
11	7.1	57	e32	e16	161	e45	94	507	27	9.2	14	5.6
12	7.3	135	e30	e16	e60	67	220	487	78	8.0	11	6.8
13	7.0	45	25	e16	e54	55	1110	196	123	7.3	10	25
14	23	42	32	e16	e48	154	400	137	41	7.2	9.3	16
15	30	50	107	e16	e46	217	196	107	29	19	11	13
16	24	48	59	e16	e44	140	161	86	24	13	11	12
17	14	47	41	e48	e43	96	144	75	21	8.7	9.3	24
18	9.5	48	37	e380	e42	94	124	64	25	8.1	8.2	70
19	8.0	64	30	e1700	e40	116	99	54	38	20	7.6	21
20	9.4	75	e32	390	173	145	139	46	40	15	6.9	14
21	458	101	30	249	374	116	106	194	31	9.5	7.1	11
22	103	71	27	176	196	85	99	95	23	7.7	5.8	12
23	43	55	25	144	168	69	411	71	20	7.0	12	13
24	29	46	25	347	232	69	296	71	23	6.5	19	11
25	22	45	e23	224	138	279	225	50	26	9.4	9.0	16
26	18	43	e21	170	115	319	140	44	19	8.8	6.8	13
27	16	59	e20	235	e70	148	111	41	16	7.8	6.5	11
28	15	366	e19	170	e66	120	82	39	14	6.5	6.6	38
29	16	107	e18	149	e64	130	93	37	15	5.7	5.7	39
30	15	62	e18	107	---	120	255	33	27	25	5.2	20
31	14	---	e20	90	---	125	---	31	---	26	4.9	---
TOTAL	1067.5	1792	1317	4859	2847	3203	5564	3886	1027	360.5	379.1	446.8
MEAN	34.4	59.7	42.5	157	98.2	103	185	125	34.2	11.6	12.2	14.9
MAX	458	366	111	1700	374	319	1110	507	123	26	82	70
MIN	2.9	14	18	16	36	45	81	31	14	5.7	4.9	4.2
CFSM	.88	1.53	1.09	4.01	2.51	2.64	4.74	3.21	.88	.30	.31	.38
IN.	1.02	1.70	1.25	4.62	2.71	3.05	5.29	3.70	.98	.34	.36	.43

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1996, BY WATER YEAR (WY)

MEAN	24.0	50.2	68.5	65.2	73.6	125	113	51.4	30.6	16.6	13.8	18.4
MAX	76.7	131	130	234	235	228	185	129	165	116	86.8	166
(WY)	1978	1986	1978	1979	1976	1979	1996	1984	1989	1992	1992	1977
MIN	2.76	5.09	17.2	15.1	22.5	49.2	33.2	16.9	6.36	2.52	2.36	1.81
(WY)	1965	1965	1965	1981	1980	1981	1995	1995	1965	1965	1965	1964

04230380 OATKA CREEK AT WARSAW, NY--continued

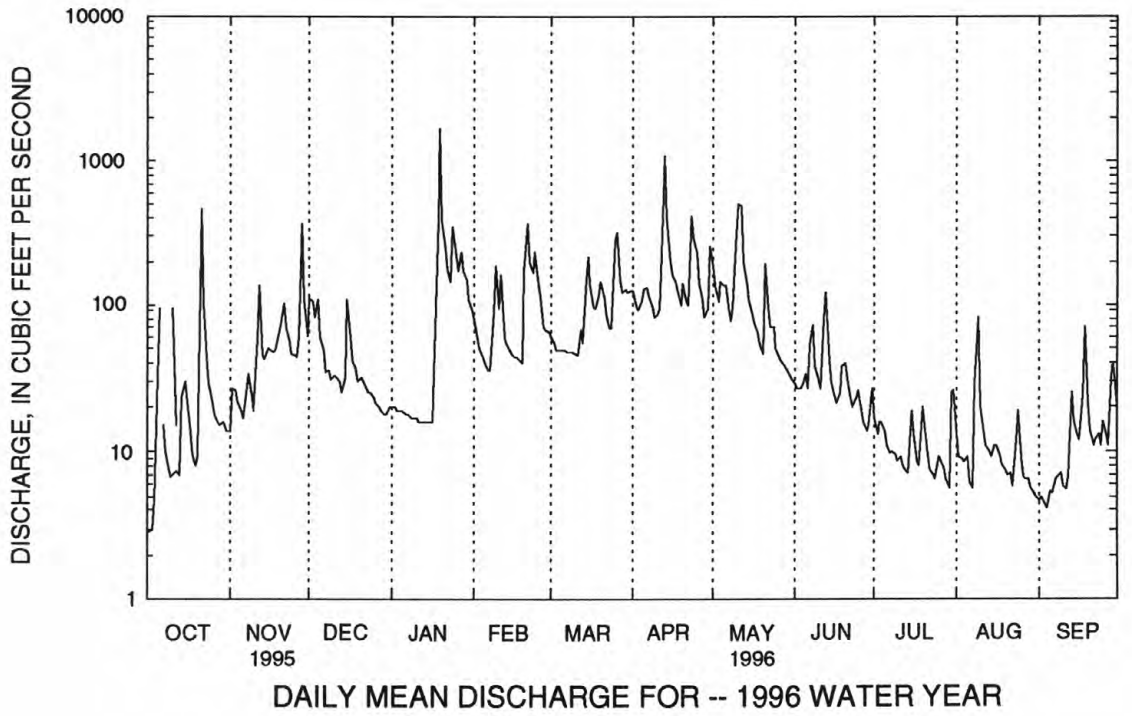
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1964 - 1996	
ANNUAL TOTAL	13643.1		26748.9			
ANNUAL MEAN	37.4		73.1		54.3	
HIGHEST ANNUAL MEAN					73.8	1978
LOWEST ANNUAL MEAN					29.6	1965
HIGHEST DAILY MEAN	717	Jan 20	e1700	Jan 19	1700	Jan 19 1996
LOWEST DAILY MEAN	2.2	Sep 6	2.9	a	1.0	Aug 1 1965
ANNUAL SEVEN-DAY MINIMUM	2.4	Sep 2	4.8	Aug 30	1.4	Jul 26 1965
INSTANTANEOUS PEAK FLOW			3770	Jan 19	b4010	Jun 23 1972
INSTANTANEOUS PEAK STAGE			9.39	Jan 19	9.75	Jun 23 1972
INSTANTANEOUS LOW FLOW			2.9	c	.90	Aug 1 1965
ANNUAL RUNOFF (CFSM)	.96		1.87		1.39	
ANNUAL RUNOFF (INCHES)	12.98		25.45		18.88	
10 PERCENT EXCEEDS	76		161		122	
50 PERCENT EXCEEDS	22		34		28	
90 PERCENT EXCEEDS	3.4		7.3		4.8	

a Oct. 1, 2.

b From rating curve extended above 1,770 ft^3/s on basis of slope-area measurement of peak discharge.

c Oct. 1,2 ,3.

e Estimated.



04230500 OATKA CREEK AT GARBUTT, NY

LOCATION.--Lat 43°00'36", long 77°47'30", Monroe County, Hydrologic Unit 04130003, on right bank 40 ft downstream from bridge on Union Street in Garbutt, 1.5 mi west of Scottsville, and 4.2 mi upstream from mouth.

DRAINAGE AREA.--200 mi^2.

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

REVISED RECORDS.--WSP 2112; WDR NY-82-3: Drainage area. WRD NY 1971: 1960(M). WRD NY 1993: 1991.

GAGE.--Water-stage recorder. Datum of gage is 560.86 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Telephone gage-height telemeter and satellite gage-height and precipitation telemeter at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 20	1000	*2,710	*6.79	May 13	0400	1,840	5.85
Apr. 14	1845	2,630	6.71	June 21	0545	1,670	5.62

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	63	468	109	e280	366	364	666	179	237	95	54
2	26	62	365	110	e240	313	351	734	168	200	101	54
3	25	62	377	101	212	e280	325	634	158	181	93	54
4	25	71	322	92	192	229	315	485	150	169	85	54
5	28	73	322	90	168	242	320	472	152	158	81	52
6	47	70	279	e95	161	e230	377	495	148	147	78	52
7	32	69	222	e100	154	e220	413	476	172	137	76	54
8	55	71	166	100	162	e210	380	407	209	130	84	54
9	34	83	153	100	276	e195	345	361	298	126	81	52
10	30	86	134	100	349	e185	310	422	455	121	100	50
11	29	80	111	98	389	e170	300	943	243	116	119	51
12	28	89	115	97	339	e170	319	1550	315	111	88	51
13	27	203	115	95	305	e180	824	1740	449	108	79	61
14	30	199	117	95	252	e230	2210	1130	431	105	74	58
15	34	167	132	95	224	567	2040	735	263	107	72	53
16	33	161	235	e100	e200	737	1060	534	171	109	70	55
17	30	176	274	108	186	711	721	449	137	106	68	57
18	30	183	221	282	177	504	586	409	123	105	67	118
19	30	198	187	1330	164	425	500	375	126	116	66	127
20	30	236	155	2520	188	455	467	342	552	113	66	105
21	115	313	136	2200	796	495	490	433	1170	106	64	72
22	267	382	134	1150	1110	472	467	665	533	104	64	63
23	324	347	136	742	913	406	655	586	387	97	63	62
24	354	294	133	690	737	365	1330	423	322	93	63	60
25	162	248	131	739	639	379	1400	356	294	89	60	59
26	103	214	128	672	611	709	996	312	266	86	59	59
27	85	206	121	719	461	882	746	278	229	86	57	57
28	77	294	118	e550	407	689	556	251	200	84	57	62
29	70	449	115	e450	432	457	457	227	185	82	57	92
30	66	520	110	e430	---	402	484	209	246	83	56	114
31	65	---	107	365	---	380	---	194	---	84	55	---
TOTAL	2317	5669	5839	14524	10724	12255	20108	17293	8731	3696	2298	1966
MEAN	74.7	189	188	469	370	395	670	558	291	119	74.1	65.5
MAX	354	520	468	2520	1110	882	2210	1740	1170	237	119	127
MIN	25	62	107	90	154	170	300	194	123	82	55	50
CFSM	.37	.94	.94	2.34	1.85	1.98	3.35	2.79	1.46	.60	.37	.33
IN.	.43	1.05	1.09	2.70	1.99	2.28	3.74	3.22	1.62	.69	.43	.37

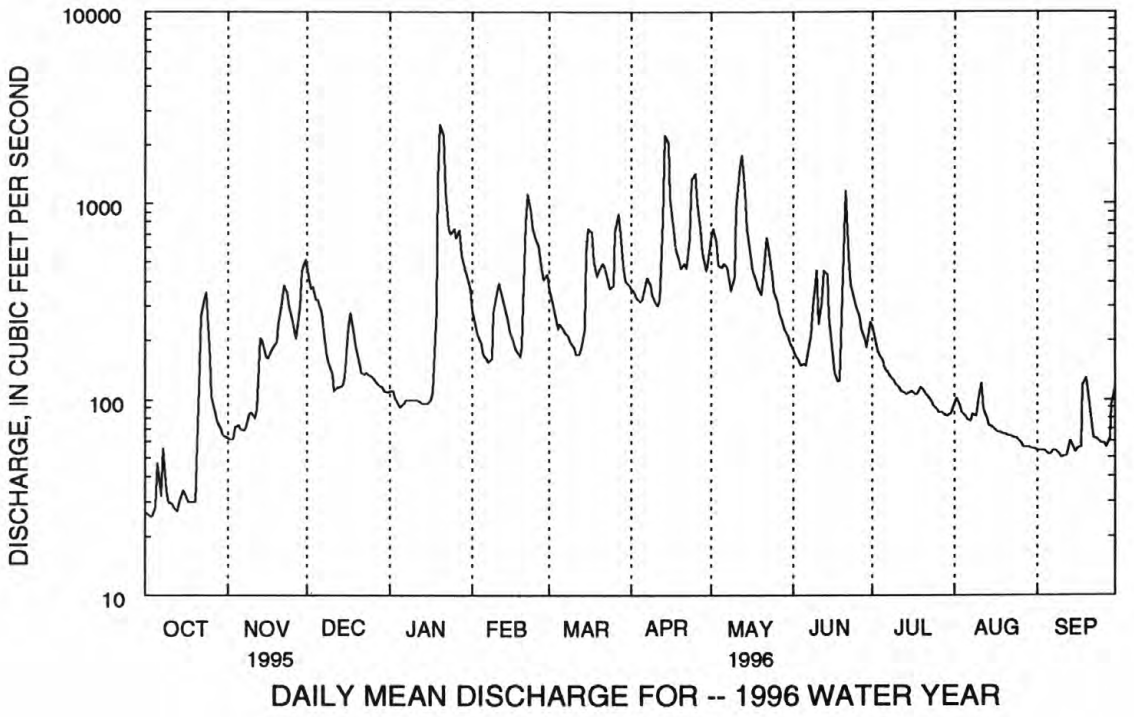
e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1996, BY WATER YEAR (WY)

MEAN	75.0	138	223	228	291	553	511	249	135	73.3	58.9	61.4
MAX	400	567	798	505	868	1048	1069	581	760	249	294	748
(WY)	1978	1986	1978	1993	1976	1956	1947	1984	1989	1972	1992	1977
MIN	18.0	17.2	20.1	22.9	33.4	244	117	99.7	45.6	31.8	22.5	19.2
(WY)	1966	1965	1961	1961	1958	1965	1946	1995	1949	1965	1965	1965

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1946 - 1996	
ANNUAL TOTAL	53713		105420			
ANNUAL MEAN	147		288		216	
HIGHEST ANNUAL MEAN					371	1978
LOWEST ANNUAL MEAN					117	1965
HIGHEST DAILY MEAN	1560	Jan 22	2520	Jan 20	6500	Mar 31 1960
LOWEST DAILY MEAN	25	a	25	a	13	b
ANNUAL SEVEN-DAY MINIMUM	26	Sep 28	30	Oct 1	14	Oct 26 1966
INSTANTANEOUS PEAK FLOW			2710	Jan 20	7050	Mar 31 1960
INSTANTANEOUS PEAK STAGE			6.79	Jan 20	8.64	Mar 31 1960
INSTANTANEOUS LOW FLOW			25	c	3.3	d
ANNUAL RUNOFF (CFSM)	.74		1.44		1.08	
ANNUAL RUNOFF (INCHES)	9.99		19.61		14.67	
10 PERCENT EXCEEDS	322		658		516	
50 PERCENT EXCEEDS	102		170		108	
90 PERCENT EXCEEDS	30		57		30	

a Oct. 3, 4.
b Oct. 30, 31, Nov. 1, 1966.
c Oct. 2, 3, 4, 5.
d Sep. 11, 12, 1958.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04230650 GENESEE RIVER AT BALLANTYNE BRIDGE, NEAR MORTIMER, NY

LOCATION.--Lat 43°05'32", long 77°40'50", Monroe County, Hydrologic Unit 04130003, on right bank 400 ft upstream from Ballantyne Bridge on State Highway 252, 1.6 mi west of Mortimer, and 2.8 mi upstream from Erie (Barge) Canal.

DRAINAGE AREA.--2,210 mi^2.

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORD.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft above sea level.

REMARKS.--River regulated for operation of Erie (Barge) Canal, downstream powerplants, and at high stages by Mount Morris Lake (see station 04224000). Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 19.93 ft, Apr. 2-3, 1993; minimum recordable, 8.20 ft, Nov. 9, 1979, result of regulation.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 17.27 ft, Jan. 20; minimum, 9.53 ft, Dec. 14.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.88	11.26	12.52	11.61	13.85	13.11	12.63	12.85	11.52	11.85	11.47	11.14
2	10.90	11.50	12.83	11.54	13.97	12.90	12.33	13.59	11.65	11.56	11.71	11.22
3	10.94	10.94	12.86	11.35	14.01	12.57	12.28	13.74	11.70	11.53	11.60	11.27
4	10.88	10.78	11.56	11.49	13.83	12.01	12.05	13.72	11.80	11.60	11.68	11.28
5	10.44	10.81	10.90	11.37	13.93	11.72	11.97	13.97	11.65	11.49	11.67	11.32
6	10.12	10.62	10.77	11.22	14.13	11.60	12.22	14.04	11.40	11.50	11.56	11.31
7	10.72	10.54	10.83	11.65	14.24	12.34	12.09	13.84	11.72	11.65	11.45	11.17
8	10.83	11.04	10.69	11.80	13.56	12.71	11.97	13.62	11.73	11.57	11.55	11.29
9	10.85	11.01	12.59	11.45	12.82	12.19	11.76	13.48	11.73	11.38	11.44	11.33
10	10.79	10.95	11.94	11.34	12.63	11.86	11.63	13.48	11.89	11.32	11.71	11.49
11	10.80	10.27	10.81	11.52	11.95	11.57	11.79	14.78	11.88	11.37	11.61	11.58
12	10.72	10.35	11.81	11.63	10.99	11.37	12.05	16.36	11.83	11.26	11.27	11.65
13	10.75	11.84	11.77	11.69	11.11	10.71	13.86	16.99	12.01	11.30	11.16	11.65
14	10.79	12.47	9.95	11.70	10.78	10.57	16.66	15.79	12.06	11.39	11.28	11.53
15	10.71	12.23	10.10	11.70	10.59	12.23	15.94	14.99	11.78	11.39	11.55	12.02
16	10.71	12.25	10.53	11.41	10.57	13.05	13.82	14.59	11.63	11.50	11.71	11.40
17	10.76	12.06	10.43	11.34	10.70	12.53	13.58	14.22	11.66	11.62	11.52	11.36
18	10.95	11.54	10.47	12.05	10.58	13.11	13.96	14.34	11.60	11.58	11.51	11.25
19	10.88	10.84	10.77	14.90	10.38	13.15	14.12	14.32	11.46	11.60	11.50	11.99
20	10.93	10.91	11.27	16.96	10.47	13.39	13.96	14.10	12.02	11.41	11.44	11.60
21	10.97	11.92	11.21	16.65	11.67	14.19	13.92	14.24	12.88	11.78	11.45	11.50
22	11.85	12.17	10.89	14.42	12.73	14.19	13.78	14.48	12.45	11.49	11.47	11.54
23	11.91	11.94	11.12	13.42	13.22	13.52	14.10	14.11	11.88	11.58	11.45	11.27
24	11.91	12.00	11.29	13.58	14.05	12.96	14.89	14.13	11.90	11.60	11.24	11.27
25	11.92	11.66	10.82	14.26	14.52	12.96	14.89	14.15	11.66	11.60	11.21	11.44
26	11.92	11.50	10.25	14.62	14.64	13.48	14.65	14.03	11.72	11.71	11.30	11.51
27	11.68	11.53	10.38	14.72	14.41	13.60	13.97	13.72	11.60	11.46	11.26	11.69
28	11.03	11.54	10.95	14.49	13.83	13.46	13.93	13.19	11.48	11.43	11.23	11.39
29	11.08	12.15	11.08	14.40	13.46	12.92	13.39	12.53	11.44	11.49	11.22	11.49
30	11.03	12.23	11.26	14.51	---	12.76	12.40	11.62	11.75	11.56	11.24	11.97
31	11.10	---	11.47	14.13	---	12.83	---	11.47	---	11.42	11.13	---
MEAN	11.02	11.43	11.17	12.87	12.68	12.63	13.35	14.02	11.78	11.52	11.44	11.46
MAX	11.92	12.47	12.86	16.96	14.64	14.19	16.66	16.99	12.88	11.85	11.71	12.02
MIN	10.12	10.27	9.95	11.22	10.38	10.57	11.63	11.47	11.40	11.26	11.13	11.14

CAL YR 1995 MEAN 11.14 MAX 14.93 MIN 9.46
WTR YR 1996 MEAN 12.11 MAX 16.99 MIN 9.95

04231000 BLACK CREEK AT CHURCHVILLE, NY

LOCATION.--Lat 43°06'02", long 77°52'57", Monroe County, Hydrologic Unit 04130003, on right bank at east end of Carrol Street in Churchville, 100 ft downstream from mainline tracks of Penn Central Transportation Co., and 0.3 mi downstream from Black Creek Dam.

DRAINAGE AREA.--130 mi^2.

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

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 551.88 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Prior to May 1952, small diversion by Penn Central Transportation Co. and slight regulation by pumping operations upstream from station. Telephone gage-height telemeter and satellite gage-height and precipitation telemeter at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 20	1000	1,620	6.72	Apr. 25	0230	1,290	5.98
Feb. 22	0230	1,050	5.41	May 13	0530	1,160	5.67
Apr. 15	0100	1,340	6.10	June 22	0100	*2,100	*7.69

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	20	155	48	e120	188	151	357	75	232	68	9.2
2	3.5	28	121	48	e100	161	142	402	71	181	66	8.5
3	1.3	35	121	e46	e90	152	133	292	68	118	53	8.4
4	4.0	31	107	e46	e75	108	138	228	85	100	43	8.0
5	7.1	24	94	e50	e60	110	152	205	96	93	38	7.2
6	23	21	83	e49	e50	105	174	196	81	80	31	9.1
7	29	23	56	e50	e46	e90	204	180	85	70	26	16
8	22	29	61	e50	53	e90	197	162	116	63	49	27
9	15	33	55	e50	94	e88	185	148	126	58	94	28
10	11	31	42	e50	158	e84	157	221	120	57	76	28
11	8.8	33	e40	e48	192	e80	136	529	180	54	49	26
12	7.3	56	e36	48	e160	84	137	1010	198	51	37	22
13	6.3	98	33	46	e140	94	374	1080	244	50	33	48
14	10	84	34	e45	e110	141	1010	661	203	48	29	78
15	12	98	50	51	e95	331	1170	361	108	54	27	67
16	19	124	87	56	e80	563	609	252	68	73	29	60
17	20	123	101	65	e70	477	379	203	54	69	28	56
18	14	105	94	164	e65	327	298	179	53	53	25	94
19	10	109	79	796	e60	259	252	160	99	75	21	112
20	9.5	151	63	1480	122	271	241	146	562	105	20	83
21	76	198	54	1290	642	344	280	328	1440	81	18	44
22	128	230	56	651	973	357	312	499	1930	58	17	45
23	220	251	54	318	642	286	479	447	1090	47	18	66
24	169	194	53	302	454	232	1040	310	465	41	19	63
25	68	125	53	334	395	229	1150	257	259	40	19	54
26	44	94	53	456	330	275	666	186	193	37	16	50
27	35	88	50	403	248	375	422	144	146	34	13	42
28	30	e100	49	e300	231	300	309	118	113	32	13	58
29	26	144	48	e220	e210	204	244	100	102	30	11	129
30	23	189	46	e180	---	177	268	89	207	44	10	161
31	20	---	46	e150	---	161	---	81	---	66	9.4	---
TOTAL	1076.8	2869	2074	7890	6065	6743	11409	9531	8637	2194	1005.4	1507.4
MEAN	34.7	95.6	66.9	255	209	218	380	307	288	70.8	32.4	50.2
MAX	220	251	155	1480	973	563	1170	1080	1930	232	94	161
MIN	1.3	20	33	45	46	80	133	81	53	30	9.4	7.2
CFSM	.27	.74	.51	1.96	1.61	1.67	2.93	2.37	2.21	.54	.25	.39
IN.	.31	.82	.59	2.26	1.74	1.93	3.26	2.73	2.47	.63	.29	.43

e Estimated

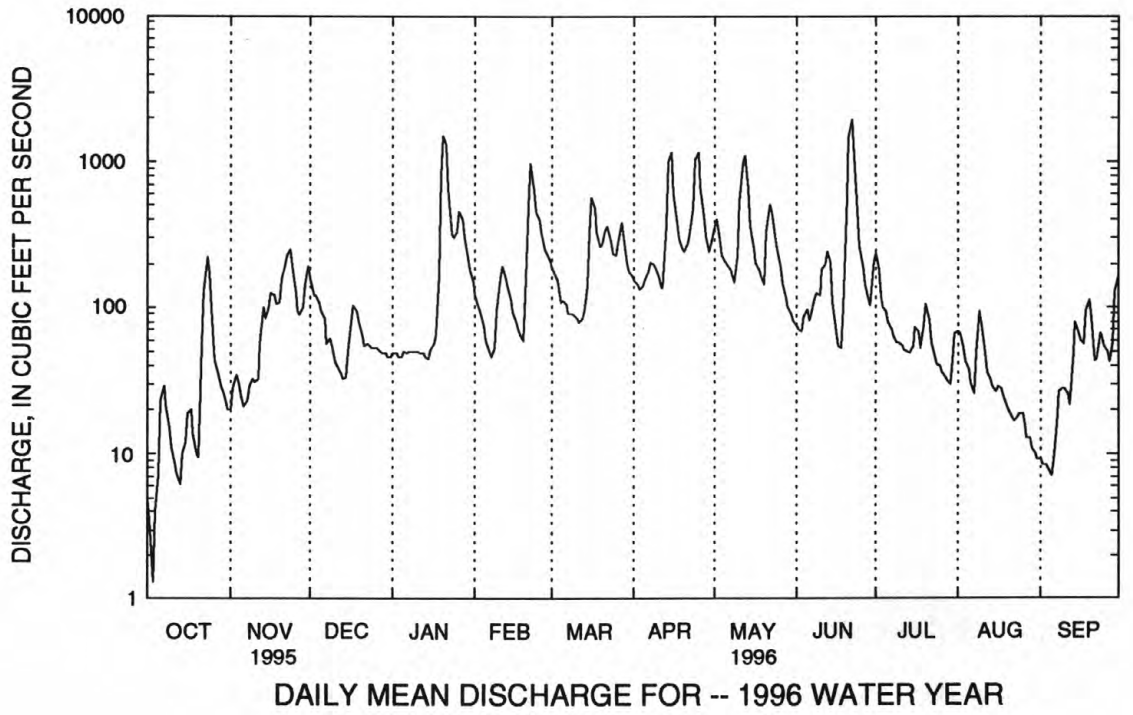
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1996, BY WATER YEAR (WY)

MEAN	37.7	75.8	124	125	182	332	258	126	63.9	26.3	21.6	25.8
MAX	235	405	497	375	460	664	497	325	348	143	201	284
(WY)	1946	1971	1978	1993	1981	1971	1947	1956	1989	1992	1992	1977
MIN	2.61	6.07	5.68	6.15	15.4	122	51.6	38.1	10.7	3.75	2.55	1.66
(WY)	1964	1965	1961	1961	1958	1989	1946	1949	1949	1965	1965	1959

04231000 BLACK CREEK AT CHURCHVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1946 - 1996	
ANNUAL TOTAL	26689.11		61001.6			
ANNUAL MEAN	73.1		167		116	
HIGHEST ANNUAL MEAN					207	1978
LOWEST ANNUAL MEAN					52.3	1953
HIGHEST DAILY MEAN	1420	Jan 22	1930	Jun 22	4120	Mar 31 1960
LOWEST DAILY MEAN	.75	a	1.3	Oct 3	.30	Aug 5 1959
ANNUAL SEVEN-DAY MINIMUM	.87	Aug 23	8.5	Aug 31	.47	Aug 3 1959
INSTANTANEOUS PEAK FLOW			2100	Jun 22	4880	Mar 31 1960
INSTANTANEOUS PEAK STAGE			7.69	Jun 22	9.44	Mar 31 1960
INSTANTANEOUS LOW FLOW			1.0	Oct 3	.22	Aug 19 1970
ANNUAL RUNOFF (CFSM)	.56		1.28		.89	
ANNUAL RUNOFF (INCHES)	7.64		17.46		12.14	
10 PERCENT EXCEEDS	157		365		289	
50 PERCENT EXCEEDS	40		85		48	
90 PERCENT EXCEEDS	3.7		20		6.7	

a Aug. 25, 26, 27.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04232000 GENESEE RIVER AT ROCHESTER, NY

LOCATION.--Lat 43°10'50", long 77°37'40", Monroe County, Hydrologic Unit 04130003, on right bank 40 ft downstream from Rochester Gas and Electric Corporation plant, 5,100 ft upstream from bridge on Driving Park Avenue in Rochester, and 6.4 mi upstream from mouth.

DRAINAGE AREA.--2,467 mi^2.

PERIOD OF RECORD.--April 1904 to September 1918, December 1919 to current year. Published as "at Driving Park Avenue," 1919-68.

REVISED RECORDS.--WSP 1912; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 244.24 ft (revised) above sea level (245.00 ft, Barge Canal datum). April 1904 to December 1910, nonrecording gage and December 1910 to September 1918, water-stage recorder at site 5 mi upstream at datum 506.85 ft, 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 3.00 ft higher. June 20, 1956 to Sept. 30, 1985, at present site at datum 2.00 ft higher.

REMARKS.--Records fair. Extensive diurnal fluctuation caused by powerplants upstream from station. New York State Erie (Barge) Canal crosses river 5.4 mi 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, Mount Morris Lake (see station 04224000), and Conesus Lake (see station 04227980).

EXTREMES OUTSIDE PERIOD OF RECORD.--Discharge on Mar. 18, 1865, was about 54,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	348	1820	5200	1250	8000	6520	4260	6300	1780	2010	620	280
2	355	1880	5390	1150	7910	5790	3950	7830	1530	2030	780	268
3	380	1660	5310	1050	7570	5090	3740	8220	1540	1360	872	338
4	621	1370	3580	834	7310	4010	3530	8260	1490	1360	575	348
5	926	1400	1750	631	7150	3100	3410	8500	1650	1360	683	324
6	971	1180	1540	511	7670	2400	3780	8840	1620	1180	646	352
7	605	676	1320	579	7890	3230	3790	8360	1330	911	574	359
8	1010	1010	1600	865	7940	3190	3440	7970	1770	1030	754	412
9	853	1070	4330	1070	7140	2370	3270	7530	1920	1030	1070	350
10	712	1280	4750	937	5910	2260	2850	7540	2030	782	1450	342
11	721	1110	3410	868	4260	2410	2680	10300	2020	847	1970	324
12	533	1080	2090	892	2970	2480	2740	13200	2320	864	1040	389
13	535	2370	1870	869	1910	2130	6550	14200	2590	647	802	858
14	684	3350	1400	937	1550	1720	13900	12000	2920	688	486	1010
15	693	3480	1600	1010	1460	3850	12600	10700	2250	762	374	2530
16	616	3410	2180	1100	1190	5340	8840	10100	1630	743	512	1960
17	728	3420	2600	1130	1150	5190	8140	9240	1250	849	655	1130
18	1400	3350	2080	2290	1130	6080	8510	9340	1280	1100	636	1270
19	1450	3180	1980	9800	1050	6240	8730	9490	1450	1060	518	2300
20	728	2950	1490	13100	1330	6840	8520	9200	2410	1040	544	2690
21	2200	3730	1360	13000	3690	8920	8640	9320	5340	788	439	1430
22	4240	4160	1370	9700	5230	8800	8510	9640	5610	1180	424	968
23	4730	4020	1580	8180	5890	7650	9100	9000	4700	678	513	1150
24	6330	3450	1900	8600	7860	6230	11500	8820	3530	726	535	745
25	6300	3030	1710	9390	9040	5620	10800	8790	2670	601	451	634
26	5520	2430	1320	9890	8930	6090	10400	8620	1950	729	453	617
27	4140	2360	1150	9930	8750	7240	9190	7990	1820	778	458	497
28	2770	2150	1180	9620	8070	6900	9130	7010	1530	619	412	1310
29	1420	3400	1120	9500	7210	6000	7710	5290	1250	529	318	1000
30	1240	4670	1170	9340	---	5000	5990	3070	1710	615	369	2620
31	1400	---	1290	8790	---	4640	---	1980	---	739	346	---
TOTAL	55159	74446	70620	146813	157160	153330	208200	266650	66890	29635	20279	28805
MEAN	1779	2482	2278	4736	5419	4946	6940	8602	2230	956	654	960
MAX	6330	4670	5390	13100	9040	8920	13900	14200	5610	2030	1970	2690
MIN	348	676	1120	511	1050	1720	2680	1980	1250	529	318	268

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1996, BY WATER YEAR (WY)

MEAN	1445	2137	2767	2851	3203	6223	6032	3556	2065	1309	978	1011
MAX	7095	7383	9973	8830	9157	14300	14160	10230	7311	8524	3927	6722
(WY)	1978	1928	1928	1913	1925	1945	1940	1943	1972	1972	1992	1977
MIN	338	436	502	152	560	2213	1561	1140	479	350	229	199
(WY)	1914	1910	1910	1961	1920	1937	1946	1915	1915	1913	1913	1913

04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1904 - 1918, 1920 - 1996	
ANNUAL TOTAL	647998		1277987			
ANNUAL MEAN	1775		3492		2816	
HIGHEST ANNUAL MEAN					4426	1978
LOWEST ANNUAL MEAN					1666	1965
HIGHEST DAILY MEAN	10000	Jan 22	14200	May 13	46300	Mar 31 1916
LOWEST DAILY MEAN	e240	Sep 21	268	Sep 2	91	a
ANNUAL SEVEN-DAY MINIMUM	284	Sep 15	322	Aug 31	104	Jan 26 1961
INSTANTANEOUS PEAK FLOW			17300	Apr 14	b48300	Mar 30 1916
INSTANTANEOUS PEAK STAGE			14.32	Apr 14	c17.08	Apr 2 1940
INSTANTANEOUS LOW FLOW			88	Sep 27	d	
10 PERCENT EXCEEDS	4140		8830		6810	
50 PERCENT EXCEEDS	1240		1960		1570	
90 PERCENT EXCEEDS	336		565		580	

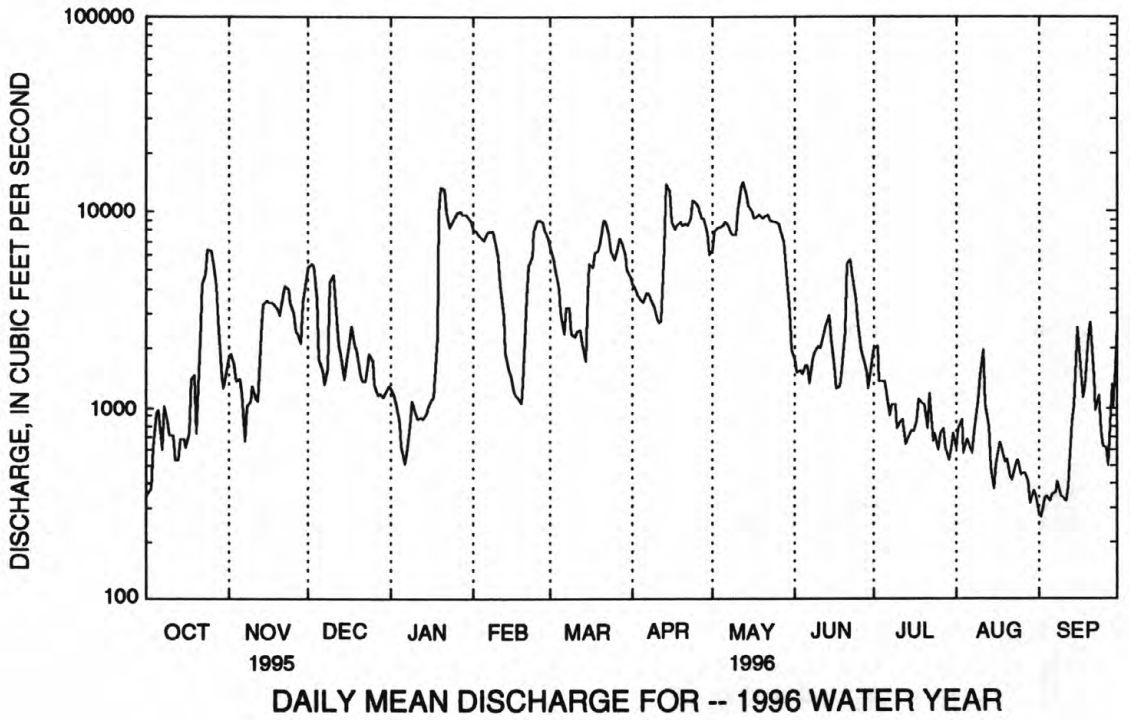
a Jan. 9, 29, Feb. 1, 8, 1961.

b Site then in use; maximum at present site, 34,400 ft^3/s, Mar. 19, 1942.

c Datum then in use.

d Minimum discharge, less than 10 ft^3/s, occurred during low-water periods in some years when powerplant was shut down.

e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY

LOCATION.--Lat 43°01'40", long 77°28'42", Ontario County, Hydrologic Unit 04140101, on right bank 90 ft upstream from bridge on Railroad Mills Road, 1.5 mi northwest of Fishers, and 4.0 mi southwest of Fairport.

DRAINAGE AREA.--39.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 450 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Unpublished water-quality records for prior years are available in files of Monroe County Department of Health. Several measurements of water temperature were made during the year.

COOPERATION.--Gage-height record and discharge measurements were provided by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 19	1300	*532	*8.98	May 12	1530	382	7.89
Apr. 14	0700	442	8.34	June 23	0745	340	7.56

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	e14	34	e15	e26	36	33	88	e20	64	21	e9.0
2	10	19	42	e15	e23	e31	32	59	e19	42	21	e9.5
3	9.7	19	31	e10	e20	e28	32	49	e18	38	21	e10
4	11	18	e29	e16	e19	e26	37	50	e18	39	18	e10
5	17	18	e26	e18	e18	e24	38	57	e21	34	17	e11
6	41	18	e24	e20	e19	e21	43	56	e20	30	16	e12
7	29	24	e21	e20	e20	e20	40	47	36	27	15	15
8	17	27	e19	e18	e26	e18	47	40	42	26	33	18
9	12	23	e16	e20	44	e17	38	43	58	25	41	18
10	11	20	e14	e18	38	e16	34	62	50	24	23	16
11	10	21	e13	e22	51	e16	32	148	37	35	20	15
12	9.7	30	e12	e20	34	e18	35	328	80	32	18	15
13	9.5	25	e14	e19	e34	e24	198	133	80	31	17	53
14	12	25	e18	e18	e26	48	303	67	39	25	16	40
15	16	53	41	e20	e22	140	90	58	32	39	16	24
16	14	51	38	e30	e18	115	62	51	31	59	17	21
17	12	42	e27	41	e16	66	63	43	31	40	16	27
18	11	40	e22	165	e18	61	61	39	31	36	15	59
19	11	63	e20	450	e24	62	50	37	72	43	15	27
20	11	72	e20	262	49	97	58	33	106	62	14	23
21	152	80	e22	84	166	132	57	102	100	35	14	e20
22	105	78	e19	58	80	81	46	76	125	e26	13	e21
23	36	52	e18	53	56	61	127	47	222	e21	14	e21
24	23	39	e18	115	74	51	239	51	75	19	17	e18
25	18	31	e17	120	58	60	112	39	62	20	15	e16
26	17	30	e16	60	46	70	77	33	52	23	14	e16
27	15	32	e16	67	40	45	59	31	46	20	13	e18
28	e14	59	e17	e56	54	39	47	e29	40	19	e12	22
29	e13	53	e16	e44	45	39	45	e26	37	19	e11	29
30	e13	33	e15	e36	---	36	68	e24	94	24	e11	24
31	e12	---	e16	e32	---	34	---	e22	---	23	e10	---
TOTAL	702.9	1109	671	1942	1164	1532	2203	1968	1694	1000	534	637.5
MEAN	22.7	37.0	21.6	62.6	40.1	49.4	73.4	63.5	56.5	32.3	17.2	21.2
MAX	152	80	42	450	166	140	303	328	222	64	41	59
MIN	9.5	14	12	10	16	16	32	22	18	19	10	9.0
CFSM	.58	.94	.55	1.60	1.02	1.26	1.87	1.62	1.44	.82	.44	.54
IN.	.67	1.05	.64	1.84	1.10	1.45	2.09	1.87	1.61	.95	.51	.60

e Estimated

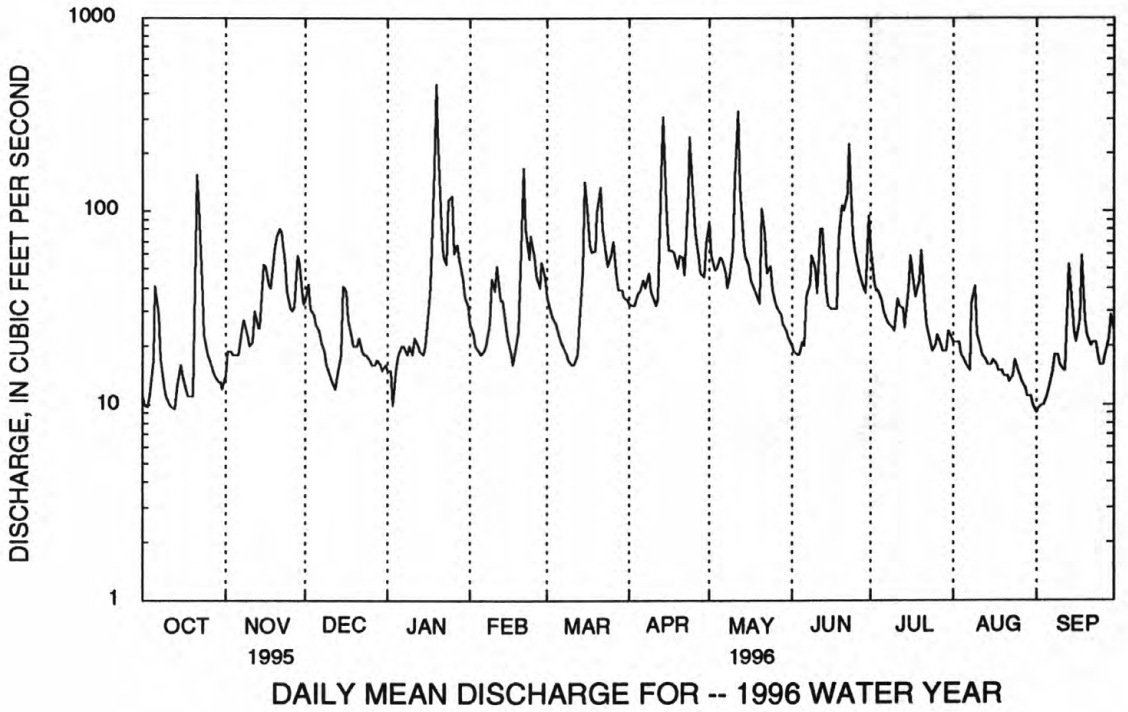
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1996, BY WATER YEAR (WY)

MEAN	23.4	37.4	36.4	45.9	34.8	69.6	76.8	41.5	28.7	23.9	22.4	20.0
MAX	39.5	67.5	66.1	74.6	42.5	98.0	143	63.5	56.5	52.5	58.0	35.8
(WY)	1993	1993	1993	1993	1994	1993	1993	1996	1996	1992	1992	1992
MIN	14.1	17.6	21.6	25.4	27.8	47.3	27.4	20.2	12.3	13.4	9.03	9.92
(WY)	1992	1992	1996	1994	1995	1995	1995	1995	1995	1991	1995	1995

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY,--continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1991 - 1996	
ANNUAL TOTAL	8822.8		15157.4			
ANNUAL MEAN	24.2		41.4		38.9	
HIGHEST ANNUAL MEAN					53.5	1993
LOWEST ANNUAL MEAN					24.7	1995
HIGHEST DAILY MEAN	223	Jan 21	450	Jan 19	553	Apr 2 1993
LOWEST DAILY MEAN	7.5	a	e9.0	Sep 1	7.5	b
ANNUAL SEVEN-DAY MINIMUM	7.6	Aug 20	10	Aug 29	7.6	Aug 20 1995
INSTANTANEOUS PEAK FLOW			532	Jan 19	588	Apr 2 1993
INSTANTANEOUS PEAK STAGE			8.98	Jan 19	9.36	Apr 2 1993
INSTANTANEOUS LOW FLOW			Unknown		6.8	Aug 21 1995
ANNUAL RUNOFF (CFSM)	.62		1.06		.99	
ANNUAL RUNOFF (INCHES)	8.37		14.38		13.48	
10 PERCENT EXCEEDS	41		76		70	
50 PERCENT EXCEEDS	19		28		25	
90 PERCENT EXCEEDS	9.5		14		13	

a Aug. 24, 25.
b Aug. 24, 25, 1995.
e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY,--continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1991 to current year.
CHEMICAL DATA: 1991-96 (e).
NUTRIENT DATA: 1991-96 (e).
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: February 1995 to current year.
INSTRUMENTATION.--Water-quality monitor since July 1991. Water temperature recorder since February 1995 provides 15-minute-interval readings.
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.
EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURES: Maximum, 22.5°C, July 15, 1995; minimum 0.0°C, many days during winter period.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 21.0°C, June 30, July 1; minimum 0.0°C, many days during winter period.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	13.0	11.5	12.0	9.5	8.0	8.5	4.0	2.0	3.5	3.0	2.0	2.5
2	14.0	12.5	13.0	11.5	9.5	10.5	4.0	2.5	3.0	2.0	.5	1.0
3	13.5	13.0	13.5	11.5	9.5	11.0	4.5	2.0	3.0	.5	.0	.0
4	13.0	13.0	13.0	9.5	6.5	7.5	4.5	3.0	4.0	.0	.0	.0
5	13.0	12.5	12.5	6.5	5.5	6.0	3.5	2.0	3.0	.0	.0	.0
6	14.5	13.0	14.0	6.0	5.0	5.5	3.5	2.5	3.0	.0	.0	.0
7	14.5	14.0	14.5	6.0	5.0	5.5	2.5	1.0	1.5	.0	.0	.0
8	14.5	13.0	13.5	6.0	5.0	5.5	1.5	.5	1.0	.0	.0	.0
9	13.5	12.0	12.5	5.0	3.5	4.0	2.0	1.0	1.5	.0	.0	.0
10	12.5	10.5	11.5	5.5	4.0	4.5	1.0	.0	.0	.0	.0	.0
11	13.0	11.0	12.0	8.0	5.5	7.0	.0	.0	.0	.0	.0	.0
12	13.0	11.5	12.0	8.0	5.0	6.0	.0	.0	.0	1.0	.0	.5
13	14.0	12.0	13.0	5.0	4.0	4.5	.0	.0	.0	1.5	.5	1.0
14	13.0	12.5	13.0	4.5	3.0	4.0	1.5	.0	.5	2.5	1.5	2.0
15	13.0	11.5	12.0	3.0	1.5	2.5	1.5	1.5	1.5	2.0	.0	1.0
16	11.5	9.5	10.5	3.5	2.0	2.5	2.0	1.5	2.0	1.5	.0	.5
17	10.0	8.5	9.5	3.5	2.0	3.0	2.0	1.5	1.5	2.5	1.0	2.0
18	11.0	9.5	10.0	3.5	2.5	3.0	2.0	1.5	2.0	1.5	.5	1.0
19	11.5	10.0	11.0	3.5	3.5	3.5	1.5	.0	1.0	2.5	.0	1.0
20	12.5	10.5	11.5	4.5	3.5	3.5	.0	.0	.0	.0	.0	.0
21	12.5	10.0	11.0	4.5	3.5	4.0	.5	.0	.0	1.0	.0	.5
22	10.0	9.0	9.5	4.0	3.5	3.5	1.5	.5	1.0	2.0	.0	1.0
23	11.0	8.0	9.5	3.5	3.0	3.0	2.0	1.5	1.5	2.5	1.5	2.0
24	11.0	9.0	10.0	3.0	2.0	3.0	2.0	1.0	1.5	2.5	.5	1.5
25	11.0	9.5	10.0	3.0	1.0	2.0	2.0	1.5	2.0	.5	.0	.0
26	10.0	8.0	9.0	3.5	2.5	3.0	2.0	.5	1.0	2.0	.0	1.0
27	10.5	10.0	10.0	5.0	3.5	4.0	1.0	.0	.5	3.5	1.0	2.5
28	11.5	10.5	11.0	5.0	3.0	4.5	1.5	.5	1.0	2.0	.0	.5
29	10.5	8.5	9.5	3.0	2.0	2.5	2.0	.5	1.0	1.5	.0	.5
30	9.0	8.0	8.5	3.0	1.5	2.0	2.0	.5	1.5	1.0	.5	.5
31	8.5	7.5	7.5	---	---	---	3.0	2.0	2.5	1.0	.0	.5
MONTH	14.5	7.5	11.3	11.5	1.0	4.6	4.5	.0	1.5	3.5	.0	.7

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY,--continued

WATER-QUALITY RECORDS

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	3.0	.0	1.0	8.0	5.5	6.5	10.0	8.5	9.5
2	.0	.0	.0	3.5	.5	2.0	7.5	4.0	6.0	12.5	8.5	10.5
3	.0	.0	.0	2.5	.5	1.5	6.5	4.5	5.5	11.5	10.0	11.0
4	.0	.0	.0	2.0	.0	.5	4.5	3.5	4.0	10.5	9.0	9.5
5	.0	.0	.0	1.0	.0	.5	7.0	3.5	5.0	13.0	8.5	10.5
6	.0	.0	.0	2.0	1.0	1.5	7.5	4.5	5.5	14.0	10.0	11.5
7	2.0	.0	.5	1.0	.0	.0	6.5	4.5	5.5	13.5	8.5	11.0
8	3.0	2.0	2.5	1.5	.0	.5	6.0	4.0	5.0	14.5	10.0	12.0
9	2.5	1.5	2.0	1.0	.0	.5	6.0	3.0	4.5	13.5	12.0	12.5
10	2.5	1.5	2.0	3.0	.0	1.5	6.0	3.5	4.5	16.5	12.5	14.5
11	2.5	.5	2.0	3.0	.0	1.0	7.5	4.0	5.5	16.0	10.5	14.0
12	.5	.0	.0	4.0	.0	2.0	7.5	6.5	7.0	10.5	7.5	9.0
13	.0	.0	.0	5.0	.5	2.5	6.5	5.0	5.5	10.0	8.0	9.5
14	1.5	.0	.5	5.0	2.0	3.0	6.0	5.5	6.0	12.5	8.0	10.0
15	2.0	.0	1.0	2.5	1.0	1.5	8.0	5.0	6.5	14.0	9.5	11.5
16	1.5	.0	.5	3.5	.0	1.5	8.0	7.0	7.5	12.5	11.5	12.0
17	2.0	.0	1.0	4.5	.5	2.5	7.0	5.5	6.0	16.5	11.0	13.5
18	1.5	.0	.5	7.0	3.0	4.5	9.5	5.0	7.0	18.5	14.0	16.0
19	2.5	.0	1.0	7.5	4.5	5.5	12.0	8.5	10.0	20.0	16.5	18.0
20	3.0	1.0	2.5	6.0	3.0	4.5	12.5	10.5	11.5	20.5	17.0	18.5
21	1.0	.5	1.0	3.0	2.0	2.5	13.0	11.0	12.0	19.5	16.5	18.0
22	2.0	1.0	1.5	3.5	1.5	2.5	12.0	10.0	11.0	18.0	16.0	17.0
23	3.5	2.0	2.5	3.5	1.5	2.5	12.0	9.5	11.0	17.0	14.0	15.5
24	3.5	2.0	3.0	5.0	2.0	3.5	9.5	7.5	8.5	16.5	14.0	15.0
25	4.5	1.5	3.0	8.0	4.0	6.0	9.5	8.0	9.0	15.5	11.5	13.5
26	4.5	2.0	3.5	6.5	3.5	5.0	11.5	9.5	10.5	14.0	12.0	13.0
27	3.5	2.0	3.0	4.5	2.0	3.5	10.5	8.5	9.5	15.5	11.5	13.5
28	4.5	2.0	3.5	5.0	2.0	3.5	11.0	7.0	9.0	15.5	12.0	14.0
29	2.0	.5	1.0	5.0	4.0	4.5	10.5	9.0	9.5	15.0	11.5	13.5
30	---	---	---	7.5	3.0	5.0	10.0	8.5	9.5	15.0	10.5	13.0
31	---	---	---	9.0	4.0	6.5	---	---	---	15.5	11.0	13.5
MONTH	4.5	.0	1.3	9.0	.0	2.7	13.0	3.0	7.5	20.5	7.5	13.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.0	11.5	14.0	21.0	19.0	20.0	17.5	15.5	16.5	16.5	14.0	15.5
2	17.0	13.0	15.0	19.5	17.0	18.5	16.5	15.5	16.0	16.5	14.0	15.5
3	16.5	14.5	15.5	18.5	15.5	16.5	17.5	15.0	16.5	17.0	14.0	15.5
4	15.5	14.0	14.5	17.0	15.0	15.5	18.0	15.5	17.0	16.5	15.0	16.0
5	16.0	13.5	14.5	18.0	14.5	16.0	18.5	16.0	17.5	17.0	15.5	16.5
6	15.5	12.5	14.5	18.0	15.0	16.5	19.0	16.5	18.0	18.0	16.0	17.0
7	16.0	14.5	15.0	18.0	15.5	17.0	19.0	17.0	18.0	17.5	17.0	17.5
8	17.0	15.0	16.0	19.0	16.0	17.5	19.0	17.5	18.0	17.5	16.5	17.0
9	17.5	15.0	16.5	18.0	16.0	17.0	20.0	18.5	19.0	18.0	16.0	17.0
10	19.5	16.5	18.0	17.0	14.5	15.5	18.5	16.5	17.5	17.5	16.5	17.0
11	20.5	17.0	18.5	18.5	14.0	16.0	17.0	14.5	16.0	17.0	15.0	16.0
12	19.5	18.0	18.5	18.5	15.0	17.0	16.5	15.0	16.0	16.5	15.5	15.5
13	19.5	17.5	18.5	19.5	16.0	18.0	17.5	15.0	16.0	15.5	14.5	15.0
14	19.5	16.5	18.0	18.5	17.0	17.5	17.5	15.5	16.5	15.0	14.5	14.5
15	19.5	16.0	18.0	18.5	16.5	17.5	18.5	15.5	17.0	14.5	13.5	13.5
16	18.5	16.0	17.5	20.0	18.0	19.0	18.0	16.5	17.0	14.5	13.0	14.0
17	18.0	16.0	17.0	20.5	18.0	19.0	17.5	15.5	16.5	14.5	13.5	14.0
18	17.0	15.5	16.0	20.5	17.5	19.0	17.5	15.0	16.5	15.5	14.0	15.0
19	18.5	15.5	17.0	19.5	18.5	19.0	17.5	15.0	16.5	15.0	13.0	14.0
20	19.5	18.0	18.5	19.5	17.0	18.0	18.0	15.5	17.0	14.5	12.0	13.5
21	20.5	18.5	19.5	18.5	15.5	17.0	19.0	16.5	17.5	14.5	12.0	13.5
22	20.0	17.0	18.5	19.0	15.5	17.0	18.0	16.0	17.0	14.0	13.0	13.5
23	20.0	18.5	19.0	18.5	16.0	17.0	18.0	17.0	17.5	13.5	12.5	13.0
24	18.5	17.5	17.5	17.5	16.0	17.0	18.0	16.5	17.5	12.5	10.5	11.0
25	18.5	17.0	17.5	18.0	16.0	17.0	18.0	15.5	17.0	12.0	11.0	11.5
26	18.5	15.5	17.0	18.0	16.0	17.0	18.0	15.5	17.0	12.0	10.0	11.0
27	18.5	15.0	17.0	17.5	16.0	16.5	17.5	16.0	17.0	13.5	12.0	12.5
28	18.5	16.0	17.5	17.0	14.0	15.5	17.5	15.5	16.5	14.5	13.5	14.0
29	18.0	16.0	17.0	17.5	14.0	16.0	17.0	14.5	16.0	14.0	12.5	13.5
30	21.0	17.0	19.0	18.5	16.0	17.0	16.5	14.5	15.5	13.5	12.0	13.0
31	---	---	---	18.5	16.5	17.5	16.0	13.5	15.0	---	---	---
MONTH	21.0	11.5	17.0	21.0	14.0	17.2	20.0	13.5	16.9	18.0	10.0	14.5
YEAR	21.0	.0	9.0									

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY,--continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	BEGIN TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT							
05-06	1635	1135	43	70	195	31	--
06-10	1130	1230	20	16	--	--	<0.01
23-24	1225	1725	26	110	244	35	<0.01
NOV							
02-02	0640	1140	20	7.3	--	--	<0.01
16-18	1315	1615	42	4.9	--	--	<0.01
18-20	1715	1215	63	4.6	--	--	<0.01
22-25	1035	0235	51	7.3	--	--	--
DEC							
01-02	1150	1050	42	7.8	--	--	--
02-04	1150	1050	33	5.4	--	--	--
11-14	1320	0320	e11	2.3	--	--	<0.01
15-18	1300	1100	e32	4.5	--	--	--
18-22	1205	1005	e21	2.8	--	--	--
JAN							
17-18	0550	0850	65	18	--	--	<0.01
18-19	1135	1835	355	210	496	57	0.01
19-22	1935	0935	176	45	88	14	<0.01
22-25	1225	1125	91	33	61	7	<0.01
25-29	1150	1050	e66	15	--	--	<0.01
FEB							
08-09	1200	1500	39	3.2	--	--	--
09-12	1600	1500	44	4.6	--	--	--
20-21	1430	0730	127	35	143	21	--
21-22	0830	1045	132	45	91	12	--
22-26	1250	1150	61	8.3	--	--	--
26-29	1225	1125	47	4.9	--	--	--
MAR							
11-14	1200	1100	e24	1.0	--	--	--
14-16	1150	0250	112	52	--	--	--
16-18	0350	1050	80	23	--	--	--
21-25	1210	1110	70	10	--	--	--
25-28	1210	1110	55	8.1	--	--	<0.01
APR							
12-14	1535	1035	217	300	641	51	0.05
14-15	1135	1035	165	110	205	19	0.04
15-18	1200	1100	62	17	--	--	<0.01
18-22	1210	1110	54	3.2	--	--	<0.01
22-24	1220	1120	143	150	--	--	--
24-25	1220	1120	162	65	--	--	--
25-29	1210	1110	64	8.9	--	--	--
APR 29-MAY 01	1155	0455	67	22	--	--	--
01-02	0555	1055	73	31	57	8	--
02-06	1200	1100	53	3.6	--	--	--
10-12	0415	1915	180	85	301	30	--
12-13	2015	1115	203	70	176	17	--
13-16	1215	1115	66	6.1	--	--	--
16-20	1140	1340	40	2.0	--	--	--
JUN							
07-08	1125	1225	44	0.85	--	--	<0.01
13-17	1205	1105	37	30	83	13	0.02
17-19	1215	0215	31	85	--	--	0.03
19-19	0315	1115	68	12	--	--	0.03
19-20	1215	1115	86	80	--	--	0.03
20-22	1220	1120	94	120	--	--	--
22-23	1220	1120	253	60	--	--	--
23-24	1220	1120	111	25	--	--	--
29-30	1950	1450	75	90	182	25	<0.01
JUN 30-JUL 01	1550	1050	89	28	--	--	0.01
15...	1250	--	34	70	132	18	0.02
AUG							
08-12	1245	1145	29	6.5	--	--	<0.01

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY,--continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT 1995						
05-06	--	--	0.220	0.006	69	320
06-10	0.46	0.70	0.065	0.008	74	300
23-24	<0.05	1.5	0.280	0.003	65	240
NOV						
02-02	0.54	0.86	0.045	0.006	66	280
16-18	0.77	1.0	0.040	0.009	85	200
18-20	0.62	1.5	0.045	0.006	99	190
22-25	--	--	0.040	0.006	67	170
DEC						
01-02	--	--	0.040	0.006	79	220
02-04	--	--	0.035	0.005	69	210
11-14	0.36	1.4	0.025	0.004	110	290
15-18	--	--	0.030	0.003	90	220
18-22	--	--	0.020	0.004	75	260
JAN 1996						
17-18	0.84	1.1	0.090	0.007	140	190
18-19	0.62	1.4	0.600	0.013	64	59
19-22	0.93	1.6	0.140	0.017	52	93
22-25	0.57	1.3	0.100	0.014	82	130
25-29	0.62	1.3	0.050	0.012	77	140
FEB						
08-09	--	--	0.020	0.005	91	220
09-12	--	--	0.025	0.005	78	170
20-21	--	--	0.150	0.013	130	120
21-22	--	--	0.150	0.020	65	78
22-26	--	--	0.045	0.009	68	140
26-29	--	--	0.030	0.005	76	160
MAR						
11-14	--	--	0.015	0.002	120	220
14-16	--	--	0.190	0.004	88	98
16-18	--	--	0.070	0.004	60	110
21-25	--	--	0.035	0.006	93	120
25-28	0.41	0.94	0.030	0.002	76	140
APR						
12-14	1.3	1.0	0.540	<0.005	71	110
14-15	0.82	1.1	0.240	<0.005	45	68
15-18	0.41	0.97	0.045	0.003	69	120
18-22	0.58	0.81	0.025	0.004	75	150
22-24	--	--	0.300	0.005	72	110
24-25	--	--	0.210	0.007	47	68
25-29	--	--	0.045	0.006	71	130
APR 29-						
MAY 01	--	--	0.060	0.004	82	150
01-02	--	--	0.085	0.005	58	--
02-06	--	--	0.030	0.002	73	160
10-12	--	--	0.340	0.005	56	97
12-13	--	--	0.210	0.006	38	57
13-16	--	--	0.055	0.004	62	140
16-20	--	--	0.020	0.003	81	200
JUN						
07-08	0.89	1.3	0.075	0.005	75	230
13-17	0.42	1.2	0.140	0.014	74	200
17-19	0.46	1.1	0.190	0.017	67	170
19-19	0.49	1.4	0.060	0.009	80	230
19-20	0.45	1.4	0.220	0.013	77	220
20-22	--	--	0.300	0.028	57	95
22-23	--	--	<0.005	0.027	54	88
23-24	--	--	0.200	0.022	61	120
29-30	0.74	1.0	0.260	0.017	64	120
JUN 30-						
JUL 01	0.58	0.96	0.095	0.016	60	120
15...	0.37	1.4	<0.005	0.014	88	230
AUG						
08-12	0.48	1.1	0.055	0.015	69	210

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY,--continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	BEGIN TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
SEP							
12-13	1200	1500	29	30	--	--	<0.01
13-16	1600	1000	35	26	--	--	<0.01
17-18	1310	0910	52	40	152	29	0.24
18-19	1010	0910	42	32	104	19	0.24
19-20	1240	1640	24	20	--	--	0.11
28-29	1255	1155	28	16	--	--	--
29-30	1255	1155	26	7.4	--	--	--
SEP 30-OCT 03	1245	1145	21	5.3	--	--	<0.01

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
SEP						
12-13	<0.10	1.4	0.110	0.006	75	290
13-16	0.53	1.1	0.130	0.010	71	230
17-18	0.46	1.1	0.190	0.009	68	180
18-19	0.46	0.70	0.170	0.011	64	180
19-20	0.32	1.4	0.085	0.008	72	240
28-29	--	--	0.055	0.006	120	250
29-30	--	--	0.040	0.008	75	220
SEP 30-OCT 03	<0.01	1.3	0.030	0.007	76	270

0423204920 EAST BRANCH ALLEN CREEK AT PITTSFORD, NY

LOCATION.--Lat 43°06'11", long 77°32'01", Monroe County, Hydrologic Unit 04140101, on left bank 25 ft upstream from culvert of abandoned Conrail railroad, 0.2 mi downstream from State Highway 31, 0.7 mi northwest of Pittsford and 1.8 mi upstream from mouth.

DRAINAGE AREA.--6.96 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1990 to current year.

REVISED RECORDS.--WDR NY-92-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft above sea level.

REMARKS.--Records poor. Unpublished water-quality records for prior years are available in files of Monroe County Department of Health. Discharge includes undetermined diversion from Erie (Barge) Canal upstream from station. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.4	8.6	e2.6	e3.7	7.1	7.0	19	2.6	9.9	3.6	2.1
2	2.5	4.9	6.5	e2.2	e2.8	e5.2	6.1	32	2.3	8.3	10	2.1
3	e1.2	3.7	5.3	e1.2	e2.2	e4.0	5.8	14	3.1	7.8	6.5	2.0
4	1.5	2.9	4.6	e1.8	e1.7	e3.0	5.8	18	3.1	7.3	5.3	2.1
5	e3.0	2.5	3.4	e2.2	e1.3	e3.0	5.7	e15	3.4	5.3	4.5	2.1
6	5.9	2.3	2.2	e2.4	e1.4	e2.6	5.5	e13	3.1	3.8	3.8	2.6
7	6.7	5.5	1.7	e2.4	e1.5	e2.2	7.3	e11	8.1	4.0	6.3	4.6
8	3.2	4.6	1.3	e2.8	e2.1	e2.0	7.7	e9.5	5.3	1.9	20	1.7
9	2.5	4.0	e1.4	e2.8	2.4	e1.8	7.1	e11	17	1.0	11	1.1
10	2.0	3.6	e1.3	e3.0	2.1	e1.8	6.4	e24	9.8	1.7	9.4	1.9
11	1.5	6.8	e1.2	e2.8	2.2	e1.6	5.6	53	9.1	3.0	8.0	e2.4
12	.94	7.6	e1.3	2.7	e2.0	e2.2	8.3	113	16	3.2	6.3	2.8
13	.85	5.8	e5.0	e2.6	e1.2	e3.0	40	79	24	3.3	4.8	19
14	4.4	8.5	13	e2.5	e1.1	e8.0	62	51	e18	3.3	3.8	8.1
15	1.9	21	7.5	4.9	e1.0	27	32	17	e14	7.4	3.4	4.5
16	1.1	18	5.6	6.7	e.95	25	22	15	e11	4.0	3.2	3.2
17	1.0	14	5.1	11	e.90	17	16	13	e9.2	3.3	2.7	9.6
18	.99	13	4.7	46	e1.1	13	12	12	e8.0	3.5	2.3	10
19	.99	20	4.9	157	e1.8	11	10	12	21	4.8	2.1	5.8
20	1.2	22	6.1	47	e16	20	14	11	42	3.2	2.1	3.8
21	71	29	4.2	20	69	32	12	27	41	2.9	1.9	2.9
22	35	28	3.9	15	29	25	16	e12	42	2.7	1.7	e3.4
23	15	18	e3.7	14	18	17	43	e10	30	2.7	3.7	1.6
24	7.5	11	e3.4	33	17	13	71	e8.2	25	2.7	2.7	1.5
25	4.9	7.7	e3.4	30	13	14	41	e7.0	22	3.1	2.3	1.3
26	3.7	6.7	e3.3	17	9.8	13	24	e6.4	11	2.7	2.1	1.1
27	3.0	6.6	e3.2	19	8.2	11	16	e5.4	3.4	2.5	2.1	1.3
28	2.7	9.9	e3.0	15	12	10	13	e4.6	2.4	2.4	1.9	5.0
29	2.6	9.4	e2.7	e10	9.9	9.2	15	e4.0	7.3	2.2	1.9	3.7
30	2.3	6.8	e2.7	e7.0	---	8.3	24	e3.2	25	5.4	2.1	1.8
31	2.2	---	e2.7	e5.2	---	7.6	---	e3.0	---	4.1	2.1	---
TOTAL	195.57	306.2	126.9	491.8	235.35	320.6	561.3	633.3	439.2	123.4	143.6	115.1
MEAN	6.31	10.2	4.09	15.9	8.12	10.3	18.7	20.4	14.6	3.98	4.63	3.84
MAX	71	29	13	157	69	32	71	113	42	9.9	20	19
MIN	.85	2.3	1.2	1.2	.90	1.6	5.5	3.0	2.3	1.0	1.7	1.1
CFSM	.91	1.47	.59	2.28	1.17	1.49	2.69	2.94	2.10	.57	.67	.55
IN.	1.05	1.64	.68	2.63	1.26	1.71	3.00	3.38	2.35	.66	.77	.62

e Estimated

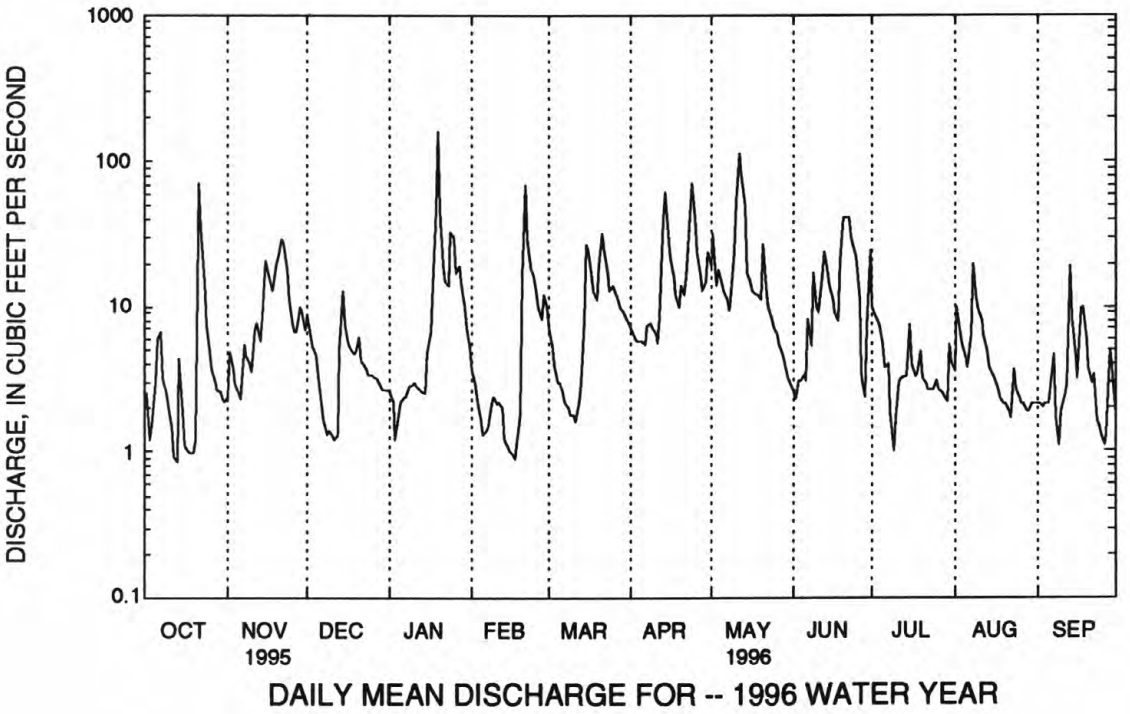
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

MEAN	5.48	8.72	8.87	9.13	7.30	18.5	16.5	9.79	6.14	5.66	6.72	4.32
MAX	10.3	13.3	18.1	15.9	12.0	26.7	23.4	20.4	14.6	12.3	21.7	6.76
(WY)	1991	1993	1991	1996	1994	1991	1993	1996	1996	1992	1992	1992
MIN	3.38	2.23	2.97	3.57	3.60	8.96	3.32	2.39	2.92	3.67	2.97	2.22
(WY)	1993	1992	1992	1992	1993	1995	1995	1993	1995	1991	1991	1995

0423204920 EAST BRANCH ALLEN CREEK AT PITTSFORD, NY--continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1990 - 1996	
ANNUAL TOTAL	1913.87		3692.32			
ANNUAL MEAN	5.24		10.1		8.92	
HIGHEST ANNUAL MEAN					10.1	1993
LOWEST ANNUAL MEAN					5.28	1995
HIGHEST DAILY MEAN	71	Oct 21	157	Jan 19	230	Mar 4 1991
LOWEST DAILY MEAN	.85	Oct 13	.85	Oct 13	.85	a
ANNUAL SEVEN-DAY MINIMUM	1.3	Aug 20	1.1	Feb 13	1.1	Feb 13 1996
INSTANTANEOUS PEAK FLOW			210	Jan 19	319	Aug 27 1992
INSTANTANEOUS PEAK STAGE			5.53	Jan 19	7.18	Aug 27 1992
INSTANTANEOUS LOW FLOW			.80	Oct 12	b.80	Oct 12 1995
ANNUAL RUNOFF (CFSM)	.75		1.45		1.28	
ANNUAL RUNOFF (INCHES)	10.23		19.73		17.42	
10 PERCENT EXCEEDS	9.8		24		18	
50 PERCENT EXCEEDS	3.4		4.9		4.4	
90 PERCENT EXCEEDS	1.4		1.7		1.9	

a May 30, 1993, Oct. 13, 1995.
b May have been lower during period of variable backwater, May - September 1995.



0423204920 EAST BRANCH ALLEN CREEK AT PITTSFORD, NY--continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1990 to current year.

CHEMICAL DATA: 1990-96 (e).

NUTRIENT DATA: 1990-96 (e).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1994 to current year.

INSTRUMENTATION. --Water-quality monitor since 1990. Water-temperature recorder since November 1994 provides 15-minute-interval readings.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 27.0°C, July 14, 15 Aug. 3, 1995; minimum, 0.0°C, on many days during winter period.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 26.5°C, Aug. 23; minimum, 0.0°C, on many days during winter period.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.0	13.5	15.5	10.0	8.5	9.5	4.5	2.0	3.5	2.0	.5	1.5
2	18.0	16.0	17.0	13.5	10.0	12.0	3.0	2.0	2.5	.5	.0	.5
3	17.0	15.5	16.0	12.5	8.5	11.0	4.0	2.5	3.0	.5	.0	.0
4	16.0	15.5	16.0	8.5	6.5	7.0	3.5	2.0	3.0	.0	.0	.0
5	16.0	15.0	15.5	7.0	5.5	6.0	3.5	2.0	2.5	.0	.0	.0
6	16.5	15.0	15.5	7.0	5.0	6.0	3.5	1.0	2.0	.5	.0	.0
7	17.0	15.5	16.0	7.0	5.0	6.0	1.5	.5	1.0	.5	.0	.0
8	16.0	14.5	15.0	6.5	4.5	6.0	2.5	.5	1.5	.0	.0	.0
9	15.0	13.5	14.0	5.5	3.5	4.5	2.0	.0	1.0	.5	.0	.5
10	15.0	11.5	13.5	6.5	4.0	5.5	.5	.0	.5	.5	.0	.0
11	15.5	13.5	14.5	10.5	6.5	8.0	.5	.0	.0	.5	.0	.0
12	16.0	13.0	14.5	8.0	4.5	5.5	.5	.0	.0	.5	.0	.5
13	16.5	13.5	15.0	5.0	4.0	4.5	.5	.0	.0	.5	.0	.5
14	16.5	13.5	15.0	5.5	3.5	4.5	1.0	.0	.5	1.0	.5	1.0
15	15.0	11.5	13.0	3.5	3.0	3.5	1.0	.5	.5	.5	.0	.5
16	11.5	10.0	10.5	4.0	3.0	3.5	2.0	.5	1.5	1.0	.0	.5
17	11.5	9.0	10.0	4.5	3.0	3.5	1.5	1.0	1.0	1.0	1.0	1.0
18	13.5	10.5	12.0	4.0	3.5	4.0	1.5	.5	1.0	2.0	.5	1.5
19	13.0	10.5	12.0	4.0	4.0	4.0	.5	.0	.5	3.5	1.0	2.0
20	15.0	11.5	13.0	5.0	4.0	4.5	.5	.0	.0	1.0	.5	.5
21	14.5	10.5	11.5	5.0	4.0	4.5	.5	.0	.5	1.5	.5	1.0
22	11.5	10.5	11.0	4.5	3.5	4.0	.5	.0	.5	1.5	.5	1.0
23	11.5	10.0	11.0	3.5	3.0	3.5	1.0	.5	1.0	2.0	1.5	1.5
24	12.5	10.0	11.0	3.5	2.0	3.0	1.5	.5	1.0	2.5	1.0	1.5
25	11.0	10.5	11.0	3.5	2.0	3.0	1.5	.5	1.0	1.5	1.0	1.0
26	11.5	9.5	10.5	4.0	3.0	3.5	1.0	.0	.5	1.5	1.0	1.0
27	12.0	10.5	11.0	5.0	3.0	4.0	.5	.0	.5	2.5	1.0	1.5
28	12.0	10.5	11.5	5.0	3.0	4.0	1.0	.0	.5	1.5	.5	1.0
29	10.5	9.0	9.5	3.5	2.0	3.0	1.0	.0	.5	1.5	.5	1.0
30	9.5	8.0	8.5	3.5	2.0	3.0	1.0	.0	.5	1.0	.0	.5
31	9.0	7.5	8.0	---	---	---	2.0	1.0	1.5	1.0	.0	.0
MONTH	18.0	7.5	12.8	13.5	2.0	5.1	4.5	.0	1.1	3.5	.0	.7

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	3.0	.5	1.0	6.5	5.0	6.0	11.0	8.5	9.5
2	.0	.0	.0	3.0	.5	1.5	8.5	4.0	6.0	12.5	9.0	10.5
3	.5	.0	.0	1.5	.0	.5	6.5	4.0	5.5	12.0	10.0	11.0
4	.0	.0	.0	1.0	.0	.5	4.5	3.5	4.0	10.5	9.0	10.0
5	.0	.0	.0	1.0	.0	.5	8.5	3.0	5.0	14.0	9.0	10.5
6	.5	.0	.0	1.5	.0	1.0	9.0	3.5	5.5	15.0	10.0	11.5
7	.5	.0	.5	.5	.0	.0	6.5	4.0	5.0	15.5	9.0	12.0
8	1.0	.5	.5	.5	.0	.5	7.0	3.5	5.0	17.0	10.5	13.5
9	1.5	.5	1.0	.5	.0	.5	7.0	3.0	5.0	15.0	13.0	14.0
10	2.0	.5	1.0	1.0	.0	.5	7.0	3.5	5.0	21.0	13.0	15.5
11	1.5	.0	1.0	1.5	.0	.5	7.0	4.0	5.5	16.5	10.5	13.5
12	.5	.0	.0	3.0	.0	1.5	6.5	6.0	6.5	11.0	9.0	10.0
13	.5	.0	.0	4.5	.0	2.0	6.5	5.0	5.5	10.5	9.0	10.0
14	.5	.0	.5	4.5	1.5	2.5	6.5	6.0	6.0	13.5	9.0	10.5
15	.5	.0	.5	2.5	1.5	2.0	7.5	5.5	6.5	14.0	9.0	11.5
16	.5	.0	.0	3.5	1.0	2.0	7.5	6.5	7.0	13.5	11.5	12.5
17	.5	.0	.5	4.0	1.0	2.0	7.0	6.0	6.5	18.5	11.5	14.5
18	.5	.0	.0	6.0	2.0	3.5	10.0	5.0	7.0	20.0	13.0	16.5
19	.5	.0	.5	7.0	3.0	4.5	11.5	6.5	8.5	21.5	16.5	19.0
20	1.0	.5	.5	4.0	2.5	3.5	13.0	9.0	10.5	23.0	18.5	20.5
21	1.0	.5	.5	3.5	2.5	3.0	14.0	10.5	12.0	20.5	17.5	19.0
22	1.0	.5	1.0	3.0	2.0	2.5	13.5	10.0	12.0	20.5	17.0	19.0
23	2.5	1.0	1.5	3.0	1.5	2.5	12.5	9.5	11.0	20.5	16.5	18.0
24	2.5	1.5	2.0	5.0	1.5	3.0	10.5	8.5	9.5	18.0	14.5	16.5
25	4.0	1.5	2.5	7.0	3.0	4.5	10.0	8.0	9.0	17.5	12.5	15.0
26	4.0	1.5	2.5	5.5	2.5	4.0	11.5	9.5	10.0	16.5	13.5	15.0
27	3.0	1.5	2.0	5.0	2.0	3.0	10.5	8.0	9.0	17.5	13.5	15.5
28	3.5	1.0	2.5	5.5	2.0	3.5	12.5	7.5	9.5	18.0	13.5	15.5
29	2.0	.5	1.0	4.5	3.0	4.0	9.5	9.5	9.5	17.0	13.0	15.0
30	---	---	---	8.0	2.5	4.5	12.0	9.0	10.0	17.0	12.0	14.5
31	---	---	---	9.5	3.5	6.0	---	---	---	18.0	12.5	15.0
MONTH	4.0	.0	.8	9.5	.0	2.3	14.0	3.0	7.4	23.0	8.5	14.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.0	13.0	16.0	23.5	21.0	22.0	23.0	19.5	21.0	23.0	19.5	21.0
2	20.5	15.5	18.0	23.5	21.0	22.0	22.0	19.5	20.0	23.0	19.5	21.0
3	19.5	17.5	18.5	21.5	20.0	21.0	23.0	19.5	21.0	23.5	19.5	21.5
4	19.0	17.0	18.0	21.0	18.5	19.5	23.5	20.0	21.5	23.0	20.5	22.0
5	18.5	16.5	17.5	22.0	18.0	20.0	24.5	20.5	22.5	24.0	21.5	22.5
6	20.0	15.5	17.5	21.5	19.0	20.5	25.0	21.5	23.0	24.5	22.0	23.0
7	20.5	17.0	18.0	22.0	19.0	20.5	25.5	22.5	23.5	23.5	21.0	22.0
8	19.5	17.5	18.0	22.5	20.0	21.0	23.0	22.0	22.5	21.5	20.0	21.0
9	21.0	17.0	18.5	21.0	18.0	19.5	24.5	22.5	23.0	21.5	19.5	20.5
10	21.5	18.5	20.0	21.0	18.5	19.5	23.5	21.5	22.5	21.5	19.5	20.5
11	23.5	20.0	21.0	22.5	18.0	20.0	23.0	21.0	22.0	22.5	19.5	21.0
12	23.5	20.5	21.0	22.5	19.0	21.0	23.0	21.0	22.0	21.0	20.0	20.5
13	21.5	20.5	21.0	23.5	20.0	21.5	23.0	20.5	22.0	20.0	17.5	18.5
14	22.0	20.5	21.0	23.5	21.0	22.5	24.0	20.5	22.0	18.5	17.5	18.0
15	23.0	20.5	21.5	22.0	20.5	21.5	24.0	20.5	22.0	18.0	17.0	17.5
16	23.0	20.5	21.5	23.5	20.5	21.5	22.5	20.5	22.0	18.5	17.0	17.5
17	22.5	21.0	21.5	24.5	21.0	22.5	22.5	20.5	21.5	18.0	16.5	17.5
18	21.5	20.5	21.0	25.0	20.5	22.5	23.0	20.0	21.5	18.5	16.0	17.5
19	21.5	19.0	20.5	23.0	21.0	22.0	23.5	20.0	22.0	18.5	16.0	17.5
20	22.5	19.5	20.5	21.5	18.5	20.0	24.0	20.5	22.5	19.0	16.0	17.5
21	21.5	20.5	21.0	22.5	19.0	20.5	24.5	22.0	23.0	18.5	15.5	17.0
22	21.0	20.0	20.5	23.0	19.0	21.0	24.5	20.5	22.5	18.0	16.5	17.0
23	21.0	20.0	20.5	23.5	19.0	21.5	26.5	22.5	23.5	16.5	14.5	16.0
24	21.0	19.5	20.0	23.0	20.0	21.5	23.5	21.5	22.5	15.0	13.5	14.5
25	22.0	20.0	21.0	25.5	21.0	22.0	24.0	20.5	22.0	14.5	13.5	14.0
26	21.5	19.0	20.5	23.0	20.5	21.5	24.0	21.0	22.5	14.5	11.5	13.0
27	21.5	18.5	20.0	21.5	20.0	21.0	23.0	21.5	22.0	16.5	14.0	15.0
28	21.5	18.0	20.0	22.5	18.0	20.0	23.5	21.0	22.0	18.0	15.0	16.5
29	22.5	19.0	20.0	23.0	18.0	20.5	22.5	19.5	21.0	16.0	14.0	15.0
30	23.0	20.0	21.5	23.5	20.0	21.5	22.5	19.5	21.0	15.5	13.5	14.5
31	---	---	---	23.5	20.0	21.5	23.0	19.0	20.5	---	---	---
MONTH	23.5	13.0	19.8	25.5	18.0	21.1	26.5	19.0	22.0	24.5	11.5	18.3
YEAR	26.5	.0	10.5									

STREAMS TRIBUTARY TO LAKE ONTARIO

0423204920 EAST BRANCH ALLEN CREEK AT PITTSFORD, NY--continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	BEGIN TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT							
05-06	1300	1200	4.5	65	118	16	--
06-10	1210	1110	3.7	17	--	--	0.01
14-14	0530	1230	6.3	26	--	--	0.04
14-15	1330	0030	4.7	1.3	--	--	<0.01
20-21	2130	0830	50	2.5	--	--	0.02
21-23	0930	1230	41	90	177	20	<0.01
23-26	1410	1310	6.5	22	--	--	<0.01
NOV							
02-02	0420	1220	7.8	6.8	--	--	<0.01
02-06	1335	1035	3.0	6.8	--	--	<0.01
07-07	0900	1700	8.7	6.3	--	--	--
07-09	1800	1000	4.6	3.7	--	--	--
16-18	1350	0850	14	5.7	--	--	<0.01
18-18	0950	2050	13	3.6	--	--	<0.01
19-20	2150	1250	21	5.1	--	--	<0.01
20-21	1330	2030	27	--	--	--	--
21-22	2130	1230	31	--	--	--	--
22-25	1115	0815	16	5.4	--	--	--
DEC							
11-14	1350	1250	e4.7	2.6	--	--	0.01
14-18	1335	1235	6.9	6.6	--	--	--
18-22	1240	1040	4.9	2.2	--	--	--
JAN							
18-19	1210	1910	128	85	269	31	0.06
19-22	2010	1110	36	34	62	9	0.05
22-25	1325	1125	24	30	48	8	0.04
25-29	1225	1125	18	24	--	--	0.04
JAN 29-							
FEB 01	1245	1145	e6.3	8.6	--	--	0.02
20-21	1510	0810	67	36	134	21	--
21-22	0910	1110	47	30	74	21	--
22-26	1325	1225	16	8.0	--	--	--
26-29	1300	1200	10	5.7	--	--	--
MAR							
11-14	1250	1150	e3.6	2.7	--	--	--
14-15	1225	2325	20	5.6	--	--	--
16-18	0025	1125	19	6.5	--	--	--
18-20	1315	0015	12	3.5	--	--	--
20-21	0115	1215	24	6.6	--	--	--
21-25	1315	1215	19	8.0	--	--	--
APR							
12-14	1605	0305	38	45	149	21	0.01
14-15	0405	1105	49	90	137	17	0.01
15-18	1235	1135	19	29	--	--	<0.01
18-22	1300	1200	12	6.4	--	--	<0.01
22-24	1250	0750	45	30	--	--	--
24-25	0850	1150	55	27	--	--	--
25-29	1245	1145	19	14	--	--	--
29-30	1240	1740	20	17	--	--	--
APR 30-							
MAY 02	1840	1140	22	16	--	--	--
02-06	1250	1150	e17	3.8	--	--	--
10-12	0105	1205	60	31	126	15	--
12-13	1305	1205	89	36	83	9	--
13-16	1245	1145	39	7.2	--	--	--
16-20	1210	0710	13	3.2	--	--	--
JUN							
08-09	2325	1825	11	16	--	--	<0.01
09-10	1925	1225	17	50	137	20	<0.01
10-12	1310	1210	9.0	37	78	13	0.03
12-12	1310	2110	26	70	184	29	0.03
12-13	2210	1210	24	280	507	64	0.11
13-17	1330	1230	e15	36	71	11	0.05
17-20	1255	1155	e18	29	--	--	0.03
20-24	1305	1205	38	110	--	--	--
24-27	1345	1245	17	45	91	15	0.01

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT						
05-06	--	--	0.200	0.033	42	110
06-10	0.85	0.55	0.100	0.035	71	110
14-14	0.82	0.41	0.170	0.550	90	240
14-15	0.64	0.25	0.110	0.032	62	150
20-21	0.60	0.23	0.070	0.074	150	490
21-23	0.62	0.76	0.360	0.008	46	62
23-26	<0.05	1.7	0.200	0.086	81	77
NOV						
02-02	0.68	1.1	0.100	0.042	95	160
02-06	0.72	1.2	0.095	0.043	100	130
07-07	--	--	0.085	0.034	120	190
07-09	--	--	0.075	0.036	120	190
16-18	1.2	1.7	0.070	0.029	170	74
18-18	1.2	1.8	0.055	0.023	190	73
19-20	1.3	2.1	0.065	0.025	170	64
20-21	--	--	0.090	0.028	150	59
21-22	--	--	0.120	0.041	130	53
22-25	--	--	0.090	0.033	140	68
DEC						
11-14	1.5	2.4	0.040	0.011	210	130
14-18	--	--	0.060	0.015	300	98
18-22	--	--	0.040	0.016	220	94
JAN						
18-19	1.4	2.0	0.480	0.043	130	41
19-22	0.78	2.4	0.210	0.059	140	43
22-25	1.2	2.2	0.170	0.044	180	51
25-29	0.92	2.3	0.180	0.048	170	53
JAN 29-						
FEB 01	0.21	2.7	0.100	0.032	180	62
20-21	--	--	0.230	0.032	230	51
21-22	--	--	0.200	0.047	120	28
22-26	--	--	0.210	0.044	160	50
26-29	--	--	0.075	0.023	190	65
MAR						
11-14	--	--	0.045	0.004	290	92
14-15	--	--	0.065	0.008	230	58
16-18	--	--	0.065	0.012	190	50
18-20	--	--	0.055	0.008	170	57
20-21	--	--	0.075	0.009	210	57
21-25	--	--	0.065	0.009	180	52
APR						
12-14	0.80	0.98	0.230	<0.005	120	57
14-15	0.99	1.8	0.300	0.023	100	33
15-18	0.86	1.9	0.130	0.013	120	45
18-22	0.73	1.7	0.050	0.007	130	61
22-24	--	--	0.150	0.011	100	50
24-25	--	--	0.150	0.019	92	37
25-29	--	--	0.080	0.012	110	52
29-30	--	--	0.080	0.007	--	--
APR 30-						
MAY 02	--	--	0.080	0.007	--	--
02-06	--	--	0.050	0.003	120	86
10-12	--	--	0.190	0.012	76	56
12-13	--	--	0.200	0.024	61	29
13-16	--	--	0.090	0.012	90	55
16-20	--	--	0.045	0.005	150	120
JUN						
08-09	0.26	0.95	0.150	0.022	110	87
09-10	0.74	1.0	0.360	0.028	80	63
10-12	0.54	1.9	0.190	0.034	92	61
12-12	1.1	1.7	0.350	0.041	72	49
12-13	1.7	2.7	1.10	0.063	69	40
13-17	0.71	2.2	0.240	0.055	--	53
17-20	0.88	1.8	0.120	0.042	99	75
20-24	--	--	0.290	0.066	54	32
24-27	0.54	2.1	0.110	0.066	75	45

STREAMS TRIBUTARY TO LAKE ONTARIO

0423204920 EAST BRANCH ALLEN CREEK AT PITTSFORD, NY--continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	BEGIN TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL							
10-11	1010	1210	2.5	19	--	--	0.02
15-15	0840	1140	18	50	--	--	0.04
15-18	1325	1225	4.0	16	--	--	0.18
AUG							
02-03	1345	0045	19	85	201	32	--
03-05	0145	1245	5.6	40	84	13	--
07-08	1410	1310	17	40	126	19	<0.01
08-12	1330	1230	10	35	79	14	<0.01
SEP							
06-07	2105	1605	5.0	35	78	16	<0.01
07-08	1705	0805	2.7	23	--	--	<0.01
12-13	1015	1315	12	24	--	--	<0.01
13-16	1415	0915	7.3	50	--	--	<0.01
17-17	1055	2155	12	27	--	--	0.14
17-19	2255	0955	10	31	96	13	0.23
19-23	1320	1220	e3.6	22	--	--	0.03
28-28	0935	2035	7.7	22	--	--	--
28-30	2135	1235	3.3	44	--	--	--

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
JUL						
10-11	0.25	1.0	0.150	0.040	91	160
15-15	0.24	0.64	<0.005	0.029	63	120
15-18	1.0	0.72	<0.005	0.027	82	160
AUG						
02-03	--	--	0.400	0.031	52	100
03-05	--	--	0.220	0.034	69	110
07-08	<0.01	0.65	0.315	0.034	72	72
08-12	0.52	0.75	0.190	0.031	76	79
SEP						
06-07	0.38	0.47	0.190	0.021	61	140
07-08	0.46	0.34	0.170	0.024	88	170
12-13	0.21	0.56	0.140	0.022	56	140
13-16	0.42	0.63	0.190	0.030	64	90
17-17	0.69	0.58	0.210	0.027	53	89
17-19	0.68	0.64	0.220	0.031	60	74
19-23	0.38	0.82	0.110	0.026	79	110
28-28	--	--	0.130	0.018	74	120
28-30	--	--	0.095	0.022	110	120

04232050 ALLEN CREEK NEAR ROCHESTER, NY

LOCATION.--Lat 43°07'49", long 77°31'08", Monroe County, Hydrologic Unit 04140101, on right bank 525 ft downstream from Penn Central Transportation Co. bridge, near Rochester, and about 1.3 mi upstream from Irondequoit Creek.

DRAINAGE AREA.--30.1 mi^2, flow from 3.5 mi^2 noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1959 to current year.

REVISED RECORDS.--WRD NY 1974: 1972(M), 1973(M, P). WDR NY-76-1: 1960-75 (M, P), 1960-63, 1972-74.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 323.54 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Unpublished water-quality records for prior years are available in files of Monroe County Department of Health. Discharge prior to January 1980 included undetermined diversion (maximum 20 ft^3/s) from Erie (Barge) Canal upstream from station. January 1980 to present, diversion reduced to a maximum of 3 ft^3/s for use by several golf courses adjacent to stream. Several measurements of water temperature were made during the year.

COOPERATION.--Gage-height record and discharge measurements were provided by the Monroe County Health Laboratory at Rochester, N.Y.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 21	1030	*746	*4.63	Apr. 13	2030	465	4.16
Jan. 19	1245	725	4.60				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	28	e8.2	e14	e20	20	60	6.2	30	15	3.4
2	20	32	25	e8.0	e12	e18	18	48	5.7	21	60	3.5
3	6.0	19	20	e4.0	e10	e16	18	28	6.9	23	35	3.7
4	11	14	20	e6.0	e9.0	e14	23	28	6.6	20	15	3.8
5	37	12	17	e7.6	e8.0	e14	21	25	7.3	14	11	3.8
6	87	11	e15	e8.0	e8.5	e13	19	22	6.8	11	9.0	4.2
7	37	25	e12	e8.0	e9.5	e12	25	19	40	8.9	9.9	22
8	18	17	e7.5	e7.6	22	e11	25	17	20	7.9	82	11
9	14	13	e8.0	e8.2	27	e10	21	19	44	6.5	41	6.7
10	13	11	e7.0	e8.4	19	e10	19	110	30	7.7	22	4.4
11	11	24	7.0	8.6	24	e9.0	17	181	26	8.5	17	4.9
12	10	36	7.4	8.8	12	e12	27	291	59	8.6	14	6.7
13	9.9	16	8.4	e8.5	e9.5	23	217	102	51	9.2	11	85
14	45	24	22	e8.0	e8.5	58	178	63	30	7.7	8.2	29
15	29	88	49	e9.0	e8.0	96	73	34	20	33	8.4	15
16	15	61	24	e11	e7.5	63	50	33	16	15	9.8	10
17	12	44	17	59	e7.0	44	42	27	14	11	7.5	32
18	10	40	e13	167	e8.0	38	30	22	12	10	6.4	53
19	9.8	70	e11	446	e9.0	36	28	20	57	17	5.6	18
20	9.5	63	e9.0	120	97	82	52	23	174	11	5.7	11
21	377	88	11	55	234	101	36	120	114	8.4	5.7	9.1
22	88	64	e9.6	39	76	65	51	42	136	6.9	5.5	14
23	42	41	e9.0	36	46	47	168	33	68	6.3	12	13
24	26	27	e9.0	139	50	38	155	31	47	6.2	9.5	9.2
25	19	20	e8.8	74	38	43	72	16	40	14	6.4	7.8
26	16	19	e8.4	43	30	47	52	14	27	11	5.3	5.8
27	14	19	e8.0	e58	27	32	39	12	15	8.6	5.0	6.2
28	13	31	e8.4	e38	e40	27	28	10	11	7.3	4.6	29
29	13	22	e8.0	e26	e26	26	37	8.8	16	6.5	4.7	22
30	13	17	e8.0	e20	---	23	77	7.3	116	29	4.3	10
31	11	---	e8.2	e16	---	21	---	6.9	---	18	4.2	---
TOTAL	1049.2	981	423.7	1463.9	896.5	1069.0	1638	1473.0	1222.5	403.2	460.7	457.2
MEAN	33.8	32.7	13.7	47.2	30.9	34.5	54.6	47.5	40.7	13.0	14.9	15.2
MAX	377	88	49	446	234	101	217	291	174	33	82	85
MIN	6.0	11	7.0	4.0	7.0	9.0	17	6.9	5.7	6.2	4.2	3.4

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1996, BY WATER YEAR (WY)

MEAN	25.6	32.0	30.8	23.1	34.4	56.9	47.2	33.5	28.0	22.0	24.7	23.1
MAX	74.8	102	89.7	50.4	94.9	131	80.7	103	78.4	63.0	50.7	60.5
(WY)	1978	1973	1978	1969	1981	1960	1969	1974	1972	1976	1992	1977
MIN	7.99	7.42	4.80	4.40	10.4	22.6	11.2	8.94	8.99	7.18	8.84	6.07
(WY)	1962	1961	1961	1963	1989	1981	1995	1995	1995	1960	1961	1961

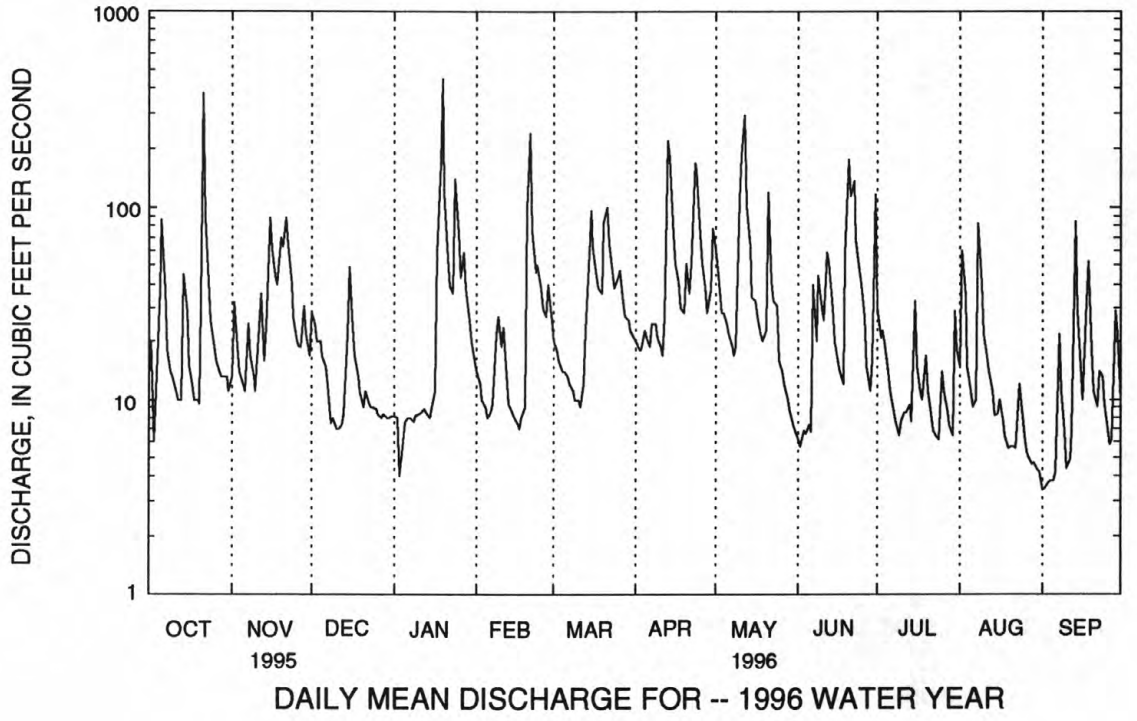
04232050 ALLEN CREEK NEAR ROCHESTER, NY--continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1960 - 1996	
ANNUAL TOTAL	6660.0		11537.9			
ANNUAL MEAN	18.2		31.5		31.5	
HIGHEST ANNUAL MEAN					50.6	1978
LOWEST ANNUAL MEAN					16.1	1995
HIGHEST DAILY MEAN	377	Oct 21	446	Jan 19	1970	Mar 30 1960
LOWEST DAILY MEAN	3.6	a	3.4	Sep 1	1.7	Jan 24 1963
ANNUAL SEVEN-DAY MINIMUM	4.0	Jun 16	3.8	Aug 31	2.3	Feb 15 1962
INSTANTANEOUS PEAK FLOW			746	Oct 21	b3280	May 17 1974
INSTANTANEOUS PEAK STAGE			4.63	Oct 21	7.42	May 17 1974
10 PERCENT EXCEEDS	37		66		56	
50 PERCENT EXCEEDS	12		17		20	
90 PERCENT EXCEEDS	5.2		6.9		7.8	

a June 14, 22.

b From rating curve extended above 1,000 ft^3/s on basis of contracted-opening measurement of peak discharge and step-backwater analysis.

c Sep 2, 3.



04232050 ALLEN CREEK NEAR ROCHESTER, NY--continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to current year.
CHEMICAL DATA: 1983-96 (e).
NUTRIENT DATA: 1983-96 (e).
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1994 to current year.
INSTRUMENTATION.--Water-quality monitor since October 1983. Water temperature recorder since November 1994 provides 15-minute-interval readings.
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.
REMARKS.--Prior to 1994 water year, data published in "Water Resources of Monroe County New York, Water Years 1984-88", U. S. Geological Survey open-file report 93-370.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 25.5°C, July 15, Aug. 15, 1995; minimum, 0.0°C, many days during winter period.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 23.5°C, Aug. 6; minimum, 0.0°C, many days during winter period.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.5	12.5	14.5	10.5	9.5	10.0	5.5	3.5	4.5	3.5	2.0	3.0
2	17.5	15.0	15.5	13.0	10.5	11.5	4.5	3.0	3.5	2.0	.5	1.5
3	16.0	15.0	15.5	12.5	9.5	11.5	5.5	3.0	4.0	1.0	.0	.0
4	15.5	15.0	15.0	9.5	7.5	8.5	5.0	3.5	4.5	.0	.0	.0
5	15.0	14.5	14.5	8.0	7.0	7.5	4.5	3.0	4.0	.5	.0	.0
6	16.0	15.0	15.5	8.5	6.0	7.0	4.5	2.5	3.5	.5	.0	.5
7	16.5	15.5	16.0	8.0	6.0	7.0	3.0	2.0	2.5	.5	.0	.5
8	15.5	14.0	15.0	7.5	6.0	7.0	3.5	2.5	3.0	1.0	.0	.5
9	15.0	13.5	14.0	6.5	5.0	6.0	4.0	1.0	3.0	2.0	1.0	1.0
10	15.0	12.0	13.5	7.5	5.5	6.5	1.0	.0	.5	1.5	1.0	1.0
11	15.5	13.0	14.5	10.0	7.5	9.0	1.0	.0	.0	1.5	.0	.5
12	16.5	13.0	14.5	9.0	5.5	6.5	.5	.0	.5	2.0	1.0	1.5
13	16.5	14.0	15.0	6.0	5.0	5.5	1.0	.0	.5	2.0	1.0	1.5
14	16.0	14.0	15.0	6.0	4.5	6.0	3.0	.5	1.0	3.5	2.0	2.5
15	15.5	12.5	14.0	4.5	3.0	3.5	2.0	1.0	1.5	3.0	.0	1.5
16	12.5	11.5	12.0	5.0	3.5	4.0	3.0	2.0	2.5	2.5	.0	1.5
17	13.0	10.5	11.5	5.0	3.5	4.5	3.0	2.0	2.5	3.0	1.0	2.0
18	14.0	11.5	12.5	5.0	4.0	4.5	3.0	2.5	2.5	3.0	1.0	1.5
19	13.5	11.5	12.5	5.0	5.0	5.0	2.5	.5	1.5	5.0	.5	2.5
20	14.5	12.0	13.5	6.0	4.5	5.5	1.0	.0	.5	1.5	.5	.5
21	14.0	11.0	11.5	5.5	4.5	5.5	1.5	.5	1.5	2.0	.5	1.0
22	11.0	10.5	11.0	5.0	4.5	4.5	2.0	1.5	2.0	2.5	.5	1.5
23	12.5	10.0	11.0	4.5	4.0	4.0	2.5	2.0	2.0	3.0	2.0	2.5
24	12.5	10.5	11.5	4.5	3.5	4.0	2.5	1.5	2.0	3.0	1.0	2.0
25	11.5	10.5	11.0	4.5	2.5	3.5	3.0	2.0	2.5	1.5	.5	1.0
26	11.5	9.5	10.5	5.0	4.5	4.5	2.5	1.0	1.5	2.5	.5	1.5
27	12.0	11.0	11.5	6.0	4.5	5.0	2.0	1.0	1.5	4.0	1.0	2.5
28	12.5	11.0	12.0	6.0	4.0	5.5	2.5	1.5	1.5	1.5	.0	1.0
29	11.0	9.5	10.5	4.5	3.5	4.0	2.5	1.0	1.5	1.5	.0	1.0
30	10.5	9.0	9.5	4.5	3.0	4.0	2.5	1.0	2.0	1.5	.0	1.0
31	9.5	8.5	9.0	---	---	---	4.0	2.5	3.0	1.0	.0	.5
MONTH	17.5	8.5	13.0	13.0	2.5	6.0	5.5	.0	2.2	5.0	.0	1.3

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	.0	.0	3.0	.0	1.5	7.5	5.0	6.0	11.0	8.0	9.5
2	1.0	.0	.0	3.5	.5	2.0	8.0	4.0	6.0	13.0	9.0	11.0
3	.0	.0	.0	2.0	.0	1.0	6.5	4.5	5.5	11.5	10.0	10.5
4	.0	.0	.0	2.5	.0	1.0	4.5	4.0	4.0	10.0	9.5	9.5
5	.0	.0	.0	1.5	.0	1.0	8.0	3.5	5.5	12.5	9.0	10.5
6	.0	.0	.0	2.0	.5	1.5	8.0	4.0	6.0	13.5	9.5	11.5
7	2.0	.0	1.0	.5	.0	.5	6.0	4.5	5.5	14.0	9.0	11.0
8	3.5	1.5	2.5	2.0	.0	.5	6.5	3.5	5.0	15.0	10.0	12.5
9	3.0	1.5	2.0	2.0	.0	.5	7.0	3.5	5.0	13.5	12.0	12.5
10	3.0	2.0	2.5	4.0	.0	1.5	7.0	3.5	5.5	18.0	12.5	15.0
11	2.5	1.0	2.0	4.0	.0	1.5	7.5	4.5	6.0	17.5	10.5	13.5
12	1.0	.0	.5	4.5	.0	2.0	7.5	6.5	7.0	11.5	8.0	10.0
13	.5	.0	.0	5.0	.5	2.5	7.0	5.0	6.0	11.0	8.5	10.0
14	2.0	.5	1.0	5.0	1.5	3.0	7.0	6.0	6.5	13.0	8.5	10.5
15	2.5	.5	1.5	3.5	2.0	2.5	9.0	5.0	7.0	13.5	9.5	11.5
16	2.0	.0	1.0	4.5	1.0	2.5	8.0	6.5	7.5	12.5	11.0	12.0
17	2.5	.0	1.0	5.0	.5	2.5	7.0	5.5	6.0	16.0	11.0	13.5
18	1.5	.0	.5	6.5	2.5	4.5	11.0	5.0	8.0	18.0	13.5	15.5
19	3.0	.0	1.5	7.5	4.0	5.5	11.0	7.5	9.5	18.5	15.5	17.0
20	3.0	.5	2.0	5.5	3.5	4.0	13.0	9.5	11.0	20.0	16.5	18.0
21	1.5	.5	1.0	3.5	2.5	3.0	13.5	10.5	12.0	19.0	17.5	18.5
22	2.0	1.5	1.5	4.0	1.5	2.5	13.0	9.5	11.5	19.0	16.0	17.5
23	4.0	2.0	3.0	4.0	1.5	2.5	13.0	9.0	11.0	17.5	15.0	16.5
24	4.0	2.5	3.5	5.5	1.5	3.5	10.5	8.0	9.0	17.0	14.0	15.5
25	5.0	2.0	3.5	8.0	4.0	6.0	10.0	7.5	9.0	16.5	12.5	14.0
26	4.5	2.0	3.5	6.0	3.0	4.5	11.5	9.5	10.5	15.0	13.0	14.0
27	3.5	2.0	3.0	5.0	1.5	3.0	10.5	8.0	9.0	16.5	12.5	14.0
28	4.5	1.5	3.5	5.5	1.5	3.5	12.0	7.0	9.5	16.5	13.0	14.5
29	2.0	.0	1.0	5.0	4.0	4.5	10.0	9.0	9.0	16.5	12.0	14.0
30	---	---	---	7.5	3.0	5.0	11.5	9.0	10.0	17.5	11.5	14.0
31	---	---	---	9.0	4.0	6.5	---	---	---	18.5	12.0	14.5
MONTH	5.0	.0	1.5	9.0	.0	2.8	13.5	3.5	7.6	20.0	8.0	13.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.0	12.0	15.0	22.5	20.0	21.0	21.0	18.0	19.0	21.0	17.0	18.5
2	20.0	14.0	16.0	21.5	18.5	20.0	21.0	17.5	19.0	21.0	17.0	19.0
3	17.0	15.5	16.5	20.0	17.5	18.5	21.0	18.5	19.5	21.5	17.5	19.5
4	17.5	14.5	16.0	19.5	17.0	18.0	22.0	18.5	20.0	21.0	18.5	20.0
5	16.5	14.5	15.5	20.5	16.5	18.0	22.5	19.0	20.5	21.5	19.5	20.5
6	18.0	13.5	15.5	20.0	17.5	18.5	23.5	19.5	21.0	23.0	20.0	21.5
7	17.5	15.0	16.5	20.5	17.5	19.0	23.0	20.5	21.5	21.5	20.0	20.5
8	17.5	16.0	17.0	22.0	18.0	19.5	23.0	19.5	22.0	20.5	18.5	19.5
9	20.0	15.5	17.0	20.5	17.5	18.5	22.5	20.5	21.5	20.5	18.0	19.0
10	20.5	17.5	19.0	19.5	16.5	17.5	21.5	19.0	20.0	20.0	18.0	19.0
11	21.5	18.0	19.5	20.5	15.5	17.5	20.5	17.5	19.0	20.0	17.0	18.5
12	21.5	19.0	20.5	20.0	16.5	18.5	20.5	18.0	19.0	19.5	18.0	18.5
13	21.0	19.0	20.0	21.0	18.0	19.0	21.0	18.0	19.5	18.0	17.0	17.5
14	21.0	18.5	20.0	22.0	18.5	20.0	22.0	18.5	20.0	17.5	16.0	17.0
15	22.0	18.0	20.0	21.0	19.0	20.0	22.5	18.5	20.5	17.0	16.0	16.0
16	21.0	18.0	19.5	22.0	18.5	20.0	20.5	18.5	19.5	17.5	15.5	16.5
17	20.0	18.5	19.5	22.0	18.5	20.0	21.0	18.5	19.5	17.0	16.0	16.5
18	19.0	18.0	18.5	22.5	18.5	20.0	21.5	17.5	19.5	17.5	16.0	16.5
19	20.5	17.5	19.0	20.5	19.0	20.0	21.5	18.0	19.5	17.5	15.0	16.0
20	22.0	19.0	20.5	21.0	17.0	18.5	21.5	18.5	20.0	17.5	14.5	16.0
21	22.0	20.0	21.0	21.5	17.0	18.5	22.5	20.0	21.0	17.5	14.5	16.0
22	21.5	19.5	20.5	22.5	17.5	19.5	22.5	18.5	20.0	16.5	15.5	16.0
23	20.5	18.5	19.5	21.0	18.5	19.5	23.0	20.0	21.0	16.0	14.0	15.0
24	20.0	18.5	19.0	21.0	18.0	19.5	22.0	19.5	20.5	14.0	12.5	13.5
25	21.0	18.5	19.5	22.0	18.5	20.0	22.0	18.0	20.0	14.5	13.5	13.5
26	20.5	17.5	19.0	21.0	18.0	19.5	22.0	18.5	20.0	15.0	12.0	13.5
27	20.5	17.0	18.5	20.5	18.0	19.0	21.0	19.5	20.0	15.5	14.0	15.0
28	21.0	17.5	18.5	21.0	16.5	18.0	21.5	18.5	19.5	16.5	15.5	16.0
29	20.0	17.5	18.5	21.5	16.5	18.5	21.0	17.5	19.0	16.0	14.5	15.0
30	22.5	19.5	21.5	21.5	18.0	20.0	20.5	17.5	18.5	15.0	13.0	14.0
31	---	---	---	21.5	19.0	20.0	20.5	16.5	18.5	---	---	---
MONTH	22.5	12.0	18.5	22.5	15.5	19.2	23.5	16.5	19.9	23.0	12.0	17.1
YEAR	23.5	-1.0	10.2									

04232050 ALLEN CREEK NEAR ROCHESTER, NY--continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	BEGIN TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT							
05-06	1525	1025	119	80	179	24	--
06-10	1055	0955	25	8.1	--	--	0.01
14-14	0345	1445	41	18	--	--	<0.01
14-16	1545	1045	33	14	--	--	<0.01
20-21	1955	1055	259	65	218	27	<0.01
21-23	1155	1055	154	38	89	12	<0.01
23-26	1150	1050	24	18	--	--	<0.01
NOV							
02-06	1210	0910	16	7.6	--	--	<0.01
14-15	1205	0505	53	18	--	--	--
15-16	0605	1105	78	15	--	--	--
16-18	1235	1535	45	4.3	--	--	<0.01
18-19	1635	1935	64	5.1	--	--	<0.01
19-20	2035	1135	61	4.7	--	--	<0.01
20-21	1225	1525	75	7.6	--	--	--
21-22	1625	1125	84	--	--	--	--
22-23	0945	1825	49	4.1	--	--	--
DEC							
11-14	1240	1140	7.6	3.1	--	--	<0.01
14-15	1220	0320	46	18	--	--	--
15-18	0420	1120	e27	4.3	--	--	--
18-22	1135	0835	e11	2.9	--	--	--
JAN							
16-18	2315	1015	67	11	--	--	0.04
18-19	1100	1800	362	75	228	31	0.05
19-22	1900	1000	103	19	--	--	0.02
22-25	1200	1100	80	20	--	--	0.03
25-29	1115	1015	e48	15	--	--	0.03
JAN 29-							
FEB 01	1135	1035	e19	4.4	--	--	0.01
08-09	1125	0225	36	5.1	--	--	--
09-12	0325	1025	21	5.2	--	--	--
20-21	1150	0250	212	32	141	21	--
21-22	0350	1050	167	18	--	--	--
22-26	1215	1145	45	6.7	--	--	--
26-29	1155	1055	33	4.5	--	--	--
FEB 29-							
MAR 01	1125	1025	e20	3.0	--	--	--
01-03	1125	1025	e18	2.5	--	--	--
18-19	1205	1405	36	2.1	--	--	--
19-21	1505	1105	79	6.3	--	--	--
21-25	1125	1055	55	4.6	--	--	--
25-27	1135	0735	45	10	--	--	<0.01
APR							
12-13	0710	2210	128	29	--	--	0.01
13-15	2310	0910	158	35	83	10	0.02
15-17	1124	1025	52	11	--	--	<0.01
18-22	1125	1025	36	3.6	--	--	<0.01
22-23	1150	2250	133	24	--	--	--
23-25	2350	1050	133	17	--	--	--
25-29	1135	1035	41	5.4	--	--	--
29-30	1120	1920	62	12	--	--	--
APR 30-							
MAY 02	2020	1020	59	7.5	--	--	--
02-06	1125	1025	30	2.4	--	--	--
09-12	2345	0645	173	29	--	--	--
12-13	0745	1045	195	15	--	--	--
13-16	1140	1040	54	4.7	--	--	--
16-20	1105	1005	24	4.6	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT						
05-06	--	--	0.290	0.032	59	51
06-10	0.74	0.57	0.080	0.020	120	68
14-14	0.64	0.68	0.140	0.031	83	79
14-16	0.68	0.50	0.160	0.025	110	63
20-21	0.29	0.37	0.370	0.047	67	58
21-23	0.62	0.85	0.250	0.021	98	41
23-26	<0.01	1.2	0.110	0.039	130	69
NOV						
02-06	0.70	0.88	0.060	0.022	120	79
14-15	--	--	0.100	0.365	290	63
15-16	--	--	0.100	0.040	310	53
16-18	1.3	1.2	0.060	0.020	260	67
18-19	0.96	1.2	0.055	0.022	280	62
19-20	1.1	1.2	0.065	0.028	210	59
20-21	--	--	0.070	0.032	190	57
21-22	--	--	0.085	0.040	160	49
22-23	--	--	0.060	0.027	200	66
DEC						
11-14	1.1	1.9	0.050	0.012	350	100
14-15	--	--	0.130	0.014	260	76
15-18	--	--	0.065	0.023	370	80
18-22	--	--	0.035	0.010	310	80
JAN						
16-18	0.74	1.2	0.120	0.014	560	66
18-19	1.4	1.3	0.400	0.033	290	47
19-22	0.82	1.9	0.140	0.031	300	57
22-25	0.85	1.7	0.120	0.030	350	56
25-29	1.0	1.7	0.085	0.027	330	52
JAN 29-						
FEB 01	0.30	2.2	0.050	0.018	350	65
08-09	--	--	0.140	0.044	550	74
09-12	--	--	0.075	0.026	470	62
20-21	--	--	0.220	0.026	630	52
21-22	--	--	0.150	0.039	280	41
22-26	--	--	0.065	0.024	340	58
26-29	--	--	0.045	0.013	360	67
FEB 29-						
MAR 04	--	--	<0.005	<0.005	420	75
01-03	--	--	0.030	0.004	700	82
18-19	--	--	0.040	0.005	300	61
19-21	--	--	0.080	0.017	350	64
21-25	--	--	0.040	0.009	360	61
25-27	0.58	1.2	0.065	0.004	370	60
APR						
12-13	0.78	0.91	0.160	<0.005	240	52
13-15	0.65	1.2	0.160	<0.005	180	39
15-17	0.44	1.5	0.050	0.006	230	53
18-22	0.58	1.2	0.050	0.004	240	60
22-23	--	--	0.150	0.010	170	45
23-25	--	--	0.100	0.014	170	41
25-29	--	--	0.045	0.007	200	55
29-30	--	--	0.070	0.006	180	--
APR 30-						
MAY 02	--	--	0.055	0.007	87	24
02-06	--	--	0.035	0.003	200	61
09-12	--	--	0.170	0.010	130	41
12-13	--	--	0.130	0.013	120	35
13-16	--	--	0.075	0.004	150	46
16-20	--	--	0.040	0.003	160	64

04232050 ALLEN CREEK NEAR ROCHESTER, NY--continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	BEGIN TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUN							
06-07	2350	1850	39	18	--	--	<0.01
07-09	1950	1050	21	17	--	--	<0.01
09-09	1150	2250	73	36	148	25	<0.01
09-10	2350	1050	38	22	--	--	<0.01
10-11	1150	1350	22	5.9	--	--	0.03
11-12	1450	1950	46	33	85	17	0.04
12-13	2050	1050	66	55	116	19	0.07
13-17	1150	1050	24	8.0	--	--	0.06
17-20	1135	1035	35	22	--	--	0.34
20-24	1145	1245	119	45	--	--	--
24-27	1220	1120	34	22	--	--	0.02
29-30	2315	1815	135	40	120	19	0.07
JUN 30-							
JUL 01	2315	1015	35	8.3	--	--	0.02
15-18	1205	1105	19	5.6	--	--	0.01
19-19	0345	1445	20	3.2	--	--	<0.01
19-22	1545	1045	10	3.3	--	--	<0.01
AUG							
02-02	1225	2325	114	45	184	26	--
03-05	0025	1125	21	14	--	--	--
08-12	1210	1110	38	12	--	--	0.01
23-23	1145	1845	19	12	--	--	0.01
23-26	1945	1045	8.2	3.3	--	--	0.02
SEP							
06-07	2350	1850	20	5.7	--	--	<0.01
07-08	1950	1050	17	8.0	--	--	<0.01
12-13	1140	1440	42	16	--	--	0.02
13-16	1540	0840	30	16	99	17	0.02
17-18	1140	0440	71	20	--	--	0.30
18-19	0540	1040	29	17	--	--	<0.01
19-23	1200	1100	12	6.4	--	--	0.06
28-28	0825	1925	32	16	--	--	--
28-30	2025	1125	22	7.8	--	--	--
SEP 30-							
OCT 03	1205	1105	6.8	3.1	--	--	<0.01

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
JUN						
06-07	0.78	1.3	0.290	0.013	170	84
07-09	0.97	0.88	0.100	0.018	140	58
09-09	0.69	0.90	0.310	0.026	140	53
09-10	0.89	0.84	0.060	0.029	100	13
10-11	0.43	1.4	0.095	0.029	150	56
11-12	0.64	1.3	<0.005	0.029	120	43
12-13	0.99	1.3	0.300	0.047	90	34
13-17	0.61	1.8	0.110	0.044	150	50
17-20	0.47	1.5	0.160	0.045	140	57
20-24	--	--	0.095	0.049	87	29
24-27	0.53	1.7	0.050	0.051	130	45
29-30	0.57	0.96	0.280	0.041	73	36
JUN 30-						
JUL 01	0.48	1.0	0.110	0.030	120	46
15-18	1.2	0.88	<0.005	0.024	140	80
19-19	0.28	0.94	0.075	0.026	140	95
19-22	0.30	0.96	0.060	0.028	150	98
AUG						
02-02	--	--	0.315	0.027	83	51
03-05	--	--	0.110	0.026	130	67
08-12	0.34	0.75	0.100	0.032	120	56
23-23	1.0	0.87	0.130	0.026	140	88
23-26	0.66	0.82	0.060	0.026	120	91
SEP						
06-07	0.58	0.71	0.085	0.026	120	90
07-08	0.56	0.68	0.090	0.025	98	64
12-13	0.22	0.79	0.140	0.031	120	87
13-16	0.18	0.65	0.110	0.031	120	56
17-18	0.75	0.71	0.140	0.032	110	80
18-19	0.81	0.57	0.120	0.025	90	48
19-23	0.38	0.90	0.065	0.031	140	78
28-28	--	--	0.130	0.026	150	75
28-30	--	--	0.095	0.026	110	57
SEP 30-						
OCT 03	<0.01	0.94	0.050	0.026	190	85

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY

LOCATION.--Lat 43°08'42", long 77°30'44", Monroe County, Hydrologic Unit 04140101, on right bank 4,000 ft upstream from bridge on Blossom Road, 1.8 mi east of Rochester, 1.7 mi downstream from Allen Creek, and 4.4 mi upstream from mouth.

DRAINAGE AREA.--142 mi^2., flow from 8.45 mi^2. noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional discharge measurements water years 1977-80. December 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage is 247.87 ft above sea level (levels by Corps of Engineers). Prior to Oct. 1, 1991, at site 0.8 mi downstream at datum 1.56 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Discharge includes undetermined diversion from Erie (Barge) Canal. Unpublished water-quality records for prior years are available in files of Monroe County Department of Health. Several measurements of water temperature were made during the year.

COOPERATION.--Gage-height record and discharge measurements were provided by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 21	1745	1,420	8.85	Apr. 13	2230	1,300	8.71
Jan. 19	1800	*1,590	*9.02	May 12	1200	1,340	8.76

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	63	128	e58	e100	e140	124	312	79	186	79	35
2	33	104	133	e56	e92	e122	117	238	76	126	120	36
3	32	78	113	e34	e84	e110	114	190	75	120	105	39
4	43	63	109	e52	e75	e102	130	184	74	123	64	39
5	71	55	96	e62	e70	e105	125	187	84	92	55	40
6	256	50	90	e68	e75	e95	126	175	74	79	50	41
7	139	73	82	e70	e76	e90	135	160	158	71	49	78
8	72	70	73	e70	112	e85	143	143	154	67	155	64
9	56	60	e70	e66	163	e80	102	140	153	63	138	52
10	50	58	e56	e64	136	e80	79	274	172	61	77	45
11	46	71	e54	e62	e130	e85	76	513	116	65	67	44
12	43	134	e52	e65	e100	e95	85	1160	224	66	58	46
13	42	91	e54	e62	e95	e116	558	777	248	64	54	260
14	105	97	83	e65	e90	191	1020	377	142	59	49	144
15	90	282	172	e70	e82	381	462	251	99	135	48	73
16	56	232	134	e75	e75	358	269	210	83	117	52	63
17	49	178	103	e160	e70	252	227	182	76	77	48	96
18	45	157	88	418	e67	212	238	161	72	69	45	189
19	44	225	e75	1230	e75	206	223	152	220	85	42	84
20	43	227	e58	1130	218	297	244	138	365	93	41	61
21	986	318	e68	480	726	447	222	353	396	66	41	54
22	542	287	e70	267	442	347	217	278	387	58	41	61
23	221	199	e68	221	259	251	476	193	452	54	58	62
24	129	154	e68	429	255	206	765	200	259	51	54	53
25	91	127	e66	429	228	205	492	153	189	60	43	54
26	77	116	e64	262	e180	236	318	131	146	72	39	49
27	68	123	e60	269	e150	189	247	115	107	62	37	48
28	63	150	e64	239	e180	160	194	104	85	55	37	90
29	63	151	e60	190	e160	152	194	96	85	51	37	95
30	61	115	e58	e160	---	144	268	87	361	109	36	59
31	60	---	e62	e120	---	133	---	83	---	94	36	---
TOTAL	3708	4108	2531	7003	4565	5672	7990	7717	5211	2550	1855	2154
MEAN	120	137	81.6	226	157	183	266	249	174	82.3	59.8	71.8
MAX	986	318	172	1230	726	447	1020	1160	452	186	155	260
MIN	32	50	52	34	67	80	76	83	72	51	36	35

e Estimated

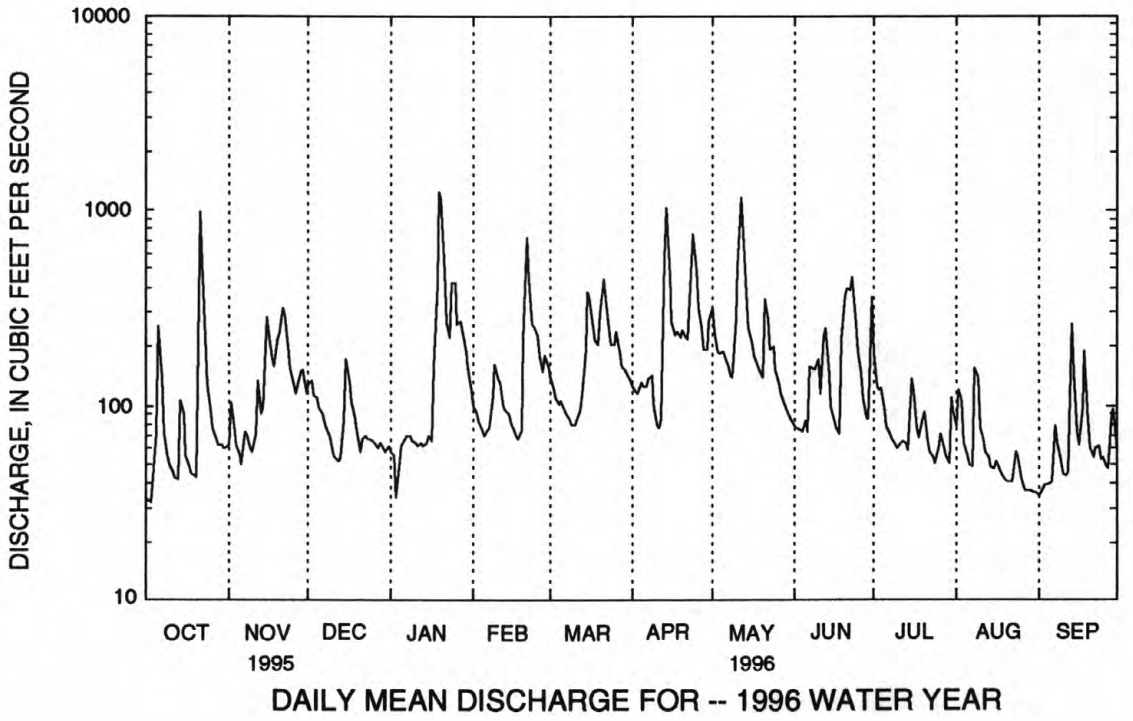
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1996, BY WATER YEAR (WY)

MEAN	86.7	122	140	132	166	212	234	149	95.4	70.8	81.8	71.6
MAX	188	224	242	279	347	348	468	292	186	181	253	132
(WY)	1987	1986	1987	1993	1981	1993	1993	1984	1989	1992	1992	1992
MIN	39.5	54.5	49.5	60.8	67.1	122	82.8	62.1	46.9	42.2	40.8	39.8
(WY)	1983	1992	1990	1989	1989	1988	1995	1995	1988	1983	1985	1995

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1981 - 1996	
ANNUAL TOTAL	31253		55064			
ANNUAL MEAN	85.6		150		131	
HIGHEST ANNUAL MEAN					182	1993
LOWEST ANNUAL MEAN					80.1	1995
HIGHEST DAILY MEAN	986	Oct 21	1230	Jan 19	1630	Apr 2 1993
LOWEST DAILY MEAN	29	a	32	b	29	c
ANNUAL SEVEN-DAY MINIMUM	30	Aug 21	36	Aug 27	30	Aug 21 1995
INSTANTANEOUS PEAK FLOW			1590	Jan 19	1710	Apr 2 1993
INSTANTANEOUS PEAK STAGE			9.02	Jan 19	9.12	Apr 2 1993
INSTANTANEOUS LOW FLOW			31	Oct 3	27	Aug 31 1995
10 PERCENT EXCEEDS	152		279		251	
50 PERCENT EXCEEDS	63		94		87	
90 PERCENT EXCEEDS	35		49		45	

a Aug. 24, 25, 26.
b Oct. 1, 3.
c Aug. 20, 1985, Aug. 24, 25, 26, 1995.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to current year.
CHEMICAL DATA: 1983-96 (e).
NUTRIENT DATA: 1983-96 (e).
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1994 to current year.
INSTRUMENTATION.--Water-quality monitor since October 1983. Water temperature recorder since November 1994 provides 15-minute-interval readings.
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.
REMARKS.--Prior to 1994 water year, data published in "Water Resources of Monroe County New York, Water Years 1984-88", U. S. Geological Survey open-file report 93-370.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 26.0°C, July 14, 15, 1995; minimum 0.0°C, many days during winter period.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 23.5°C, Aug. 7; minimum 0.0°C, many days during winter period.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.0	12.5	14.0	10.0	8.5	9.0	5.0	3.0	4.0	2.5	1.5	2.5
2	16.5	13.5	15.0	12.5	9.5	11.5	4.5	3.0	3.5	1.5	.5	1.0
3	15.5	14.5	15.0	12.5	10.0	11.5	4.5	2.5	3.5	.5	.5	.5
4	15.0	14.5	14.5	10.0	7.0	8.0	4.5	3.5	4.0	.5	.0	.5
5	15.0	14.0	14.5	7.0	6.0	6.5	3.5	2.5	3.5	.5	.0	.0
6	16.0	15.0	15.5	7.0	5.0	6.0	4.0	2.0	3.0	.5	.0	.5
7	16.0	15.5	16.0	7.0	5.5	6.0	2.0	1.5	2.0	.5	.5	.5
8	15.5	14.0	15.0	6.5	5.0	6.0	2.0	1.0	1.5	.5	.5	.5
9	15.0	13.5	14.0	5.5	4.5	5.0	2.0	1.0	1.5	.5	.5	.5
10	14.5	12.0	13.0	6.5	4.5	5.5	1.0	.0	.5	.5	.5	.5
11	15.0	12.5	13.5	9.0	6.5	8.0	.5	.0	.0	.5	.0	.5
12	15.5	12.5	14.0	9.0	6.5	7.5	.5	.0	.5	.5	.5	.5
13	16.0	13.5	14.5	6.5	5.5	6.0	.5	.5	.5	.5	.5	.5
14	15.5	13.5	14.5	6.0	5.5	5.5	.5	.5	.5	1.0	.5	1.0
15	15.0	12.5	14.0	5.5	4.5	4.5	1.5	.5	1.5	1.0	.0	.5
16	12.5	10.5	11.5	5.0	4.0	4.5	2.0	1.5	1.5	1.0	.0	.5
17	11.5	9.5	10.5	5.5	4.5	5.0	2.0	1.5	2.0	1.5	1.0	1.0
18	13.0	10.5	11.5	5.0	4.5	5.0	2.5	2.0	2.0	2.5	1.0	1.5
19	13.0	11.0	12.0	5.5	5.0	5.5	2.0	.0	1.0	3.5	1.0	2.5
20	14.5	11.5	12.5	6.0	5.5	5.5	.5	.0	.0	1.0	.5	.5
21	14.0	11.5	12.5	6.0	5.0	5.5	.5	.0	.5	1.5	.5	1.0
22	11.5	10.5	11.0	5.0	4.5	5.0	.5	.5	.5	2.0	1.0	1.5
23	12.0	10.0	11.0	4.5	4.0	4.5	1.0	.5	1.0	3.0	2.0	2.5
24	12.0	11.0	11.5	4.0	3.5	4.0	1.5	.5	1.0	3.0	1.5	2.5
25	11.5	11.0	11.0	4.0	2.5	3.5	2.0	1.0	1.5	1.5	.5	1.0
26	11.5	9.5	10.5	4.5	3.5	4.0	1.5	.5	1.0	2.0	.5	1.0
27	11.5	11.0	11.0	5.5	4.0	4.5	1.0	.5	.5	3.5	1.5	2.5
28	12.5	11.0	12.0	5.5	4.5	5.0	1.0	.5	.5	1.5	1.0	1.0
29	11.0	9.5	10.0	4.5	3.0	4.0	1.0	.5	.5	1.5	.5	1.0
30	9.5	8.5	9.0	3.5	3.0	3.0	1.5	.5	1.0	1.0	.5	1.0
31	8.5	8.0	8.5	---	---	---	3.0	1.5	2.0	1.0	.0	.5
MONTH	16.5	8.0	12.7	12.5	2.5	5.8	5.0	.0	1.5	3.5	.0	1.0

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY--Continued

WATER-QUALITY RECORDS

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.5	.5	3.0	1.5	2.0	8.0	6.0	7.0	11.0	9.0	10.0
2	1.0	.5	.5	3.5	1.5	2.5	8.0	4.5	6.0	13.0	9.5	11.0
3	.5	.5	.5	3.0	1.5	2.0	6.5	5.0	6.0	12.0	11.0	11.5
4	.5	.5	.5	2.5	1.5	2.0	5.0	4.0	4.5	11.0	10.0	10.5
5	.5	.5	.5	2.5	1.5	2.0	7.5	4.0	5.5	12.5	9.5	11.0
6	.5	.5	.5	2.5	2.0	2.5	8.0	4.5	6.0	14.0	10.5	12.0
7	.5	.5	.5	2.0	1.0	1.5	6.5	5.0	6.0	14.0	10.0	12.0
8	1.0	.5	.5	1.5	.5	1.0	6.5	4.5	5.5	15.5	11.0	13.0
9	1.5	.5	1.0	.5	.0	.5	7.0	4.0	5.5	14.0	13.0	13.5
10	2.0	.5	1.0	1.5	.0	.5	6.5	4.0	5.5	18.0	13.0	15.0
11	2.5	1.0	2.0	1.5	.0	1.0	7.0	5.0	6.0	17.5	11.5	14.5
12	1.0	.0	.5	3.0	.5	1.5	7.5	6.5	7.0	11.5	9.0	10.0
13	.5	.0	.0	4.5	1.5	3.0	7.0	6.0	6.5	11.0	9.0	10.0
14	.5	.5	.5	5.5	3.0	4.0	6.5	6.0	6.5	13.0	9.0	11.0
15	.5	.0	.5	3.5	2.0	3.0	8.0	5.5	7.0	14.0	10.5	12.0
16	.5	.0	.5	3.0	1.0	2.0	8.0	7.0	7.5	13.0	12.0	12.5
17	1.0	.0	.5	4.0	1.0	2.5	7.0	6.0	6.5	16.5	12.0	14.0
18	1.0	.5	.5	6.5	3.0	4.5	9.5	5.5	7.5	19.0	14.0	16.5
19	1.0	.0	.5	7.5	4.5	6.0	11.5	8.5	10.0	20.5	17.0	19.0
20	1.5	.5	1.0	6.5	4.0	5.0	13.0	10.5	11.5	21.5	18.5	19.5
21	1.5	1.0	1.0	4.0	2.5	3.5	13.5	11.5	12.5	20.0	18.0	19.0
22	1.5	1.5	1.5	3.0	2.0	2.5	13.0	10.5	12.0	19.5	17.5	18.0
23	3.0	1.5	2.5	3.5	2.0	2.5	13.0	10.0	11.5	18.5	16.0	17.5
24	3.5	2.5	3.5	5.0	2.0	3.5	10.0	8.0	9.0	17.5	15.5	16.5
25	4.5	2.0	3.0	8.0	4.5	6.0	10.0	8.5	9.0	16.5	13.5	15.0
26	4.5	2.5	3.5	6.5	4.0	5.5	11.5	10.0	10.5	15.5	13.5	14.5
27	3.5	2.5	3.0	5.0	2.5	3.5	11.0	9.0	9.5	16.5	13.0	15.0
28	4.5	3.0	4.0	5.0	2.0	3.5	11.5	7.5	9.5	17.0	14.0	15.5
29	3.0	1.5	2.5	5.0	4.0	4.5	10.5	9.5	9.5	16.5	13.5	15.0
30	---	---	---	7.5	3.5	5.5	11.0	9.0	10.0	16.5	12.5	14.5
31	---	---	---	9.0	4.5	7.0	---	---	---	17.0	13.0	15.0
MONTH	4.5	.0	1.3	9.0	.0	3.1	13.5	4.0	7.9	21.5	9.0	14.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.0	13.5	15.5	23.0	20.5	21.5	21.0	18.5	19.5	20.5	17.0	18.5
2	19.0	15.0	17.0	22.0	19.5	21.0	20.5	18.0	19.0	20.5	17.0	18.5
3	18.0	16.5	17.0	20.5	18.0	19.0	21.0	18.5	19.5	21.0	17.0	19.0
4	17.5	16.0	16.5	19.0	17.0	18.0	21.5	18.5	20.0	20.5	18.0	19.0
5	17.0	15.5	16.0	20.5	16.5	18.0	22.5	19.0	20.5	21.0	18.5	20.0
6	17.5	14.5	16.0	19.5	17.5	18.5	23.0	19.5	21.0	22.0	19.0	20.5
7	17.5	16.0	17.0	20.5	18.0	19.0	23.5	20.5	21.5	21.0	20.0	20.5
8	17.5	16.5	17.0	22.0	18.5	20.0	22.0	21.0	21.5	20.5	19.5	20.0
9	19.0	16.0	17.5	20.5	18.5	19.5	22.0	20.5	21.0	21.0	18.5	19.5
10	21.0	17.5	19.0	19.0	17.0	18.0	21.5	19.0	20.0	20.5	19.0	19.5
11	22.5	19.0	20.5	20.0	16.0	18.0	20.0	17.5	19.0	20.5	17.5	19.0
12	21.0	20.0	20.5	19.5	17.0	18.0	19.5	17.5	18.5	19.0	18.0	18.5
13	21.0	19.5	20.0	21.0	18.0	19.5	20.5	17.5	19.0	18.0	17.0	17.5
14	21.0	18.5	20.0	21.5	19.0	20.0	21.5	18.0	19.5	17.0	16.0	16.5
15	22.0	18.5	20.5	21.0	19.0	20.0	21.5	18.5	20.0	16.5	15.5	16.0
16	21.5	18.5	20.0	21.5	19.0	20.0	20.5	19.0	20.0	17.0	15.5	16.0
17	20.5	18.5	19.5	22.0	19.5	20.5	21.0	18.5	19.5	16.5	15.5	16.0
18	19.0	18.0	18.5	22.5	19.0	21.0	21.0	18.0	19.5	17.0	15.5	16.5
19	20.0	18.0	19.0	21.0	20.0	20.5	21.5	18.0	19.5	17.0	14.5	15.5
20	21.5	19.0	20.0	20.5	17.5	19.0	21.5	18.5	20.0	17.0	14.0	15.5
21	21.5	20.0	21.0	21.0	17.5	19.0	22.5	19.5	21.0	17.0	14.0	15.5
22	21.0	19.5	20.5	21.0	17.5	19.5	22.0	18.5	20.5	16.0	15.0	15.5
23	20.5	19.0	20.0	20.5	18.5	19.5	22.5	20.0	21.0	15.5	13.5	15.0
24	20.0	19.0	19.5	20.5	18.0	19.5	22.5	20.0	21.0	13.5	12.5	12.5
25	20.5	18.5	19.5	21.5	18.5	20.0	21.5	18.5	20.0	13.5	12.5	13.0
26	20.0	17.5	18.5	21.0	19.0	19.5	22.0	18.5	20.0	14.0	11.5	13.0
27	20.5	17.0	18.5	19.5	18.5	19.0	21.0	19.0	20.0	15.0	13.0	14.0
28	21.0	18.0	19.5	20.0	16.5	18.5	21.5	18.5	19.5	16.0	14.5	15.5
29	19.5	18.5	19.0	20.5	16.5	18.5	20.5	17.5	19.0	15.5	14.5	15.0
30	21.5	19.5	21.0	21.5	18.5	20.0	20.5	17.5	19.0	15.0	13.0	14.0
31	---	---	---	21.5	19.0	20.0	20.0	16.5	18.0	---	---	---
MONTH	22.5	13.5	18.8	23.0	16.0	19.4	23.5	16.5	19.9	22.0	11.5	16.8

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY--Continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	BEGIN TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)
OCT								
02-05	1040	1240	36	6.1	--	--	--	--
05-06	1340	0840	251	95	--	--	418	42
06-10	1205	1105	93	32	--	--	91	11
10-12	1130	1030	46	9.0	--	--	--	--
12-14	1105	0605	42	2.7	--	--	--	--
14-14	0705	1805	118	38	--	--	118	15
14-16	1905	1005	90	11	--	--	--	--
16-19	1155	1055	47	6.1	--	--	--	--
19-21	1115	0215	47	2.3	--	--	--	--
21-21	0315	1815	1030	190	526	137	1000	81
21-23	1915	1015	551	100	640	129	353	36
23-26	1115	1015	120	24	--	--	--	--
26-30	1120	1020	66	13	--	--	--	--
OCT 30-								
NOV 02	1100	0100	61	7.0	--	--	--	--
02-02	0200	1000	95	14	--	--	--	--
02-06	1105	1005	70	12	--	--	--	--
06-07	1055	0955	68	14	--	--	--	--
07-08	1055	0655	87	8.5	--	--	--	--
09-11	1100	1800	59	4.7	--	--	--	--
11-12	1900	1000	142	42	--	--	125	17
12-13	1100	0600	111	13	--	--	--	--
13-14	1115	1315	85	8.3	--	--	--	--
14-15	1415	2215	232	22	--	--	--	--
16-18	1205	1505	180	6.3	--	--	--	--
18-19	1605	1505	198	5.0	--	--	--	--
19-20	1605	1105	231	8.7	--	--	--	--
20-21	1145	1845	274	14	--	--	--	--
21-22	1945	0645	351	1.8	--	--	--	--
22-27	1025	0925	159	5.3	--	--	--	--
27-30	1050	0750	143	3.8	--	--	--	--
NOV 30-								
DEC 04	1045	0945	121	5.0	--	--	--	--
04-07	1045	0945	94	2.5	--	--	--	--
07-11	1100	1000	e67	4.2	--	--	--	--
11-14	1200	1100	e58	3.5	1430	280	<6	<6
14-15	1145	0645	140	11	--	--	--	--
15-18	0745	0945	122	6.7	--	--	--	--
18-19	1050	1350	e81	4.5	--	--	--	--
22-23	1125	0625	e69	5.3	--	--	--	--
26-27	1125	0425	e63	3.1	--	--	--	--
29-30	1110	1810	e59	4.0	--	--	--	--
JAN								
02-03	1115	0815	e48	2.9	--	--	--	--
04-05	1200	0300	e54	6.0	--	--	--	--
08-10	1110	0910	e67	12	--	--	--	--
11-12	1555	0955	e64	8.5	--	--	--	--
12-16	1045	0915	e66	6.6	--	--	--	--
16-18	1045	0945	e191	30	1700	232	112	15
18-19	1025	2125	933	240	1160	215	837	79
19-22	2225	0525	777	300	792	327	936	129
22-25	1125	1025	336	45	1150	194	115	14
25-29	1040	0940	268	32	1100	198	72	9
JAN 29-								
FEB 01	1100	1000	e144	7.2	1250	239	26	<7
01-05	1045	0945	e86	4.8	1340	273	--	--
05-08	1050	0950	e80	4.6	--	--	--	--
08-09	1050	0550	148	17	--	--	--	--
09-12	0650	0950	e136	22	--	--	--	--
12-16	1210	0610	e90	4.3	--	--	--	--
16-19	1025	0925	e71	5.2	--	--	--	--
19-20	1025	0925	e131	6.1	--	--	--	--
20-21	1115	0615	479	150	--	--	465	41
21-22	0715	1015	634	120	--	--	334	27
22-26	1135	1035	258	27	--	--	--	--
26-29	1110	0110	e168	6.0	--	--	--	--

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY--Continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT							
02-05	<0.01	0.94	0.76	0.065	0.018	120	250
05-06	<0.01	1.6	0.60	0.560	0.015	75	160
06-10	<0.01	0.56	0.57	0.160	0.020	93	160
10-12	<0.01	0.63	0.64	0.070	0.020	120	210
12-14	<0.01	0.50	0.64	0.040	0.020	120	220
14-14	<0.01	0.51	0.61	0.200	0.017	85	150
14-16	<0.01	0.54	0.47	0.090	0.018	94	150
16-19	<0.01	0.54	0.63	0.070	0.018	130	220
19-21	<0.01	0.68	0.55	0.040	0.017	120	220
21-21	<0.01	1.6	0.38	0.970	0.023	49	74
21-23	<0.01	0.41	0.81	0.510	0.036	73	86
23-26	<0.01	<0.01	1.1	0.120	0.028	110	150
26-30	<0.01	0.62	0.99	0.075	0.022	120	200
OCT 30-							
NOV 02	<0.01	0.58	0.94	0.055	0.020	120	220
02-02	0.02	0.56	0.96	0.095	0.019	100	190
02-06	<0.01	0.66	0.80	0.080	0.020	110	180
06-07	<0.01	0.97	0.81	0.110	0.016	120	200
07-08	<0.01	0.82	0.78	0.080	0.015	110	170
09-11	<0.01	1.5	0.82	0.055	0.015	150	190
11-12	<0.01	1.1	0.65	0.210	0.016	130	120
12-13	<0.01	0.65	0.66	0.080	0.015	130	140
13-14	0.01	0.66	0.79	0.070	0.017	160	160
14-15	<0.01	0.80	0.73	0.110	0.021	200	110
16-18	<0.01	1.2	1.0	0.060	0.019	170	130
18-19	<0.01	1.2	1.2	0.065	0.015	190	120
19-20	<0.01	1.1	1.1	0.070	0.015	160	100
20-21	<0.01	1.5	1.5	0.130	0.024	140	110
21-22	<0.01	1.5	1.6	0.140	0.023	130	98
22-27	0.01	0.65	<0.05	0.070	0.018	130	130
27-30	0.01	1.0	1.5	0.040	0.013	150	150
NOV 30-							
DEC 04	<0.01	1.1	1.6	0.055	0.015	160	150
04-07	<0.01	0.99	1.6	0.050	0.013	140	160
07-11	<0.01	0.98	1.4	0.045	0.012	170	180
11-14	<0.01	0.96	1.6	0.050	0.011	170	210
14-15	0.01	0.64	1.6	0.085	0.012	480	180
15-18	<0.01	0.81	1.3	0.070	0.013	260	150
18-19	<0.01	1.0	1.4	0.050	0.011	170	160
22-23	<0.01	0.80	1.4	0.070	0.009	200	180
26-27	<0.01	1.0	1.4	0.025	0.011	220	190
29-30	<0.01	1.0	1.4	0.045	0.032	180	190
JAN							
02-03	<0.01	0.83	1.3	0.035	0.010	210	190
04-05	<0.01	0.72	1.4	0.065	0.008	190	200
08-10	<0.01	0.72	1.4	0.150	0.010	170	190
11-12	<0.01	0.88	1.3	0.100	0.007	200	180
12-16	<0.01	0.45	1.3	0.055	0.013	240	180
16-18	0.01	0.76	1.3	0.140	0.014	320	140
18-19	0.03	1.3	1.4	1.35	0.018	230	66
19-22	0.03	4.3	1.7	2.15	0.021	120	63
22-25	0.03	1.2	1.7	0.200	0.023	190	98
25-29	0.02	0.88	1.7	0.150	0.023	180	93
JAN 29-							
FEB 01	0.01	0.44	1.9	0.075	0.016	170	140
01-05	<0.01	0.44	2.0	0.035	0.013	170	170
05-08	0.01	0.34	2.0	0.035	0.011	160	190
08-09	0.05	0.58	1.8	0.075	0.018	250	150
09-12	0.03	0.57	1.6	0.095	0.014	200	130
12-16	<0.01	0.36	1.6	0.040	0.010	200	150
16-19	<0.01	0.46	1.7	0.035	0.014	200	170
19-20	<0.01	0.46	1.5	0.045	0.014	210	180
20-21	0.09	1.2	1.3	0.470	0.023	320	81
21-22	0.06	0.82	1.2	0.410	0.038	170	59
22-26	0.01	0.48	1.5	0.120	0.021	170	88
26-29	<0.01	0.53	1.5	0.065	0.013	180	110

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY--Continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	BEGIN TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)
FEB 29-								
MAR 04	1055	0955	e127	4.2	--	--	--	--
04-07	1110	1010	e99	2.1	--	--	--	--
07-11	1120	1020	e83	1.5	--	--	--	--
11-14	1050	0950	e114	1.0	--	--	--	--
14-16	1045	0145	330	8.8	--	--	--	--
16-18	0245	0945	284	25	--	--	--	--
18-19	1125	2225	207	1.5	--	--	--	--
19-21	2325	0225	311	22	--	--	--	--
21-25	1055	0955	284	12	--	--	--	--
25-28	1045	0945	206	5.7	--	--	--	--
MAR 28-								
APR 01	1125	1025	143	1.7	--	--	--	--
01-04	1055	0955	119	2.4	--	--	--	--
04-08	1055	0955	131	1.6	--	--	--	--
08-11	1040	0940	98	1.6	--	--	--	--
11-12	1040	1340	75	2.5	--	--	--	--
12-14	1440	0140	475	34	1020	198	163	17
14-15	0240	0940	866	120	695	172	354	30
14-17	1100	0820	287	25	930	200	56	6
18-22	1045	0945	229	4.0	1040	218	20	<4
22-24	1120	0720	461	35	--	--	--	--
24-25	0820	1020	686	100	--	--	--	--
25-27	1105	1805	322	21	--	--	--	--
29-30	1045	2145	240	5.0	--	--	--	--
APR 30-								
MAY 02	2245	0945	296	18	--	--	--	--
02-06	1055	0955	192	3.2	--	--	--	--
06-09	1125	1025	154	2.9	--	--	--	--
09-10	1120	0620	147	2.0	--	--	--	--
10-12	0720	1420	612	55	--	--	267	28
12-13	1520	1020	1070	70	--	--	313	26
13-16	1105	1005	358	27	--	--	--	--
16-20	1040	0940	168	16	--	--	--	--
23-24	1055	0955	205	31	--	--	88	12
24-28	1055	0955	137	5.7	--	--	--	--
MAY 30-								
JUN 03	1140	1040	80	3.9	--	--	--	--
03-06	1135	1035	77	5.9	--	--	--	--
06-07	1115	0215	74	3.5	--	--	--	--
07-09	0315	1015	153	16	--	--	--	--
09-09	1115	2215	174	14	--	--	--	--
09-10	2315	1015	202	40	--	--	169	26
10-11	1115	2215	128	17	--	--	--	--
11-13	2315	0415	236	220	--	--	519	72
13-17	1125	1025	118	65	--	--	183	26
17-19	1100	0100	73	22	--	--	--	--
19-19	0200	1300	215	70	--	--	--	--
19-20	1400	1000	232	100	--	--	--	--
20-24	1110	1010	408	120	--	--	--	--
24-27	1140	1040	171	50	--	--	95	15
27-29	1040	1740	87	21	--	--	--	--
29-30	1840	0540	279	50	--	--	244	32
JUN 30-								
JUL 01	0640	0940	289	50	--	--	154	21
01-05	1130	1030	125	27	--	--	--	--
05-08	1045	0925	77	24	--	--	--	--
08-11	1115	1015	63	11	--	--	--	--
11-15	1040	0940	63	40	--	--	98	--
15-15	1140	1640	202	40	--	--	--	--
15-18	1740	1040	102	25	--	--	--	--
18-19	2305	1405	85	25	--	--	--	--
19-22	1505	1005	77	3.0	--	--	--	--
22-24	1120	0420	57	18	--	--	--	--
25-27	1050	2150	67	7.4	--	--	--	--

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY--Continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
FEB 29-							
MAR 04	<0.01	0.55	1.6	0.045	0.013	190	130
04-07	<0.01	0.46	1.6	0.030	0.009	220	150
07-11	<0.01	0.39	1.6	0.025	0.008	220	160
11-14	<0.01	0.38	1.4	0.035	0.011	290	150
14-16	<0.01	0.50	1.3	0.110	0.007	270	97
16-18	<0.01	0.57	1.5	0.120	0.006	150	77
18-19	<0.01	0.50	1.4	0.040	0.006	150	100
19-21	<0.01	0.55	1.3	0.170	0.006	200	82
21-25	<0.01	0.41	1.4	0.070	0.006	180	83
25-28	<0.01	0.50	1.2	0.045	0.004	170	98
MAR 28-							
APR 01	<0.01	0.54	1.3	0.030	0.004	160	120
01-04	<0.01	0.57	1.2	0.028	0.002	170	140
04-08	<0.01	0.54	1.3	0.020	0.003	180	130
08-11	<0.01	0.37	1.2	0.020	<0.005	170	130
11-12	0.02	0.37	1.2	0.025	0.004	160	140
12-14	0.06	0.42	1.1	0.220	0.004	150	100
14-15	0.04	1.0	1.1	0.480	0.005	100	56
14-17	<0.01	0.48	1.2	0.090	0.005	120	81
18-22	<0.01	0.48	1.1	0.040	0.005	140	98
22-24	<0.01	0.81	1.0	0.170	0.006	120	76
24-25	<0.01	1.2	0.99	0.310	0.009	92	53
25-27	<0.01	0.50	1.1	0.110	0.009	110	76
29-30	<0.01	0.60	1.2	0.045	0.008	130	--
APR 30-							
MAY 02	<0.01	0.68	1.0	0.085	0.008	100	--
02-06	<0.01	0.59	1.1	0.040	0.006	120	110
06-09	<0.01	0.39	1.0	0.035	0.005	130	120
09-10	<0.01	<0.10	0.96	0.060	0.005	100	130
10-12	<0.01	<0.10	0.83	0.290	0.006	100	62
12-13	<0.01	0.40	0.79	0.370	0.008	58	36
13-16	<0.01	0.65	0.96	0.160	0.010	98	76
16-20	<0.01	0.60	0.96	0.110	0.010	110	110
23-24	<0.01	0.65	0.85	0.190	0.011	110	90
24-28	0.07	0.34	0.98	0.055	0.012	120	120
MAY 30-							
JUN 03	0.03	0.49	1.1	0.220	0.002	130	170
03-06	0.03	0.29	1.2	0.030	0.007	130	180
06-07	0.01	0.31	0.99	0.050	0.006	130	160
07-09	<0.01	0.48	1.0	0.120	0.019	110	130
09-09	<0.01	0.64	1.0	0.070	0.012	120	130
09-10	<0.01	0.78	0.96	0.220	0.011	91	100
10-11	<0.01	0.58	1.2	0.120	0.017	110	110
11-13	<0.01	0.83	1.4	0.780	0.021	90	89
13-17	<0.01	0.91	1.4	0.270	0.035	110	120
17-19	<0.01	0.38	1.4	0.100	0.030	130	160
19-19	<0.01	0.96	1.2	0.320	0.027	100	130
19-20	<0.01	0.48	0.99	0.400	0.025	80	92
20-24	0.03	0.0	1.0	0.420	0.041	68	59
24-27	<0.01	0.53	1.2	0.035	0.034	89	92
27-29	<0.01	0.43	1.2	0.120	0.029	120	140
29-30	<0.01	0.97	1.2	0.340	0.022	85	93
JUN 30-							
JUL 01	0.02	0.41	1.1	0.245	0.026	94	92
01-05	0.01	0.76	1.2	0.035	0.031	110	110
05-08	0.02	0.38	1.3	0.035	0.030	120	160
08-11	<0.01	0.23	1.3	0.095	0.022	130	190
11-15	0.01	<0.10	1.3	<0.005	0.017	120	190
15-15	<0.01	0.38	0.99	<0.005	0.015	92	120
15-18	<0.01	0.41	0.96	<0.005	0.017	96	130
18-19	<0.01	0.64	1.0	0.110	0.021	110	150
19-22	<0.01	0.63	0.96	0.150	0.023	99	140
22-24	<0.01	1.0	1.1	0.090	0.018	120	180
25-27	<0.01	<0.10	1.0	0.110	0.016	120	170

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	BEGIN TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)
AUG								
01-02	1130	1430	79	22	--	--	--	--
02-03	1530	0230	210	38	--	--	192	27
03-03	0330	1830	99	39	--	--	116	16
05-05	1120	1920	54	35	--	--	174	29
08-09	1110	0610	221	50	--	--	358	50
12-15	1115	1015	52	22	--	--	--	--
15-18	1115	1415	49	7.5	--	--	--	--
22-23	1105	1005	40	6.4	--	--	--	--
23-23	1105	2205	74	6.2	--	--	--	--
23-26	2305	1005	47	16	--	--	--	--
26-30	1110	1010	37	13	--	--	--	--
AUG 30-SEP 03	1105	1005	36	10	--	--	--	--
03-05	1125	1225	39	2.4	--	--	--	--
05-07	1115	0215	41	1.3	--	--	--	--
07-07	0315	2215	83	3.6	--	--	--	--
07-09	2315	1015	62	3.6	--	--	--	--
09-12	1125	1025	45	2.8	--	--	--	--
16-17	1440	1040	61	16	--	--	--	--
17-18	1140	0140	150	16	--	--	--	--
18-19	0240	1340	144	24	--	--	--	--
19-23	1125	1025	62	8.7	--	--	--	--
23-26	1120	1020	54	5.2	--	--	--	--
26-28	1150	0650	49	5.0	--	--	--	--
28-28	0750	2250	103	6.1	--	--	--	--
28-30	2350	1050	86	16	--	--	--	--
SEP 30-OCT 03	1130	1030	55	4.5	--	--	--	--

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
AUG							
01-02	0.02	0.52	0.86	0.115	0.017	100	150
02-03	<0.01	1.6	0.80	0.310	0.015	86	120
03-03	<0.01	0.29	0.93	0.205	0.015	110	140
05-05	<0.01	<0.10	0.95	0.240	0.016	120	190
08-09	<0.01	0.53	0.89	<0.005	0.022	100	130
12-15	<0.01	0.40	0.95	0.110	0.018	120	190
15-18	<0.01	0.24	0.93	0.080	0.011	130	210
22-23	0.06	0.33	0.77	0.055	0.010	130	230
23-23	0.01	0.42	0.88	0.050	0.010	120	210
23-26	0.01	0.42	0.88	0.100	0.011	120	200
26-30	<0.01	0.75	0.91	0.110	0.010	130	230
AUG 30-SEP 03	<0.01	0.58	0.94	0.065	0.007	130	250
03-05	<0.01	0.69	0.93	0.210	0.005	130	250
05-07	<0.01	0.44	0.92	0.020	0.006	130	250
07-07	0.02	0.85	0.85	0.050	0.007	110	200
07-09	<0.01	0.78	0.81	0.040	0.006	98	170
09-12	<0.01	0.25	0.99	0.030	0.009	130	210
16-17	0.12	0.31	0.83	0.085	0.012	120	190
17-18	0.24	0.12	0.88	0.120	0.011	110	170
18-19	0.05	0.65	0.69	0.150	0.011	79	120
19-23	0.07	0.41	0.97	0.060	0.015	120	180
23-26	0.01	0.22	1.1	0.050	0.016	120	200
26-28	0.01	0.19	1.1	0.045	0.015	130	210
28-28	<0.01	0.27	1.0	0.070	0.013	120	190
28-30	<0.01	0.36	0.81	0.085	0.014	96	150
SEP 30-OCT 03	<0.01	0.33	0.92	0.045	0.018	120	190

0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY

LOCATION.--Lat 43°10'34", long 77°31'37", Monroe County, Hydrologic Unit 04140101, on right bank 25 ft upstream from bridge on Empire Boulevard (Route 404), 200 ft upstream from mouth at south end of Irondequoit Bay, and 1.5 mi east of Rochester.

DRAINAGE AREA.--151 mi^2, flow from 8.45 mi^2 noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1990 to current year.

GAGE.--Ultrasonic velocity meter, water-stage recorder, and crest-stage gage. Datum of gage is 242.66 ft above sea level (levels by Corps of Engineers).

REMARKS.--Records good except those for estimated daily discharges, which are fair. Records affected by backwater from Irondequoit Bay. Discharge includes undetermined diversion from Erie (Barge) Canal. Undetermined discharge (usually less than 5 percent of the total flow) bypasses gage through culvert 900 ft west of main channel. Unpublished gage-height record for March 1989 to May 1990 is available in files of U.S. Geological Survey. Unpublished water-quality records are available in files of Monroe County Department of Health.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 22	0215	1,020	a3.77	May 12	1815	1,070	a5.03
Jan. 20	0930	*1,660	a4.50	June 23	1945	(a)	*a5.29
Apr. 14	1330	989	a4.00				

a Backwater from Irondequoit Bay.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	70	e133	e64	102	139	121	311	e84	183	73	e38
2	36	111	e138	e63	104	132	117	234	e80	120	96	e38
3	36	86	e130	e37	90	127	116	e190	e75	110	118	e40
4	48	69	108	e56	84	99	e136	e180	e70	117	e63	e42
5	50	67	107	e64	77	110	125	e180	e80	99	e55	e42
6	294	61	96	e65	82	e104	125	e165	e70	e67	e50	e40
7	125	70	91	e65	81	97	132	e150	133	e73	e50	78
8	e84	80	81	e64	104	e92	e141	e145	146	e65	e150	66
9	e66	68	75	e65	176	e86	108	e143	133	e60	e140	51
10	e57	61	60	e66	151	e86	82	e199	172	54	87	e48
11	e51	67	e57	e68	e145	e90	79	438	109	e57	68	45
12	e46	133	e57	e68	107	e100	e89	778	200	61	58	45
13	e44	98	60	e70	98	120	364	802	234	58	e54	216
14	97	70	70	e74	e100	175	869	422	132	53	e50	181
15	106	301	179	e80	e90	380	633	248	82	e130	e50	77
16	55	253	148	84	e84	397	e293	e190	84	e130	e55	58
17	54	184	116	169	e78	280	e227	e180	71	71	e50	88
18	43	155	93	406	e76	225	e223	e160	65	66	e48	207
19	44	217	83	817	78	203	e224	e150	201	64	e46	99
20	41	222	61	1250	165	301	232	e140	298	e110	43	63
21	535	280	e76	681	647	470	e220	e320	407	76	e42	57
22	752	295	e76	307	542	392	e197	e300	318	58	e42	e60
23	286	196	e73	231	294	279	e363	e190	430	50	e60	e66
24	146	147	e71	381	265	223	656	e200	272	43	e58	53
25	102	119	e70	472	241	216	582	e150	186	e60	e50	55
26	84	110	e70	292	194	244	e345	e130	142	e75	e42	48
27	76	111	e68	270	165	199	260	e120	98	e65	e40	50
28	69	141	e68	253	195	160	196	e110	89	e60	e40	e80
29	61	151	e66	181	191	151	e185	e95	83	56	e38	105
30	65	120	e65	159	---	139	e247	90	321	101	37	69
31	64	---	e64	107	---	127	---	73	---	97	e38	---
TOTAL	3658	4113	2710	7029	4806	5943	7687	7183	4865	2489	1891	2205
MEAN	118	137	87.4	227	166	192	256	232	162	80.3	61.0	73.5
MAX	752	301	179	1250	647	470	869	802	430	183	150	216
MIN	36	61	57	37	76	86	79	73	65	43	37	38

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1996, BY WATER YEAR (WY)

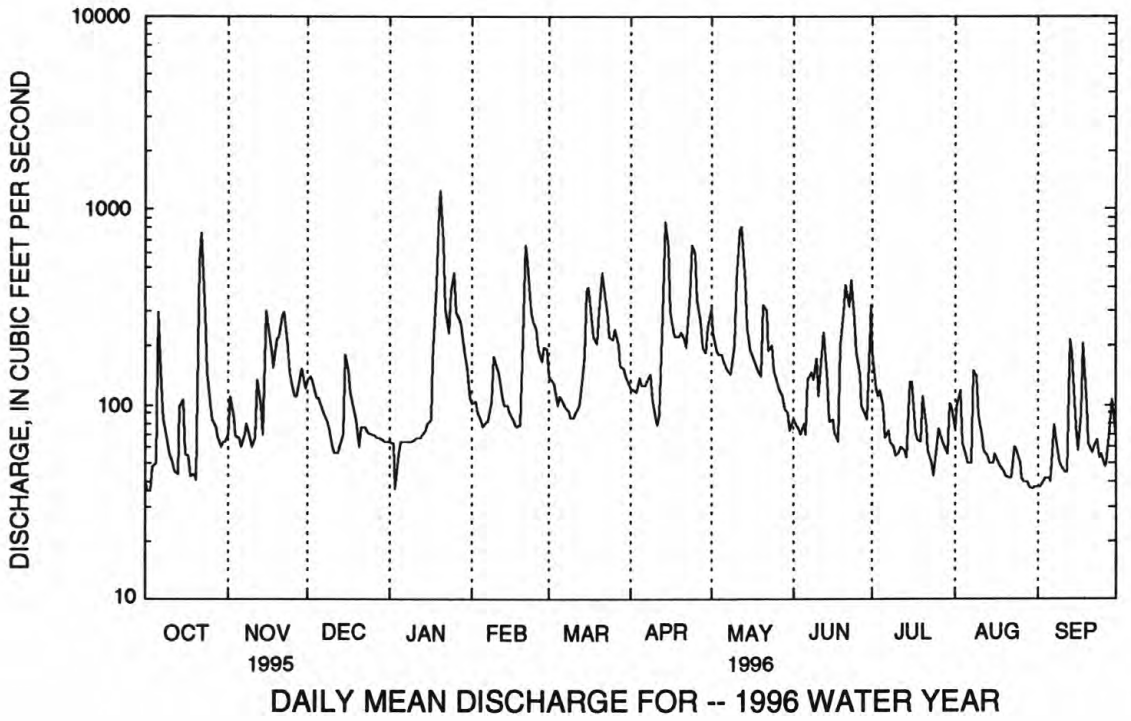
MEAN	89.0	125	141	165	144	269	272	134	92.4	78.2	90.1	72.0
MAX	124	208	226	286	199	351	481	232	162	181	262	132
(WY)	1991	1993	1991	1993	1994	1993	1993	1996	1996	1992	1992	1992
MIN	52.2	63.3	87.4	85.6	85.6	160	82.0	63.8	49.9	50.3	48.7	38.1
(WY)	1995	1992	1996	1994	1995	1995	1995	1995	1995	1991	1995	1995

0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY--continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1990 - 1996	
ANNUAL TOTAL	31764		54579			
ANNUAL MEAN	87.0		149		140	
HIGHEST ANNUAL MEAN					183	1993
LOWEST ANNUAL MEAN					80.3	1995
HIGHEST DAILY MEAN	752	Oct 22	1250	Jan 20	1870	Apr 2 1993
LOWEST DAILY MEAN	24	Aug 27	36	a	24	Aug 27 1995
ANNUAL SEVEN-DAY MINIMUM	27	Aug 24	38	Aug 27	27	Aug 24 1995
INSTANTANEOUS PEAK FLOW			1660	Jan 20	2130	Apr 3 1993
INSTANTANEOUS PEAK STAGE			b5.29	Jun 23	b6.64	Apr 23 1993
10 PERCENT EXCEEDS	151		296		270	
50 PERCENT EXCEEDS	66		98		90	
90 PERCENT EXCEEDS	36		50		45	

a Oct. 2, 3.

b Backwater from Irondequoit Bay.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY--continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1989 to current year.
CHEMICAL DATA: 1989-96 (e).
NUTRIENT DATA: 1989-96 (e).
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1994 to current year.
INSTRUMENTATION. --Water-quality monitor since September 1989. Water-temperature recorder since November 1994 provides 15-minute-interval readings.
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.
REMARKS.--Prior to 1994 water year, data published in "Water Resources of Monroe County New York, Water Years 1984-88", U. S. Geological Survey open-file report 93-370.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 29.0°C, July 15, 1995; minimum, 0.0°C, many days during winter period
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 23.0°C, July 25; minimum, 0.0°C, Jan. 20, 21.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.5	13.0	15.5	9.0	8.0	8.5	---	---	---	2.5	1.5	2.0
2	19.0	14.0	16.0	12.5	9.0	11.0	---	---	---	2.0	1.0	1.5
3	17.5	14.5	16.0	12.0	9.5	11.5	---	---	---	1.5	1.0	1.0
4	15.5	14.5	15.0	9.5	6.0	8.0	4.5	3.0	4.0	1.0	1.0	1.0
5	14.5	14.0	14.5	7.0	5.0	6.0	3.0	2.0	2.5	1.0	1.0	1.0
6	16.0	14.0	15.5	6.5	4.5	5.5	3.0	1.0	2.0	1.0	1.0	1.0
7	16.5	15.0	16.0	6.0	5.0	5.5	3.0	.5	1.5	1.0	1.0	1.0
8	15.5	14.0	15.0	6.0	4.0	5.5	3.5	1.0	2.0	1.0	1.0	1.0
9	16.0	13.5	14.5	4.5	3.0	4.0	5.0	1.0	2.5	1.0	1.0	1.0
10	15.5	12.0	14.0	5.0	3.5	4.0	3.5	1.0	2.0	1.0	1.0	1.0
11	16.0	13.0	14.5	8.5	5.0	7.0	2.0	1.0	1.5	1.0	1.0	1.0
12	17.0	12.5	14.5	8.0	5.0	6.5	2.0	1.5	1.5	1.0	1.0	1.0
13	17.5	13.5	15.5	5.0	4.5	5.0	2.5	1.5	1.5	1.0	1.0	1.0
14	16.0	14.0	15.0	5.0	4.5	5.0	2.5	.5	1.5	1.0	1.0	1.0
15	14.5	12.0	13.5	5.0	3.5	4.0	1.5	.5	1.0	1.0	.5	1.0
16	12.0	10.0	11.0	4.5	3.5	4.0	1.5	1.0	1.0	1.5	.5	1.0
17	12.0	9.0	10.5	5.0	3.5	4.0	1.5	1.0	1.5	1.0	.5	.5
18	12.5	9.5	11.0	4.0	3.5	4.0	2.0	1.5	2.0	2.0	.5	1.0
19	13.5	10.5	12.0	5.0	4.0	4.5	2.0	1.5	1.5	2.5	.5	2.0
20	14.5	11.5	13.0	5.5	4.5	5.0	2.0	1.0	1.5	.5	.0	.0
21	14.0	11.0	12.0	5.5	4.5	5.0	1.5	1.0	1.0	5.0	.0	1.5
22	11.0	10.0	10.5	5.0	4.0	4.5	1.5	1.0	1.0	4.0	.5	1.5
23	12.0	9.5	10.5	4.0	3.5	3.5	1.0	1.0	1.0	4.0	1.5	2.0
24	12.0	10.0	11.0	3.5	2.5	3.0	1.0	1.0	1.0	4.5	2.0	2.5
25	11.0	10.0	10.5	3.0	1.5	2.5	1.5	1.0	1.0	2.0	.5	1.0
26	11.5	9.0	10.5	3.5	2.5	3.0	1.5	1.0	1.0	2.5	.5	1.5
27	11.5	10.5	11.0	4.5	3.0	3.5	1.5	1.0	1.0	3.0	1.5	2.5
28	12.0	11.0	11.5	5.0	3.5	4.5	1.0	1.0	1.0	2.0	1.0	1.5
29	11.0	9.0	10.0	3.5	2.5	3.0	1.5	1.0	1.0	2.0	.5	1.0
30	9.5	8.5	9.0	2.5	1.5	2.0	2.0	1.0	1.5	2.0	.5	1.0
31	8.5	7.5	8.0	---	---	---	1.5	1.0	1.0	1.5	.5	1.0
MONTH	19.0	7.5	12.8	12.5	1.5	5.1	---	---	---	5.0	.0	1.2

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.5	.5	1.0	2.0	1.0	1.5	7.5	6.5	7.0	10.5	8.5	9.5
2	1.5	.5	1.0	2.5	1.5	2.0	6.5	5.5	6.0	11.5	9.0	10.0
3	1.5	.5	1.0	2.5	1.0	1.5	6.5	6.0	6.5	11.5	10.0	11.0
4	1.5	.5	1.0	2.0	1.0	1.5	6.0	4.5	5.5	10.5	9.5	10.0
5	1.5	.5	1.0	1.5	1.0	1.0	6.0	4.5	5.0	11.0	9.5	10.0
6	1.5	.5	1.0	1.5	1.0	1.0	6.5	5.5	6.0	12.0	10.0	11.0
7	1.5	.5	1.0	1.5	1.0	1.0	6.5	6.0	6.0	12.0	10.5	11.5
8	1.5	.5	1.0	1.0	1.0	1.0	6.0	5.5	6.0	13.0	11.0	12.0
9	1.5	.5	1.0	1.5	1.0	1.0	6.5	5.0	6.0	13.5	11.5	12.5
10	1.5	.5	1.0	1.0	1.0	1.0	6.5	5.5	6.0	15.0	11.5	13.5
11	2.0	.5	1.5	1.5	1.0	1.0	6.5	6.0	6.0	15.5	13.0	14.5
12	2.0	.5	1.0	1.5	1.0	1.5	7.0	6.5	6.5	13.0	10.5	11.0
13	1.5	.5	1.0	3.0	1.5	2.0	6.5	6.0	6.5	10.5	9.5	10.0
14	1.5	.5	1.0	4.5	3.0	3.5	6.5	6.0	6.0	12.0	9.5	10.5
15	1.0	.5	1.0	4.5	3.0	3.5	7.0	6.0	6.5	12.5	11.0	11.5
16	1.0	.5	1.0	3.5	2.0	3.0	7.5	7.0	7.0	12.5	11.5	12.0
17	1.0	.5	1.0	4.0	2.0	3.0	7.0	6.5	6.5	14.5	11.5	12.5
18	1.0	.5	.5	5.0	3.5	4.0	8.0	6.0	7.0	17.0	12.5	15.0
19	1.0	.5	1.0	6.5	4.5	5.5	9.0	7.5	8.0	19.5	14.5	17.0
20	1.0	.5	.5	6.5	4.5	5.5	11.5	9.0	10.0	20.5	15.0	18.0
21	2.0	.5	1.0	4.5	3.5	4.0	12.0	9.5	11.0	19.5	16.5	17.5
22	2.0	1.5	1.5	3.5	2.5	3.5	11.5	10.0	11.0	18.5	15.5	17.0
23	3.0	2.0	2.5	3.5	2.5	3.0	12.0	10.5	11.0	17.5	15.0	17.0
24	3.5	3.0	3.5	4.5	3.0	3.5	10.5	9.0	9.5	17.0	15.0	16.0
25	4.0	2.5	3.5	7.0	4.5	5.5	9.5	8.5	9.0	16.5	14.5	15.5
26	4.0	3.0	3.5	6.5	5.0	6.0	10.5	8.5	9.5	16.5	14.5	15.5
27	4.0	3.0	3.0	6.0	4.0	5.0	10.5	9.0	9.5	16.0	14.5	15.0
28	4.0	3.0	3.5	5.5	3.5	4.5	9.5	8.5	9.0	16.5	14.0	15.5
29	3.0	1.5	2.0	5.5	4.5	5.0	10.0	9.0	9.5	---	---	---
30	---	---	---	6.5	4.0	5.0	10.0	8.5	9.5	16.5	14.0	15.0
31	---	---	---	7.5	5.5	6.0	---	---	---	16.5	15.0	15.5
MONTH	4.0	.5	1.5	7.5	1.0	3.1	12.0	4.5	7.6	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.0	15.0	16.0	22.5	20.5	21.5	19.5	14.0	16.5	20.0	17.5	18.5
2	19.5	14.5	17.0	22.5	20.5	21.5	19.0	14.5	16.0	20.5	17.5	19.0
3	19.0	17.0	18.0	21.5	19.5	20.5	20.5	14.5	16.5	20.0	18.0	19.0
4	18.5	17.0	17.5	20.0	18.0	19.0	21.5	14.5	16.5	20.0	18.0	19.0
5	18.5	16.5	17.5	19.0	17.5	18.5	20.0	14.5	16.5	20.0	18.0	19.0
6	18.0	16.0	17.0	20.0	18.0	19.0	21.5	15.0	17.0	21.5	18.0	19.5
7	18.0	16.5	17.5	20.0	18.5	19.0	20.5	15.0	17.5	20.5	18.5	19.5
8	18.0	16.5	17.5	21.5	19.5	20.5	20.0	16.5	18.0	19.5	17.5	18.5
9	18.5	17.0	17.5	21.5	19.5	20.5	20.5	16.5	18.5	19.5	17.5	18.5
10	20.0	17.5	18.5	20.5	19.0	19.5	20.0	17.5	18.5	19.5	17.5	19.0
11	21.0	19.0	20.0	19.5	17.5	19.0	19.5	17.0	18.0	20.0	17.5	18.5
12	22.0	20.5	21.0	19.5	18.0	19.0	19.0	16.5	17.5	19.0	17.0	18.0
13	21.0	19.5	20.0	20.5	18.5	19.5	19.0	17.0	17.5	19.0	17.0	18.0
14	21.0	19.5	20.0	21.0	19.5	20.0	19.5	16.5	18.0	17.5	15.5	16.0
15	22.0	19.5	21.0	21.0	20.0	20.5	21.0	17.0	19.0	16.5	15.0	16.0
16	21.5	20.0	21.0	22.0	19.0	20.5	20.5	18.0	19.5	17.0	16.0	16.5
17	21.0	19.5	20.5	22.0	20.5	21.0	20.0	17.5	19.0	16.5	15.5	16.0
18	20.5	19.0	20.0	22.0	20.5	21.0	20.0	17.5	18.5	16.5	15.0	15.5
19	20.0	19.0	19.5	22.5	20.5	21.5	19.5	17.0	18.5	16.5	15.0	16.0
20	20.0	19.0	19.5	21.5	18.5	20.0	20.0	17.0	18.5	16.5	15.0	15.5
21	21.0	19.5	20.0	20.0	17.5	19.0	20.5	17.5	19.0	16.5	15.0	16.0
22	20.5	18.0	19.5	20.5	18.5	19.5	20.0	17.5	19.0	16.5	15.5	16.0
23	20.5	19.0	19.5	21.0	18.5	19.5	21.0	17.5	19.5	16.0	14.5	15.0
24	19.5	18.0	19.0	21.0	16.5	18.5	20.0	17.5	19.0	15.5	14.0	14.5
25	20.5	18.5	19.5	23.0	15.5	17.5	21.5	17.5	19.0	14.5	13.5	14.0
26	20.0	18.5	19.0	21.5	15.5	18.0	21.0	16.5	18.5	14.5	13.5	14.0
27	20.0	18.5	19.5	21.0	16.5	19.0	20.5	18.5	19.5	15.0	13.5	14.5
28	20.5	19.0	20.0	20.0	14.5	17.0	20.5	18.5	19.5	15.5	14.0	15.0
29	20.5	18.5	19.0	22.0	15.0	17.0	20.5	18.5	19.5	15.5	14.5	15.0
30	22.0	19.5	20.5	22.5	15.5	17.5	20.0	17.5	19.0	15.5	14.5	15.0
31	---	---	---	20.5	14.5	16.5	20.0	18.0	19.0	---	---	---
MONTH	22.0	14.5	19.1	23.0	14.5	19.4	21.5	14.0	18.3	21.5	13.5	16.8

STREAMS TRIBUTARY TO LAKE ONTARIO

0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY--continued

WATER QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	BEGIN TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)
OCT								
02-05	1010	1310	41	13	--	--	--	--
05-06	1410	0910	217	55	--	--	207	23
06-10	1140	1040	e113	22	--	--	--	--
10-12	1105	1005	e52	16	--	--	--	--
12-16	1040	0940	e74	12	--	--	--	--
16-17	1050	0350	51	5.1	--	--	--	--
17-19	0450	0950	46	7.6	--	--	--	--
19-21	1050	0150	45	5.3	--	--	--	--
21-22	0250	0550	664	100	526	105	278	34
22-23	0650	0950	564	45	644	122	193	24
23-26	1050	0950	140	18	--	--	--	--
26-30	1050	0950	70	12	--	--	--	--
OCT 30-								
NOV 02	1035	0935	68	5.7	--	--	--	--
02-05	1035	1135	86	11	--	--	--	--
06-07	1355	0955	53	4.5	--	--	--	--
07-08	1055	0055	88	5.1	--	--	--	--
08-09	0155	0955	75	8.3	--	--	--	--
09-11	1040	1740	63	4.4	--	--	--	--
11-12	1840	0940	115	16	--	--	--	--
12-13	1040	0940	122	14	--	--	--	--
13-14	1040	1240	89	5.4	--	--	--	--
14-15	1340	1840	209	12	--	--	--	--
15-16	1940	0940	293	17	--	--	--	--
16-19	1145	1045	184	3.5	--	--	--	--
19-20	1145	1045	231	4.2	--	--	--	--
20-21	1120	2020	249	5.0	--	--	--	--
21-22	2120	1020	332	9.4	--	--	--	--
22-27	1000	0900	155	4.5	--	--	--	--
27-30	1025	0925	137	6.3	--	--	--	--
NOV 30-								
DEC 03	1025	2125	e132	3.9	--	--	--	--
04-06	1020	0420	105	2.4	--	--	--	--
07-11	1035	0935	72	4.5	--	--	--	--
11-14	1140	1040	e60	2.7	1490	286	8	<7
15-18	0720	1020	139	4.7	--	--	--	--
18-22	1025	0925	e76	2.5	--	--	--	--
22-26	1050	0950	e72	2.0	--	--	--	--
26-29	1045	0945	e68	3.0	--	--	--	--
DEC 29								
JAN 02	1035	0935	e64	2.8	--	--	--	--
02-04	1045	0945	e48	2.8	--	--	--	--
04-06	1125	1025	e62	2.7	--	--	--	--
08-12	1025	0425	e66	1.7	--	--	--	--
12-16	1015	0915	e68	2.5	--	--	--	--
16-18	1025	0925	178	5.7	1780	232	23	<9
18-20	1005	0105	708	75	1220	161	252	27
20-22	0205	0905	848	40	822	139	76	9
22-25	1055	0955	329	22	1170	193	46	6
25-29	1015	0915	288	20	1120	194	37	5
JAN 29-								
FEB 01	1025	0925	136	3.3	1260	238	11	<6
01-05	1020	0920	94	3.8	1360	273	--	--
05-08	1025	0925	82	2.8	--	--	--	--
08-09	1025	0925	146	4.2	--	--	--	--
09-12	1025	0925	e148	6.1	--	--	--	--
12-16	1145	0945	e96	3.2	--	--	--	--
16-20	1005	0905	e80	3.4	--	--	--	--
20-21	1045	1345	412	40	--	--	141	14
21-22	1445	0945	672	45	--	--	150	15
22-26	1105	1005	287	12	--	--	--	--
26-29	1050	0950	185	4.5	--	--	--	--

0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY--continued

WATER QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
OCT							
02-05	0.02	0.55	0.66	0.090	0.015	120	250
05-06	0.03	0.77	0.70	0.290	0.018	90	170
06-10	0.03	0.83	0.58	0.130	0.022	93	150
10-12	0.03	0.85	0.64	0.110	0.021	120	210
12-16	0.03	0.65	0.57	0.095	0.022	110	180
16-17	0.02	0.68	0.54	0.065	0.020	120	170
17-19	0.03	0.67	0.60	0.080	0.019	130	210
19-21	0.01	0.26	0.59	0.070	0.021	130	220
21-22	0.02	1.2	0.40	0.390	0.030	47	65
22-23	<0.01	1.1	0.83	0.260	0.016	77	90
23-26	0.03	<0.01	1.1	0.110	0.029	110	140
26-30	0.05	0.74	0.96	0.100	0.021	120	190
OCT 30-							
NOV 02	0.04	0.80	0.91	0.050	0.019	120	210
02-05	0.03	0.74	0.78	0.075	0.019	110	170
06-07	0.06	0.91	0.81	0.055	0.021	130	200
07-08	0.06	0.74	0.80	0.055	0.020	120	190
08-09	0.04	0.93	0.72	0.065	0.020	100	150
09-11	0.05	1.2	0.81	0.040	0.016	150	180
11-12	0.04	0.96	0.76	0.090	0.020	150	150
12-13	0.02	0.98	0.66	0.070	0.018	130	130
13-14	0.04	0.96	0.73	0.040	0.016	150	150
14-15	0.03	0.88	0.76	0.075	0.020	170	130
15-16	0.02	1.3	0.75	0.110	0.026	230	100
16-19	0.02	1.0	1.0	0.050	0.020	190	120
19-20	0.02	1.1	1.2	0.045	0.018	170	110
20-21	0.02	1.3	1.4	0.060	0.021	150	110
21-22	0.02	1.4	1.5	0.085	0.024	140	100
22-27	<0.01	1.2	<0.05	0.050	<0.014	140	130
27-30	<0.01	1.1	1.6	0.055	0.014	140	150
NOV 30-							
DEC 03	0.02	1.2	1.5	0.045	0.015	160	140
04-06	0.04	1.2	2.0	0.045	0.013	150	150
07-11	0.03	1.1	1.3	0.040	0.010	170	170
11-14	0.05	1.1	1.5	0.030	0.010	190	200
15-18	0.06	1.0	1.3	0.055	0.014	310	140
18-22	0.05	0.88	1.4	0.025	0.010	180	160
22-26	0.04	1.0	1.4	0.020	0.010	210	180
26-29	0.05	0.97	1.3	0.030	0.010	230	180
DEC 29							
JAN 02	0.04	0.85	1.3	0.035	<0.012	190	180
02-04	0.07	0.72	1.3	0.035	0.012	210	180
04-06	0.05	1.0	1.4	0.015	0.008	210	190
08-12	0.06	0.89	1.3	0.020	0.009	190	190
12-16	0.06	0.56	1.3	0.025	0.013	230	170
16-18	0.07	0.50	1.3	0.050	0.015	330	140
18-20	0.10	1.6	1.3	0.360	0.023	240	65
20-22	0.07	0.88	1.7	0.210	0.029	130	62
22-25	0.07	0.80	1.7	0.110	0.028	190	94
25-29	0.30	0.84	1.6	0.100	0.026	180	88
JAN 29-							
FEB 01	0.06	0.38	1.8	0.040	0.016	180	130
01-05	0.05	0.43	2.0	0.025	0.013	170	160
05-08	0.07	0.56	1.9	0.035	0.011	170	180
08-09	0.09	0.45	1.8	0.035	0.017	230	160
09-12	0.09	0.55	1.5	0.045	0.015	210	130
12-16	0.05	0.50	1.5	0.030	0.012	210	140
16-20	0.05	0.46	1.6	0.035	0.015	220	170
20-21	0.12	0.90	1.3	0.180	0.028	290	97
21-22	0.13	0.62	1.1	0.220	0.044	160	51
22-26	0.06	0.60	1.4	0.075	0.023	170	83
26-29	0.03	0.68	1.4	0.040	0.014	180	110

0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY--continued

WATER QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	BEGIN TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)
FEB 29-								
MAR 04	1025	0925	134	4.1	--	--	--	--
04-07	1050	0950	e104	3.1	--	--	--	--
07-11	1055	0955	e89	2.3	--	--	--	--
11-14	1020	0920	e111	2.8	--	--	--	--
14-18	1020	0920	317	8.7	--	--	--	--
18-19	1055	2155	212	--	--	--	--	--
19-21	2255	0955	344	6.1	--	--	--	--
21-25	1035	0935	315	7.2	--	--	--	--
25-25	1020	2120	207	2.9	--	--	--	--
MAR 28-								
APR 01	1050	0850	140	1.9	--	--	--	--
01-03	1035	1735	117	4.8	--	--	--	--
04-08	1035	0935	e130	3.1	--	--	--	--
08-11	1020	0920	e102	2.8	--	--	--	--
11-12	1020	0720	e76	3.8	--	--	--	--
14-17	1035	0935	e541	24	916	195	57	7
18-22	1025	0925	e222	12	1050	219	41	6
22-24	1040	1240	398	33	--	--	--	--
24-25	1340	0940	680	45	--	--	--	--
25-27	1035	0935	e387	13	--	--	--	--
29-30	1020	2120	e223	15	--	--	--	--
APR 30-								
MAY 02	2220	0920	296	22	--	--	--	--
02-06	1025	0925	e186	14	--	--	--	--
06-09	1055	0955	e150	15	--	--	--	--
09-10	1055	1355	e152	16	--	--	--	--
10-13	1455	0955	606	37	--	--	100	14
13-16	1035	0935	e391	14	--	--	--	--
16-20	1015	0915	e164	6.9	--	--	--	--
20-24	1025	0925	e242	15	--	--	--	--
24-28	1030	0930	e142	6.8	--	--	--	--
28-30	1200	1100	e98	12	--	--	--	--
MAY 30-								
JUN 03	1110	1010	e81	6.8	--	--	--	--
03-06	1100	1000	e74	7.6	--	--	--	--
06-10	1045	0945	e138	7.2	--	--	--	--
10-13	1045	0945	168	18	--	--	--	--
13-17	1100	1000	111	29	--	--	--	--
17-20	1035	0935	133	27	--	--	--	--
20-24	1045	0945	376	55	--	--	--	--
24-27	1115	1015	167	33	--	--	--	--
27-29	1020	0920	90	21	--	--	--	--
29-30	1020	0120	91	17	--	--	--	--
JUN 30-								
JUL 01	0220	0920	299	35	--	--	71	10
01-05	1100	1000	120	21	--	--	--	--
05-08	1020	0920	e74	18	--	--	--	--
08-11	1050	0950	e59	18	--	--	--	--
11-15	1010	0910	e54	7.5	--	--	--	--
15-15	1110	1910	e170	5.6	--	--	--	--
15-18	2010	1010	e97	13	--	--	--	--
18-19	2240	1340	63	12	--	--	--	--
19-22	1440	0940	e82	12	--	--	--	--
22-25	1055	0955	e48	13	--	--	--	--
AUG								
01-02	1055	1755	73	15	--	--	--	--
03-05	0655	0955	e70	20	--	--	--	--
05-08	1040	0940	e52	6.2	--	--	--	--
08-08	1045	2145	e209	4.0	--	--	--	--
08-12	2245	0945	e96	8.0	--	--	--	--
12-15	1040	0940	e53	7.3	--	--	--	--
15-19	1055	0955	e50	5.9	--	--	--	--
19-22	1055	0955	e43	7.4	--	--	--	--
22-23	1045	0945	e50	6.8	--	--	--	--
23-23	1045	2145	e60	6.7	--	--	--	--
23-26	2245	0945	e52	12	--	--	--	--
26-30	1045	0845	e39	8.5	--	--	--	--

0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY--continued

WATER QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
FEB 29-							
MAR 04	0.03	0.44	1.5	0.035	0.012	200	120
04-07	0.02	0.38	1.5	0.025	0.008	230	150
07-11	0.02	0.34	1.5	0.030	0.009	230	150
11-14	0.02	0.44	1.4	0.030	<0.001	280	150
14-18	0.03	0.58	1.3	0.050	0.010	210	84
18-19	0.01	0.66	1.3	0.035	0.005	160	160
19-21	0.02	0.51	1.2	0.060	0.007	190	86
21-25	0.01	0.42	1.4	0.045	0.007	190	82
25-25	<0.01	0.72	1.3	0.030	0.003	170	100
MAR 28-							
APR 01	<0.01	0.50	1.2	0.030	0.004	170	120
01-03	0.01	0.76	1.2	0.040	0.004	170	130
04-08	0.02	0.28	1.3	0.025	0.004	190	130
08-11	0.03	0.41	1.1	0.033	<0.010	180	130
11-12	0.07	0.51	1.1	0.035	0.005	170	130
14-17	0.03	0.68	1.2	0.095	0.007	130	76
18-22	0.02	0.47	1.0	0.065	0.005	140	96
22-24	0.03	0.97	0.90	0.170	0.011	120	71
24-25	<0.01	1.0	0.89	0.190	0.013	91	53
25-27	0.01	0.43	1.0	0.070	0.009	120	81
29-30	0.02	0.63	1.2	0.090	0.009	130	--
APR 30-							
MAY 02	0.02	0.49	0.99	0.100	0.010	110	--
02-06	<0.01	0.79	1.0	0.070	0.005	120	100
06-09	0.01	0.32	0.92	0.065	0.006	130	110
09-10	0.03	<0.01	0.99	0.090	0.009	140	130
10-13	<0.01	<0.01	0.70	0.170	0.012	85	58
13-16	<0.01	0.70	0.81	0.095	0.010	91	68
16-20	<0.01	0.42	0.80	0.065	0.007	120	100
20-24	0.03	0.65	0.67	0.095	0.014	100	84
24-28	0.05	0.58	0.79	0.060	0.014	120	110
28-30	0.02	0.44	0.85	0.055	0.012	130	140
MAY 30-							
JUN 03	0.05	0.42	0.85	0.065	0.009	130	160
03-06	0.05	0.67	0.92	<0.010	0.007	140	170
06-10	0.04	0.59	0.87	0.070	0.015	120	130
10-13	0.08	0.69	0.89	0.110	0.026	100	97
13-17	0.07	0.57	1.1	0.150	0.042	100	95
17-20	0.09	0.73	1.0	0.190	0.150	120	130
20-24	0.01	0.0	0.87	0.280	0.043	68	60
24-27	<0.01	<0.01	<0.01	<0.010	<0.010	--	--
27-29	0.05	0.59	1.0	0.035	0.039	110	130
29-30	0.08	0.37	0.97	0.140	0.037	120	130
JUN 30-							
JUL 01	0.09	0.76	0.93	0.170	0.037	79	82
01-05	0.06	0.87	0.95	0.050	0.041	100	110
05-08	0.04	0.57	1.1	0.045	0.032	120	140
08-11	0.05	0.44	1.0	0.120	0.025	130	170
11-15	0.05	0.33	0.91	<0.010	0.017	130	180
15-15	0.06	0.86	0.74	<0.010	0.021	120	170
15-18	0.04	0.57	0.79	<0.010	0.022	98	120
18-19	0.04	0.34	0.78	0.090	0.031	110	140
19-22	0.02	0.36	0.76	0.080	0.026	100	140
22-25	0.03	0.28	0.81	0.085	0.025	110	160
AUG							
01-02	0.06	0.28	0.80	0.110	0.028	98	130
03-05	0.05	0.40	0.81	0.110	0.027	98	120
05-08	<0.01	<0.01	0.77	0.070	0.020	120	170
08-08	0.05	0.90	0.83	0.100	0.032	110	140
08-12	0.03	0.49	0.81	0.080	0.030	96	120
12-15	0.02	0.51	0.74	0.065	0.021	120	170
15-19	0.03	0.43	0.68	0.055	0.016	130	200
19-22	0.06	0.20	0.62	0.065	0.015	130	210
22-23	0.05	0.39	0.68	0.065	0.017	130	220
23-23	0.06	0.50	0.61	0.060	0.015	140	220
23-26	0.07	0.41	0.70	0.120	0.021	120	200
26-30	0.05	0.72	0.70	0.070	0.024	130	220

0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY--continued

WATER QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	BEGIN TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)
AUG 30-								
SEP 03	1040	0940	e38	11	--	--	--	--
03-05	1105	1005	e41	8.7	--	--	--	--
05-07	1050	0150	e39	5.7	--	--	--	--
07-07	0250	2150	82	8.3	--	--	--	--
07-09	2250	0950	64	9.5	--	--	--	--
09-12	1100	1000	e47	6.8	--	--	--	--
12-13	1045	0145	49	4.6	--	--	--	--
13-14	0245	0145	245	29	--	--	--	--
14-16	0245	0945	106	13	--	--	--	--
16-17	1035	0935	61	5.6	--	--	--	--
17-18	1035	0335	140	4.6	--	--	--	--
18-19	0435	0935	166	15	--	--	--	--
19-23	1055	0955	e66	6.2	--	--	--	--
23-26	1055	0955	e56	6.5	--	--	--	--
26-28	1100	1000	e50	5.2	--	--	--	--
28-28	1100	2200	e80	5.5	--	--	--	--
28-30	2300	1000	100	4.8	--	--	--	--
SEP 30-								
OCT 03	1105	1005	48	5.8	--	--	--	--

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
AUG 30-							
SEP 03	0.04	0.55	0.77	0.075	0.019	130	230
03-05	0.05	0.55	0.77	0.075	0.016	130	230
05-07	0.01	0.55	0.80	0.060	0.020	130	230
07-07	0.05	0.64	0.73	0.095	0.025	130	220
07-09	0.06	0.65	0.71	0.100	0.026	100	150
09-12	0.07	0.44	0.86	0.070	0.028	150	190
12-13	0.05	0.19	0.82	0.060	0.033	130	200
13-14	0.05	0.55	0.74	0.220	0.030	91	140
14-16	0.05	0.43	0.66	0.100	0.033	92	120
16-17	0.12	0.43	0.81	0.060	0.028	120	160
17-18	0.33	0.47	0.85	0.085	0.027	120	170
18-19	0.24	0.52	0.73	0.110	0.034	77	110
19-23	0.11	0.42	0.84	0.065	0.027	120	160
23-26	0.05	0.47	0.96	0.065	0.025	130	180
26-28	0.04	0.21	0.97	0.050	0.023	130	200
28-28	0.05	0.35	0.97	0.060	0.021	140	200
28-30	0.04	0.36	0.73	0.070	0.022	96	130
SEP 30-							
OCT 03	0.02	0.34	0.79	0.058	0.023	120	180

04232400 SENECA LAKE AT WATKINS GLEN, NY

LOCATION.--Lat 42°23'00", long 76°52'05", Schuyler County, Hydrologic Unit 04140201, on east bank about 300 ft from lake on shorter of two boat slips at Watkins Glen.

DRAINAGE AREA.--704 mi^2.

PERIOD OF RECORD.--October 1956 to current year.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level (1.59 ft Barge Canal datum). To convert elevations to sea level adjustment of 1988, subtract 0.62 ft. Prior to Oct. 1, 1975, at datum 438.41 ft higher.

REMARKS.--Area of water surface, 67.6 mi^2. Diversion from Susquehanna River basin enters lake through Keuka Lake Outlet at Dresden. For table of diversion, see station 01528700. Lake elevation 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 and Gas Corp.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 448.95 ft, April 26, 27, 1993; minimum, 442.64 ft, Mar. 14, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 447.06 ft, May 13; minimum, 443.70 ft, Dec. 30, 31.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	444.25	444.66	444.53	443.80	445.38	444.63	444.66	445.88	445.81	445.13	445.11	444.83
2	444.24	444.60	444.54	443.83	445.34	444.62	444.66	445.94	445.70	445.10	445.08	444.80
3	444.28	444.58	444.45	443.90	445.29	444.61	444.68	445.94	445.61	445.10	445.12	444.78
4	444.28	444.55	444.44	443.88	445.21	444.60	444.73	445.97	445.52	445.18	445.09	444.75
5	444.33	444.48	444.36	443.88	445.12	444.64	444.75	446.01	445.43	445.18	445.08	444.79
6	444.44	444.39	444.34	443.87	445.09	444.69	444.77	446.04	445.33	445.14	445.06	444.82
7	444.43	444.34	444.29	443.90	445.02	444.69	444.79	446.02	445.26	445.14	445.00	444.82
8	444.47	444.38	444.24	443.90	445.01	444.68	444.81	446.02	445.24	445.17	445.03	444.76
9	444.43	444.37	444.17	443.85	445.01	444.63	444.85	445.98	445.16	445.18	445.19	444.86
10	444.40	444.27	444.13	443.88	444.97	444.58	444.87	446.04	445.08	445.17	445.23	444.86
11	444.40	444.26	444.09	443.86	444.95	444.57	444.88	446.43	445.00	445.10	445.16	444.82
12	444.37	444.35	444.05	443.86	444.94	444.56	444.91	446.89	444.94	445.02	445.08	444.78
13	444.35	444.36	444.03	443.85	444.87	444.57	445.18	447.02	444.97	445.04	445.07	444.96
14	444.37	444.42	443.99	443.84	444.85	444.60	445.54	447.02	444.97	445.06	445.06	444.98
15	444.39	444.52	444.03	443.88	444.81	444.75	445.58	446.99	444.97	445.06	444.98	444.91
16	444.39	444.53	444.00	443.78	444.77	444.85	445.64	446.95	444.95	445.09	444.96	444.95
17	444.37	444.54	443.98	443.82	444.72	444.88	445.67	446.92	444.92	445.10	445.03	445.03
18	444.28	444.55	443.96	443.86	444.67	444.91	445.66	446.86	444.92	445.07	444.96	445.19
19	444.33	444.61	443.95	444.56	444.59	444.93	445.63	446.80	444.93	445.06	444.97	445.15
20	444.30	444.62	443.95	445.25	444.57	445.00	445.61	446.75	444.98	445.16	444.92	445.08
21	444.55	444.67	443.91	445.35	444.69	445.06	445.61	446.75	445.08	445.11	444.94	445.07
22	444.79	444.70	443.88	445.39	444.72	445.05	445.58	446.72	445.13	445.06	444.95	445.08
23	444.74	444.68	443.85	445.44	444.69	445.03	445.59	446.66	445.23	445.06	444.89	445.15
24	444.76	444.67	443.84	445.50	444.69	444.96	445.63	446.61	445.24	445.05	444.98	445.03
25	444.79	444.62	443.80	445.58	444.72	444.87	445.64	446.52	445.25	445.03	444.89	445.00
26	444.78	444.60	443.78	445.53	444.70	444.89	445.64	446.43	445.26	445.07	444.88	445.01
27	444.71	444.56	443.78	445.54	444.65	444.83	445.64	446.34	445.18	445.09	444.92	444.87
28	444.72	444.60	443.77	445.62	444.64	444.77	445.61	446.23	445.14	445.06	444.90	444.90
29	444.80	444.62	443.76	445.55	444.67	444.73	445.58	446.15	445.07	445.04	444.87	445.09
30	444.75	444.56	443.75	445.54	---	444.71	445.66	446.04	445.10	444.99	444.88	445.11
31	444.68	---	443.77	445.47	---	444.67	---	445.92	---	445.04	444.82	---
MEAN	444.49	444.52	444.05	444.51	444.87	444.76	445.27	446.41	445.18	445.09	445.00	444.94
MAX	444.80	444.70	444.54	445.62	445.38	445.06	445.67	447.02	445.81	445.18	445.23	445.19
MIN	444.24	444.26	443.75	443.78	444.57	444.56	444.66	445.88	444.92	444.99	444.82	444.75

CAL YR 1995 MEAN 444.57 MAX 445.12 MIN 443.49
WTR YR 1996 MEAN 444.92 MAX 447.02 MIN 443.75

04232450 KEUKA INLET (KEUKA LAKE) AT HAMMONDSPORT, NY

(Formerly published as Keuka Lake at Hammondsport)

LOCATION.--Lat 42°24'22", long 77°13'08", Steuben County, Hydrologic Unit 04140201, on left bank of Keuka Inlet at end of Liberty Street extension at Hammondsport, and 300 ft upstream from mouth.

DRAINAGE AREA.--Keuka Inlet 25.0 mi^2; Keuka Lake at mouth 182 mi^2.

PERIOD OF RECORD.--August 1960 to March 31, 1996 (station discontinued).

REVISED RECORDS.--WSP 2112: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is sea level. To convert elevations to adjustment of 1988, subtract 0.52 ft. Prior to October 1, 1975, at datum 710.00 ft higher.

REMARKS.--Lake regulated by village of Penn Yan; prior to July 1962, by New York State Electric and Gas Corp. Area of water surface, 18.3 mi^2. During each year, a large part of flow from 45.5 mi^2 of drainage area of Mud Creek (Susquehanna River basin) is diverted into Keuka Lake for power development. For table of diversion, see station 01528700.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 719.35 ft, June 24, 1972; minimum daily, 711.40 ft, Feb. 2, 3, 1961.

EXTREMES FOR CURRENT PERIOD.--October 1995 to March 1996: Maximum recorded elevation, 714.14 ft, Jan. 28; minimum recorded elevation, 712.43 ft, Jan. 18.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	713.14	713.69	713.44	712.59	---	712.92	---	---	---	---	---	---
2	713.13	713.67	713.46	712.58	---	712.89	---	---	---	---	---	---
3	713.14	713.69	713.42	712.67	---	712.84	---	---	---	---	---	---
4	713.15	713.66	713.42	712.59	---	712.82	---	---	---	---	---	---
5	713.20	713.61	713.37	712.53	---	712.84	---	---	---	---	---	---
6	713.30	713.59	713.35	712.49	---	712.86	---	---	---	---	---	---
7	713.33	713.57	713.31	---	---	712.85	---	---	---	---	---	---
8	713.32	713.57	713.27	---	---	712.83	---	---	---	---	---	---
9	713.32	713.54	713.21	---	---	712.79	---	---	---	---	---	---
10	713.31	713.48	---	---	---	712.78	---	---	---	---	---	---
11	713.29	713.44	---	---	---	712.78	---	---	---	---	---	---
12	713.27	713.48	---	---	---	712.78	---	---	---	---	---	---
13	713.26	713.47	713.01	---	---	712.78	---	---	---	---	---	---
14	713.28	713.50	712.99	---	---	712.77	---	---	---	---	---	---
15	713.27	713.58	712.99	---	---	712.93	---	---	---	---	---	---
16	713.26	713.56	712.99	712.49	---	713.02	---	---	---	---	---	---
17	713.26	713.54	713.00	712.49	---	713.03	---	---	---	---	---	---
18	713.23	713.52	713.00	712.58	---	713.04	---	---	---	---	---	---
19	713.25	713.52	712.98	713.24	---	713.09	---	---	---	---	---	---
20	713.22	713.49	712.94	713.89	---	713.24	---	---	---	---	---	---
21	713.50	713.50	712.93	713.95	---	713.40	---	---	---	---	---	---
22	713.63	713.50	712.93	713.95	712.98	713.46	---	---	---	---	---	---
23	713.65	713.48	712.92	713.96	712.94	713.47	---	---	---	---	---	---
24	713.64	713.48	712.89	713.98	712.98	713.48	---	---	---	---	---	---
25	713.66	713.45	712.84	714.04	713.01	713.49	---	---	---	---	---	---
26	713.66	713.43	712.80	714.00	713.01	713.57	---	---	---	---	---	---
27	713.64	713.42	712.77	713.98	712.98	713.58	---	---	---	---	---	---
28	713.65	713.45	712.72	714.05	712.96	713.52	---	---	---	---	---	---
29	713.67	713.49	712.69	714.00	712.96	713.49	---	---	---	---	---	---
30	713.67	713.46	712.64	713.96	---	713.46	---	---	---	---	---	---
31	713.69	---	712.61	713.90	---	713.40	---	---	---	---	---	---
MEAN	713.39	713.53	---	---	---	713.10	---	---	---	---	---	---
MAX	713.69	713.69	---	---	---	713.58	---	---	---	---	---	---
MIN	713.13	713.42	---	---	---	712.77	---	---	---	---	---	---

04232482 KEUKA LAKE OUTLET AT DRESDEN, NY

LOCATION.--Lat 42°40'49", long 76°57'15", Yates County, Hydrologic Unit 04140201, on right bank at upstream side of bridge on Milo Street in Dresden, and 0.4 mi upstream from mouth.

DRAINAGE AREA.--207 mi^2.

PERIOD OF RECORD.--April 1965 to current year.

REVISED RECORD.--WDR NY-86-3: 1984 (P).

GAGE.--Water-stage recorder. Datum of gage is 445.35 ft (revised) above sea level. Prior to Sept. 6, 1991 at datum of 444.67 ft and prior to Oct. 1, 1982, at datum 1.32 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by village of Penn Yan. During each year a large part of flow from 45.5 mi^2 of Mud Creek drainage area (Susquehanna River basin) is diverted into Keuka Lake (Oswego River basin) for power development. For table of diversion, see station 01528700. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	54	287	192	556	275	295	1120	264	33	34	23
2	12	29	316	189	538	271	65	1220	352	28	31	22
3	12	30	309	184	517	269	63	1180	37	159	30	22
4	13	190	294	e195	499	232	67	1180	36	523	30	22
5	24	145	286	e190	482	209	68	1160	36	359	30	22
6	29	18	278	e185	464	211	69	1160	35	165	31	22
7	12	69	262	e185	449	206	68	1130	163	164	31	22
8	11	132	251	140	440	206	68	1080	201	164	45	22
9	10	130	248	e85	437	e205	64	1060	37	90	105	23
10	38	129	244	86	427	e200	62	1270	36	27	43	23
11	72	128	e240	e80	426	203	60	1540	40	27	35	23
12	19	127	e240	e80	402	202	64	1520	36	27	33	26
13	18	128	e250	85	391	165	401	1330	39	276	33	160
14	20	154	e260	86	369	284	430	1280	191	230	32	234
15	20	204	126	84	320	231	445	1230	307	60	32	224
16	20	203	23	88	261	157	432	1180	34	35	147	219
17	20	199	21	86	267	139	564	1130	34	28	426	256
18	20	198	118	169	252	167	643	1080	34	28	414	290
19	20	204	228	1430	249	144	656	1060	40	28	183	230
20	19	213	186	420	338	218	674	1010	50	191	21	223
21	229	220	34	314	439	270	682	1040	48	477	21	219
22	86	205	30	277	298	274	664	1010	292	215	21	217
23	43	188	133	270	289	256	680	983	272	28	21	216
24	26	178	224	329	359	247	727	972	76	28	21	214
25	34	175	222	337	309	260	726	925	154	28	21	207
26	21	170	217	418	292	291	703	789	294	27	21	159
27	18	170	209	534	287	434	689	682	543	27	21	118
28	15	295	205	470	302	619	670	452	532	27	21	141
29	13	298	203	450	281	549	648	200	529	29	21	161
30	13	276	e200	529	---	606	1050	72	522	29	22	131
31	13	---	196	572	---	586	---	37	---	30	23	---
TOTAL	932	4859	6340	8739	10940	8586	12497	31082	5264	3587	2000	3891
MEAN	30.1	162	205	282	377	277	417	1003	175	116	64.5	130
MAX	229	298	316	1430	556	619	1050	1540	543	523	426	290
MIN	10	18	21	80	249	139	60	37	34	27	21	22

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1996, BY WATER YEAR (WY)

MEAN	116	186	235	205	215	304	330	267	190	109	83.7	88.4
MAX	404	534	532	465	421	601	737	1003	676	892	450	256
(WY)	1978	1978	1978	1978	1978	1976	1993	1996	1972	1972	1972	1987
MIN	14.6	28.8	25.4	18.3	19.2	31.8	34.9	22.2	17.2	21.1	13.7	7.14
(WY)	1989	1979	1981	1966	1967	1989	1995	1988	1980	1985	1983	1982

04232482 KEUKA LAKE OUTLET AT DRESDEN, NY--Continued

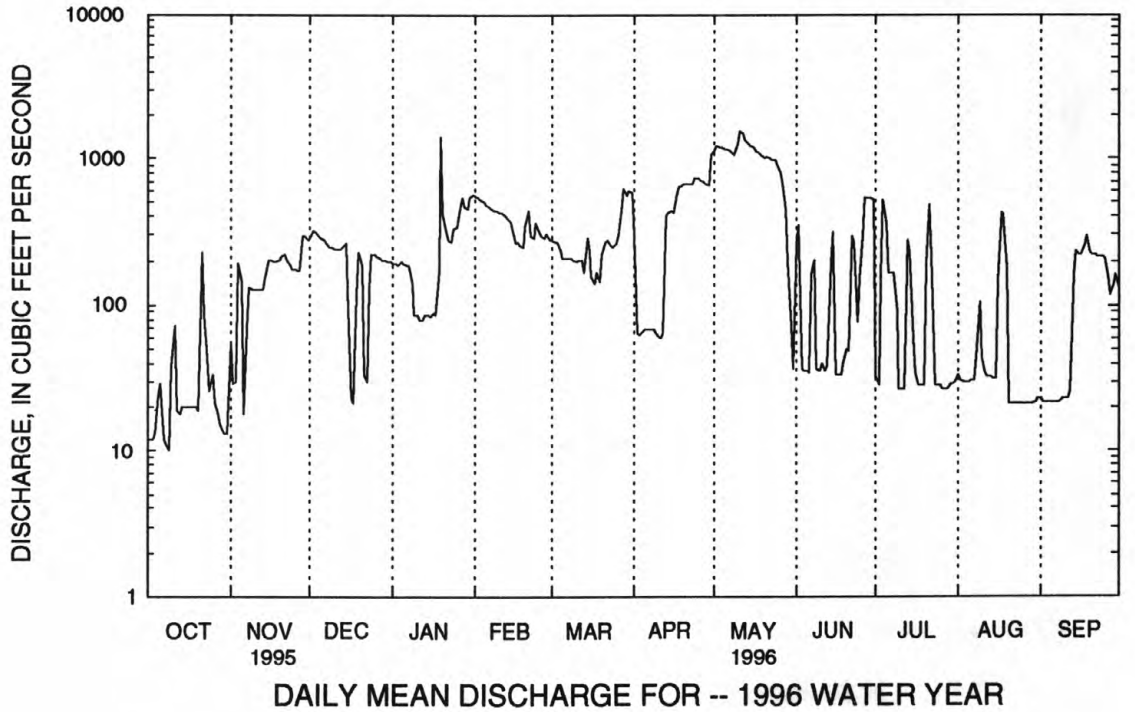
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1965 - 1996	
ANNUAL TOTAL	34829		98717			
ANNUAL MEAN	95.4		270		196	
HIGHEST ANNUAL MEAN					362	1978
LOWEST ANNUAL MEAN					81.1	1981
HIGHEST DAILY MEAN	368	Feb 6	1540	May 11	2200	Jun 22 1972
LOWEST DAILY MEAN	10	Oct 9	10	Oct 9	3.2	a
ANNUAL SEVEN-DAY MINIMUM	12	Sep 27	16	Oct 3	3.4	Sep 4 1982
INSTANTANEOUS PEAK FLOW			2520	Jan 19	b4000	Jun 22 1972
INSTANTANEOUS PEAK STAGE			7.14	Jan 19	c8.37	Jun 22 1972
INSTANTANEOUS LOW FLOW			9.7	Oct 10	3.2	d
10 PERCENT EXCEEDS	245		671		445	
50 PERCENT EXCEEDS	32		193		140	
90 PERCENT EXCEEDS	17		22		21	

a Sep. 9, 10, 1982.

b From rating curve extended above 730 ft^3/s on basis of contracted-opening measurement at Mays Mill, adjusted for intervening area.

c Datum then in use.

d Sep. 6, 7 ,8, 9, 10, 1982.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04233000 CAYUGA INLET NEAR ITHACA, NY

LOCATION.--Lat 42°23'35", long 76°32'43", Tompkins County, Hydrologic Unit 04140201, on left bank 0.8 mi upstream from Enfield (formerly Butternut) Creek, and 5.0 mi south of Ithaca.

DRAINAGE AREA.--35.2 mi^2.

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

REVISED RECORDS.--WSP 2112: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 437.16 ft above sea level (levels by Corps of Engineers).

REMARKS.--Records fair. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 21	1415	833	3.23	May 10	2130	752	3.07
Jan. 19	1300	*4,210	*7.57	May 11	1545	1,020	3.59

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	13	66	e13	e38	e50	e46	129	24	23	48	7.2
2	4.1	14	72	e12	e36	e44	e44	103	23	16	18	6.8
3	4.1	16	54	e11	e33	e38	e42	97	22	69	12	6.7
4	6.0	15	59	e12	e30	e34	e42	101	21	40	11	6.4
5	13	12	49	e13	e26	e29	e40	96	20	27	9.5	7.1
6	36	9.3	45	e13	e24	e38	e37	98	19	21	8.7	7.4
7	14	11	39	e13	e24	e36	e42	90	25	18	8.0	11
8	9.3	14	e30	e13	e27	e31	e48	79	34	18	88	13
9	7.2	11	e26	e13	e28	e28	e48	78	32	16	107	12
10	6.0	10	e22	e13	e28	e26	e52	199	45	14	56	9.4
11	5.2	12	e19	e12	e27	e32	e48	519	29	12	29	8.7
12	4.7	87	e18	e12	e26	e28	e65	412	21	11	20	8.0
13	4.6	46	e18	e12	e22	e31	e160	179	20	13	17	13
14	12	40	e20	e13	e21	e58	e340	127	19	15	15	13
15	28	49	e20	e12	e20	e110	e160	106	16	25	16	9.7
16	15	45	e19	e11	e19	e100	e180	98	14	23	41	8.4
17	9.9	42	e18	e17	e19	e58	e200	89	14	14	20	40
18	8.3	41	e17	e100	e18	e54	e125	77	14	12	15	62
19	7.3	43	e17	1750	e18	e60	e100	68	39	14	13	25
20	6.9	49	e16	440	e40	e105	e85	59	38	14	11	15
21	318	55	e18	171	e120	e90	e90	67	42	11	11	12
22	100	53	e17	107	e100	e85	e88	69	32	9.0	10	11
23	44	47	e16	88	e80	e82	89	59	29	8.4	12	12
24	30	41	e16	128	e190	e50	101	52	21	8.1	14	11
25	23	37	e15	97	e140	e55	135	43	22	7.9	10	12
26	20	35	e15	67	e100	e90	106	38	19	13	8.9	13
27	17	35	e15	167	e70	e65	106	36	15	11	8.2	11
28	16	96	e15	105	e97	e48	92	33	13	9.0	8.3	25
29	15	68	e15	74	e70	e46	115	32	13	8.4	8.4	46
30	15	51	e16	e56	---	e47	154	29	39	10	7.8	22
31	14	---	e14	e44	---	e44	---	27	---	22	7.5	---
TOTAL	817.7	1097.3	816	3609	1491	1692	2980	3289	734	532.8	669.3	464.8
MEAN	26.4	36.6	26.3	116	51.4	54.6	99.3	106	24.5	17.2	21.6	15.5
MAX	318	96	72	1750	190	110	340	519	45	69	107	62
MIN	4.1	9.3	14	11	18	26	37	27	13	7.9	7.5	6.4
CFSM	.75	1.04	.75	3.31	1.46	1.55	2.82	3.01	.70	.49	.61	.44
IN.	.86	1.16	.86	3.81	1.58	1.79	3.15	3.48	.78	.56	.71	.49

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1996, BY WATER YEAR (WY)

MEAN	20.3	30.4	39.2	36.2	46.5	89.3	88.2	51.4	27.0	14.1	11.9	11.6
MAX	106	93.5	118	116	113	182	310	132	162	57.4	66.2	61.0
(WY)	1956	1978	1973	1996	1976	1945	1993	1984	1972	1972	1942	1975
MIN	3.76	4.56	6.09	6.32	11.8	25.0	21.8	16.7	5.47	3.77	3.24	2.98
(WY)	1965	1965	1961	1961	1980	1965	1946	1955	1955	1955	1966	1964

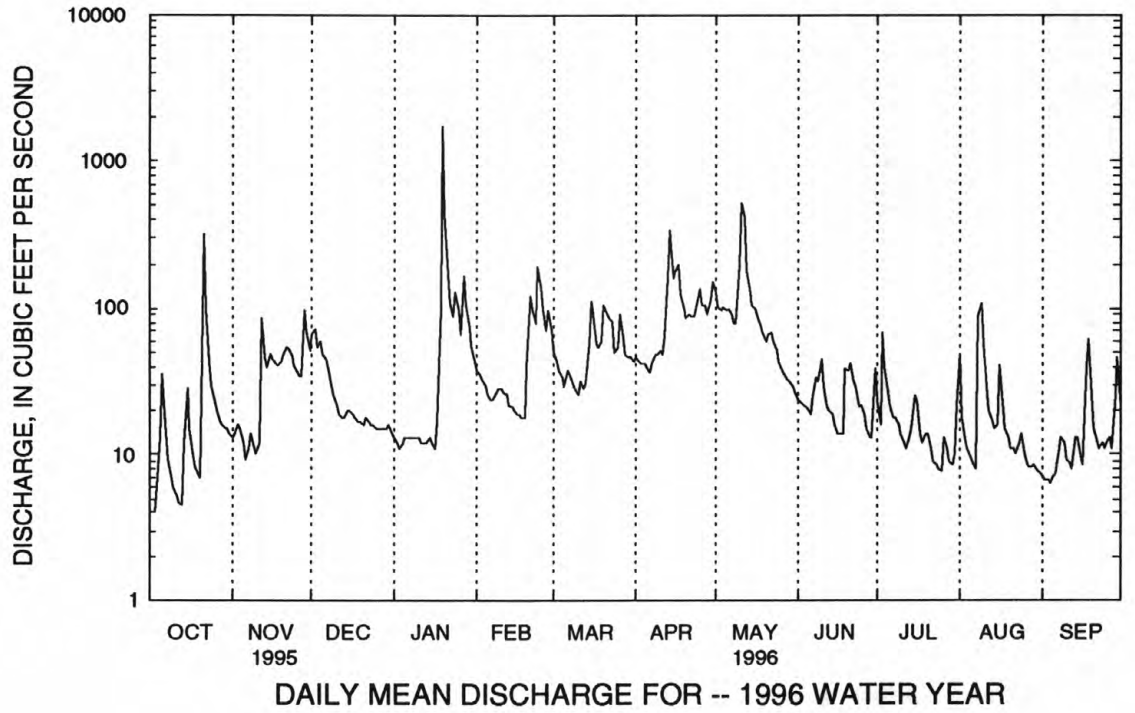
04233000 CAYUGA INLET NEAR ITHACA, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1937 - 1996	
ANNUAL TOTAL	10313.6		18192.9			
ANNUAL MEAN	28.3		49.7		38.6	
HIGHEST ANNUAL MEAN					61.7	1978
LOWEST ANNUAL MEAN					15.3	1965
HIGHEST DAILY MEAN	318	Oct 21	1750	Jan 19	1750	Jan 19 1996
LOWEST DAILY MEAN	2.2	Sep 8	4.1	a	1.9	Jul 22 1955
ANNUAL SEVEN-DAY MINIMUM	2.7	Aug 25	7.0	Oct 8	2.2	Aug 28 1939
INSTANTANEOUS PEAK FLOW			4210	Jan 19	b4800	Jun 23 1972
INSTANTANEOUS PEAK STAGE			7.57	Jan 19	8.10	Jun 23 1972
INSTANTANEOUS LOW FLOW			3.7	c	1.7	Jul 22 1955
ANNUAL RUNOFF (CFSM)	.80		1.41		1.10	
ANNUAL RUNOFF (INCHES)	10.90		19.23		14.92	
10 PERCENT EXCEEDS	57		100		85	
50 PERCENT EXCEEDS	21		25		20	
90 PERCENT EXCEEDS	4.1		9.3		5.3	

a Oct. 1, 2, 3.

b From rating curve extended above 1,600 ft^3/s on basis of slope-area measurements at gage heights 5.5 ft and 7.58 ft.

c Oct. 1, 2.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04233300 SIXMILE CREEK AT BETHEL GROVE, NY

LOCATION.--Lat 42°24'11", long 76°26'07", Tompkins County, Hydrologic Unit 04140201, on left bank at bridge on German Cross road, 3.4 mi southeast of Ithaca.

DRAINAGE AREA.--39.0 mi^2.

PERIOD OF RECORD.--March 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 700 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	31	30	13	9.8	2.6	3.9
2	---	---	---	---	---	---	28	29	19	11	2.9	3.1
3	---	---	---	---	---	---	26	27	90	8.5	3.3	2.6
4	---	---	---	---	---	---	67	26	84	7.5	13	2.3
5	---	---	---	---	---	---	40	23	39	6.9	17	2.2
6	---	---	---	---	---	---	35	22	29	7.2	11	2.2
7	---	---	---	---	---	---	37	20	24	7.5	7.5	2.2
8	---	---	---	---	---	---	37	19	23	7.0	6.2	2.2
9	---	---	---	---	---	e190	50	19	19	7.5	5.2	10
10	---	---	---	---	---	e140	49	20	17	7.0	4.6	7.2
11	---	---	---	---	---	125	e50	25	16	6.5	4.2	4.2
12	---	---	---	---	---	153	e55	52	22	5.9	6.8	3.1
13	---	---	---	---	---	155	e125	31	18	5.4	6.6	4.8
14	---	---	---	---	---	131	112	27	14	5.3	4.8	5.4
15	---	---	---	---	---	115	95	36	e12	5.1	5.1	4.5
16	---	---	---	---	---	98	76	28	e11	4.4	7.7	3.7
17	---	---	---	---	---	82	66	25	e11	5.7	5.3	3.8
18	---	---	---	---	---	69	59	25	e10	7.8	3.9	3.8
19	---	---	---	---	---	58	59	24	e9.5	5.3	3.2	3.2
20	---	---	---	---	---	52	50	22	e9.0	4.8	2.8	3.9
21	---	---	---	---	---	58	52	20	e9.0	5.7	2.5	4.7
22	---	---	---	---	---	59	51	18	e8.5	5.2	2.4	8.8
23	---	---	---	---	---	58	43	17	e8.0	5.3	2.3	9.4
24	---	---	---	---	---	46	39	17	e7.5	7.1	2.2	5.9
25	---	---	---	---	---	39	35	21	e7.0	11	2.2	4.7
26	---	---	---	---	---	36	33	20	e6.5	7.6	2.1	4.6
27	---	---	---	---	---	34	31	16	e18	6.5	2.2	4.2
28	---	---	---	---	---	33	49	15	e10	5.7	2.3	3.7
29	---	---	---	---	---	31	35	22	e8.0	4.1	2.2	3.7
30	---	---	---	---	---	34	31	21	7.1	3.3	2.0	3.5
31	---	---	---	---	---	35	---	16	---	2.7	2.4	---
TOTAL	---	---	---	---	---	---	1546	733	579.1	200.3	148.5	131.5
MEAN	---	---	---	---	---	---	51.5	23.6	19.3	6.46	4.79	4.38
MAX	---	---	---	---	---	---	125	52	90	11	17	10
MIN	---	---	---	---	---	---	26	15	6.5	2.7	2.0	2.2
CFSM	---	---	---	---	---	---	1.31	.60	.49	.16	.12	.11
IN.	---	---	---	---	---	---	1.46	.69	.55	.19	.14	.12

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1995, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	51.5	23.6	19.3	6.46	4.79	4.38
MAX	---	---	---	---	---	---	51.5	23.6	19.3	6.46	4.79	4.38
(WY)	---	---	---	---	---	---	1995	1995	1995	1995	1995	1995
MIN	---	---	---	---	---	---	51.5	23.6	19.3	6.46	4.79	4.38
(WY)	---	---	---	---	---	---	1995	1995	1995	1995	1995	1995

04233300 SIXMILE CREEK AT BETHEL GROVE, NY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	13	75	e25	e80	e90	74	182	28	54	84	11
2	4.3	14	77	e24	e60	e80	73	131	25	31	40	9.6
3	4.2	18	60	e20	e50	e65	70	115	22	137	26	8.7
4	6.1	17	71	e24	e45	e50	72	118	21	138	22	8.3
5	8.5	14	58	e24	e40	62	67	116	21	106	19	8.4
6	35	13	54	e24	e35	e55	59	112	19	65	16	9.0
7	13	15	e45	e24	e35	e50	66	103	26	50	14	16
8	9.4	21	e40	e22	e40	e48	64	92	80	42	116	16
9	8.1	17	e35	e22	e70	e45	67	87	126	36	238	18
10	7.6	15	e30	e22	e80	e45	72	e220	161	30	113	13
11	7.3	21	e28	e20	e70	e50	76	929	94	25	70	12
12	7.0	108	e25	e20	e60	e50	113	881	59	22	53	10
13	6.7	58	e22	e20	e50	e55	906	493	48	22	45	32
14	11	56	e28	e20	e45	81	542	235	43	26	38	28
15	28	66	e35	e20	e40	136	245	153	35	52	34	16
16	13	57	e45	e22	e36	100	392	123	30	61	94	14
17	9.6	54	e40	e35	e32	78	281	107	26	30	86	69
18	8.5	52	e35	e120	e30	84	184	100	24	22	50	104
19	7.7	59	e30	e2700	e28	94	145	87	66	31	40	30
20	7.3	64	e24	654	e40	213	130	72	64	55	35	17
21	394	72	e25	223	e300	151	148	108	56	29	31	e15
22	129	70	e26	149	156	119	115	97	45	21	29	e16
23	55	62	e26	112	134	98	108	76	65	17	27	e30
24	37	55	e25	174	456	88	125	69	42	16	33	e22
25	28	49	e25	135	199	100	137	58	37	14	25	e20
26	23	48	e24	104	143	137	115	50	33	26	19	e19
27	20	52	e24	416	114	93	117	47	26	23	17	e18
28	19	136	e24	197	180	81	102	43	23	17	16	e25
29	17	93	e23	143	115	82	120	39	20	14	15	e150
30	15	68	e22	134	---	77	185	35	83	16	13	e55
31	14	---	e25	105	---	72	---	31	---	19	12	---
TOTAL	957.2	1457	1126	5754	2763	2629	4970	5109	1448	1247	1470	820.0
MEAN	30.9	48.6	36.3	186	95.3	84.8	166	165	48.3	40.2	47.4	27.3
MAX	394	136	77	2700	456	213	906	929	161	138	238	150
MIN	3.9	13	22	20	28	45	59	31	19	14	12	8.3
CFSM	.79	1.24	.92	4.72	2.42	2.16	4.22	4.19	1.23	1.02	1.21	.70
IN.	.91	1.38	1.07	5.45	2.62	2.49	4.70	4.84	1.37	1.18	1.39	.78

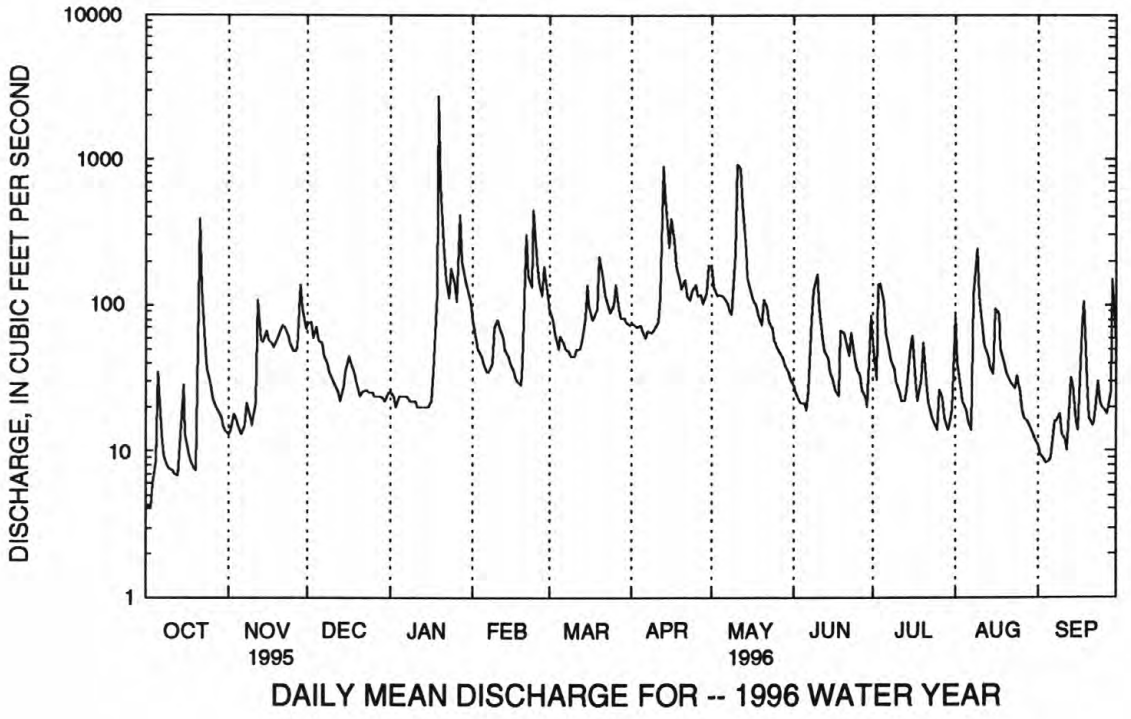
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1996, BY WATER YEAR (WY)

MEAN	30.9	48.6	36.3	186	95.3	84.8	109	94.2	33.8	23.3	26.1	15.9
MAX	30.9	48.6	36.3	186	95.3	84.8	166	165	48.3	40.2	47.4	27.3
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
MIN	30.9	48.6	36.3	186	95.3	84.8	51.5	23.6	19.3	6.46	4.79	4.38
(WY)	1996	1996	1996	1996	1996	1996	1995	1995	1995	1995	1995	1995

04233300 SIXMILE CREEK AT BETHEL GROVE, NY--Continued

SUMMARY STATISTICS	FOR 1996 WATER YEAR		WATER YEARS 1995 - 1996	
ANNUAL TOTAL	29750.2			
ANNUAL MEAN	81.3		81.3	
HIGHEST ANNUAL MEAN			81.3	1996
LOWEST ANNUAL MEAN			81.3	1996
HIGHEST DAILY MEAN	e2700	Jan 19	e2700	Jan 19 1996
LOWEST DAILY MEAN	3.9	Oct 1	2.0	Aug 30 1995
ANNUAL SEVEN-DAY MINIMUM	8.2	Oct 8	2.2	Aug 24 1995
INSTANTANEOUS PEAK FLOW	6220	Jan 19	6220	Jan 19 1996
INSTANTANEOUS PEAK STAGE	9.78	Jan 19	9.78	Jan 19 1996
INSTANTANEOUS LOW FLOW	3.5	Oct 2	1.5	a
ANNUAL RUNOFF (CFSM)	2.07		2.07	
ANNUAL RUNOFF (INCHES)	28.16		28.10	
10 PERCENT EXCEEDS	139		124	
50 PERCENT EXCEEDS	45		30	
90 PERCENT EXCEEDS	14		5.3	

a Aug. 2, 30, 1995.
e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04233500 CAYUGA INLET (CAYUGA LAKE) AT ITHACA, NY

(Formerly published as Cayuga Lake at Ithaca)

LOCATION.--Lat 42°26'45", long 76°30'45", Tompkins County, Hydrologic Unit 04140201, on left bank of natural channel 40 ft upstream from flood-control channel of Cayuga Inlet, at north end of Taughannock Boulevard, and 1.0 mi upstream from mouth of Inlet, at Ithaca.

DRAINAGE AREA.--Cayuga Inlet 143 mi^2; Cayuga Lake at mouth 1,564 mi^2; Cayuga Lake portion 785 mi^2.

PERIOD OF RECORD.--August 1905 to December 1909, August 1956 to current year in reports of Geological Survey. January 1910 to September 1925 in reports of State Engineer and Surveyor.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level (1.43 ft. Barge Canal datum). To convert elevations to sea level adjustment of 1988, subtract 0.62 ft. Prior to September 1925, nonrecording gage at several sites within 1 mi of present site. Prior to October 1968, at datum 378.57 ft. higher. October 1968 to September 1975, at datum 376.57 ft. higher.

REMARKS.--Lake elevation regulated at Mud Lock by New York State Thruway Authority. Area of water surface, 66.9 mi^2. Seneca River (Cayuga and Seneca Canal) enters lake 0.5 mi upstream from Mud Lock and is included in second drainage area given above.

EXTREMES FOR PERIOD OF RECORD.--(1905-25 and since 1956): Maximum elevation, 386.46 ft, April 26, 1993; minimum daily, 377.64 ft, present datum, Mar. 28, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 385.07 ft, May 13; minimum elevation, 378.81 ft, Mar. 13, 14.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	382.16	381.58	380.69	378.90	382.16	379.75	381.47	383.51	382.91	382.71	382.50	382.28
2	382.18	381.55	380.73	378.93	382.09	379.62	381.56	383.55	382.84	382.72	382.52	382.28
3	382.23	381.62	380.58	379.01	381.95	379.54	381.57	383.52	382.80	382.68	382.54	382.26
4	382.23	381.63	380.61	378.98	381.79	379.40	381.64	383.53	382.76	382.69	382.55	382.23
5	382.30	381.59	380.48	378.98	381.62	379.33	381.69	383.54	382.71	382.64	382.54	382.22
6	382.38	381.52	380.49	378.96	381.47	379.34	381.71	383.54	382.64	382.59	382.53	382.24
7	382.43	381.48	380.45	378.98	381.24	379.27	381.75	383.44	382.59	382.58	382.51	382.23
8	382.47	381.54	380.35	379.00	381.11	379.22	381.79	383.40	382.60	382.56	382.50	382.21
9	382.44	381.42	380.19	378.93	381.03	379.09	381.86	383.32	382.56	382.55	382.66	382.24
10	382.42	381.17	380.08	378.97	380.88	378.99	381.93	383.45	382.51	382.56	382.79	382.28
11	382.42	381.02	379.95	378.96	380.77	378.91	381.95	384.04	382.48	382.50	382.80	382.29
12	382.38	381.18	379.81	378.95	380.67	378.84	382.01	384.76	382.47	382.43	382.75	382.29
13	382.32	381.06	379.70	378.96	380.48	378.81	382.31	384.99	382.54	382.44	382.70	382.30
14	382.29	381.10	379.56	378.93	380.34	378.83	382.95	384.99	382.55	382.47	382.67	382.32
15	382.29	381.13	379.55	378.98	380.20	378.99	383.14	384.95	382.55	382.49	382.61	382.32
16	382.26	381.05	379.44	378.87	380.07	379.16	383.41	384.90	382.53	382.57	382.53	382.33
17	382.19	381.00	379.35	378.90	379.92	379.21	383.61	384.86	382.53	382.62	382.55	382.34
18	382.03	380.92	379.27	378.97	379.78	379.28	383.64	384.74	382.51	382.63	382.48	382.37
19	382.03	380.92	379.21	381.06	379.56	379.40	383.60	384.62	382.48	382.64	382.43	382.40
20	381.90	380.85	379.16	381.56	379.44	379.58	383.57	384.46	382.52	382.76	382.38	382.41
21	382.23	380.87	379.08	381.72	379.58	379.83	383.58	384.36	382.59	382.77	382.40	382.41
22	382.51	380.89	379.02	381.80	379.64	380.04	383.50	384.24	382.60	382.72	382.41	382.41
23	382.52	380.85	378.94	381.89	379.67	380.22	383.49	384.11	382.64	382.66	382.36	382.42
24	382.49	380.85	378.92	382.01	379.80	380.33	383.52	384.02	382.62	382.62	382.43	382.41
25	382.45	380.77	378.88	382.22	379.94	380.42	383.49	383.83	382.70	382.57	382.36	382.39
26	382.28	380.75	378.89	382.15	379.94	380.74	383.49	383.65	382.73	382.54	382.34	382.38
27	382.00	380.69	378.92	382.20	379.90	380.87	383.52	383.48	382.66	382.54	382.36	382.35
28	381.90	380.77	378.91	382.44	379.95	380.98	383.46	383.28	382.66	382.54	382.36	382.30
29	381.82	380.81	378.89	382.33	379.94	381.12	383.40	383.17	382.61	382.51	382.32	382.29
30	381.66	380.73	378.86	382.38	---	381.26	383.40	383.05	382.63	382.46	382.33	382.29
31	381.57	---	378.88	382.31	---	381.35	---	382.95	---	382.44	382.28	---
MEAN	382.22	381.11	379.61	380.23	380.51	379.73	382.73	383.94	382.62	382.59	382.50	382.32
MAX	382.52	381.63	380.73	382.44	382.16	381.35	383.64	384.99	382.91	382.77	382.80	382.42
MIN	381.57	380.69	378.86	378.87	379.44	378.81	381.47	382.95	382.47	382.43	382.28	382.21

CAL YR 1995 MEAN 381.17 MAX 382.70 MIN 378.86
WTR YR 1996 MEAN 381.68 MAX 384.99 MIN 378.81

04234000 FALL CREEK NEAR ITHACA, NY

LOCATION.--Lat 42°27'12", long 76°28'23", Tompkins County, Hydrologic Unit 04140201, on left bank in Forest Home, 0.2 mi east of Ithaca, 0.5 mi upstream from Cornell University dam, and 2.2 mi upstream from mouth.

DRAINAGE AREA.--126 mi^2.

PERIOD OF RECORD.--July 1908 to June 1909 (gage heights only), February 1925 to current year.

REVISED RECORDS.--WSP 874: 1935-38. WSP 1912: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 795.13 ft above sea level. July 1908 to June 1909, nonrecording gage at bridge 1.2 mi downstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diversion from point about 1 mi upstream from station by Cornell University for water supply and at several sites for irrigation purposes. Records of diversion from Fall Creek are in files of Cornell University. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 19	2030	*9,450	*7.47	May 12	0030	3,230	4.60
Apr. 14	0230	2,130	3.85				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	59	231	e85	195	e260	233	856	108	208	318	35
2	9.8	58	295	e80	183	e230	229	461	101	113	120	31
3	9.5	70	223	e70	e160	e200	221	360	96	131	83	30
4	11	83	298	e80	e140	e140	224	392	94	230	120	30
5	17	68	249	e80	e120	e180	213	476	94	251	83	30
6	85	57	213	e80	e110	e160	190	406	89	143	67	35
7	76	56	181	e80	e110	e140	205	350	94	112	57	37
8	42	91	e140	e75	e120	e135	231	280	187	95	119	51
9	28	90	e120	e75	e220	e130	230	274	214	85	577	75
10	27	71	e100	e75	e250	e130	259	758	189	74	287	62
11	19	68	e95	e70	e220	e150	232	2820	164	66	148	56
12	17	314	85	e70	e180	147	295	2680	109	59	114	43
13	14	237	e80	e70	e150	159	1160	1310	98	60	100	46
14	19	180	95	e70	e130	220	1720	719	105	77	86	74
15	109	207	e120	e70	e120	589	782	513	104	193	77	59
16	87	203	e150	e75	e110	523	966	410	87	236	198	46
17	51	182	137	e100	e100	300	978	366	74	108	184	73
18	36	178	122	e250	e95	282	627	319	68	83	109	241
19	31	191	e100	e5100	e85	317	482	284	105	107	84	134
20	27	220	e80	3600	e120	547	409	249	168	203	72	82
21	569	230	e85	1130	e650	491	426	325	123	108	66	62
22	973	228	e90	658	e500	378	348	370	111	81	58	55
23	285	204	e90	516	447	300	336	247	186	80	51	109
24	165	184	e88	560	973	258	626	223	116	74	64	83
25	117	154	e88	667	712	289	516	191	147	67	54	79
26	95	165	e85	388	474	473	410	169	131	76	47	74
27	82	165	85	815	357	325	467	158	89	70	42	66
28	74	456	e85	869	505	246	345	146	76	61	43	72
29	65	407	e80	401	409	240	321	144	71	55	42	368
30	70	243	e75	e320	---	241	605	129	201	59	39	168
31	67	---	e85	e260	---	228	---	118	---	76	37	---
TOTAL	3290.3	5119	4050	16839	7945	8408	14286	16503	3599	3441	3546	2406
MEAN	106	171	131	543	274	271	476	532	120	111	114	80.2
MAX	973	456	298	5100	973	589	1720	2820	214	251	577	368
MIN	9.5	56	75	70	85	130	190	118	68	55	37	30
CFSM	.84	1.35	1.04	4.31	2.17	2.15	3.78	4.23	.95	.88	.91	.64
IN.	.97	1.51	1.20	4.97	2.35	2.48	4.22	4.87	1.06	1.02	1.05	.71

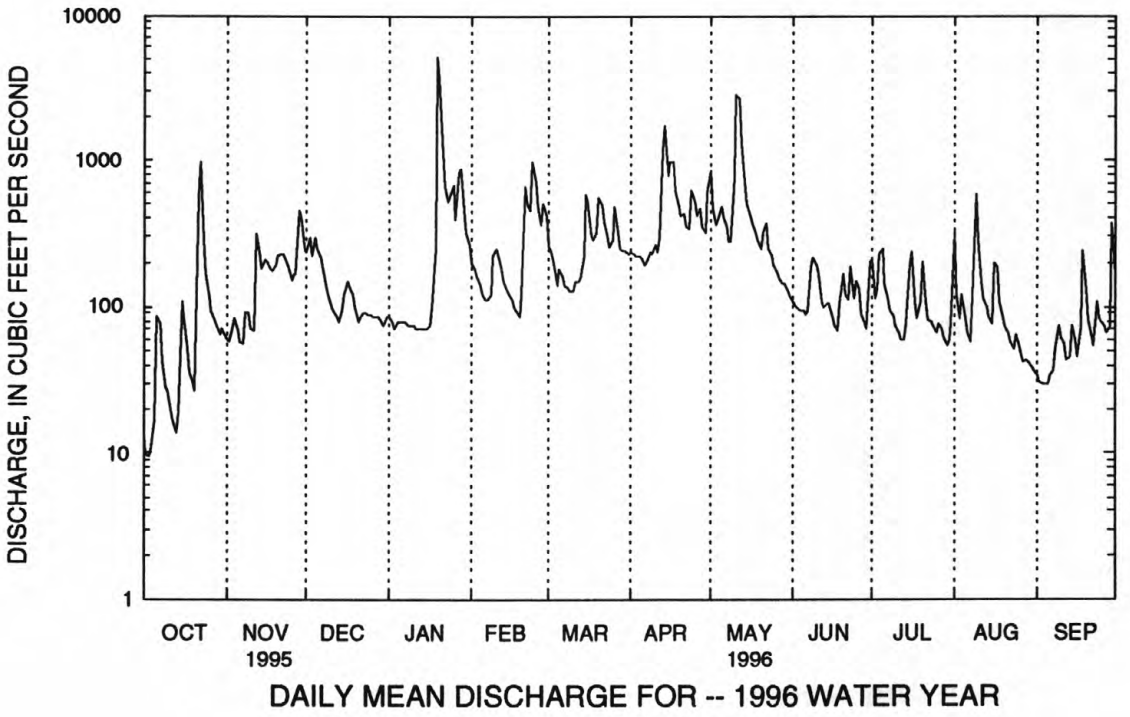
e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1996, BY WATER YEAR (WY)

MEAN	104	177	205	189	215	413	415	213	117	71.6	52.4	65.7
MAX	594	497	540	543	595	1037	1313	532	615	608	269	561
(WY)	1982	1928	1973	1996	1981	1936	1993	1996	1972	1935	1994	1977
MIN	9.57	16.5	31.9	38.4	44.1	160	100	62.0	30.8	15.3	8.93	7.09
(WY)	1965	1965	1961	1961	1934	1965	1946	1934	1991	1962	1965	1964

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1925 - 1996	
ANNUAL TOTAL	45254.3		89432.3			
ANNUAL MEAN	124		244		187	
HIGHEST ANNUAL MEAN					271	1978
LOWEST ANNUAL MEAN					83.6	1965
HIGHEST DAILY MEAN	973	Oct 22	e5100	Jan 19	8280	Jul 8 1935
LOWEST DAILY MEAN	7.6	Aug 31	9.5	Oct 3	3.6	Aug 17 1965
ANNUAL SEVEN-DAY MINIMUM	8.2	Aug 25	24	Oct 8	5.0	Sep 20 1964
INSTANTANEOUS PEAK FLOW			9450	Jan 19	a15500	Jul 8 1935
INSTANTANEOUS PEAK STAGE			7.47	Jan 19	b11.16	Feb 21 1971
INSTANTANEOUS LOW FLOW			8.8	c	d3.0	Aug 25 1927
ANNUAL RUNOFF (CFSM)	.98		1.94		1.48	
ANNUAL RUNOFF (INCHES)	13.36		26.40		20.12	
10 PERCENT EXCEEDS	275		494		417	
50 PERCENT EXCEEDS	90		129		100	
90 PERCENT EXCEEDS	16		55		23	

a From average of computed flow over each of four dams.
b Ice jam.
c Oct. 2, 3.
d Approximate discharge, result of regulation.
e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04234232 GREAT BROOK BELOW VICTOR, NY

LOCATION.--Lat 42°58'41", long 77°23'47", Ontario County, Hydrologic Unit 04140201, on right bank 0.1 mi upstream from State Highway 96, at east boundary line of village of Victor, and 0.5 mi upstream from mouth.

DRAINAGE AREA.--16.8 mi^2.

PERIOD OF RECORD.--November 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 560 ft above sea level, from topographic map.

REVISIONS.--The maximum discharge for the water years 1994 and 1995 have been revised to 767 ft^3/s, Mar. 21, 1994, gage height 5.01 ft, and 343 ft^3/s, Jan. 20, 1995, gage height 4.28 ft.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.2	2.1	14	e3.4	5.0	8.9	8.7	28	3.8	9.9	3.1	1.4
2	e1.1	3.4	16	e3.2	4.2	7.9	8.5	16	3.5	5.8	2.5	1.3
3	e1.1	3.5	11	e3.0	3.4	7.4	8.3	13	3.4	8.7	2.4	1.3
4	e2.2	3.1	9.4	e3.0	3.2	6.4	11	16	3.5	11	2.0	1.3
5	e5.1	2.7	7.9	e2.4	2.7	e5.6	11	17	3.5	6.2	1.8	3.2
6	e12	2.5	7.5	e2.8	2.8	e5.2	12	18	3.3	5.7	1.8	2.6
7	e7.8	4.5	5.9	e3.4	3.0	e4.9	13	13	6.8	4.9	1.6	4.8
8	e5.2	6.0	4.8	e3.8	7.4	e4.6	13	10	6.5	6.0	19	5.2
9	e2.6	5.1	4.6	e4.4	16	e4.4	10	10	5.1	5.2	14	3.6
10	e1.4	4.3	3.7	e4.0	11	e4.2	8.7	45	4.6	4.8	4.8	2.6
11	e1.4	6.0	2.9	e4.4	16	e4.2	8.0	123	3.6	4.6	3.0	2.1
12	e1.3	10	2.2	e4.0	8.4	e5.0	11	392	12	4.2	2.4	2.4
13	e1.3	6.7	2.1	e3.8	6.7	e7.4	280	33	14	5.2	2.6	21
14	e4.3	7.4	7.7	e3.6	e6.0	22	119	19	6.0	4.4	2.4	9.7
15	e5.2	16	24	e4.0	e5.4	78	23	15	4.2	12	2.5	3.9
16	e3.3	12	13	e5.2	e4.8	33	17	13	3.5	9.0	3.1	3.1
17	e2.4	10	7.7	e20	e4.3	19	18	11	3.2	5.8	2.3	16
18	e2.0	10	6.5	e100	e3.7	19	15	9.4	3.4	12	2.0	26
19	e2.0	15	5.3	e760	e3.4	21	13	8.4	21	73	1.8	7.2
20	e6.0	17	5.1	45	e32	54	18	7.3	27	20	1.7	3.9
21	e94	21	6.0	19	e68	53	16	40	18	8.3	1.7	2.9
22	16	19	5.3	12	21	24	15	17	303	4.8	1.7	3.0
23	6.0	14	5.0	11	15	18	105	12	32	2.9	2.0	3.6
24	4.6	10	e4.8	85	27	16	123	13	13	2.7	2.3	2.9
25	3.6	8.9	e4.5	31	16	22	30	8.8	9.7	2.7	1.9	2.8
26	2.5	9.8	e4.4	13	12	23	21	7.2	6.5	2.7	1.6	2.5
27	2.4	11	e4.2	18	10	13	17	6.5	5.0	2.3	1.4	2.2
28	2.5	31	e4.0	13	17	11	13	5.9	4.2	2.2	1.6	5.6
29	2.2	19	e3.8	9.3	12	11	13	5.3	5.4	2.0	1.8	7.5
30	2.1	13	e3.6	7.5	---	9.6	40	4.6	32	3.2	1.6	4.3
31	2.2	---	e3.6	5.9	---	9.0	---	4.3	---	3.5	1.4	---
TOTAL	209.0	304.0	210.5	1208.1	347.4	531.7	1019.2	941.7	570.7	255.7	95.8	159.9
MEAN	6.74	10.1	6.79	39.0	12.0	17.2	34.0	30.4	19.0	8.25	3.09	5.33
MAX	94	31	24	760	68	78	280	392	303	73	19	26
MIN	1.1	2.1	2.1	2.4	2.7	4.2	8.0	4.3	3.2	2.0	1.4	1.3

e Estimated

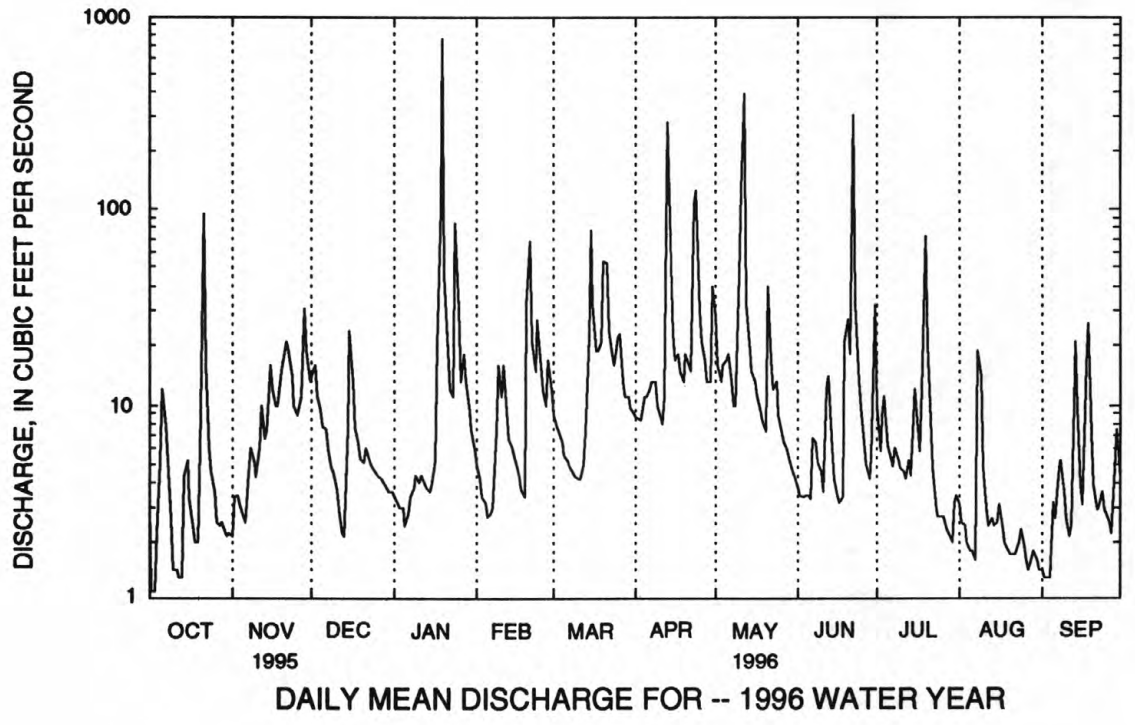
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

MEAN	4.79	8.00	8.10	20.0	13.2	25.2	22.1	14.7	8.07	3.95	3.32	3.61
MAX	6.74	10.1	10.0	39.0	19.1	42.4	34.0	30.4	19.0	8.25	5.65	5.33
(WY)	1996	1996	1995	1996	1994	1994	1996	1996	1996	1996	1994	1996
MIN	2.85	5.87	6.79	8.03	8.70	15.9	7.19	2.80	1.53	1.68	1.20	1.22
(WY)	1995	1995	1996	1994	1995	1995	1995	1995	1995	1995	1995	1995

04234232 GREAT BROOK BELOW VICTOR, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1994 - 1996	
ANNUAL TOTAL	2341.52		5853.7			
ANNUAL MEAN	6.42		16.0		11.0	
HIGHEST ANNUAL MEAN					16.0	1996
LOWEST ANNUAL MEAN					6.01	1995
HIGHEST DAILY MEAN	100	Jan 20	e760	Jan 19	760	Jan 19 1996
LOWEST DAILY MEAN	.90	a	e1.1	b	.90	a
ANNUAL SEVEN-DAY MINIMUM	.92	Aug 20	1.4	Aug 29	.92	Aug 20 1995
INSTANTANEOUS PEAK FLOW			1790	Jan 19	1790	Jan 19 1996
INSTANTANEOUS PEAK STAGE			6.21	Jan 19	6.21	Jan 19 1996
10 PERCENT EXCEEDS	14		22		20	
50 PERCENT EXCEEDS	3.7		5.9		5.0	
90 PERCENT EXCEEDS	1.1		2.2		1.4	

a Aug. 23, 24, 25, 26, 30, 1995.
b Oct. 2, 3.
e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04234500 CANANDAIGUA LAKE AT CANANDAIGUA, NY

LOCATION.--Lat 42°53'30", long 77°17'22", Ontario County, Hydrologic Unit 04140201, at comfort station in middle of city pier at northern end of Canandaigua Lake, 1 mi southeast of Canandaigua.

DRAINAGE AREA.--184 mi^2.

PERIOD OF RECORD.--November 1939 to current year. December 1927 to November 1939, records for site on west side of E. T. Waldorf's boathouse collected by, and in files of, city of Canandaigua.

REVISED RECORDS.--WSP 2112: Drainage area. WRD NY 1971: 1970. WDR NY-86-3: 1985.

GAGE.--Water-stage recorder. Datum of gage is sea level. To convert elevations to adjustment of 1988, subtract 0.50 ft. June 26, 1946 to Sept. 30, 1975, at datum 681.17 ft higher, and prior to June 26, 1946, nonrecording gage at E. T. Waldorf's boathouse at same datum.

REMARKS.--Lake elevation regulated by one gate on West outlet, which is a 1.5 mi long canal, and by two gates on East outlet, which is the natural outlet. Sill elevations of West and East outflow structures are 684.37 ft and 684.94 ft, respectively. Water diverted for municipal supply for villages of Newark, Palmyra, and Gorham. Records of diversion in files of city of Canandaigua. Area of water surface, 16.6 mi^2.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 692.11 ft, June 24, 1972; minimum daily, 685.62 ft, Jan. 30, 1942.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 689.77 ft, May 13; minimum, 686.31 ft, Oct. 20.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	686.51	686.72	686.97	686.93	688.19	687.56	688.04	688.84	688.58	688.56	688.27	688.06
2	686.47	686.75	686.96	686.93	688.13	687.53	688.05	688.82	688.60	688.56	688.26	688.04
3	686.44	686.72	687.02	686.98	688.05	687.53	688.08	688.80	688.58	688.55	688.25	688.02
4	686.46	686.71	687.01	687.00	688.00	687.48	688.12	688.79	688.58	688.56	688.24	688.01
5	686.48	686.68	687.10	686.99	687.93	687.48	688.14	688.79	688.60	688.56	688.22	688.00
6	686.62	686.67	687.03	686.98	687.88	687.47	688.16	688.80	688.59	688.55	688.22	687.98
7	686.61	686.67	687.03	686.97	687.81	687.46	688.20	688.80	688.59	688.54	688.21	687.97
8	686.60	686.65	687.02	686.96	687.76	687.45	688.22	688.74	688.63	688.52	688.33	687.97
9	686.58	686.63	687.07	686.96	687.74	687.43	688.23	688.73	688.62	688.51	688.46	687.91
10	686.57	686.69	687.01	686.96	687.71	687.38	688.24	688.78	688.64	688.49	688.44	687.90
11	686.56	686.72	686.99	686.95	687.69	687.35	688.26	689.08	688.61	688.47	688.44	687.90
12	686.55	686.62	686.97	686.94	687.67	687.32	688.28	689.54	688.61	688.48	688.44	687.91
13	686.54	686.64	686.95	686.94	687.63	687.29	688.54	689.71	688.66	688.44	688.41	688.03
14	686.55	686.62	687.01	686.94	687.58	687.29	688.80	689.71	688.65	688.42	688.39	688.11
15	686.57	686.73	686.99	686.93	687.55	687.38	688.93	689.67	688.63	688.46	688.40	688.10
16	686.53	686.75	687.00	686.94	687.51	687.47	688.88	689.58	688.61	688.49	688.39	688.05
17	686.50	686.75	686.99	686.93	687.47	687.50	688.85	689.50	688.58	688.46	688.35	688.05
18	686.51	686.76	686.98	687.00	687.44	687.51	688.82	689.42	688.57	688.45	688.34	688.11
19	686.46	686.76	686.98	687.56	687.40	687.52	688.80	689.36	688.62	688.48	688.33	688.12
20	686.50	686.79	687.01	688.27	687.37	687.63	688.77	689.28	688.63	688.44	688.32	688.13
21	686.67	686.79	687.00	688.47	687.45	687.76	688.74	689.25	688.62	688.41	688.29	688.12
22	686.81	686.80	686.99	688.49	687.50	687.82	688.71	689.21	688.61	688.41	688.28	688.10
23	686.80	686.82	686.99	688.46	687.52	687.84	688.69	689.15	688.60	688.40	688.27	688.06
24	686.84	686.81	686.99	688.47	687.58	687.83	688.74	689.09	688.56	688.38	688.25	688.07
25	686.78	686.83	686.99	688.47	687.60	687.87	688.77	689.01	688.48	688.38	688.24	688.05
26	686.79	686.81	686.98	688.46	687.59	687.90	688.77	688.94	688.48	688.34	688.20	688.05
27	686.83	686.82	686.96	688.47	687.59	687.93	688.73	688.86	688.49	688.33	688.17	688.12
28	686.77	686.85	686.96	688.40	687.60	687.96	688.68	688.80	688.46	688.30	688.15	688.10
29	686.74	686.89	686.95	688.42	687.58	687.98	688.65	688.70	688.50	688.30	688.13	688.07
30	686.73	686.93	686.95	688.31	---	688.00	688.70	688.63	688.57	688.31	688.10	688.05
31	686.72	---	686.94	688.25	---	688.02	---	688.59	---	688.27	688.09	---
MEAN	686.62	686.75	686.99	687.54	687.67	687.61	688.52	689.06	688.58	688.45	688.29	688.04
MAX	686.84	686.93	687.10	688.49	688.19	688.02	688.93	689.71	688.66	688.56	688.46	688.13
MIN	686.44	686.62	686.94	686.93	687.37	687.29	688.04	688.59	688.46	688.27	688.09	687.90

CAL YR 1995 MEAN 687.32 MAX 688.01 MIN 686.44
WTR YR 1996 MEAN 687.84 MAX 689.71 MIN 686.44

04235000 CANANDAIGUA OUTLET AT CHAPIN, NY

LOCATION.--Lat 42°55'05", long 77°13'59", Ontario County, Hydrologic Unit 04140201, on right bank at Chapin, 25 ft upstream from bridge on State Highway 488, and 4.1 mi downstream from Canandaigua Lake.

DRAINAGE AREA.--195 mi^2.

PERIOD OF RECORD.--November 1939 to current year. Prior to October 1964, published as "Canandaigua Lake Outlet."

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 671.44 ft above sea level. Prior to June 25, 1974, at site 0.1 mi upstream at datum 676.90 ft above sea level.

REMARKS.--Records good. 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. Telephone gage-height telemeter at station. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	26	51	e42	444	285	84	637	76	55	49	54
2	26	28	52	e40	442	278	83	586	69	52	42	54
3	25	28	52	e34	428	268	85	569	71	58	41	54
4	26	28	51	e46	404	241	90	568	72	63	40	54
5	30	27	53	e50	391	259	91	570	73	54	42	55
6	41	28	54	e52	370	262	92	579	89	51	47	64
7	29	31	50	e54	348	258	94	567	153	50	48	162
8	28	30	49	e52	338	255	96	548	157	50	65	180
9	27	28	51	e50	340	251	94	538	148	49	91	53
10	26	29	52	e52	330	242	93	585	144	47	61	50
11	26	33	65	e52	329	229	92	735	135	47	57	49
12	26	33	103	e54	315	224	97	962	128	49	56	51
13	25	29	139	e52	300	221	432	861	129	54	54	97
14	24	30	117	e48	293	233	654	838	120	53	54	70
15	24	37	70	e45	284	316	631	823	113	65	54	56
16	22	39	55	e50	274	304	621	824	112	61	54	53
17	21	38	50	54	264	290	602	796	109	55	53	64
18	21	39	49	181	254	295	587	771	108	61	53	82
19	19	40	46	418	244	300	572	749	131	100	52	49
20	20	45	48	417	272	358	556	731	239	74	47	49
21	76	53	e52	418	334	390	537	742	448	57	50	59
22	41	52	e54	436	297	377	522	726	525	54	55	52
23	28	46	e50	506	289	367	537	698	552	54	57	52
24	28	41	e46	533	317	354	600	682	513	54	58	51
25	26	41	e46	533	313	252	576	655	380	53	57	51
26	27	40	e48	508	302	92	565	634	60	53	56	50
27	27	42	e48	496	296	86	552	613	53	52	56	50
28	26	69	e46	488	305	85	534	594	51	51	56	54
29	26	55	e45	502	296	86	525	545	51	49	56	58
30	26	48	e44	480	---	86	637	484	66	45	55	52
31	26	---	e43	451	---	84	---	394	---	51	56	---
TOTAL	870	1133	1779	7194	9413	7628	11331	20604	5075	1721	1672	1929
MEAN	28.1	37.8	57.4	232	325	246	378	665	169	55.5	53.9	64.3
MAX	76	69	139	533	444	390	654	962	552	100	91	180
MIN	19	26	43	34	244	84	83	394	51	45	40	49

e Estimated

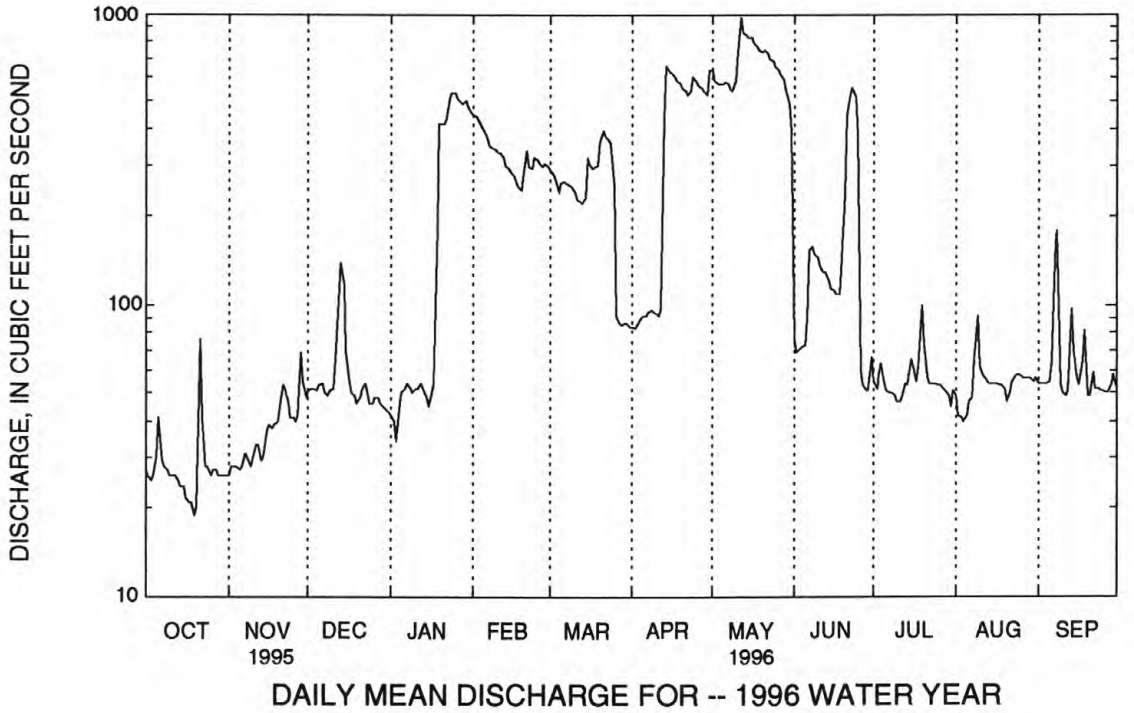
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

MEAN	73.3	92.5	128	143	159	287	406	269	148	90.3	61.9	52.3
MAX	613	419	521	420	518	748	1036	725	566	852	483	363
(WY)	1978	1978	1973	1993	1976	1976	1993	1943	1972	1972	1992	1977
MIN	13.0	12.9	11.1	8.38	9.47	28.9	61.4	46.7	20.7	17.3	16.2	13.3
(WY)	1992	1964	1967	1967	1967	1967	1946	1995	1955	1963	1991	1991

04235000 CANANDAIGUA OUTLET AT CHAPIN, NY--continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1940 - 1996	
ANNUAL TOTAL	28042		70349			
ANNUAL MEAN	76.8		192		158	
HIGHEST ANNUAL MEAN					302	1993
LOWEST ANNUAL MEAN					57.7	1965
HIGHEST DAILY MEAN	402	Mar 12	962	May 12	1680	Jun 24 1972
LOWEST DAILY MEAN	19	Oct 19	19	Oct 19	5.2	Sep 15 1948
ANNUAL SEVEN-DAY MINIMUM	22	Oct 14	22	Oct 14	7.1	Feb 23 1967
INSTANTANEOUS PEAK FLOW			1010	May 12	1710	Jun 24 1972
INSTANTANEOUS PEAK STAGE			6.11	May 12	a11.08	Jun 24 1972
INSTANTANEOUS LOW FLOW			19	b	4.4	Sep 24 1991
10 PERCENT EXCEEDS	206		559		453	
50 PERCENT EXCEEDS	45		61		64	
90 PERCENT EXCEEDS	29		30		25	

a Present datum, at site then in use.
b Oct. 19, 20.



04235396 OWASCO LAKE NEAR AUBURN, NY

LOCATION.--Lat 42°53'56", long 76°32'17", Cayuga County, Hydrologic Unit 04140201, on east side of breakwater at city of Auburn water intake and pumping station, 1.0 mi south of city limits of Auburn, and 1.8 mi upstream from State dam.

DRAINAGE AREA.--205 mi^2.

PERIOD OF RECORD.--October 1967 to current year. Records since 1912 collected by, and in files of, city of Auburn.

GAGE.--Water-stage recorder. Datum of gage is sea level. To convert elevations to adjustment of 1988, subtract 0.49 ft. Prior to May 1, 1982, nonrecording gage read once daily by employees of city of Auburn Water Division at same site and datum from reference mark at elevation 718.59 ft above sea level.

REMARKS.--Lake elevation regulated by gates on outlet at State dam. Area of water surface, 10.6 mi^2.

COOPERATION.--Records furnished by city of Auburn until April 30, 1982.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed elevation, 716.88 ft, June 25, 1972; minimum observed, 708.45 ft, Mar. 22, 23, 1993.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum observed elevation since 1912, 716.91 ft, Mar. 23, 1936, Apr. 9, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 714.21 ft, May 13; minimum, 709.06 ft, Jan. 17, but may have been lower during periods of missing gage-height record.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	710.98	711.45	711.97	709.91	712.47	712.81	712.08	713.23	712.74	713.01	712.63	712.44
2	710.89	711.51	711.96	709.81	712.29	712.79	712.06	713.05	712.75	712.99	712.64	712.42
3	710.83	711.53	711.86	709.91	712.21	712.74	712.05	712.96	712.77	712.90	712.62	712.39
4	710.83	711.53	711.88	---	712.15	712.64	712.12	712.94	712.78	712.87	712.60	712.36
5	710.83	711.54	711.77	---	712.08	712.57	712.17	713.01	712.81	712.85	712.57	712.35
6	710.99	711.60	711.84	---	712.01	712.51	712.23	713.03	712.81	712.81	712.57	712.34
7	710.96	711.51	711.80	---	711.92	712.43	712.31	712.97	712.86	712.72	712.57	712.35
8	710.93	711.58	711.74	---	711.87	712.36	712.39	712.92	712.95	712.58	712.70	712.38
9	710.90	711.58	711.58	---	711.89	712.27	712.45	712.94	712.98	712.49	712.86	712.44
10	710.91	711.58	711.60	---	711.86	712.16	712.53	712.98	713.04	712.45	712.89	712.43
11	710.90	711.46	711.54	---	711.85	712.09	712.61	713.30	713.00	712.46	712.89	712.41
12	710.90	711.86	711.45	---	711.83	712.11	712.72	713.86	712.90	712.51	712.92	712.39
13	710.89	712.06	711.36	---	711.79	712.08	712.91	714.18	712.83	712.46	712.86	712.42
14	710.90	712.02	711.10	---	711.72	712.13	713.36	714.08	712.75	712.48	712.81	712.42
15	710.96	712.08	711.26	---	711.67	712.26	713.46	713.85	712.67	712.57	712.84	712.36
16	710.93	712.08	711.19	---	711.60	712.34	713.29	713.62	712.67	712.66	712.86	712.37
17	710.92	712.01	711.12	709.11	711.53	712.34	713.30	713.35	712.64	712.67	712.82	712.39
18	710.91	712.02	711.04	709.31	711.46	712.32	713.29	713.11	712.64	712.69	712.81	712.43
19	710.89	711.95	710.97	710.79	711.39	712.32	713.20	712.97	712.77	712.72	712.77	712.44
20	710.91	711.98	710.93	712.81	711.42	712.39	713.22	712.95	712.78	712.68	712.79	712.44
21	711.20	711.97	710.85	713.13	711.71	712.46	713.18	712.96	712.74	712.71	712.71	712.47
22	711.82	711.96	710.77	713.22	711.98	712.40	713.19	712.98	712.82	712.76	712.68	712.49
23	711.86	711.97	710.69	713.11	712.07	712.28	713.09	712.97	712.80	712.74	712.67	712.48
24	711.80	711.93	710.61	713.09	712.27	712.15	713.15	712.96	712.86	712.73	712.63	712.44
25	711.69	711.90	710.53	713.15	712.51	712.05	713.14	712.91	712.84	712.73	712.63	712.45
26	711.72	711.86	710.45	713.04	712.60	712.10	713.04	712.85	712.86	712.68	712.60	712.41
27	711.61	711.81	710.37	712.75	712.64	712.13	713.05	712.81	712.89	712.65	712.56	712.36
28	711.56	711.83	710.28	713.01	712.71	712.12	713.10	712.76	712.87	712.66	712.55	712.30
29	711.43	711.98	710.19	712.82	712.80	712.11	713.11	712.70	712.94	712.68	712.52	712.52
30	711.43	712.00	710.09	712.82	---	712.10	713.07	712.71	713.00	712.72	712.49	712.54
31	711.47	---	709.98	712.67	---	712.09	---	712.72	---	712.66	712.46	---
MEAN	711.15	711.80	711.12	---	712.01	712.31	712.83	713.12	712.83	712.69	712.69	712.41
MAX	711.86	712.08	711.97	---	712.80	712.81	713.46	714.18	713.04	713.01	712.92	712.54
MIN	710.83	711.45	709.98	---	711.39	712.05	712.05	712.70	712.64	712.45	712.46	712.30

CAL YR 1995 MEAN 711.55 MAX 712.94 MIN 709.75

04235500 OWASCO OUTLET NEAR AUBURN, NY

LOCATION.--Lat 42°56'48", long 76°35'56", Cayuga County, Hydrologic Unit 04140201, on left bank 2.5 mi downstream from center of Auburn, and 4 mi downstream from State Dam at outlet of Owasco Lake.

DRAINAGE AREA.--206 mi^2.

PERIOD OF RECORD.--November 1912 to current year. Prior to October 1966, published as "Owasco Lake Outlet".

REVISED RECORDS.--WSP 824: 1913-14, 1916, 1920(M), 1922(M), 1928(M), 1929, 1932(M). WSP 2112: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 533.92 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diurnal fluctuation caused by mills in Auburn; regulation at State Dam at outlet of lake. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	67	536	e430	e900	397	401	1280	70	71	71	61
2	61	68	586	e480	e700	607	401	1260	69	262	73	61
3	63	73	584	e480	e680	e450	326	782	69	410	103	62
4	66	66	508	e480	e650	e450	79	522	68	408	102	61
5	84	62	434	e480	e630	e500	63	518	69	400	92	100
6	69	61	432	e480	e600	e500	75	872	68	399	76	82
7	66	63	430	e480	e560	e500	79	723	78	394	76	67
8	60	59	428	e480	e540	e300	78	472	75	393	125	75
9	59	64	424	e480	e500	e70	72	443	76	275	116	64
10	58	63	419	e480	e480	e70	68	455	119	68	118	63
11	58	68	306	e80	e440	e70	59	1040	429	63	114	61
12	58	76	413	e250	e440	e70	62	1700	425	62	113	80
13	57	177	409	e80	e440	e70	241	1870	430	61	112	73
14	74	435	418	e50	e440	e70	1180	1800	412	60	110	54
15	66	523	405	e60	e440	391	1500	1640	290	105	120	51
16	60	557	401	e75	e440	595	1370	1520	72	71	125	53
17	60	473	395	77	e440	590	1300	1400	70	67	123	70
18	59	472	399	112	e440	590	1150	1210	69	69	122	68
19	57	476	326	659	e200	585	779	691	89	74	118	62
20	57	462	402	1600	e150	570	652	448	73	65	123	59
21	247	438	400	1380	417	728	645	481	59	64	122	59
22	438	435	400	1060	435	985	647	432	77	63	114	60
23	427	428	399	1120	433	951	784	440	73	66	75	59
24	424	431	395	1200	449	911	1180	438	73	73	70	58
25	377	436	394	1250	441	703	1290	436	71	73	69	57
26	188	426	388	1190	437	558	988	435	72	72	69	59
27	414	426	390	1140	475	489	466	320	114	71	69	64
28	409	433	391	1030	514	442	469	435	76	68	68	90
29	306	434	394	1040	462	430	753	295	56	68	65	75
30	86	442	397	701	---	411	1170	73	83	70	63	67
31	68	---	399	1090	---	406	---	72	---	71	62	---
TOTAL	4635	8694	13002	19994	14173	14459	18327	24503	3874	4536	2978	1975
MEAN	150	290	419	645	489	466	611	790	129	146	96.1	65.8
MAX	438	557	586	1600	900	985	1500	1870	430	410	125	100
MIN	57	59	306	50	150	70	59	72	56	60	62	51

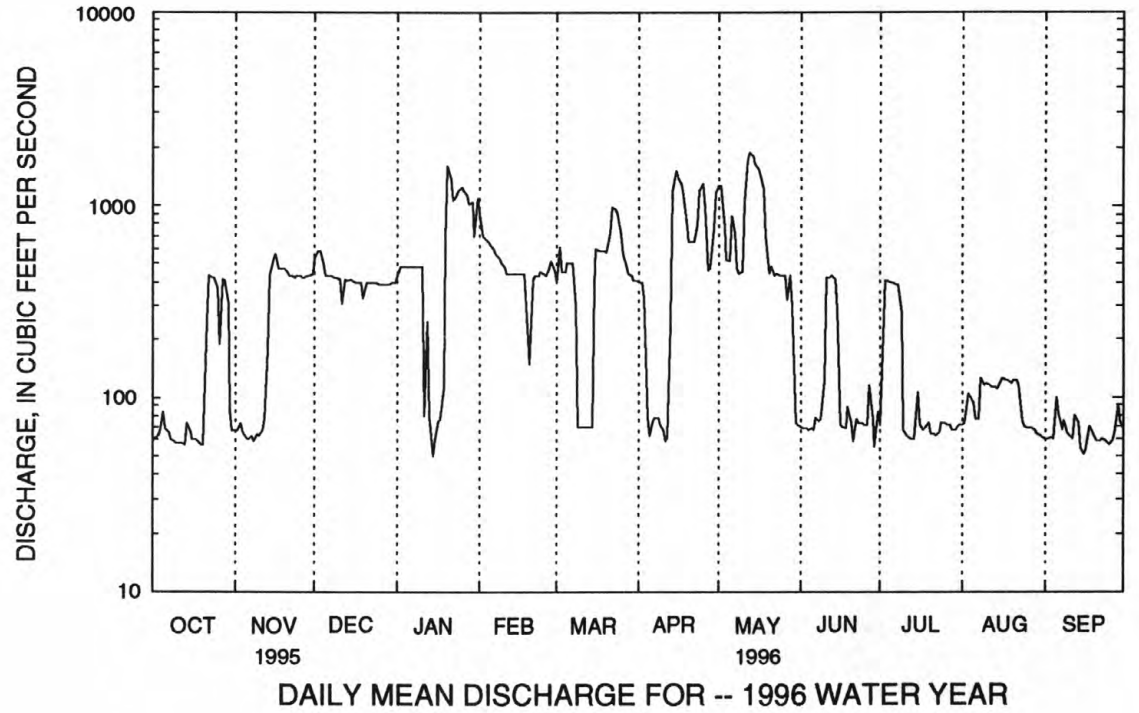
e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1996, BY WATER YEAR (WY)

MEAN	146	215	304	315	333	535	633	361	236	162	120	120
MAX	1013	773	1054	851	810	1255	1793	892	1066	620	366	597
(WY)	1978	1982	1928	1943	1990	1945	1993	1943	1972	1972	1992	1977
MIN	17.7	14.6	13.5	14.3	49.2	75.4	194	42.4	54.2	41.9	29.6	27.0
(WY)	1954	1954	1954	1961	1989	1989	1915	1985	1991	1987	1975	1983

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1913 - 1996	
ANNUAL TOTAL	68819		131150			
ANNUAL MEAN	189		358		290	
HIGHEST ANNUAL MEAN					436	1978
LOWEST ANNUAL MEAN					122	1965
HIGHEST DAILY MEAN	834	Mar 10	1870	May 13	3200	Jun 24 1972
LOWEST DAILY MEAN	43	Jun 15	e50	Jan 14	5.0	Nov 11 1934
ANNUAL SEVEN-DAY MINIMUM	55	Feb 8	59	Sep 20	11	Jan 29 1961
INSTANTANEOUS PEAK FLOW			1960	May 13	3250	Jun 23 1972
INSTANTANEOUS PEAK STAGE			4.34	May 13	6.28	Jun 23 1972
INSTANTANEOUS LOW FLOW			26	Jun 21	a2.0	Dec 5 1936
10 PERCENT EXCEEDS	420		783		650	
50 PERCENT EXCEEDS	74		326		198	
90 PERCENT EXCEEDS	60		62		48	

a About.
e Estimated.



04237500 SENECA RIVER AT BALDWINSVILLE, NY

LOCATION.--Lat 43°09'25", long 76°19'55", Onondaga County, Hydrologic Unit 04140201, on left bank 200 ft downstream from bridge on State Highways 31 and 48 in Baldwinsville, and 400 ft downstream from navigation dam at Lock 24 of New York State Erie (Barge) Canal.

DRAINAGE AREA.--3,138 mi^2.

PERIOD OF RECORD.--November 1949 to current year in reports of Geological Survey. November 1898 to December 1908, prior to construction of Erie (Barge) Canal, not equivalent to later records at same site because of extensive development of Erie (Barge) Canal system. January 1909 to September 1925 (gage heights only) in reports of State Engineer and Surveyor.

REVISED RECORDS.--WDR NY-78-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 361.38 ft above sea level (362.60 ft Erie (Barge) Canal Datum). Prior to Dec. 31, 1908, nonrecording gage at same site at different datum. Auxiliary water-stage recorder 1,500 ft downstream from base gage at same datum. Telephone gage-height telemeter at base and auxiliary gages.

REMARKS.--Records fair except for periods of estimated daily discharges, which are poor. Discharge from 1898 to 1908 determined on basis of head on dam, flow through 10 mills nearby, lockages at Oswego Canal lock, estimated leakage of dam, wheel gates, flumes, and penstocks; not adjusted for inflow from Lake Erie through Erie (Barge) Canal. Discharge, since November 1949, computed by using fall as determined by auxiliary water-stage recorder. Published discharge represents the total flow 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 the 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 mi^2 of Mud Creek drainage area may be diverted from Chemung River basin into Keuka Lake in Oswego River basin. Several measurements of water temperature were made during the year.

COOPERATION.--Records of lockages at Lock 24 furnished by New York State Department Thruway Authority, Office of Canals.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	503	2040	5900	1070	7620	7000	1710	8850	7160	3120	810	528
2	462	2450	e6000	1470	7320	6900	2540	9400	6290	3480	1120	541
3	439	2930	e6000	1510	7210	7000	2590	9600	5760	3630	1110	456
4	434	3100	e6000	1490	6880	6670	2020	9320	5460	3500	1150	505
5	431	2870	6010	1530	6500	6080	1620	8940	5130	2580	1110	530
6	1070	2450	6080	1530	6300	5590	1590	8560	5050	2050	1180	613
7	1330	2410	5780	1200	6750	5550	1580	8580	4970	2080	1250	1400
8	1270	2740	5650	1100	6970	4950	1550	8450	5270	2000	1750	972
9	1010	3670	5950	1080	7290	4740	1580	8180	5090	2030	2680	650
10	560	4100	5800	1030	7340	e4400	1200	7700	5240	2020	2840	631
11	884	4560	5190	1050	7300	e4500	e900	7930	5260	1800	2700	755
12	1590	5230	5350	1060	7300	e4400	e700	9330	4680	1510	2260	681
13	2030	5460	5170	1020	6850	e3500	1130	10800	3810	1140	2600	683
14	2320	5020	5380	1030	e6000	e2600	4210	11800	3790	1160	2840	1850
15	2400	5210	5300	1030	e6400	2270	6200	12500	3740	1270	2870	2560
16	2750	5760	5260	1070	e6500	3340	6950	12600	3300	2000	2970	2540
17	2740	5720	5030	1050	e6300	4790	7450	12200	2330	2040	3120	2860
18	2240	5490	4770	1790	e5800	4840	7700	11600	1700	1720	3180	2090
19	2000	5520	4340	6020	e6000	4740	7880	11200	1440	1870	2760	2080
20	1410	5680	3900	9190	e5800	4650	7940	10800	2240	1940	2030	2660
21	2900	5650	3830	9880	6760	4760	7900	10500	2880	1920	1290	2380
22	5230	5510	3800	9810	7430	5230	7800	10200	2910	1570	515	1660
23	5100	5600	3870	9450	7490	5480	7880	10100	3300	1310	352	1660
24	4960	5570	3380	8950	7310	5300	8190	10000	3840	1390	573	1760
25	4850	5570	3080	8370	7370	4700	8480	9870	3890	1670	753	2130
26	4860	5460	2020	8080	7150	4050	8830	9700	3540	1690	639	2480
27	5230	5290	1150	8040	7040	3090	8830	9460	3390	1080	629	2200
28	5420	5100	1210	7900	7170	2610	8520	9280	2960	1050	745	2240
29	5470	5670	1650	7880	7120	2800	8190	9030	2680	965	803	2650
30	5180	5720	1750	7850	---	2790	8240	8640	2750	1020	545	2630
31	3290	---	1570	7690	---	1850	---	8000	---	720	473	---
TOTAL	80363	137550	136170	131220	199270	141170	151900	303120	119850	57325	49647	47375
MEAN	2592	4585	4393	4233	6871	4554	5063	9778	3995	1849	1602	1579
MAX	5470	5760	6080	9880	7620	7000	8830	12600	7160	3630	3180	2860
MIN	431	2040	1150	1020	5800	1850	700	7700	1440	720	352	456

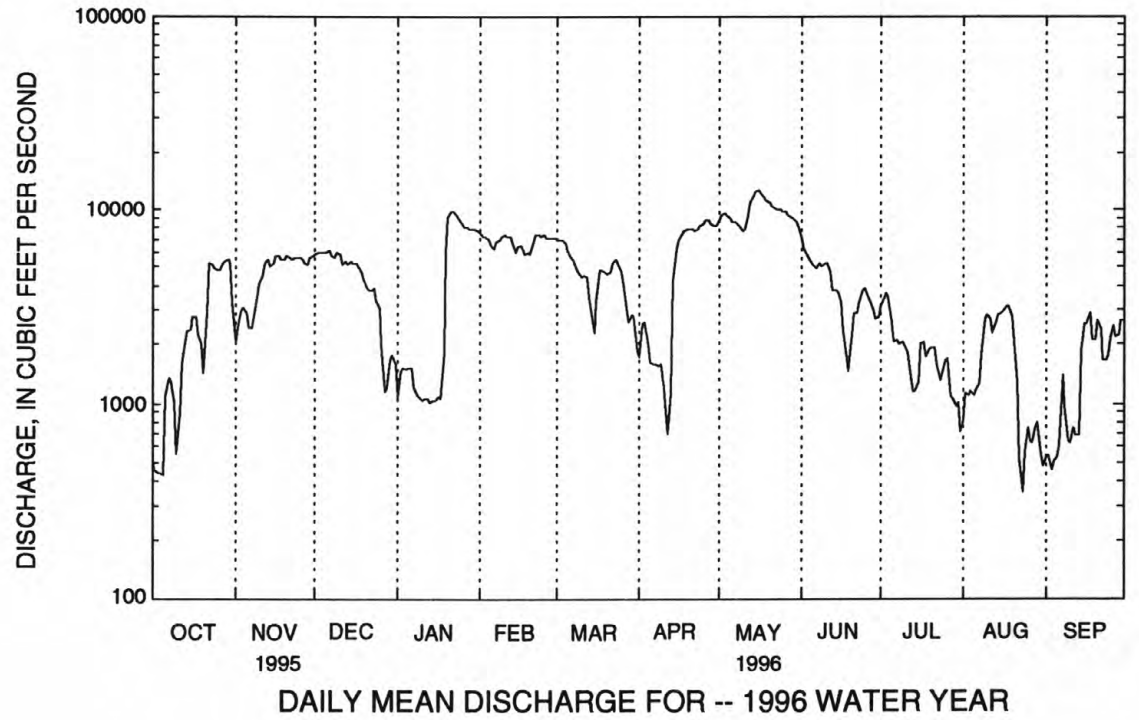
e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1996, BY WATER YEAR (WY)

MEAN	2201	3320	4387	3915	3870	5819	6100	4059	2628	1955	1572	1480
MAX	11020	9491	10330	8807	8313	11650	15610	9778	6456	12100	6214	4760
(WY)	1978	1978	1978	1978	1976	1956	1993	1996	1972	1972	1992	1977
MIN	572	675	778	805	965	1606	1317	719	592	621	588	421
(WY)	1986	1958	1961	1954	1980	1965	1981	1995	1995	1985	1985	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1950 - 1996	
ANNUAL TOTAL	793273		1554960			
ANNUAL MEAN	2173		4249		3437	
HIGHEST ANNUAL MEAN					5998	1978
LOWEST ANNUAL MEAN					1357	1965
HIGHEST DAILY MEAN	6450	Mar 9	12600	May 16	18100	Apr 27 1993
LOWEST DAILY MEAN	300	Sep 5	352	Aug 23	a34	Sep 17 1985
ANNUAL SEVEN-DAY MINIMUM	351	Sep 4	511	Aug 30	283	Sep 23 1988
10 PERCENT EXCEEDS	5460		8390		7620	
50 PERCENT EXCEEDS	1390		3650		2350	
90 PERCENT EXCEEDS	431		1020		891	

a Result of extreme regulation.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04237946 ONONDAGA CREEK TRIBUTARY NO. 6 BELOW MAIN MUDBOIL DEPRESSION AREA AT TULLY, NY

LOCATION.--Lat 42°51'18", long 76°08'24", Onondaga County, Hydrologic Unit 04140201, on right side of 9-in flume, 250 ft downstream from main depression area, about 2,100 ft east of Tully Farms Road, 1,500 ft south of Otisco Road, 400 ft upstream from mouth and 4.2 mi northwest of Tully.

DRAINAGE AREA.--0.32 mi^2 (0.70 mi^2 diverted to Trib. No. 5 on June 12, 1992).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1991 to current year.

REVISED RECORD.--WDR NY-93-3: 1992 (M).

GAGE.--Eletronic data logger with pressure transducer in flume stilling well.

REMARKS.--Records fair. Flow may include inflow from depressurizing wells, some originating outside the basin.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	.41	.95	.87	1.4	1.3	.86	1.9	.72	.37	.20	.40
2	.21	.43	.95	.89	1.3	1.3	.97	1.5	.71	.36	.19	.35
3	.32	.46	.91	.92	1.2	1.2	.98	1.4	.68	.54	.19	.40
4	.41	.45	.91	.91	1.1	1.1	.98	1.5	.71	.72	.20	.42
5	.52	.44	.90	.88	1.1	1.2	.87	1.4	.65	.45	.19	.39
6	.50	.42	.91	.89	1.0	1.1	.83	1.4	.63	.40	.18	.41
7	.42	.46	.85	.93	.98	1.1	.89	1.3	e.70	.37	.17	.42
8	.40	.47	.88	.91	1.1	1.1	.82	1.2	.75	.36	.46	.46
9	.41	.48	.87	.86	1.2	1.1	.77	1.2	.68	.34	.39	.35
10	.42	.50	.97	.86	1.1	1.0	.75	1.3	.73	.33	.18	.35
11	.41	.55	.99	.86	1.2	1.0	.72	2.1	.55	.38	.20	.32
12	.43	1.1	.92	.86	1.1	1.0	.73	4.0	.55	.40	.25	.31
13	.43	.72	.88	.86	1.0	1.0	1.2	2.7	.54	.28	.22	.34
14	.62	.73	.87	.84	1.0	1.2	1.3	2.1	.52	.27	.29	.31
15	.59	.90	.91	.90	.97	1.8	1.2	1.8	.50	.34	.45	.32
16	.50	.78	.92	.89	.92	1.6	1.4	1.6	.48	.22	.43	.30
17	.48	.75	.94	1.2	.90	1.4	1.4	1.5	.49	.19	.40	.43
18	.46	.73	.96	3.1	.88	1.3	1.2	1.5	.47	.20	.37	.43
19	.46	.97	.96	6.2	.86	1.1	1.1	1.4	.61	.50	.37	.31
20	.44	.99	1.0	3.9	1.5	1.2	1.3	1.2	.50	.37	.39	.26
21	1.7	1.1	.99	2.7	1.8	1.1	1.1	1.2	.43	.32	.54	.28
22	.66	1.0	.94	2.2	1.5	1.0	1.1	1.0	.41	.32	.52	.34
23	.49	.90	.87	1.9	1.4	.94	1.4	1.1	.34	.28	.58	.30
24	.44	.82	.85	3.4	1.9	.94	1.7	1.0	.38	.27	.55	.16
25	.41	.79	.89	2.6	1.6	.97	1.5	.98	.41	.26	.56	.07
26	.40	.81	.86	2.0	1.4	1.1	1.6	.94	.43	.25	.53	.06
27	.39	.88	.84	2.5	1.4	1.0	1.5	.89	.48	.27	.52	.03
28	.41	1.0	.85	2.1	1.5	1.0	1.3	.87	.54	.28	.47	.05
29	.42	.87	.85	1.8	1.4	.98	1.4	.84	.45	.27	.47	.07
30	.46	.82	.81	1.6	---	.89	2.0	.78	.48	.30	.46	.03
31	.43	---	.86	1.5	---	.86	---	.74	---	.26	.46	---
TOTAL	14.85	21.73	28.06	52.83	35.71	34.88	34.87	44.34	16.52	10.47	11.38	8.67
MEAN	.48	.72	.91	1.70	1.23	1.13	1.16	1.43	.55	.34	.37	.29
MAX	1.7	1.1	1.0	6.2	1.9	1.8	2.0	4.0	.75	.72	.58	.46
MIN	.21	.41	.81	.84	.86	.86	.72	.74	.34	.19	.17	.03
CFSM	1.50	2.26	2.83	5.33	3.85	3.52	3.63	4.47	1.72	1.06	1.15	.90
IN.	1.73	2.53	3.26	6.14	4.15	4.05	4.05	5.15	1.92	1.22	1.32	1.01

e Estimated

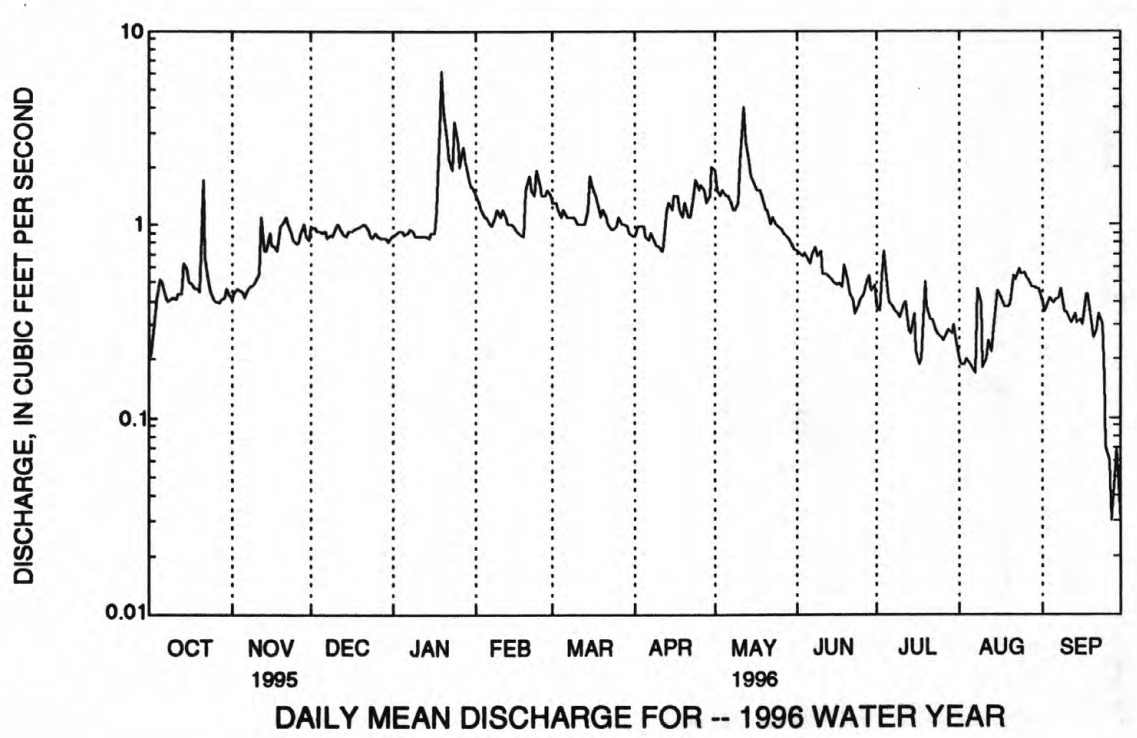
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

MEAN	.48	.81	1.10	1.52	1.35	2.42	2.42	1.34	.85	.65	.62	.44
MAX	.78	1.14	1.90	2.82	3.05	5.20	4.49	2.56	1.76	1.47	1.32	.77
(WY)	1993	1995	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992
MIN	.29	.51	.76	.67	.66	.93	1.04	.71	.41	.28	.35	.29
(WY)	1994	1994	1994	1994	1995	1995	1995	1995	1995	1995	1993	1996

04237946 ONONDAGA CREEK TRIBUTARY NO. 6 BELOW MAIN MUDBOIL DEPRESSION AREA AT TULLY, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1992 - 1996	
ANNUAL TOTAL	246.42		314.31			
ANNUAL MEAN	.68		.86		1.17	
HIGHEST ANNUAL MEAN					2.20	1992
LOWEST ANNUAL MEAN					.71	1995
HIGHEST DAILY MEAN	2.2	Jan 21	6.2	Jan 19	23	Mar 27 1992
LOWEST DAILY MEAN	.16	Jul 14	a.03	b	a.03	c
ANNUAL SEVEN-DAY MINIMUM	.20	Jul 8	.07	Sep 24	.07	Sep 24 1996
INSTANTANEOUS PEAK FLOW			9.3	Jan 19	45	Mar 27 1992
INSTANTANEOUS PEAK STAGE			2.90	Jan 19	2.90	Jan 19 1996
INSTANTANEOUS LOW FLOW			a.03	d	f.00	g
ANNUAL RUNOFF (CFSM)	2.11		2.68		3.64	
ANNUAL RUNOFF (INCHES)	28.65		36.54		49.52	
10 PERCENT EXCEEDS	1.1		1.5		2.3	
50 PERCENT EXCEEDS	.62		.84		.81	
90 PERCENT EXCEEDS	.27		.30		.33	

a Result of dam reconstruction.
b Sep. 27, 30.
c Sep. 27, 30, 1996.
d Sep. 27, 28, 30.
f Result of dam construction.
g July 29, 1993, June 20, 1994.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04237946 ONONDAGA CREEK TRIBUTARY NO. 6 BELOW MAIN MUDBOIL DEPRESSION AREA AT TULLY, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1991 to current year.
CHEMICAL DATA: 1992-96 (b).
SEDIMENT DATA: 1992-96 (e).

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--
SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean 27,200 mg/L, Oct. 1, 1991; minimum daily mean 22 mg/L, Aug.19, 1993.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily mean 148 tons, Mar.11, 1992; minimum daily mean 0.02 tons, on many days during August and September 1993.

EXTREMES FOR CURRENT YEAR.--
SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean 6,600 mg/L, Dec. 31; minimum daily mean 385 mg/L, Nov. 16.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily mean 18 tons, Dec. 20; minimum daily mean 0.10 tons, Sept. 30.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
08...	0730	0.46	8250	7.9	5.5	11.9	--	960	220	99	1400	7.8
FEB												
22...	0830	1.4	3770	7.6	5.5	12.1	--	490	120	45	530	3.3
JUN												
04...	0745	0.73	5660	7.9	13.5	8.5	85	510	110	58	780	2.8
AUG												
21...	0800	0.57	14400	7.7	17.0	8.6	--	1200	250	130	2600	7.4

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV											
08...	2400	270	178	217	9.5	4570	10	260	3.4	826	1.0
FEB											
22...	970	110	144	176	7.0	2030	16	120	1.4	1830	6.9
JUN											
04...	1700	200	142	173	7.5	3320	37	110	2.4	1340	2.6
AUG											
21...	4300	540	168	205	10	8200	<30	150	6.1	2260	3.5

04237946 ONONDAGA CREEK TRIBUTARY NO. 6 BELOW MAIN MUDBOIL DEPRESSION AREA AT TULLY, NY--Continued

SEDIMENT, SUSPENDED CONCENTRATION (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1560	1740	1080	6580	1070	1120	4790	981	1220	1370	2480	3640
2	1320	1600	1310	6040	1190	1110	4740	954	1270	1270	2410	3280
3	1160	1430	1590	5370	1320	1100	4610	901	1320	1180	2350	2950
4	1160	1270	1920	4780	1470	1100	4180	845	1370	1120	2280	2650
5	1180	1140	2330	4250	1630	1090	3750	792	1510	1210	2160	2390
6	1190	1020	2820	3780	1810	1080	3360	743	1680	1370	2190	2150
7	1210	906	3420	3370	2070	1080	3020	697	1860	1560	2450	1940
8	1230	830	4150	3000	3060	1070	2710	653	2150	1760	2730	1740
9	1250	824	5030	2670	3450	1060	2430	613	2550	1990	3050	1570
10	1270	814	6040	2370	3530	1060	2180	574	3020	2260	3410	1410
11	1280	720	6320	2110	3600	1050	1940	539	3580	2560	3810	1280
12	1300	620	6330	1880	3680	1040	1720	505	4200	2860	4260	1300
13	1320	533	6350	1670	3770	1040	1530	476	4270	2840	4750	1370
14	1340	459	6360	1490	3850	1030	1360	538	4180	2730	5130	1440
15	1360	398	6380	1320	3930	1020	1200	588	4080	2630	4640	1510
16	1380	385	6390	1180	4020	1020	1070	635	4060	2520	4100	1590
17	1400	387	6400	1050	4110	1040	949	683	4370	2850	3630	1670
18	1420	389	6420	947	4160	1820	855	714	4250	2860	3210	1750
19	1440	391	6430	926	3530	2270	853	742	3860	2410	2830	1840
20	1460	393	6450	914	2810	2630	869	771	3510	2030	2510	1940
21	1490	396	6460	902	2230	3090	886	801	3190	1710	2350	1990
22	1510	412	6470	890	1820	3640	903	833	2900	1460	2670	1900
23	1530	434	6490	878	1640	4280	920	865	2640	1370	3080	1790
24	1550	456	6500	867	1500	5000	937	899	2400	1310	3550	1690
25	1580	481	6520	856	1360	5170	953	934	2180	1250	4090	1600
26	1600	506	6530	852	1240	5110	968	971	1980	1190	4710	1510
27	1620	532	6550	875	1150	5060	983	1010	1830	1140	5430	1430
28	1650	606	6560	901	1130	5000	999	1050	1700	1510	6260	1350
29	1670	734	6570	927	1130	4950	1010	1090	1580	2250	6580	1280
30	1690	890	6590	955	---	4890	1000	1130	1470	2560	4740	1210
31	1720	---	6600	986	---	4840	---	1180	---	2540	4040	---
MEAN	1410	723	5330	2120	2460	2450	1920	797	2670	1920	3610	1840
MAX	1720	1740	6600	6580	4160	5170	4790	1180	4370	2860	6580	3640
MIN	1160	385	1080	852	1070	1020	853	476	1220	1120	2160	1210

04237946 ONONDAGA CREEK TRIBUTARY NO. 6 BELOW MAIN MUDBOIL DEPRESSION AREA AT TULLY, NY--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	1.9	2.8	15	4.1	3.9	11	5.0	2.4	1.4	1.3	4.0
2	.76	1.8	3.3	14	4.0	3.8	12	4.0	2.4	1.2	1.2	3.1
3	.99	1.8	3.9	13	4.2	3.5	12	3.5	2.4	1.7	1.2	3.2
4	1.3	1.5	4.7	12	4.4	3.3	11	3.4	2.7	2.2	1.2	3.0
5	1.7	1.3	5.7	10	4.8	3.5	8.9	3.0	2.7	1.5	1.1	2.5
6	1.6	1.2	6.9	9.0	5.0	3.3	7.6	2.8	2.8	1.5	1.1	2.3
7	1.4	1.1	7.8	8.5	5.5	3.2	7.2	2.4	3.5	1.6	1.1	2.2
8	1.3	1.0	9.9	7.3	9.2	3.2	6.0	2.1	4.3	1.7	3.4	2.2
9	1.4	1.1	12	6.2	11	3.1	5.0	2.0	4.7	1.8	3.2	1.5
10	1.4	1.1	16	5.5	10	2.9	4.4	2.0	6.0	2.0	1.6	1.3
11	1.4	1.1	17	4.9	12	2.8	3.7	3.1	5.3	2.6	2.1	1.1
12	1.5	1.8	16	4.4	11	2.8	3.4	5.5	6.2	3.1	2.9	1.1
13	1.5	1.0	15	3.9	11	2.8	4.9	3.5	6.2	2.2	2.8	1.3
14	2.3	.90	15	3.4	11	3.5	4.9	3.1	5.9	2.0	3.9	1.2
15	2.2	.97	16	3.2	10	5.1	3.7	2.8	5.5	2.4	5.6	1.3
16	1.8	.82	16	2.8	10	4.4	4.0	2.8	5.3	1.5	4.8	1.3
17	1.8	.78	16	3.3	10	3.9	3.6	2.7	5.7	1.5	3.9	2.0
18	1.8	.77	17	7.9	9.9	6.3	2.8	2.8	5.4	1.5	3.2	2.0
19	1.8	1.0	17	15	8.2	6.9	2.5	2.8	6.4	3.2	2.8	1.5
20	1.7	1.0	18	9.5	11	8.2	2.9	2.4	4.7	2.0	2.6	1.3
21	7.0	1.2	17	6.6	11	9.3	2.6	2.7	3.7	1.5	3.4	1.5
22	2.7	1.1	16	5.3	7.2	10	2.8	2.3	3.2	1.3	3.7	1.7
23	2.0	1.0	15	4.5	6.2	11	3.4	2.5	2.4	1.0	4.8	1.4
24	1.9	1.0	15	7.8	7.6	13	4.2	2.5	2.5	.96	5.3	.72
25	1.8	1.0	16	5.9	5.8	13	3.9	2.5	2.4	.87	6.2	.32
26	1.7	1.1	15	4.6	4.8	16	4.1	2.4	2.3	.80	6.7	.25
27	1.7	1.3	15	5.9	4.3	14	4.0	2.4	2.3	.82	7.5	.13
28	1.8	1.7	15	5.0	4.6	14	3.6	2.5	2.5	1.1	7.9	.18
29	1.9	1.7	15	4.5	4.2	13	3.8	2.5	1.9	1.6	8.3	.25
30	2.1	2.0	14	4.2	---	12	5.4	2.4	1.9	2.1	5.9	.10
31	2.0	---	15	4.0	---	11	---	2.3	---	1.8	5.0	---
TOTAL	57.15	37.04	404.0	217.1	222.0	216.7	159.3	88.7	115.6	52.45	115.7	45.95
MEAN	1.8	1.2	13	7.0	7.7	7.0	5.3	2.9	3.9	1.7	3.7	1.5
MAX	7.0	2.0	18	15	12	16	12	5.5	6.4	3.2	8.3	4.0
MIN	.76	.77	2.8	2.8	4.0	2.8	2.5	2.0	1.9	.80	1.1	.10

04237946 ONONDAGA CREEK TRIBUTARY NO. 6 BELOW MAIN MUDBOIL DEPRESSION AREA AT TULLY, NY--Continued

PARTICLE-DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
WATER QUALITY DATA

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)
NOV 1995							
01...	1700	0.39	1750	1.8	100	--	--
JAN 1996							
18...	1010	2.1	939	5.3	100	--	--
FEB							
18...	1700	0.88	4220	10	100	--	--
MAR							
18...	1320	1.3	2030	7.1	100	--	--
MAY							
13...	2030	2.5	463	3.1	100	100	100
14...	0810	2.2	538	3.2	99	--	--
JUL							
17...	1100	0.19	2430	1.2	100	--	--
AUG							
30...	1400	0.44	4450	5.3	100	--	100

04238500 ONONDAGA RESERVOIR NEAR NEDROW, NY

LOCATION.--Lat 42°55'51", long 76°10'24", Onondaga County, Hydrologic Unit 04140201, at Onondaga Dam on Onondaga Creek, 3.5 mi southwest of Nedrow, 4.0 mi south of Syracuse, and 10.5 mi upstream from Onondaga Lake.

DRAINAGE AREA.--67.7 mi^2.

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 sea level (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by a rolled earthfill dam, completed by Corps of Engineers in August 1949 for flood control; first used for flood regulation about a year prior to completion. Usable capacity, 18,200 acre-ft between elevations 457.0 ft, conduit invert at intake, and 504.5 ft crest of spillway. No dead storage. The flood-control works consist of a pressure conduit and a side-channel spillway and are not provided with gates. Water is stored during high flows and released gradually. Storage includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin.

COOPERATION.--Capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 485.9 ft, Apr. 1, 1960, contents, 5,960 acre-ft; no contents at times.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 481.83 ft, Jan. 20, contents, 4,170 acre-ft; minimum elevation, 459.16 ft, Oct. 3-5, no contents many days.

Capacity table (elevation, in feet, and contents, in acre-feet)

460.00	0	470.00	700
461.00	5	473.00	1,420
462.00	15	478.00	2,880
464.00	50	482.00	4,230
467.00	225	486.00	6,010

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	459.17	460.55	463.42	460.39	463.54	463.65	462.21	467.04	461.04	460.12	459.67	459.48
2	459.17	460.45	463.25	460.36	463.08	463.05	462.15	467.31	460.91	460.03	459.69	459.47
3	459.16	460.39	463.07	460.32	462.39	462.76	462.08	466.31	460.80	460.06	459.67	459.45
4	459.16	460.44	462.91	460.35	461.63	462.42	461.95	465.36	460.76	460.66	459.65	459.44
5	459.16	460.51	462.80	460.36	461.27	462.05	461.81	465.31	461.09	460.87	459.62	459.43
6	459.27	460.46	462.60	460.32	461.18	461.91	461.63	465.19	460.96	460.52	459.59	459.44
7	459.35	460.39	462.34	460.26	461.16	461.72	461.55	465.05	460.89	460.26	459.57	459.43
8	459.37	460.37	461.96	460.23	461.25	461.79	461.74	464.40	461.41	460.11	460.10	459.48
9	459.38	460.38	461.66	460.21	463.06	461.74	461.76	463.78	461.44	459.99	461.85	459.60
10	459.38	460.39	461.47	460.21	463.06	461.76	461.69	463.63	461.17	459.91	461.03	459.66
11	459.37	460.50	461.18	460.20	462.73	462.00	461.60	464.82	460.96	459.85	460.35	459.66
12	459.37	462.67	460.89	460.19	462.57	461.89	461.54	467.88	460.76	459.80	460.03	459.63
13	459.36	463.72	460.71	460.19	462.14	461.63	462.05	470.45	460.65	459.77	459.89	459.60
14	459.36	463.18	460.58	460.21	462.79	461.67	465.24	470.27	460.59	459.76	459.81	459.63
15	459.56	462.90	460.54	460.25	462.13	463.67	466.06	468.58	460.51	459.82	459.74	459.63
16	459.75	462.78	460.65	460.20	461.58	464.88	465.35	466.80	460.41	460.11	459.81	459.62
17	459.75	462.60	460.73	460.36	461.27	464.08	465.47	465.72	460.34	460.10	459.87	459.61
18	459.73	462.37	460.72	462.54	461.15	463.43	465.65	464.91	460.28	459.98	459.82	459.78
19	459.69	462.27	460.66	470.59	460.92	463.53	465.23	464.97	460.40	459.98	459.76	459.88
20	459.67	462.40	460.56	481.21	461.23	464.16	464.53	464.81	460.80	460.52	459.70	459.81
21	460.45	462.62	460.52	480.11	465.41	464.52	464.22	464.03	460.66	460.36	459.65	459.74
22	464.89	462.83	460.51	476.77	466.84	464.31	463.75	464.39	460.36	460.14	459.63	459.69
23	464.39	462.78	460.50	473.01	465.35	463.73	463.59	463.47	460.23	459.99	459.61	459.81
24	462.91	462.56	460.48	469.32	465.05	463.16	465.39	463.45	460.14	459.88	459.64	459.82
25	462.21	462.19	460.46	468.52	465.89	462.87	466.32	463.09	460.09	459.81	459.63	459.78
26	461.78	461.85	460.43	466.87	464.85	463.97	465.99	462.48	460.05	459.77	459.60	459.75
27	461.44	461.64	460.39	465.56	463.78	464.04	465.70	462.10	460.00	459.73	459.57	459.72
28	461.19	462.51	460.38	466.66	463.89	463.18	465.32	461.79	460.03	459.70	459.55	459.68
29	460.98	464.18	460.36	465.91	464.39	462.77	464.47	461.57	460.06	459.67	459.53	459.99
30	460.81	463.90	460.44	464.63	---	462.57	464.64	461.37	460.07	459.65	459.51	460.11
31	460.67	---	460.45	463.62	---	462.36	---	461.20	---	459.65	459.49	---
MEAN	460.32	461.89	461.21	464.51	462.95	462.94	463.69	464.89	460.60	460.02	459.83	459.66
MAX	464.89	464.18	463.42	481.21	466.84	464.88	466.32	470.45	461.44	460.87	461.85	460.11
MIN	459.16	460.37	460.36	460.19	460.92	461.63	461.54	461.20	460.00	459.65	459.49	459.43
†	3.05	42.6	2.05	35.4	51.2	19.0	108	6.10	0.70	0	0	0.20
††	+0.05	+0.66	-0.66	+0.54	+0.27	-0.52	+1.50	-1.71	-0.09	-0.01	0	0

CAL YR 1995 MEAN 460.71 MAX 466.34 MIN 459.13
WTR YR 1996 MEAN 461.87 MAX 481.21 MIN 459.16

† Contents, in acre-ft, at end of month.
†† Change in contents, equivalent in cubic feet per second

04239000 ONONDAGA CREEK AT DORWIN AVENUE, SYRACUSE, NY

LOCATION.--Lat 42°59'00", long 76°09'04", Onondaga County, Hydrologic Unit 04140201, on left bank 550 ft upstream from bridge on Dorwin Avenue, at Syracuse, and 4.0 mi downstream from Onondaga Reservoir.

DRAINAGE AREA.--88.5 mi^2.

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

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 414.19 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. High flows regulated by Onondaga Reservoir (see station 04238500). Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	38	143	60	e160	167	139	498	95	55	45	24
2	14	38	168	e60	e150	156	142	407	88	43	40	22
3	14	46	136	e52	e130	147	134	304	83	72	36	22
4	16	58	151	e56	e115	e120	128	272	100	169	35	21
5	21	50	135	e60	e110	119	117	289	118	106	32	22
6	67	42	125	e60	e105	126	107	280	95	66	31	24
7	42	40	108	e58	e105	e100	117	258	104	56	29	23
8	32	47	90	e60	112	e100	138	216	151	50	88	38
9	26	50	e85	e60	227	e95	125	204	120	44	176	49
10	23	47	e80	e62	157	e100	118	225	102	42	90	42
11	20	76	e80	e60	168	e100	108	392	89	40	53	33
12	19	246	e75	e58	e130	e100	117	759	81	38	42	28
13	18	177	e75	e60	e110	e100	191	774	79	38	40	30
14	22	125	e80	e62	e110	e130	387	647	74	40	37	41
15	64	144	85	e64	e105	273	323	468	66	68	33	34
16	41	135	85	e70	e100	281	280	321	57	85	59	30
17	31	120	82	e90	e95	196	336	267	57	55	60	35
18	26	112	76	e370	e85	191	304	232	55	44	42	70
19	23	134	e75	1310	e80	220	248	285	79	77	34	46
20	22	150	e70	1040	124	266	218	228	80	111	31	34
21	239	167	e75	956	453	259	211	227	65	61	31	29
22	388	168	72	872	419	225	182	221	58	49	30	36
23	166	141	66	770	269	187	230	170	61	42	32	63
24	72	119	65	692	323	164	393	206	51	40	39	41
25	55	100	63	624	330	167	360	161	51	39	31	37
26	47	98	e62	434	232	264	300	136	47	38	28	35
27	40	100	e60	392	183	198	296	125	42	37	26	32
28	39	232	61	456	250	160	249	116	62	37	26	35
29	40	253	59	293	226	159	223	111	47	35	26	93
30	41	162	e60	248	---	152	345	105	59	35	25	59
31	39	---	60	188	---	141	---	101	---	37	25	---
TOTAL	1721	3415	2707	9697	5163	5163	6566	9005	2316	1749	1352	1128
MEAN	55.5	114	87.3	313	178	167	219	290	77.2	56.4	43.6	37.6
MAX	388	253	168	1310	453	281	393	774	151	169	176	93
MIN	14	38	59	52	80	95	107	101	42	35	25	21

e Estimated

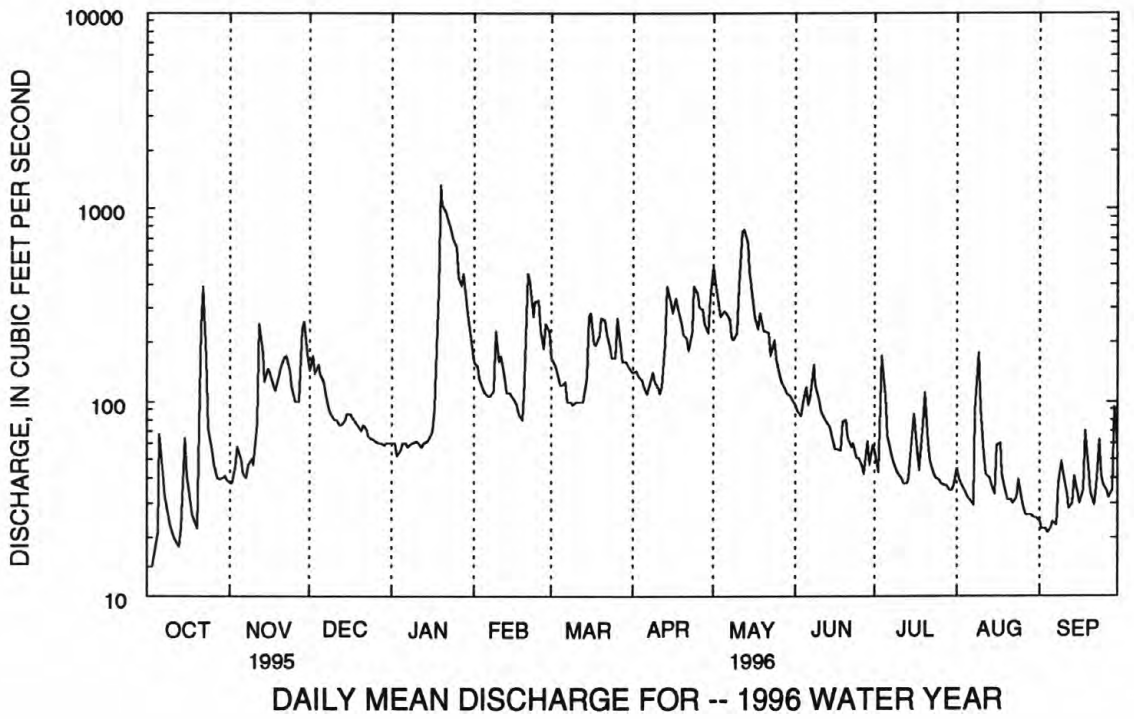
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1996, BY WATER YEAR (WY)

MEAN	65.5	105	140	135	164	261	267	141	93.0	58.6	41.5	44.6
MAX	328	312	365	313	390	535	758	301	563	166	125	216
(WY)	1978	1969	1973	1996	1990	1979	1993	1990	1972	1992	1992	1975
MIN	15.3	19.3	31.7	33.7	40.8	93.3	112	58.1	32.2	19.5	10.7	13.2
(WY)	1965	1965	1961	1961	1963	1983	1981	1995	1995	1962	1965	1964

04239000 ONONDAGA CREEK AT DORWIN AVENUE, SYRACUSE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1951 - 1996	
ANNUAL TOTAL	28366		49982			
ANNUAL MEAN	77.7		137		126	
HIGHEST ANNUAL MEAN					198	1978
LOWEST ANNUAL MEAN					58.8	1965
HIGHEST DAILY MEAN	521	Mar 8	1310	Jan 19	1710	Mar 31 1960
LOWEST DAILY MEAN	14	a	14	a	5.5	Aug 17 1965
ANNUAL SEVEN-DAY MINIMUM	15	Sep 28	23	Sep 1	7.4	Aug 11 1965
INSTANTANEOUS PEAK FLOW			2170	Jan 19	3260	Jul 3 1974
INSTANTANEOUS PEAK STAGE			5.59	Jan 19	6.48	Jul 3 1974
10 PERCENT EXCEEDS	160		286		257	
50 PERCENT EXCEEDS	60		85		80	
90 PERCENT EXCEEDS	18		31		25	

a Oct. 1, 2, 3.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04240010 ONONDAGA CREEK AT SPENCER STREET, SYRACUSE, NY

LOCATION.--Lat 43°03'27", long 76°09'46", Onondaga County, Hydrologic Unit 04140201, on right bank 250 ft upstream from bridge on Spencer Street in Syracuse, 1,000 ft upstream from Erie (Barge) Canal terminal, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--110 mi^2.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1958-70. September 1970 to current year.

REVISED RECORDS.--WRD NY 1972: 1971(M). WRD NY 1975: 1972(M), 1974(M). WDR NY-81-3: Drainage area. WRD NY-89-3: 1971-72(M), 1974-80(M), 1982-84(M), 1986(M), 1988(M).

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 362.29 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. High flows regulated by Onondaga Reservoir (see station 04238500). Flow may be affected by backwater from Onondaga Lake at times when the lake elevation exceeds 364.75 ft. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	60	195	100	201	216	185	558	138	89	62	42
2	28	61	218	101	196	207	186	469	132	75	57	41
3	28	120	185	84	167	199	177	366	125	114	53	40
4	32	87	197	91	153	161	171	336	159	204	51	39
5	89	78	183	e95	e145	170	161	345	152	136	48	72
6	105	67	171	e90	e145	175	152	336	127	98	46	41
7	70	69	155	87	149	154	163	313	148	87	44	40
8	52	78	138	90	168	148	181	270	169	80	112	72
9	43	81	133	89	271	147	168	257	144	74	179	68
10	40	79	116	90	212	149	161	306	130	71	107	63
11	38	146	115	88	218	145	153	485	119	68	70	51
12	36	301	108	89	189	147	159	892	109	66	60	50
13	35	226	107	90	148	152	242	869	111	63	56	65
14	93	173	108	e85	e150	178	434	e660	103	64	52	58
15	97	193	122	e85	e145	317	370	e500	96	136	64	53
16	64	183	131	84	e140	331	330	e420	92	107	76	48
17	51	166	128	123	136	247	384	e340	89	78	76	57
18	44	158	122	454	135	241	351	e290	86	68	63	87
19	41	180	113	e1500	126	271	296	e350	136	123	53	66
20	39	198	105	1140	174	315	265	e280	114	127	55	53
21	484	214	113	994	503	309	258	e280	99	83	50	46
22	411	216	114	903	469	276	233	e270	93	69	48	120
23	207	189	113	800	324	237	282	e220	97	63	50	82
24	107	166	111	771	371	214	454	e250	88	61	59	61
25	85	148	109	673	379	221	417	233	87	60	51	57
26	72	145	108	490	287	306	360	206	83	58	48	53
27	65	147	104	455	237	247	348	192	85	56	45	51
28	63	281	104	507	301	208	302	177	103	54	44	81
29	64	304	100	349	278	207	276	167	82	52	44	108
30	65	215	97	302	---	198	444	158	91	54	43	79
31	62	---	101	244	---	187	---	146	---	69	44	---
TOTAL	2738	4729	4024	11143	6517	6680	8063	10941	3387	2607	1910	1844
MEAN	88.3	158	130	359	225	215	269	353	113	84.1	61.6	61.5
MAX	484	304	218	1500	503	331	454	892	169	204	179	120
MIN	28	60	97	84	126	145	152	146	82	52	43	39

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1996, BY WATER YEAR (WY)

MEAN	118	161	201	185	212	326	362	207	146	104	79.6	88.9
MAX	424	324	452	381	457	653	935	379	617	237	171	275
(WY)	1978	1978	1973	1979	1976	1979	1993	1976	1972	1974	1992	1975
MIN	39.2	60.3	102	73.6	70.4	123	153	78.8	49.3	39.6	37.0	36.2
(WY)	1984	1972	1989	1981	1980	1983	1995	1995	1995	1995	1987	1995

04240010 ONONDAGA CREEK AT SPENCER STREET, SYRACUSE, NY--Continued

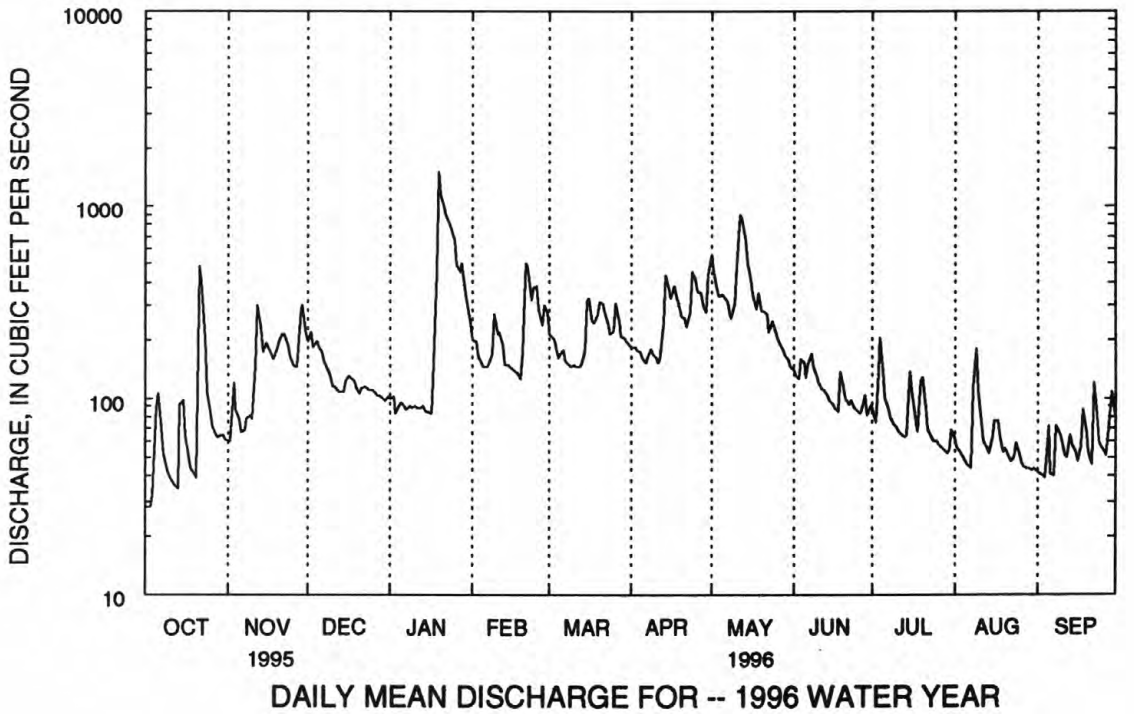
SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1970 - 1996	
ANNUAL TOTAL	38201		64583			
ANNUAL MEAN	105		176		182	
HIGHEST ANNUAL MEAN					273	1976
LOWEST ANNUAL MEAN					100	1995
HIGHEST DAILY MEAN	565	Mar 8	e1500	Jan 19	2040	Mar 5 1979
LOWEST DAILY MEAN	28	a	28	a	23	Sep 26 1985
ANNUAL SEVEN-DAY MINIMUM	29	Sep 27	42	Aug 29	27	Aug 26 1981
INSTANTANEOUS PEAK FLOW			2400	Jan 19	b4050	Jul 3 1974
INSTANTANEOUS PEAK STAGE			7.68	Jan 19	8.73	Jul 3 1974
INSTANTANEOUS LOW FLOW			27	c	20	Sep 26 1985
10 PERCENT EXCEEDS	196		348		360	
50 PERCENT EXCEEDS	88		126		127	
90 PERCENT EXCEEDS	33		51		51	

a Oct. 1, 2, 3.

b From rating curve extended above 1,600 ft^3/s on basis of runoff comparisons with nearby stations.

c Oct 2, 3, 4.

e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04240100 HARBOR BROOK AT SYRACUSE, NY

LOCATION.--Lat 43°02'09", long 76°10'55", Onondaga County, Hydrologic Unit 04140201, on left bank 160 ft upstream from bridge on Holden Street at Syracuse, 220 ft downstream from gated outlet of Velasko Road Detention Basin, and 2.6 mi upstream from mouth.

DRAINAGE AREA.--10.0 mi^2.

PERIOD OF RECORD.--June 1959 to current year.

REVISED RECORDS.--WSP 2112: Drainage area. WDR NY-82-3: 1981 (M), WDR-NY-88-3: 1986-87 (M).

GAGE.--Water-stage recorder. Datum of gage is 391.16 ft above sea level. Prior to Sept. 30, 1978, at site 1,660 ft upstream and Oct. 1, 1978 to May 31, 1980, at site 1,800 ft upstream at datum 3.63 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow includes some sewage and storm sewer inflow, some originating outside the basin. Flows can be regulated at detention basin by Onondaga County. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.0	e3.8	11	5.2	11	8.6	8.2	23	8.3	e4.0	e4.4	e3.3
2	e3.0	e4.5	13	5.2	11	8.4	8.0	15	7.9	e4.1	e3.8	e3.3
3	e3.2	e12	9.4	5.7	10	8.0	7.7	13	7.6	e5.4	e3.7	e3.3
4	3.9	e4.5	11	5.4	9.7	7.7	7.5	16	7.7	e7.2	e3.6	e3.3
5	8.3	e3.8	8.4	5.4	9.3	7.8	7.2	14	7.2	e4.3	e3.7	e15
6	10	e3.5	7.9	5.3	8.6	7.4	7.0	15	7.0	e4.0	e3.6	3.8
7	e4.5	e4.5	7.5	5.3	8.4	7.2	8.0	12	9.5	e3.9	e3.5	4.2
8	e3.0	e5.0	7.1	5.2	11	7.1	7.2	11	7.3	e3.9	e7.8	6.9
9	e3.0	e4.8	6.9	5.1	12	7.0	7.0	12	6.9	e3.9	e4.8	e3.0
10	e3.2	e5.2	6.6	5.2	8.9	6.9	6.8	21	7.2	e3.8	e3.4	e3.3
11	e3.0	e17	6.7	5.4	10	6.9	6.8	42	6.5	e3.7	e3.2	e2.8
12	e3.0	e26	6.5	5.2	8.3	6.9	6.9	92	6.2	e3.6	e3.2	e3.1
13	e3.2	e9.0	6.5	5.0	8.0	7.0	13	37	7.0	e3.6	e3.3	6.4
14	10	e8.5	6.7	5.2	7.8	7.9	17	25	5.9	e3.6	e3.0	e3.3
15	e8.5	e10	7.0	5.2	7.6	13	10	21	5.7	11	e4.7	e3.0
16	e4.0	e9.5	6.4	5.1	7.4	12	14	19	5.7	3.8	e3.9	e2.8
17	e3.8	e8.5	6.2	8.0	7.2	9.5	16	18	5.7	3.7	e3.3	e4.2
18	4.0	e8.0	6.1	77	7.1	11	12	17	5.5	3.8	e3.2	e3.6
19	3.9	e9.0	5.9	177	7.0	14	10	18	e10	6.8	e3.2	e3.4
20	3.9	e10	5.5	36	19	15	11	14	e5.0	e3.6	e4.0	e3.3
21	72	e11	5.4	21	37	14	10	18	e4.9	e3.5	e3.6	e3.3
22	e12	e10	5.3	18	15	11	10	13	e4.8	e3.5	e3.3	7.0
23	e5.5	e8.5	5.4	16	11	10	14	13	e4.7	e3.6	e3.5	e3.6
24	e4.5	e8.0	5.2	51	15	9.7	23	13	e4.7	e3.5	e3.5	e3.4
25	e4.0	e7.5	5.3	25	9.3	11	16	11	e4.8	e3.7	e3.1	e3.5
26	e3.6	e7.5	5.5	18	8.5	11	15	10	e4.5	e3.5	e3.2	e3.2
27	e3.6	e7.5	5.2	31	8.5	9.5	14	9.7	e5.6	e3.5	e3.4	e3.4
28	e4.0	e23	5.1	19	14	9.2	11	9.4	e6.7	e3.4	e3.4	8.3
29	e3.8	e13	5.0	14	9.1	8.8	13	9.0	e4.1	e3.5	e3.4	5.3
30	e4.2	e9.0	5.2	13	---	8.6	31	8.7	e4.4	e4.1	e3.3	4.3
31	e4.0	---	5.2	12	---	8.4	---	8.5	---	e6.1	e3.3	---
TOTAL	213.6	272.1	210.1	620.1	316.7	290.5	348.3	578.3	189.0	133.6	114.3	130.6
MEAN	6.89	9.07	6.78	20.0	10.9	9.37	11.6	18.7	6.30	4.31	3.69	4.35
MAX	72	26	13	177	37	15	31	92	10	11	7.8	15
MIN	3.0	3.5	5.0	5.0	7.0	6.9	6.8	8.5	4.1	3.4	3.0	2.8
CFSM	.69	.91	.68	2.00	1.09	.94	1.16	1.87	.63	.43	.37	.44
IN.	.79	1.01	.78	2.31	1.18	1.08	1.30	2.15	.70	.50	.43	.49

e Estimated

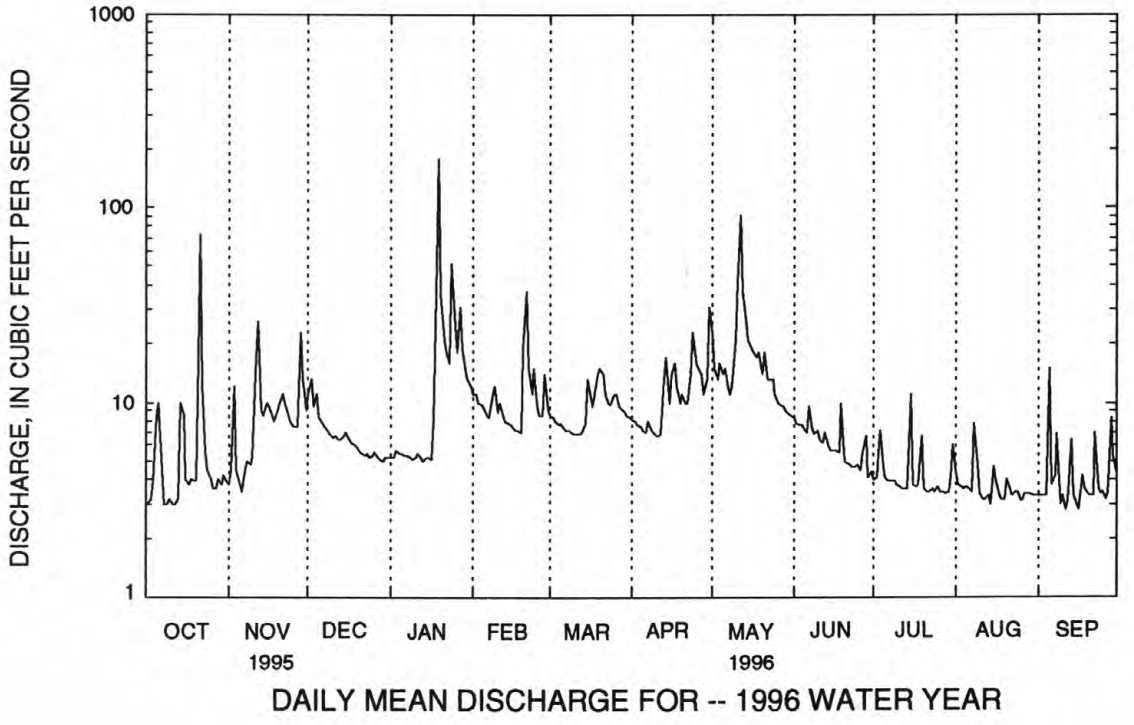
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1996, BY WATER YEAR (WY)

MEAN	5.79	6.70	8.19	8.27	10.3	17.2	17.8	9.88	7.14	5.88	4.75	4.99
MAX	21.7	21.6	26.0	20.0	33.5	39.6	59.4	22.6	32.2	13.5	11.4	20.7
(WY)	1978	1969	1978	1996	1976	1979	1993	1976	1972	1974	1990	1975
MIN	2.24	2.74	2.76	3.07	3.48	5.14	5.07	4.35	3.55	2.81	2.55	2.35
(WY)	1967	1967	1962	1961	1963	1983	1967	1995	1995	1965	1965	1959

04240100 HARBOR BROOK AT SYRACUSE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1959 - 1996	
ANNUAL TOTAL	2019.1		3417.2			
ANNUAL MEAN	5.53		9.34		8.91	
HIGHEST ANNUAL MEAN					15.7	1976
LOWEST ANNUAL MEAN					4.53	1967
HIGHEST DAILY MEAN	72	Oct 21	177	Jan 19	248	Mar 30 1960
LOWEST DAILY MEAN	2.2	a	e2.8	b	.51	Jun 15 1984
ANNUAL SEVEN-DAY MINIMUM	2.3	Aug 18	3.3	Oct 7	1.6	Nov 10 1988
INSTANTANEOUS PEAK FLOW			270	Jan 19	c726	Jul 3 1974
INSTANTANEOUS PEAK STAGE			5.63	Jan 19	d8.34	Jul 3 1974
INSTANTANEOUS LOW FLOW			f.29	Oct 3	f.11	Aug 8 1980
ANNUAL RUNOFF (CFSM)	.55		.93		.89	
ANNUAL RUNOFF (INCHES)	7.51		12.71		12.10	
10 PERCENT EXCEEDS	9.1		15		16	
50 PERCENT EXCEEDS	4.3		6.9		5.5	
90 PERCENT EXCEEDS	2.8		3.4		3.1	

a Aug. 13, 14, 20, 22, Sep. 3, 4, 5.
b Sep. 11, 16.
c From rating curve extended above 180 ft^3/s on basis of slope-area measurements of peak flow.
d Datum then in use.
e Estimated.
f Result of regulation.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04240105 HARBOR BROOK AT HIAWATHA BOULEVARD, SYRACUSE, NY

LOCATION.--Lat 43°03'22", long 76°11'07", Onondaga County, Hydrologic Unit 04140201, on left bank 250 ft downstream from culvert on Hiawatha Boulevard, in Syracuse, and 0.5 mi upstream from mouth.

DRAINAGE AREA.--11.3 mi^2.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1958-70. October 1970 to current year.

REVISED RECORDS.--WDR NY-76-1: 1971-75 (P).

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 365.86 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow includes some sewage and storm sewer inflow, some originating outside the basin. Flow can be regulated at Velasko Road Detention Basin 2.1 mi upstream. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	e4.2	11	e5.3	12	8.7	8.9	25	8.2	4.4	5.1	3.9
2	3.3	e5.0	12	e5.3	12	8.3	8.5	16	8.1	4.4	4.3	3.9
3	3.3	14	9.2	5.9	11	8.0	8.2	14	8.1	6.3	4.3	3.9
4	4.3	4.7	11	5.6	10	7.6	7.9	17	9.3	8.9	4.2	3.9
5	14	4.2	8.9	5.6	10	7.8	7.8	15	7.3	4.8	4.2	27
6	13	4.0	8.4	5.5	10	7.5	7.8	16	7.1	4.6	4.2	3.7
7	4.8	5.0	7.8	5.5	10	7.4	9.3	14	12	4.5	4.1	3.7
8	3.3	5.5	7.5	e5.4	14	7.3	8.0	12	7.6	4.5	10	9.4
9	3.3	5.3	7.2	e5.3	15	7.2	7.6	13	7.0	4.4	5.6	3.2
10	3.4	5.8	7.0	e5.4	11	7.0	7.5	24	7.7	4.4	3.8	3.7
11	3.3	19	6.9	e5.6	14	7.1	7.4	49	6.4	4.3	3.7	2.9
12	3.3	28	6.5	e5.4	12	7.1	7.6	101	6.2	4.2	3.7	3.4
13	3.4	9.5	6.3	e5.3	e10	7.3	16	43	7.8	4.2	3.7	7.0
14	15	9.1	6.6	e5.4	e9.5	8.5	21	27	6.0	4.2	3.5	3.7
15	9.7	11	7.3	e5.4	e9.0	14	12	23	5.7	21	5.8	3.5
16	4.0	9.9	6.6	e5.3	e8.6	13	16	21	5.6	4.4	4.6	3.3
17	4.0	8.6	6.3	10	e8.3	10	18	19	5.6	4.1	3.8	4.8
18	3.9	8.3	6.1	89	e8.0	12	14	20	5.5	4.2	3.7	3.9
19	3.9	10	e6.0	277	e7.7	15	12	18	13	16	3.7	3.5
20	4.0	11	e5.8	45	24	17	11	15	5.6	4.2	4.7	3.4
21	100	12	e5.6	24	44	15	11	20	5.7	4.0	4.2	3.4
22	13	11	e5.5	20	18	13	11	14	5.6	4.0	3.8	14
23	e5.8	9.2	e5.6	18	14	11	16	14	5.4	4.1	4.1	4.0
24	e4.8	8.2	e5.4	60	18	10	28	13	5.3	4.0	4.1	3.7
25	e4.2	7.6	e5.5	30	11	12	17	11	5.6	4.3	3.6	4.2
26	e4.0	7.5	e5.6	20	9.3	13	17	11	5.2	4.1	3.7	3.6
27	e4.0	7.6	e5.4	36	9.3	10	15	10	6.6	4.1	4.0	3.7
28	e4.2	25	e5.3	21	15	9.9	12	9.9	8.2	4.0	4.0	13
29	e4.2	14	e5.2	16	9.7	9.5	14	9.5	4.5	4.1	4.0	5.0
30	e4.5	9.3	e5.3	15	---	9.1	38	8.9	4.8	4.9	3.9	3.6
31	e4.4	---	e5.3	14	---	8.8	---	8.5	---	7.5	3.9	---
TOTAL	263.5	293.5	214.1	782.2	374.4	309.1	395.5	631.8	206.7	171.1	134.0	163.9
MEAN	8.50	9.78	6.91	25.2	12.9	9.97	13.2	20.4	6.89	5.52	4.32	5.46
MAX	100	28	12	277	44	17	38	101	13	21	10	27
MIN	3.2	4.0	5.2	5.3	7.7	7.0	7.4	8.5	4.5	4.0	3.5	2.9
CFSM	.75	.87	.61	2.23	1.14	.88	1.17	1.80	.61	.49	.38	.48
IN.	.87	.97	.70	2.58	1.23	1.02	1.30	2.08	.68	.56	.44	.54

e Estimated

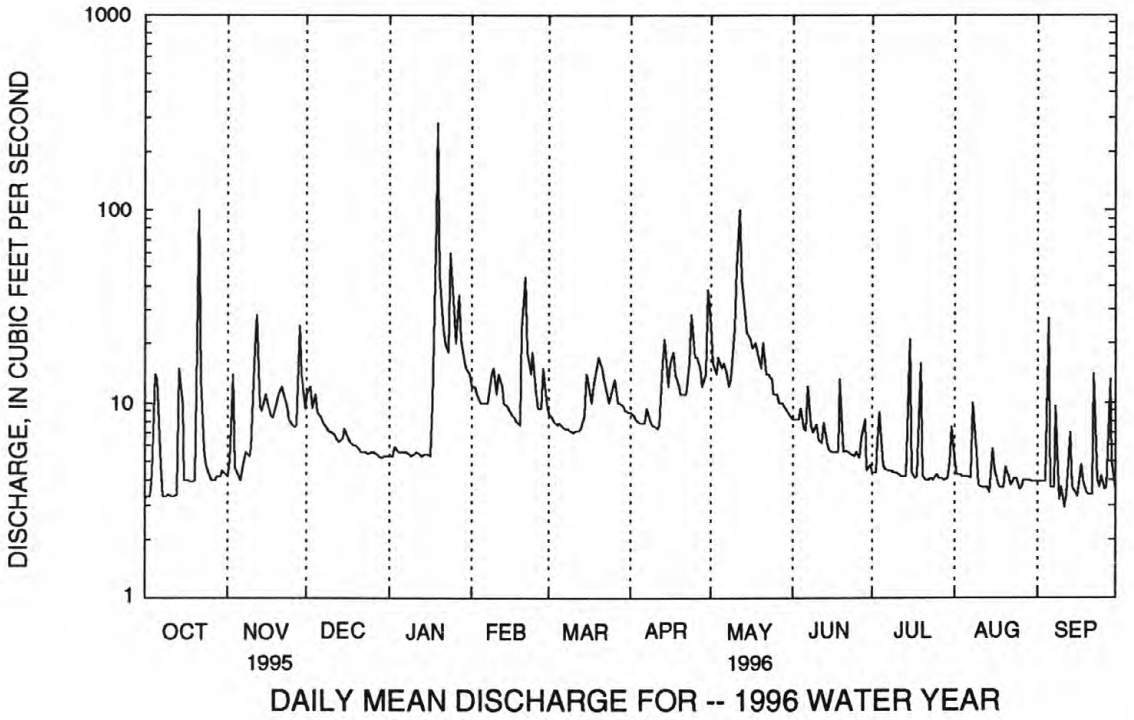
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, BY WATER YEAR (WY)

MEAN	8.99	9.39	11.9	11.7	13.2	22.8	23.9	13.5	10.8	9.47	7.10	8.16
MAX	34.0	26.6	35.8	31.0	38.4	68.8	68.8	27.9	51.9	25.4	12.0	28.7
(WY)	1978	1978	1978	1973	1976	1979	1993	1976	1972	1974	1972	1975
MIN	3.77	3.78	5.13	4.43	4.99	6.04	6.09	4.80	3.79	3.44	3.50	4.00
(WY)	1983	1979	1989	1983	1995	1983	1981	1981	1995	1995	1982	1995

04240105 HARBOR BROOK AT HIAWATHA BOULEVARD, SYRACUSE, NY--continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1971 - 1996	
ANNUAL TOTAL	2272.3		3939.8			
ANNUAL MEAN	6.23		10.8		12.6	
HIGHEST ANNUAL MEAN					21.3	1973
LOWEST ANNUAL MEAN					5.54	1995
HIGHEST DAILY MEAN	100	Oct 21	277	Jan 19	567	Mar 5 1979
LOWEST DAILY MEAN	2.4	a	2.9	Sep 11	1.3	Nov 4 1988
ANNUAL SEVEN-DAY MINIMUM	2.5	Aug 18	3.5	Oct 7	1.8	Nov 10 1988
INSTANTANEOUS PEAK FLOW			475	Jan 19	b824	Jul 3 1974
INSTANTANEOUS PEAK STAGE			6.17	Jan 19	c8.15	Sep 26 1975
INSTANTANEOUS LOW FLOW			.65	Oct 11	.00	d
ANNUAL RUNOFF (CFSM)	.55		.95		1.11	
ANNUAL RUNOFF (INCHES)	7.48		12.97		15.11	
10 PERCENT EXCEEDS	10		18		24	
50 PERCENT EXCEEDS	4.7		7.4		7.9	
90 PERCENT EXCEEDS	3.0		3.9		4.1	

a Aug. 13, 14, 20, 22, Sep. 4, 5.
b From rating curve extended above 76 ft^3/s on basis of step-backwater computations.
c Backwater from debris jam.
d Oct. 26, 27, 1987, result of regulation for maintenance work in the channel.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04240120 LEY CREEK AT PARK STREET, SYRACUSE, NY

LOCATION.--Lat 43°04'38", long 76°10'14", Onondaga County, Hydrologic Unit 04140201, on left bank 0.2 mi upstream from bridge on Park Street, and 0.4 mi upstream from mouth.

DRAINAGE AREA.--29.9 mi^2.

PERIOD OF RECORD.--Occasional discharge measurements water years 1959-72. December 1972 to current year.

REVISED RECORDS.--WDR NY 76-1: 1975 (M).

GAGE.--Water-stage recorder, crest-stage gage, and, since July 9, 1984, steel "I" beam control. Datum of gage is 362.76 ft above sea level. Prior to Oct. 1, 1978, at same site at datum 0.08 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow may be affected by backwater from Onondaga Lake at times when the lake elevation exceeds 364.5 ft. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	14	43	22	23	40	21	e170	16	15	33	6.1
2	5.6	25	46	22	20	34	25	e120	13	14	11	6.1
3	5.3	101	40	19	17	35	21	e130	13	60	9.0	6.0
4	17	42	42	24	16	37	20	e130	27	96	8.2	6.6
5	51	36	35	21	14	37	19	e110	21	39	8.1	26
6	117	26	36	19	14	31	17	e80	16	22	8.3	21
7	35	37	28	18	14	22	32	e55	40	17	8.4	8.5
8	14	115	24	19	23	21	35	43	43	15	42	48
9	10	83	22	19	44	19	29	42	32	14	39	22
10	8.7	74	20	20	28	20	25	103	42	13	12	16
11	8.2	156	18	20	28	21	22	227	23	12	8.8	12
12	7.7	265	18	20	25	25	25	e400	19	11	8.3	12
13	9.2	111	17	20	24	30	73	e280	17	11	8.3	45
14	84	94	18	22	22	49	160	e180	15	12	8.3	24
15	113	134	25	24	21	110	74	e120	14	84	8.7	14
16	24	113	26	22	19	97	109	e90	13	28	21	12
17	15	84	24	73	18	64	e120	e60	14	15	12	19
18	12	68	22	239	16	60	e80	e52	13	12	9.2	26
19	10	82	20	558	16	62	e58	e60	66	173	7.8	12
20	9.2	81	19	e450	57	60	50	e50	27	46	7.5	9.6
21	469	86	20	e300	127	72	40	e50	20	19	9.4	8.8
22	168	71	20	e200	95	58	39	e50	17	13	6.9	106
23	54	54	20	e160	72	46	90	e46	15	11	6.5	63
24	29	42	21	e230	93	39	139	e48	15	9.8	6.7	18
25	24	34	21	e170	78	39	98	e45	17	11	6.5	18
26	20	33	21	e85	56	53	e85	e40	15	9.5	6.3	12
27	19	37	21	136	41	32	e80	e38	15	8.7	6.5	12
28	17	57	20	98	84	26	e65	e35	55	8.6	6.9	57
29	18	43	20	52	56	25	65	e32	17	8.2	6.9	64
30	24	32	20	37	---	23	165	30	16	13	6.3	18
31	15	---	21	28	---	21	---	24	---	45	6.1	---
TOTAL	1418.3	2230	768	3147	1161	1308	1881	2940	686	865.8	353.9	728.7
MEAN	45.8	74.3	24.8	102	40.0	42.2	62.7	94.8	22.9	27.9	11.4	24.3
MAX	469	265	46	558	127	110	165	400	66	173	42	106
MIN	5.3	14	17	18	14	19	17	24	13	8.2	6.1	6.0
CFSM	1.53	2.49	.83	3.40	1.34	1.41	2.10	3.17	.76	.93	.38	.81
IN.	1.76	2.77	.96	3.92	1.44	1.63	2.34	3.66	.85	1.08	.44	.91

e Estimated

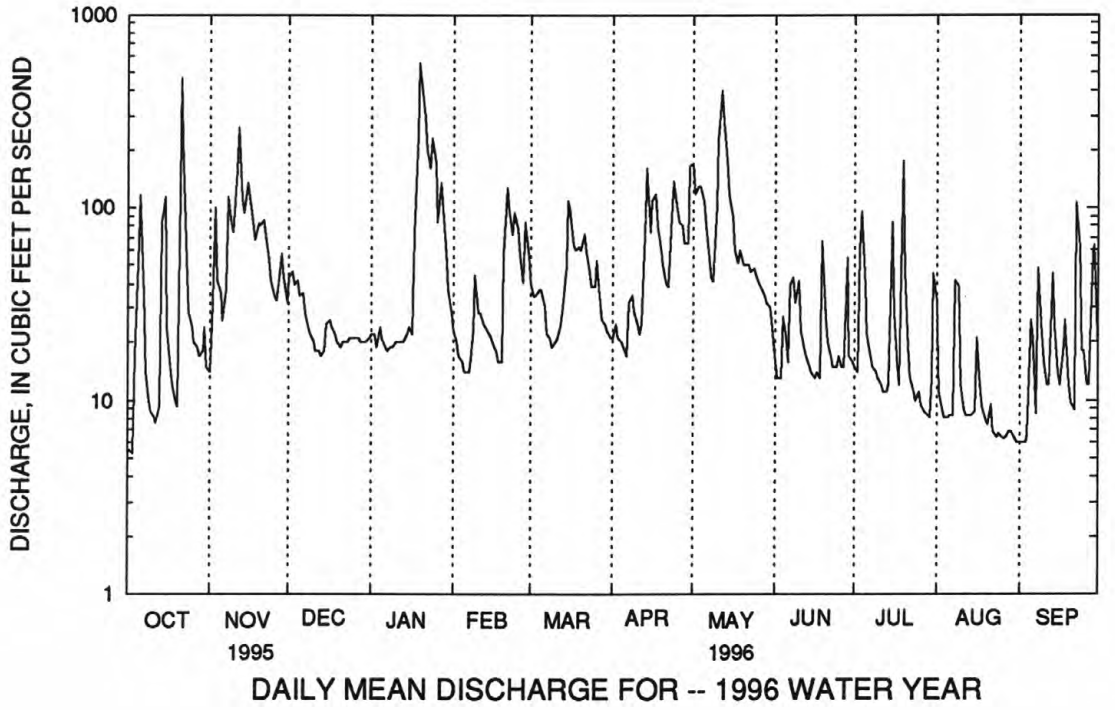
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1996, BY WATER YEAR (WY)

MEAN	37.8	49.2	54.6	40.9	50.2	74.1	76.6	41.3	30.8	28.1	23.5	31.0
MAX	129	102	145	102	125	154	334	94.8	71.4	61.6	46.7	99.1
(WY)	1978	1978	1978	1996	1976	1978	1993	1996	1973	1992	1976	1975
MIN	7.01	17.3	18.5	11.0	16.1	25.0	22.5	12.7	11.8	10.6	8.22	9.07
(WY)	1983	1979	1989	1977	1993	1981	1981	1987	1995	1995	1987	1994

04240120 LEY CREEK AT PARK STREET, SYRACUSE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1973 - 1996	
ANNUAL TOTAL	11116.6		17487.7			
ANNUAL MEAN	30.5		47.8		44.2	
HIGHEST ANNUAL MEAN					69.8	1978
LOWEST ANNUAL MEAN					24.8	1995
HIGHEST DAILY MEAN	469	Oct 21	558	Jan 19	831	Sep 26 1975
LOWEST DAILY MEAN	5.3	a	5.3	Oct 3	1.9	b
ANNUAL SEVEN-DAY MINIMUM	5.6	Jun 24	6.3	Aug 29	2.3	Feb 2 1977
INSTANTANEOUS PEAK FLOW			783	Oct 21	c1310	Sep 26 1975
INSTANTANEOUS PEAK STAGE			4.43	Oct 21	d7.02	Apr 26 1993
ANNUAL RUNOFF (CFSM)	1.02		1.60		1.48	
ANNUAL RUNOFF (INCHES)	13.83		21.76		20.08	
10 PERCENT EXCEEDS	71		109		98	
50 PERCENT EXCEEDS	18		24		25	
90 PERCENT EXCEEDS	6.5		8.9		10	

a July 30, Oct. 3.
b Feb. 6, 7, 1977, Aug. 19, 1987.
c From rating curve extended above 530 ft^3/s.
d Backwater from Onondaga Lake.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04240180 NINEMILE CREEK NEAR MARIETTA, NY

LOCATION.--Lat 42°55'15", long 76°19'47", Onondaga County, Hydrologic Unit 04140201, on right bank 25 ft upstream from bridge on Schuyler Road, 0.9 mi north of Marietta, and 1.8 mi downstream from Otisco Lake.

DRAINAGE AREA.--45.1 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1955, 1963. June 1964 to current year.

REVISED RECORDS.--WRD NY 1971: 1966(M), 1968, 1969. WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 748.25 ft above sea level.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated by Otisco Lake from which water is diverted by the Onondaga County Water Authority for water supply. Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e4.5	e11	14	10	179	48	41	176	29	11	8.1	e6.3
2	e4.5	e12	14	10	179	47	40	179	28	10	8.2	e6.3
3	e4.5	e15	13	11	182	47	40	211	22	11	8.0	e6.3
4	e5.0	e12	14	11	185	46	40	200	20	11	7.8	e6.5
5	7.9	e12	13	11	184	46	40	189	21	11	7.9	6.5
6	8.1	e11	13	11	141	46	37	181	20	10	7.9	10
7	7.3	e11	12	11	84	46	34	156	21	9.5	7.7	13
8	e6.0	e12	11	11	87	46	47	95	23	9.5	46	13
9	e5.5	e12	11	11	90	46	53	95	21	9.4	16	11
10	e5.0	e12	11	11	86	46	36	97	22	9.5	8.4	11
11	e4.8	e15	10	11	89	46	37	127	20	9.7	7.5	11
12	e4.5	23	10	11	86	46	37	205	19	9.5	7.1	10
13	e5.0	15	10	11	86	46	52	245	18	9.4	7.0	12
14	e8.0	15	11	11	85	49	73	250	17	9.2	6.8	11
15	8.1	17	12	11	85	55	79	244	15	12	8.0	e10
16	5.9	15	11	10	85	51	92	234	13	9.9	10	e9.5
17	5.7	15	11	19	84	49	130	210	12	9.6	7.8	e10
18	5.7	15	11	69	84	52	130	193	12	9.4	7.5	e14
19	5.8	17	11	208	83	54	119	184	16	11	7.3	e10
20	5.7	17	11	48	95	55	113	170	15	10	7.1	e9.5
21	47	18	11	29	95	51	106	164	12	9.4	7.3	e9.0
22	20	16	11	45	53	48	101	101	13	e9.0	7.1	e9.0
23	13	15	11	85	52	47	104	47	12	e9.0	7.3	e9.5
24	12	14	11	126	59	46	134	51	12	e9.0	7.1	e9.0
25	12	13	10	149	52	49	147	50	12	e9.0	7.0	e9.0
26	e11	14	10	191	50	48	157	48	11	e9.0	6.7	e9.0
27	e11	14	11	200	49	42	155	45	11	e9.0	6.5	e8.5
28	e11	23	10	194	55	41	145	43	11	e9.0	6.5	e9.5
29	e11	16	10	186	49	42	139	36	11	8.8	e6.5	e16
30	e11	13	10	180	---	42	159	32	14	8.4	e6.3	e9.5
31	e11	---	10	179	---	42	---	30	---	7.9	e6.3	---
TOTAL	287.5	440	349	2081	2773	1465	2617	4288	503	299.1	276.7	294.9
MEAN	9.27	14.7	11.3	67.1	95.6	47.3	87.2	138	16.8	9.65	8.93	9.83
MAX	47	23	14	208	185	55	159	250	29	12	46	16
MIN	4.5	11	10	10	49	41	34	30	11	7.9	6.3	6.3

e Estimated

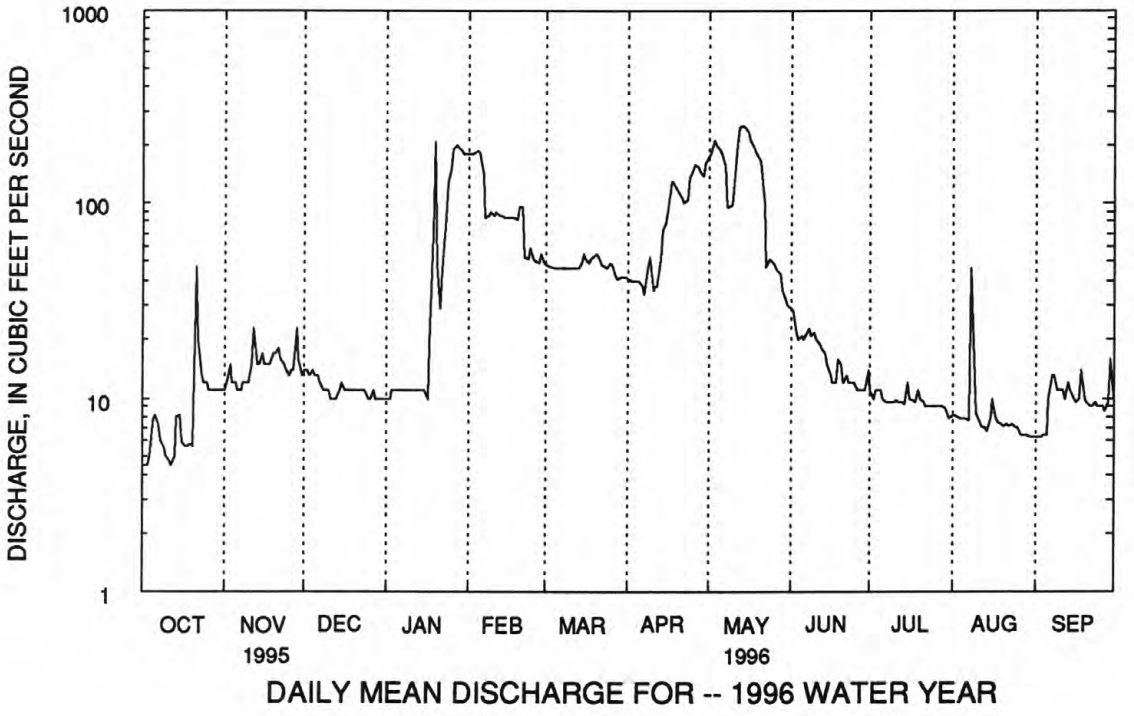
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1996, BY WATER YEAR (WY)

MEAN	23.2	31.2	42.9	50.3	53.9	60.0	100	50.0	29.3	17.2	11.6	11.9
MAX	147	125	160	157	143	159	352	138	278	74.0	76.2	36.2
(WY)	1978	1978	1973	1973	1990	1976	1993	1996	1972	1972	1992	1989
MIN	1.52	2.47	3.42	2.75	3.10	5.23	5.80	3.24	2.17	1.65	1.28	1.16
(WY)	1967	1967	1966	1981	1967	1965	1965	1965	1965	1981	1966	1966

04240180 NINEMILE CREEK NEAR MARIETTA, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1964 - 1996	
ANNUAL TOTAL	6134.5		15674.2			
ANNUAL MEAN	16.8		42.8		40.1	
HIGHEST ANNUAL MEAN					76.3	1976
LOWEST ANNUAL MEAN					3.95	1965
HIGHEST DAILY MEAN	56	Jan 12	250	May 14	931	Jun 23 1972
LOWEST DAILY MEAN	4.5	a	e4.5	b	.80	Sep 13 1966
ANNUAL SEVEN-DAY MINIMUM	4.6	Sep 25	5.4	Oct 7	.89	Sep 13 1966
INSTANTANEOUS PEAK FLOW			353	Jan 19	1030	Jun 23 1972
INSTANTANEOUS PEAK STAGE			5.42	Jan 19	8.65	Jun 23 1972
10 PERCENT EXCEEDS	43		140		104	
50 PERCENT EXCEEDS	13		13		15	
90 PERCENT EXCEEDS	4.9		7.3		3.3	

a Sep. 25, 26, Oct. 1, 2, 3, 12.
b Oct. 1, 2, 3, 12.
e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04240200 NINEMILE CREEK AT CAMILLUS, NY

LOCATION.--Lat 43°02'20", long 76°18'30", Onondaga County, Hydrologic Unit 04140201, on right bank 150 ft downstream from highway bridge on State Highway 5 (Main Street) in Camillus, 7.2 mi upstream from Onondaga Lake.

DRAINAGE AREA.--84.3 mi^2.

PERIOD OF RECORD.--July 1958 to September 1982, June 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is 398.56 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by Otisco Lake from which water is diverted by the Onondaga County Water Authority for water supply. Telephone gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	54	89	57	252	131	117	379	88	55	45	30
2	24	55	107	56	249	127	118	280	86	52	42	30
3	24	78	87	53	244	125	115	299	83	56	41	30
4	26	77	94	57	245	118	113	302	80	57	41	30
5	31	63	86	56	242	119	110	296	81	54	41	32
6	73	59	81	54	235	118	108	282	79	50	41	32
7	45	60	74	53	154	117	106	264	84	49	41	37
8	34	64	68	53	163	116	110	199	89	48	181	44
9	28	63	67	53	206	115	130	189	84	47	137	43
10	26	62	62	53	183	114	110	211	87	47	57	38
11	25	92	60	53	193	114	107	327	82	46	42	37
12	23	221	58	52	180	114	110	643	77	46	37	37
13	22	118	58	53	163	117	154	573	76	45	34	39
14	30	98	59	54	165	126	274	457	74	44	33	40
15	77	110	66	56	157	183	202	383	71	58	35	38
16	41	105	68	54	150	184	206	365	69	51	42	37
17	30	98	66	70	150	147	258	323	67	45	34	39
18	27	95	64	269	147	160	246	298	65	44	32	50
19	27	106	61	1690	145	197	222	288	74	52	31	39
20	24	117	59	614	188	217	211	266	70	44	31	37
21	340	125	61	192	399	195	205	271	68	e42	32	36
22	392	121	60	157	214	184	192	240	64	e41	31	36
23	96	104	60	188	178	152	212	165	64	e40	33	37
24	69	93	59	310	216	138	284	144	60	e40	33	36
25	62	85	59	366	188	146	257	126	60	e40	31	36
26	58	82	59	300	154	191	259	117	58	40	31	36
27	55	84	58	352	137	142	259	110	56	40	31	34
28	53	209	58	353	183	126	237	105	56	41	31	38
29	54	152	58	286	156	125	232	101	54	40	31	58
30	56	93	56	271	---	122	287	95	65	42	30	39
31	55	---	57	258	---	119	---	90	---	49	30	---
TOTAL	1952	2943	2079	6543	5636	4399	5551	8188	2171	1445	1362	1125
MEAN	63.0	98.1	67.1	211	194	142	185	264	72.4	46.6	43.9	37.5
MAX	392	221	107	1690	399	217	287	643	89	58	181	58
MIN	22	54	56	52	137	114	106	90	54	40	30	30

e Estimated

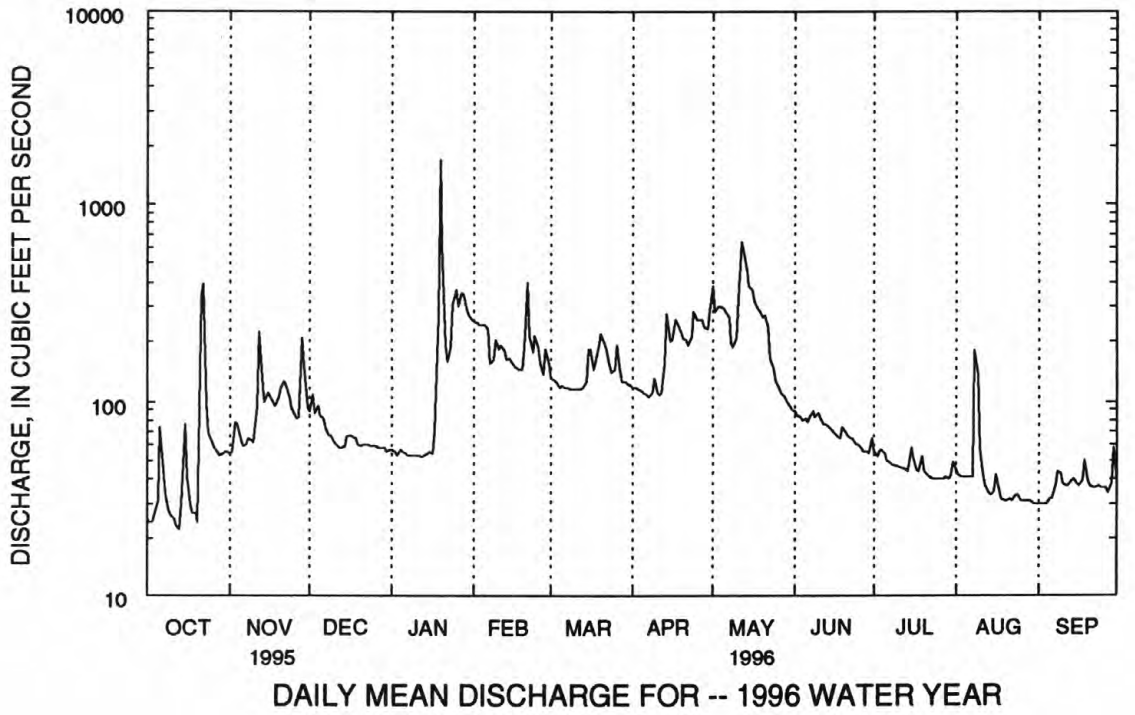
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1996, BY WATER YEAR (WY)

MEAN	65.9	96.7	116	128	142	201	243	132	92.0	66.2	48.7	48.7
MAX	263	259	320	331	361	398	655	273	503	190	162	136
(WY)	1978	1978	1973	1973	1990	1979	1993	1976	1972	1972	1992	1975
MIN	20.0	22.2	25.0	23.8	28.3	63.3	82.4	51.0	36.6	30.5	24.3	21.0
(WY)	1967	1965	1963	1963	1963	1965	1965	1965	1962	1981	1966	1962

04240200 NINEMILE CREEK AT CAMILLUS, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1958 - 1982 1989 - 1996	
ANNUAL TOTAL	24905		43394			
ANNUAL MEAN	68.2		119		115	
HIGHEST ANNUAL MEAN					182	1976
LOWEST ANNUAL MEAN					41.9	1965
HIGHEST DAILY MEAN	392	Oct 22	1690	Jan 19	1690	Jan 19 1996
LOWEST DAILY MEAN	22	Oct 13	22	Oct 13	16	Oct 1 1961
ANNUAL SEVEN-DAY MINIMUM	25	Sep 28	27	Oct 8	17	Oct 15 1988
INSTANTANEOUS PEAK FLOW			2530	Jan 19	2760	Mar 30 1960
INSTANTANEOUS PEAK STAGE			8.92	Jan 19	a10.83	Sep 26 1975
INSTANTANEOUS LOW FLOW			21	b	16	c
10 PERCENT EXCEEDS	106		258		240	
50 PERCENT EXCEEDS	61		74		72	
90 PERCENT EXCEEDS	29		34		30	

a Backwater from construction activities.
b Oct. 13, 14.
c Sep. 30, Oct. 1, 2, 1961.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04240300 NINEMILE CREEK AT LAKELAND, NY

LOCATION.--Lat 43°04'51", long 76°13'36", Onondaga County, Hydrologic Unit 04140201, on left bank 30 ft downstream from bridge on State Highway 48, 0.6 mi downstream from Geddes Brook, and 0.7 mi upstream from mouth.

DRAINAGE AREA.--115 mi^2.

PERIOD OF RECORD.--Occasional measurements, water years 1959-70. November 1970 to September 1973, July 1975 to current year.

REVISED RECORDS.--WDR NY-83-3: 1972 (M), 1976 (M), 1979 (M), 1982 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 360.67 ft above sea level.

REMARKS.--Records poor. Flow regulated by Otisco Lake from which water is diverted by Onondaga County Water Authority for water supply. Flow affected by backwater from Onondaga Lake whenever lake level exceeds about 362 ft msl. High lake levels affected the entire 1996 water year. Estimated water-discharge data is based on records for Ninemile Creek at Camillus (04240200) and Onondaga Lake at Liverpool (04240495). Several measurements of water temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e30	e74	e150	e82	e360	e190	e170	e470	e120	e78	e64	e50
2	e28	e74	e170	e80	e350	e185	e170	e400	e120	e76	e60	e50
3	e28	e95	e135	e76	e340	e180	e165	e420	e120	e79	e59	e50
4	e32	e100	e140	e82	e340	e170	e165	e430	e115	e80	e58	e52
5	e36	e85	e130	e79	e330	e170	e160	e430	e115	e76	e58	e52
6	e90	e80	e120	e77	e330	e170	e155	e410	e115	e72	e58	e52
7	e55	e82	e110	e75	e250	e165	e155	e380	e120	e70	e58	e55
8	e40	e88	e95	e75	e230	e165	e160	e340	e125	e68	e130	e60
9	e35	e86	e90	e74	e260	e165	e175	e300	e120	e67	e200	e64
10	e32	e86	e88	e73	e250	e165	e160	e320	e125	e67	e90	e54
11	e32	e110	e84	e73	e260	e160	e160	e440	e120	e65	e65	e50
12	e31	e270	e80	e74	e250	e160	e160	e750	e110	e65	e55	e50
13	e30	e190	e80	e75	e230	e165	e210	e740	e110	e63	e50	e54
14	e35	e170	e88	e76	e230	e180	e340	e620	e105	e63	e50	e56
15	e95	e180	e96	e79	e230	e230	e300	e580	e100	e80	e54	e54
16	e50	e170	e98	e78	e220	e250	e310	e570	e100	e71	e62	e54
17	e38	e160	e90	e95	e220	e210	e350	e500	e97	e66	e55	e55
18	e34	e160	e88	e220	e210	e220	e340	e460	e94	e63	e55	e68
19	e34	e170	e86	e1300	e210	e250	e320	e430	e105	e72	e52	e55
20	e30	e180	e84	e1100	e240	e270	e280	e380	e100	e66	e52	e54
21	e350	e195	e84	e350	e480	e260	e280	e350	e98	e60	e54	e51
22	e500	e190	e84	e300	e350	e250	e270	e310	e92	e58	e51	e51
23	e150	e180	e84	e300	e310	e230	e290	e250	e92	e56	e54	e52
24	e95	e150	e82	e370	e340	e210	e360	e230	e86	e56	e53	e51
25	e85	e130	e82	e450	e290	e220	e350	e190	e86	e56	e52	e51
26	e80	e130	e82	e420	e250	e240	e360	e170	e83	e56	e51	e51
27	e75	e130	e80	e430	e230	e200	e370	e160	e80	e56	e51	e50
28	e75	e250	e80	e460	e260	e180	e340	e150	e82	e57	e51	e53
29	e75	e230	e80	e420	e220	e180	e330	e140	e80	e56	e51	e76
30	e76	e170	e78	e410	---	e175	e380	e135	e90	e59	e50	e55
31	e76	---	e80	386	---	e170	---	e130	---	e68	e50	---
TOTAL	2452	4365	2998	8239	8070	6135	7735	11585	3105	2045	1953	1630
MEAN	79.1	145	96.7	266	278	198	258	374	103	66.0	63.0	54.3
MAX	500	270	170	1300	480	270	380	750	125	80	200	76
MIN	28	74	78	73	210	160	155	130	80	56	50	50

e Estimated

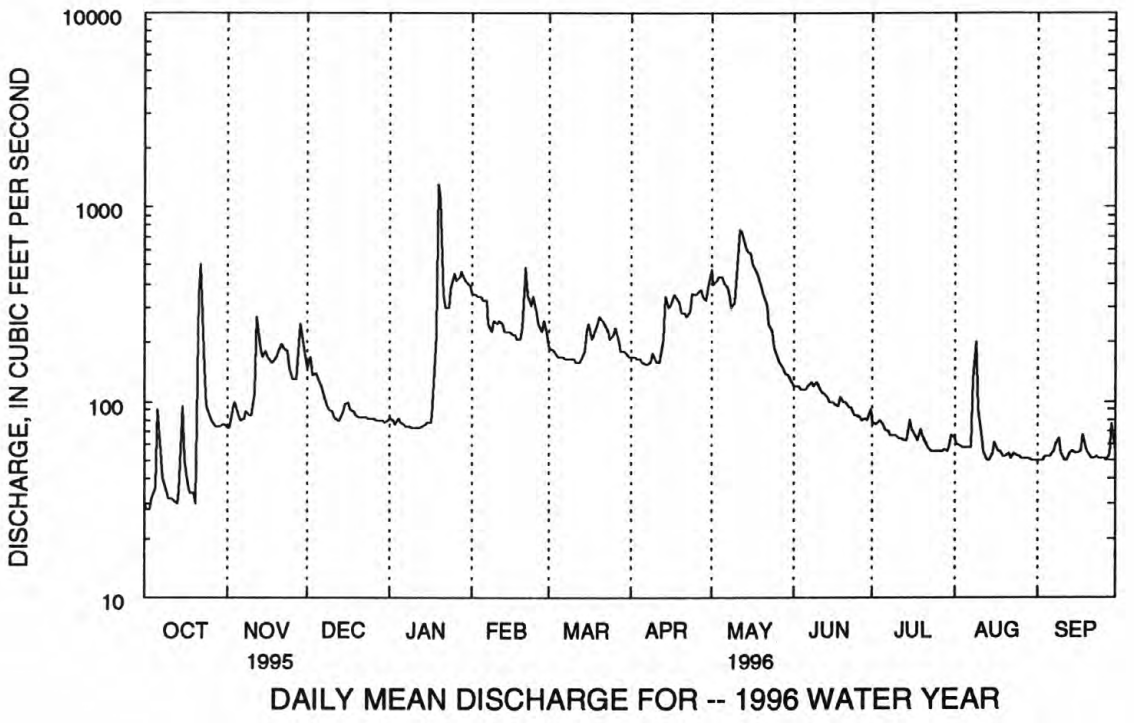
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, BY WATER YEAR (WY)

MEAN	138	177	220	208	230	318	353	215	152	107	93.1	98.1
MAX	529	439	623	492	549	669	807	385	676	289	216	308
(WY)	1978	1978	1973	1973	1990	1979	1993	1983	1972	1972	1992	1975
MIN	43.6	56.0	96.7	81.8	86.0	112	100	69.1	52.6	44.2	28.6	33.0
(WY)	1986	1992	1996	1984	1989	1983	1995	1995	1981	1981	1985	1985

04240300 NINEMILE CREEK AT LAKELAND, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1971 - 1996	
ANNUAL TOTAL	33285		60312			
ANNUAL MEAN	91.2		165		188	
HIGHEST ANNUAL MEAN					310	1973
LOWEST ANNUAL MEAN					91.2	1995
HIGHEST DAILY MEAN	e500	Oct 22	e1300	Jan 19	2960	Mar 5 1979
LOWEST DAILY MEAN	e28	a	e28	a	e13	Aug 18 1985
ANNUAL SEVEN-DAY MINIMUM	30	Sep 28	34	Oct 8	16	Sep 20 1985
INSTANTANEOUS PEAK STAGE			b8.46	Jan 20	b9.63	Apr 27 1993
10 PERCENT EXCEEDS	160		350		380	
50 PERCENT EXCEEDS	80		100		139	
90 PERCENT EXCEEDS	36		51		55	

a Oct. 2, 3.
b Backwater from Onondaga Lake.
e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04240495 ONONDAGA LAKE AT LIVERPOOL, NY

LOCATION.--Lat 43°06'01", long 76°12'34", Onondaga County, Hydrologic Unit 04140201, on north shore of Onondaga Lake at Onondaga Park Marina basin, 200 ft southwest of Onondaga Lake Parkway, and 1.9 mi upstream from outlet of lake.

DRAINAGE AREA.--285 mi^2.

PERIOD OF RECORD.--October 1970 to current year. Elevation records, at Barge Canal datum, since February 1927 collected by, and in files of, New York State Department of Transportation at Syracuse.

GAGE.--Water-stage recorder. Datum of gage is sea level. To convert elevations to adjustment of 1988, subtract 0.59 ft.

REMARKS.--Lake elevation regulated by operation of Erie (Barge) Canal. Area of water surface, 4.60 mi^2.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 369.78 ft, Apr. 26, 27, 1993; minimum, 361.54 ft, Mar. 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 366.54 ft, May 16; minimum, 362.51 ft, Aug. 23.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	362.68	363.17	363.87	363.06	363.59	364.23	363.29	364.75	363.72	363.25	362.86	362.86
2	362.67	363.22	363.98	363.21	363.38	364.14	363.43	364.94	363.45	363.32	362.85	362.85
3	362.64	363.31	364.00	363.23	363.14	364.15	363.46	365.06	363.35	363.43	362.84	362.68
4	362.64	363.32	363.96	363.18	362.91	364.07	363.36	365.08	363.69	363.45	362.84	362.82
5	362.64	363.23	363.99	363.19	362.77	363.94	363.28	364.97	363.67	363.32	362.83	362.88
6	363.05	363.18	363.98	363.15	362.98	363.84	363.31	364.74	363.59	363.24	362.84	362.77
7	363.10	363.20	363.90	363.13	363.63	363.91	363.32	364.54	363.63	363.26	362.91	362.94
8	363.10	363.28	363.81	363.12	363.99	363.90	363.29	364.33	363.78	363.14	363.02	362.86
9	363.10	363.38	363.83	363.16	364.02	363.71	363.30	364.11	363.72	363.18	363.30	362.70
10	363.02	363.45	363.85	363.14	363.91	363.69	363.25	363.83	363.82	363.25	363.21	362.66
11	363.08	363.55	363.71	363.11	363.79	363.74	363.20	363.93	363.76	363.14	363.17	362.90
12	363.08	363.93	363.74	363.13	363.89	363.75	363.15	364.80	363.68	363.11	363.15	362.77
13	363.11	363.89	363.75	363.13	364.07	363.70	363.25	365.64	363.49	363.12	363.25	362.74
14	363.18	363.81	363.82	363.13	364.02	363.40	363.67	366.12	363.44	363.11	363.28	363.13
15	363.22	363.87	363.83	363.12	364.03	363.38	364.11	366.42	363.40	363.17	363.21	363.12
16	363.20	363.95	363.83	363.11	363.99	363.54	364.34	366.52	363.31	363.15	363.23	363.11
17	363.27	363.93	363.70	363.15	363.92	363.76	364.52	366.45	363.25	363.20	363.24	363.29
18	363.23	363.87	363.61	363.30	363.87	363.83	364.57	366.26	363.08	363.09	363.23	363.23
19	363.26	363.87	363.61	364.73	363.81	363.87	364.49	366.09	363.04	363.27	363.24	363.07
20	363.09	363.91	363.52	365.94	363.85	363.90	364.18	365.86	363.13	363.24	363.06	363.17
21	363.52	363.91	363.46	365.67	364.16	363.95	363.99	365.70	363.32	363.22	363.07	363.26
22	363.92	363.90	363.44	365.42	364.45	364.00	363.86	365.54	363.28	363.17	362.74	363.16
23	363.80	363.86	363.43	365.21	364.44	364.06	363.93	365.34	363.29	363.13	362.57	363.18
24	363.71	363.76	363.45	365.08	364.42	363.97	364.22	365.22	363.40	363.18	362.76	363.19
25	363.72	363.74	363.34	365.05	364.48	363.88	364.41	365.05	363.47	363.17	362.87	363.18
26	363.69	363.75	363.35	364.64	364.40	363.78	364.56	364.86	363.39	363.16	362.69	363.26
27	363.77	363.76	363.18	364.37	364.27	363.67	364.64	364.67	363.29	363.02	362.65	363.18
28	363.78	363.81	363.13	364.38	364.30	363.47	364.55	364.48	363.31	363.12	362.88	363.24
29	363.80	363.92	363.11	364.10	364.35	363.45	364.40	364.26	363.22	363.10	362.96	363.31
30	363.75	363.78	363.17	363.93	---	363.42	364.41	364.17	363.18	363.03	362.71	363.27
31	363.48	---	363.15	363.75	---	363.34	---	364.04	---	362.95	362.74	---
MEAN	363.27	363.65	363.63	363.84	363.89	363.79	363.86	365.09	363.44	363.18	362.97	363.03
MAX	363.92	363.95	364.00	365.94	364.48	364.23	364.64	366.52	363.82	363.45	363.30	363.31
MIN	362.64	363.17	363.11	363.06	362.77	363.34	363.15	363.83	363.04	362.95	362.57	362.66

CAL YR 1995 MEAN 363.16 MAX 364.46 MIN 362.48
WTR YR 1996 MEAN 363.64 MAX 366.52 MIN 362.57

STREAMS TRIBUTARY TO LAKE ONTARIO

04243500 ONEIDA CREEK AT ONEIDA, NY

LOCATION.--Lat 43°05'51", long 75°38'22", Oneida County, Hydrologic Unit 04140202, on right bank 70 ft upstream from bridge on Sconondoa Street at Oneida, and 500 ft downstream from Sconondoa Creek.

DRAINAGE AREA.--113 mi^2.

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

REVISED RECORDS.--WSP 2112: Drainage area. WDR NY-78-1: 1951, 1956, 1958, 1961, 1963, 1964, 1972, 1976 (P). WDR NY-83-3: 1950 (M), 1977 (M), 1979 (M).

GAGE.--Water-stage recorder. Datum of gage is 409.33 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Occasional regulation by small mills upstream from station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 19	2200	*8,110	*14.51	May 12	1030	8.56	2,110

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	46	168	e50	e190	e220	152	830	94	70	79	26
2	16	46	261	e50	e170	e180	159	456	86	54	54	25
3	16	53	170	e48	e160	e160	147	339	83	93	65	25
4	21	56	234	e46	e140	e140	135	374	89	499	48	25
5	20	56	185	e44	e130	e125	126	418	96	441	42	27
6	55	57	155	e44	e115	e120	116	355	84	181	38	28
7	34	62	e120	e42	e105	e120	121	297	123	126	34	26
8	27	84	e105	e42	e100	e110	144	223	147	100	89	28
9	23	92	e105	e40	e330	e110	143	217	114	84	129	36
10	21	82	e100	e40	e240	e110	143	266	119	74	83	46
11	21	161	e98	e40	e260	e110	129	780	114	67	56	35
12	20	739	e95	e38	e220	e110	135	1880	98	59	47	30
13	20	313	e90	e36	e160	e120	229	1110	130	72	44	29
14	30	195	e87	e34	e140	e160	665	717	189	93	40	30
15	136	311	e85	e32	e120	531	364	518	96	115	37	30
16	46	273	e80	e34	e95	523	763	405	75	114	53	30
17	33	196	e80	e60	e90	303	746	352	69	75	44	34
18	28	167	e77	e200	e85	299	492	436	64	63	38	69
19	25	181	e75	4220	e80	345	356	516	101	92	34	38
20	24	203	e70	2480	e90	412	293	325	104	128	32	30
21	307	235	e68	e850	e650	373	253	324	93	77	31	28
22	249	246	e65	e520	e460	310	213	271	80	63	30	44
23	100	183	e63	e410	e360	235	531	205	72	55	31	119
24	71	154	e60	e800	e580	202	776	226	65	51	36	52
25	59	124	e58	e720	e470	203	565	178	68	48	30	44
26	52	122	e58	e440	e330	311	430	158	61	49	32	38
27	48	129	e56	e740	e240	218	447	146	58	46	34	34
28	46	440	e54	e490	e350	178	309	133	115	44	31	47
29	45	321	e54	e410	e270	173	320	125	69	40	29	140
30	48	183	e52	e320	---	161	650	113	67	41	28	66
31	46	---	e52	e220	---	152	---	103	---	49	27	---
TOTAL	1704	5510	3080	13540	6730	6824	10052	12796	2823	3163	1425	1259
MEAN	55.0	184	99.4	437	232	220	335	413	94.1	102	46.0	42.0
MAX	307	739	261	4220	650	531	776	1880	189	499	129	140
MIN	16	46	52	32	80	110	116	103	58	40	27	25
CFSM	.49	1.63	.88	3.87	2.05	1.95	2.97	3.65	.83	.90	.41	.37
IN.	.56	1.81	1.01	4.46	2.22	2.25	3.31	4.21	.93	1.04	.47	.41

e Estimated

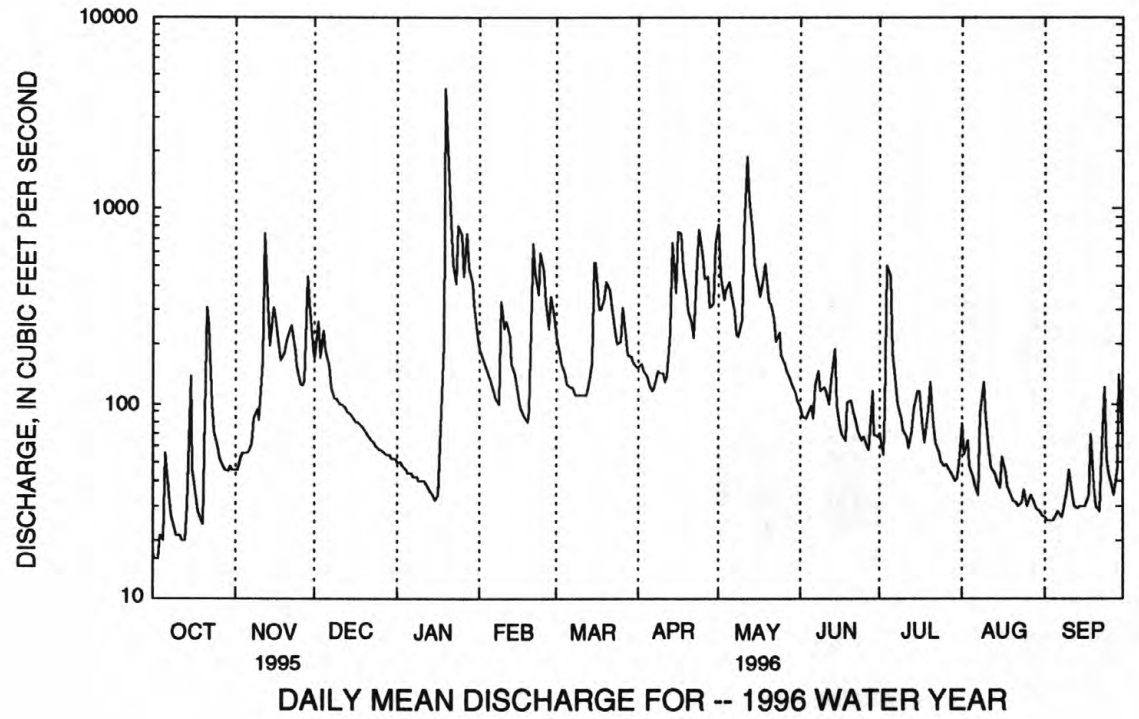
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1996, BY WATER YEAR (WY)

MEAN	89.2	153	191	191	216	368	346	165	101	66.3	53.5	61.8
MAX	472	382	481	443	589	781	915	413	539	225	253	297
(WY)	1978	1973	1974	1979	1976	1977	1993	1996	1972	1951	1976	1977
MIN	21.5	30.5	39.6	38.9	50.5	131	109	61.0	32.6	23.2	18.8	18.0
(WY)	1964	1965	1961	1981	1980	1981	1981	1995	1995	1962	1995	1964

04243500 ONEIDA CREEK AT ONEIDA, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1950 - 1996	
ANNUAL TOTAL	35427		68906			
ANNUAL MEAN	97.1		188		166	
HIGHEST ANNUAL MEAN					284	1976
LOWEST ANNUAL MEAN					89.7	1988
HIGHEST DAILY MEAN	1080	Mar 8	4220	Jan 19	5210	Mar 5 1979
LOWEST DAILY MEAN	14	a	16	b	13	Oct 28 1964
ANNUAL SEVEN-DAY MINIMUM	14	Aug 20	23	Oct 8	14	Aug 20 1995
INSTANTANEOUS PEAK FLOW			8110	Jan 19	9110	Oct 9 1976
INSTANTANEOUS PEAK STAGE			14.51	Jan 19	15.01	Oct 9 1976
INSTANTANEOUS LOW FLOW			13	Oct 5	12	c
ANNUAL RUNOFF (CFSM)	.86		1.67		1.47	
ANNUAL RUNOFF (INCHES)	11.66		22.68		20.01	
10 PERCENT EXCEEDS	198		437		358	
50 PERCENT EXCEEDS	65		100		95	
90 PERCENT EXCEEDS	18		31		30	

a Aug. 21-26, Aug. 29, 30, Sep. 8.
b Oct. 2, 3.
c Aug. 5, 6, 1962, Oct. 28, 1964.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04245200 BUTTERNUT CREEK NEAR JAMESVILLE, NY

LOCATION.--Lat 42°56'02", long 76°03'44", Onondaga County, Hydrologic Unit 04140202, on left bank 15 ft downstream from bridge on Walberger Road, 125 ft downstream from tributary from Stebbins Gulf, 2.2 mi upstream from Jamesville Reservoir, and 4.0 mi south of Jamesville.

DRAINAGE AREA.--32.2 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1955-58. July 1958 to current year.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 717.93 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.-- Peak discharges greater than base discharge of 550 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 19	1630	a*1,850	b*9.20	May 12	0400	1,060	7.85

a About.
b Backwater from ice.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	15	57	e21	e65	80	61	240	36	18	17	6.4
2	5.2	15	62	e21	e65	71	62	131	35	14	12	6.1
3	5.5	19	52	e20	e54	62	59	101	33	26	11	6.0
4	6.9	18	66	e19	e48	e47	55	120	34	59	10	5.9
5	9.9	15	53	e18	e46	e49	51	124	34	34	9.2	6.3
6	24	14	e46	e18	e43	e52	47	123	31	22	8.5	6.5
7	13	15	e40	e17	e43	e40	54	92	34	19	7.9	6.1
8	9.1	19	e36	e17	e45	e40	57	76	43	17	21	8.9
9	7.4	19	e36	e16	95	e38	52	77	32	15	44	12
10	6.8	19	e34	e16	e54	e38	50	85	34	13	25	15
11	6.5	38	e33	e16	45	e38	47	237	29	13	15	9.6
12	6.4	99	e32	e15	27	e38	51	905	28	11	12	8.9
13	6.4	52	e32	e15	25	e38	107	459	28	12	11	11
14	11	43	e34	e14	25	e52	207	237	25	13	10	12
15	29	48	e36	e13	25	128	110	158	23	38	9.6	9.1
16	14	44	e34	e15	25	96	188	127	21	33	26	8.7
17	10	41	e30	e32	25	68	199	107	20	19	19	16
18	8.5	39	e27	e130	25	71	126	106	20	15	14	23
19	8.0	45	e26	e1200	27	77	101	128	30	37	11	14
20	7.4	47	e25	e800	27	93	96	82	27	33	9.9	9.4
21	226	50	e27	e400	27	90	83	98	24	19	9.5	8.0
22	104	48	e26	e225	38	75	78	80	24	16	8.5	15
23	39	43	e25	e150	48	65	137	70	23	14	12	22
24	25	39	e24	e400	154	62	234	82	20	13	12	14
25	20	35	e24	e300	105	70	144	62	20	12	9.3	13
26	18	35	e23	e150	106	115	130	56	18	12	7.9	12
27	16	38	e23	e400	86	70	125	52	16	11	7.7	10
28	16	107	e23	e250	136	63	88	47	24	11	7.9	13
29	16	85	e22	e120	86	64	93	44	18	10	7.8	28
30	18	56	e22	e100	---	62	236	41	21	11	7.0	18
31	16	---	e22	e75	---	59	---	39	---	13	6.7	---
TOTAL	713.8	1200	1052	5003	1620	2011	3128	4386	805	603	399.4	353.9
MEAN	23.0	40.0	33.9	161	55.9	64.9	104	141	26.8	19.5	12.9	11.8
MAX	226	107	66	1200	154	128	236	905	43	59	44	28
MIN	4.8	14	22	13	25	38	47	39	16	10	6.7	5.9
CFSM	.72	1.24	1.05	5.01	1.73	2.01	3.24	4.39	.83	.60	.40	.37
IN.	.82	1.39	1.22	5.78	1.87	2.32	3.61	5.07	.93	.70	.46	.41

e Estimated

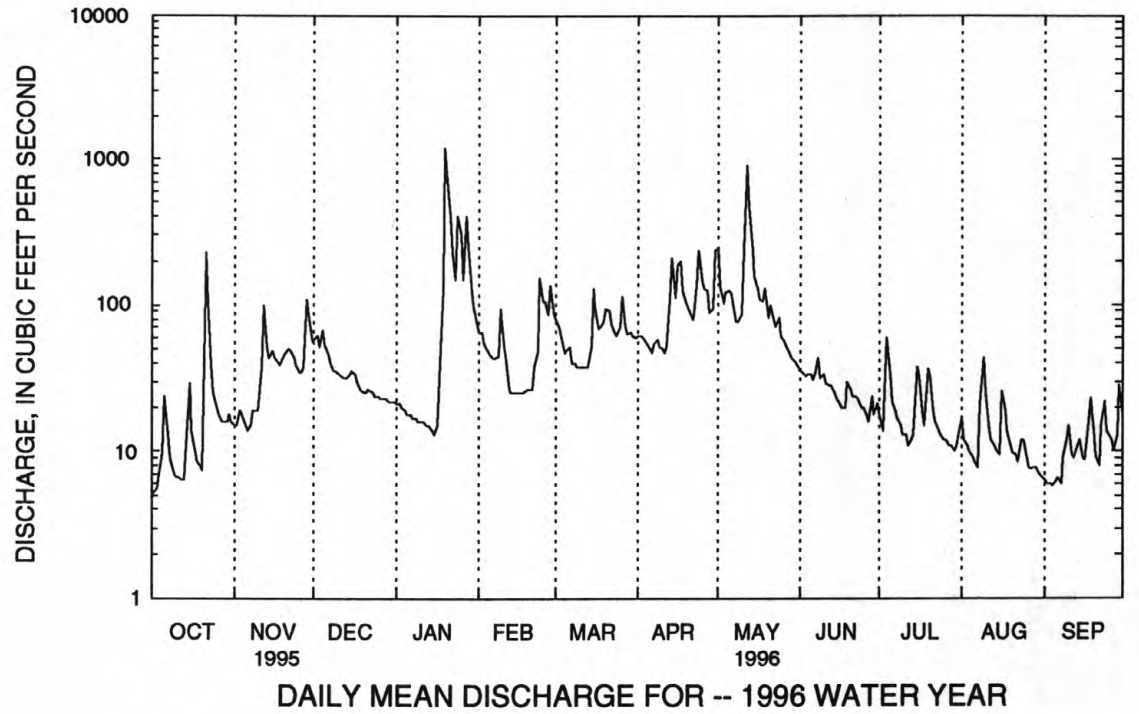
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1996, BY WATER YEAR (WY)

MEAN	28.7	45.3	55.5	55.7	66.1	101	111	54.1	31.9	20.5	13.8	17.0
MAX	138	124	145	161	191	198	377	141	200	71.6	45.7	66.6
(WY)	1978	1973	1973	1996	1976	1977	1993	1996	1972	1974	1992	1975
MIN	5.30	7.49	11.1	13.5	18.5	37.2	48.3	22.8	10.5	5.89	4.84	3.85
(WY)	1965	1965	1961	1961	1963	1983	1981	1995	1995	1964	1965	1964

04245200 BUTTERNUT CREEK NEAR JAMESVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1958 - 1996	
ANNUAL TOTAL	11361.8		21275.1			
ANNUAL MEAN	31.1		58.1		49.9	
HIGHEST ANNUAL MEAN					82.6	1976
LOWEST ANNUAL MEAN					24.2	1965
HIGHEST DAILY MEAN	251	Mar 8	e1200	Jan 19	1260	Oct 28 1981
LOWEST DAILY MEAN	3.8	Aug 30	4.8	Oct 1	3.0	Sep 27 1959
ANNUAL SEVEN-DAY MINIMUM	4.1	Aug 24	6.2	Sep 1	3.4	Sep 17 1964
INSTANTANEOUS PEAK FLOW			a1850	Jan 19	2820	Jul 3 1974
INSTANTANEOUS PEAK STAGE			b9.20	Jan 19	b9.20	Jan 19 1996
INSTANTANEOUS LOW FLOW			4.6	Oct 1	2.0	Sep 27 1959
ANNUAL RUNOFF (CFSM)	.97		1.81		1.55	
ANNUAL RUNOFF (INCHES)	13.13		24.58		21.06	
10 PERCENT EXCEEDS	62		121		103	
50 PERCENT EXCEEDS	24		30		30	
90 PERCENT EXCEEDS	5.1		9.4		7.6	

a About.
b Ice jam.
e Estimated.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04245236 MEADOW BROOK AT HURLBURT ROAD, SYRACUSE, NY

LOCATION.--Lat 43°02'30", long 76°06'02", Onondaga County, Hydrologic Unit 04140202, on right bank 170 ft downstream from culvert at intersection of Hurlburt Road and Meadowbrook Drive, and 2.3 mi upstream from mouth.

DRAINAGE AREA.--2.90 mi^2.

PERIOD OF RECORD.--December 1970 to March 1973, April 1973 to September 1978 (annual maximum only), October 1978 to current year.

REVISED RECORDS.--WDR NY-75-1: 1974 (M). WDR NY-78-1: 1977 (M). WDR-NY-90-3: 1971-89 (P).

GAGE.--Water-stage recorder, crest-stage gage, and artificial control. Datum of gage is 511.50 ft above sea level.

REMARKS.--Records fair. Flow includes storm sewer inflow, some originating outside the basin. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 21	1315	*102	*3.00	Jan. 19	1345	101	2.99

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.83	1.0	2.3	e1.2	e1.9	2.0	1.9	3.8	1.6	1.2	1.2	.84
2	.83	1.4	1.7	e1.2	e1.8	e1.9	1.9	2.4	1.6	1.2	1.0	.85
3	.83	6.2	1.8	e1.1	e1.7	e1.8	1.7	2.3	1.5	5.1	.95	.87
4	1.5	1.2	1.4	e1.3	e1.6	e1.7	1.6	3.9	3.7	8.0	.98	.87
5	5.7	1.1	1.3	e1.2	e1.5	e1.6	1.6	2.3	1.4	1.5	.99	1.4
6	5.7	1.0	1.3	e1.1	e1.5	e1.5	1.6	3.0	1.3	1.4	.99	.92
7	1.8	1.8	1.3	e1.0	e1.5	e1.5	2.9	2.0	5.1	1.4	.98	.98
8	.86	1.8	1.3	e1.0	4.6	e1.4	2.2	1.9	2.4	1.3	6.8	3.4
9	.79	2.0	1.4	e.98	3.7	e1.4	1.8	2.3	1.2	1.3	1.8	1.2
10	.76	2.2	1.3	e.95	2.2	e1.4	1.8	7.2	1.4	1.3	1.7	1.7
11	.76	6.3	1.4	e1.0	2.4	e1.6	1.7	11	1.0	1.3	1.7	.96
12	.80	8.3	1.6	e.95	2.1	e1.8	2.0	23	.98	1.2	2.4	1.2
13	.79	2.1	1.3	e.98	e2.0	2.3	7.0	4.9	1.7	1.2	2.9	3.3
14	8.2	2.5	1.5	e1.0	e1.9	4.0	5.0	3.1	.93	1.2	2.1	1.3
15	4.8	3.1	2.0	e1.2	e1.7	5.3	2.2	2.6	.80	8.9	1.4	1.1
16	.96	2.5	1.5	e1.1	e1.6	3.0	4.8	2.4	.67	1.3	1.9	1.0
17	.92	1.9	1.3	8.4	e1.5	2.4	3.4	2.3	.64	1.0	.95	3.2
18	.85	1.8	1.2	18	e1.4	2.5	2.3	3.5	.62	1.0	.89	1.9
19	.84	2.8	1.3	32	e1.3	2.4	2.1	2.9	5.7	5.5	.86	1.1
20	.81	2.5	1.4	5.8	7.6	2.4	2.5	2.2	1.3	1.2	1.3	1.1
21	43	3.1	1.3	3.2	6.2	3.0	2.0	4.8	1.3	1.0	1.0	1.2
22	3.4	2.2	1.3	2.9	2.7	2.3	2.6	2.2	1.2	1.0	.87	12
23	1.1	1.6	1.2	2.7	2.3	2.1	6.2	3.0	1.1	1.0	1.0	1.9
24	1.1	1.4	1.2	15	3.3	1.9	6.0	2.6	1.2	1.0	.87	1.2
25	1.1	1.3	1.2	4.0	2.2	2.4	2.8	2.0	1.3	1.8	.88	1.3
26	1.0	1.4	1.3	2.8	2.1	2.4	3.6	1.9	1.1	1.0	.88	.94
27	.93	1.5	1.2	5.4	2.1	1.8	2.5	1.8	2.1	.98	.92	1.0
28	.95	2.7	1.2	2.9	4.1	1.8	2.0	1.7	3.8	.98	2.1	6.0
29	1.1	1.5	1.2	2.4	2.2	1.8	3.2	1.6	1.2	.99	.85	2.4
30	1.3	1.3	1.2	e2.2	---	1.8	12	1.7	1.3	1.3	.84	.95
31	1.0	---	1.2	e2.0	---	1.8	---	1.7	---	1.5	.91	---
TOTAL	95.31	71.5	43.1	126.96	72.7	67.0	94.9	114.0	51.14	60.05	44.91	58.08
MEAN	3.07	2.38	1.39	4.10	2.51	2.16	3.16	3.68	1.70	1.94	1.45	1.94
MAX	43	8.3	2.3	32	7.6	5.3	12	23	5.7	8.9	6.8	12
MIN	.76	1.0	1.2	.95	1.3	1.4	1.6	1.6	.62	.98	.84	.84
CFSM	1.06	.82	.48	1.41	.86	.75	1.09	1.27	.59	.67	.50	.67
IN.	1.22	.92	.55	1.63	.93	.86	1.22	1.46	.66	.77	.58	.75

e Estimated

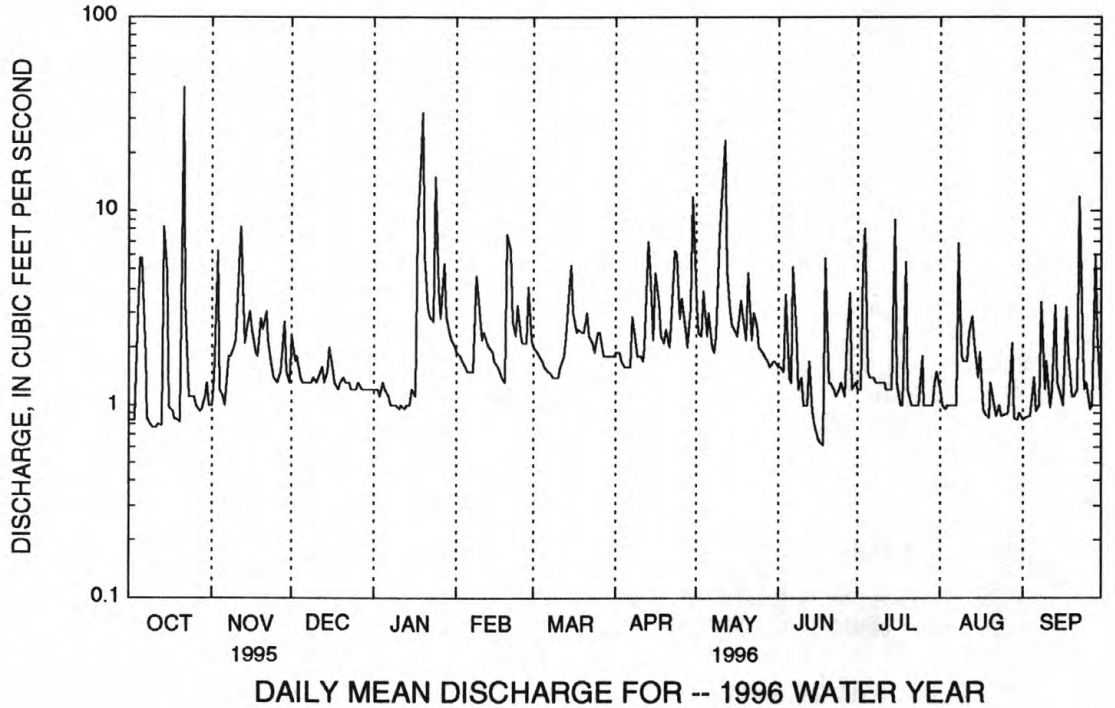
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, BY WATER YEAR (WY)

MEAN	1.67	1.97	2.14	2.00	2.41	3.80	3.21	2.57	2.23	1.82	1.39	1.59
MAX	4.73	2.82	4.66	4.26	4.37	6.93	7.51	5.21	6.12	5.04	5.16	3.03
(WY)	1982	1989	1991	1979	1990	1972	1993	1990	1972	1988	1990	1989
MIN	.19	.71	1.04	.67	1.12	1.38	1.34	1.08	.86	.48	.32	.31
(WY)	1972	1979	1971	1981	1993	1981	1981	1971	1981	1980	1971	1971

04245236 MEADOW BROOK AT HURLBURT ROAD, SYRACUSE, NY--Continued

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1971 - 1973, 1979 - 1996	
ANNUAL TOTAL	647.20		899.65			
ANNUAL MEAN	1.77		2.46		2.26	
HIGHEST ANNUAL MEAN					3.27	1990
LOWEST ANNUAL MEAN					1.27	1981
HIGHEST DAILY MEAN	43	Oct 21	43	Oct 21	84	Oct 28 1981
LOWEST DAILY MEAN	.68	a	.62	Jun 18	.04	b
ANNUAL SEVEN-DAY MINIMUM	.69	Aug 18	.86	Aug 29	.04	Oct 13 1971
INSTANTANEOUS PEAK FLOW			102	Oct 21	c418	Jul 3 1974
INSTANTANEOUS PEAK STAGE			3.00	Oct 21	6.51	Jul 3 1974
INSTANTANEOUS LOW FLOW			.53	d	.02	f
ANNUAL RUNOFF (CFSM)	.61		.85		.78	
ANNUAL RUNOFF (INCHES)	8.30		11.54		10.57	
10 PERCENT EXCEEDS	2.6		4.8		4.1	
50 PERCENT EXCEEDS	1.2		1.6		1.4	
90 PERCENT EXCEEDS	.80		.95		.46	

a Aug. 20, 22, 23.
b Oct. 13-21, 1971.
c From rating curve extended above 47 ft^3/s on basis of computation of peak flow through culvert at gage heights 5.31 ft and 6.51 ft.
d June 17, 18.
f Sep. 11, 1972, Aug. 24, 1990.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04246000 ONEIDA LAKE AT BREWERTON, NY

LOCATION.--Lat 43°14'25", long 76°08'30", Onondaga County, Hydrologic Unit 04140202, at west end of Oneida Lake, 100 ft west of bridge on U.S. Highway 11, at Brewerton.

DRAINAGE AREA.--1,382 mi^2, at dam at Caughdenoy.

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."

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level (1.01 ft Barge Canal datum). November 1951 to September 1975, at datum 360.99 ft higher.

REMARKS.--Lake elevation regulated by taintor-gate dam on Oneida River at Caughdenoy and gates on Oneida Canal and Erie (Barge) Canal. Lake volume at elevation 369 ft sea level, 1.135 million acre-ft. Area of water surface, 79.8 mi^2; axes, 20.9 mi by 5.5 mi; shoreline length, 54.7 mi. Records for Oct. 1-6 and Oct. 13 to Dec. 6 estimated from daily gage-height records for station on Oneida River at Caughdenoy.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 373.14 ft, Apr. 24,1993; minimum daily, 366.12 ft, Feb. 11, 1984.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29, 1936, reached a water surface elevation of 373.5 ft, from Corps of Engineers report "Flood Plain Information, Oneida Creek, New York."

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 370.65 ft, May 15; minimum daily, 367.01 ft, Jan. 17.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	369.63	369.41	369.19	367.47	369.60	369.11	368.54	370.42	369.65	369.84	369.77	369.68
2	369.57	369.41	369.08	367.44	369.48	369.09	368.53	370.48	369.70	369.89	369.79	369.65
3	369.59	369.28	369.28	367.43	369.37	369.01	368.54	370.49	369.76	369.89	369.80	369.67
4	369.59	369.21	369.01	367.40	369.26	368.98	368.53	370.41	369.73	369.89	369.79	369.67
5	369.73	369.34	369.16	367.36	369.16	368.95	368.48	370.32	369.69	370.00	369.79	369.66
6	369.97	369.42	368.87	367.33	369.06	368.87	368.45	370.26	369.76	370.07	369.80	369.68
7	---	369.43	368.75	367.28	368.97	368.82	368.45	370.18	369.84	370.11	369.79	369.99
8	---	369.30	368.78	367.24	368.87	368.76	368.43	370.07	369.83	370.06	369.78	369.66
9	---	369.40	368.82	367.22	368.80	368.69	368.43	370.01	369.85	369.99	369.78	369.62
10	---	369.47	368.55	367.19	368.79	368.64	368.32	369.93	369.90	369.86	369.75	369.65
11	---	369.39	368.50	367.17	368.74	368.58	368.34	369.94	369.87	369.86	369.75	369.68
12	---	369.18	368.47	367.13	368.71	368.50	368.38	370.11	369.88	369.86	369.75	369.71
13	369.52	369.64	368.39	367.09	368.67	368.44	368.61	370.43	369.87	369.81	369.72	369.81
14	369.54	369.74	368.35	367.07	368.61	368.38	368.55	370.61	369.87	369.74	369.70	369.67
15	369.46	369.72	368.29	367.03	368.54	368.34	368.92	370.65	369.88	369.77	369.73	369.67
16	369.39	369.76	368.23	367.04	368.47	368.37	369.10	370.61	369.89	369.83	369.68	369.64
17	369.60	369.77	368.17	367.01	368.39	368.40	369.25	370.49	369.84	369.90	369.69	369.64
18	369.62	369.84	368.11	367.03	368.32	368.41	369.70	370.49	369.82	369.95	369.71	369.56
19	369.57	369.66	368.06	367.33	368.27	368.43	369.84	370.37	370.01	369.94	369.74	369.55
20	369.69	369.66	368.02	368.01	368.20	368.48	369.88	370.28	369.93	369.86	369.75	369.53
21	369.59	369.54	367.97	368.59	368.20	368.53	369.87	370.23	369.79	369.96	369.71	369.53
22	369.82	369.42	367.92	368.91	368.34	368.60	370.01	370.20	369.80	369.99	369.75	369.59
23	369.99	369.41	367.87	369.07	368.52	368.62	370.05	370.18	369.76	369.97	369.76	369.56
24	369.96	369.39	367.83	369.21	368.64	368.63	370.17	370.08	369.82	369.90	369.75	369.65
25	369.86	369.38	367.78	369.38	368.79	368.61	370.41	370.00	369.72	369.83	369.74	369.60
26	369.84	369.26	367.73	369.52	368.96	368.59	370.37	369.93	369.73	369.78	369.75	369.67
27	369.77	369.23	367.69	369.60	369.03	368.63	370.31	369.82	369.76	369.74	369.76	369.74
28	369.52	369.06	367.64	369.68	369.06	368.66	370.40	369.73	369.85	369.75	369.76	369.66
29	369.27	369.18	367.60	369.76	369.11	368.62	370.51	369.61	369.88	369.79	369.71	369.72
30	369.34	369.26	367.55	369.71	---	368.59	370.47	369.59	369.88	369.83	369.70	369.80
31	369.35	---	367.51	369.67	---	368.57	---	369.61	---	369.80	369.70	---
MEAN	---	369.44	368.30	368.01	368.79	368.64	369.26	370.18	369.82	369.89	369.75	369.66
MAX	---	369.84	369.28	369.76	369.60	369.11	370.51	370.65	370.01	370.11	369.80	369.99
MIN	---	369.06	367.51	367.01	368.20	368.34	368.32	369.59	369.65	369.74	369.68	369.53

04246500 ONEIDA RIVER AT CAUGHDENOY, NY

LOCATION.--Lat 43°14'49", long 76°10'12", Oswego County, Hydrologic Unit 04140202, on left bank at point of diversion to New York State Erie (Barge) Canal, 1.6 mi downstream from Oneida Lake, and 2.6 mi upstream from navigation dam at Caughdenoy.

DRAINAGE AREA.--1,382 mi^2; 1902-9, 1,439 mi^2.

PERIOD OF RECORD.--September 1902 to December 1909 (published as "near Euclid"), January 1910 to December 1912, and October 1947 to current year in reports of Geological Survey. September 1902 to December 1909 and January 1910 to September 1925 in reports of State Engineer and Surveyor.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Base gage: Water-stage recorder. Datum of gage is 360.98 ft above sea level (362.00 ft 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 downstream at different datum. Jan. 1, 1910 to Dec. 31, 1912, nonrecording gage at site 2.5 mi downstream from present site at different datum. From Oct. 9, 1947 to Nov. 7, 1951, water-stage recorder at site 2.5 mi downstream at present datum.

Auxiliary gage: Water-stage recorder at site 2.5 mi downstream, 350 ft upstream from navigation dam at present datum (base gage site 1947-51).

Supplementary gage: Water-stage recorder at site 2.6 mi downstream, 180 ft downstream from navigation dam at present datum.

REMARKS.--No estimated daily discchrges. Records fair. Jan. 1, 1910 to Dec. 31, 1912: Flow over dam computed on basis of coefficient determined for model of dam of same general type; flow through gate and diversion through lock culverts estimated by theoretical calculations.

1947 to current year: Record represents total discharge at Caughdenoy, including flow in Oneida and Erie (Barge) Canals. Considerable seasonal regulation by operation of gates in Oneida and Erie (Barge) Canals with a large amount of natural storage in Oneida Lake. Occasional large diurnal fluctuations caused by seiche in Oneida Lake. Water may be diverted into or received from Mohawk River basin through summit level of Erie (Barge) Canal between New London and Utica. Nearly all of flow from 14 mi^2 of Tioughnioga River basin may be diverted into De Ruyter Reservoir, in Oswego River basin. Several measurements of water temperature were made during the year.

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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

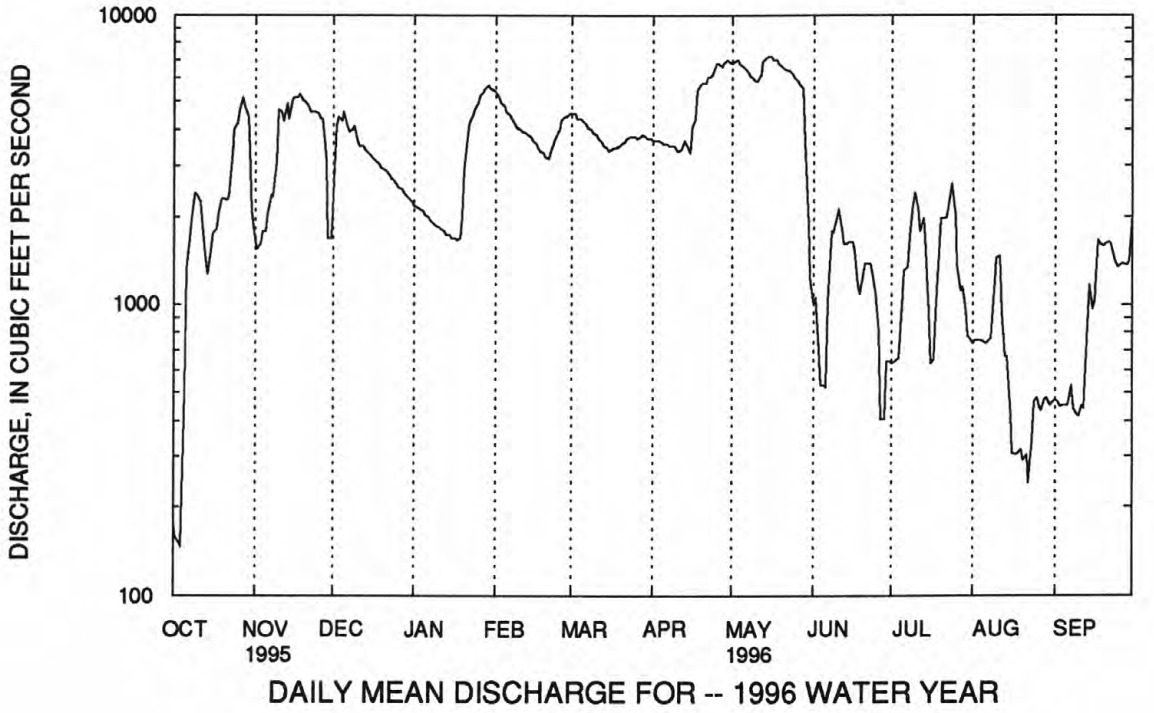
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177	1650	2390	2190	5340	4540	3650	6780	994	630	740	477
2	159	1560	4110	2140	5140	4510	3640	6890	1060	642	761	467
3	152	1610	4400	2120	4950	4360	3640	6920	706	648	763	448
4	148	1790	4260	2100	4770	4320	3630	6790	531	655	759	456
5	507	1780	4580	2040	4600	4290	3550	6610	531	987	744	457
6	1330	2060	4100	2010	4440	4140	3530	6480	522	1310	743	454
7	1690	2380	3940	1960	4310	4060	3520	6330	1030	1340	759	534
8	1980	2360	3990	1900	4150	3960	3490	6130	1800	1720	770	441
9	2410	3070	4090	1880	4020	3860	3500	6020	1760	2210	1200	423
10	2390	4690	3650	1840	4000	3800	3340	5870	1980	2430	1450	420
11	2250	4570	3520	1820	3930	3700	3370	5880	2110	2140	1460	457
12	1860	4250	3480	1790	3880	3590	3380	6180	1820	1800	942	439
13	1430	4950	3380	1750	3830	3510	3660	6810	1610	1980	670	850
14	1270	4370	3330	1730	3750	3430	3550	7100	1630	1680	672	1170
15	1540	5080	3240	1690	3650	3370	3310	7180	1640	941	425	971
16	1770	5160	3170	1690	3550	3410	4020	7120	1650	632	308	1030
17	1810	5170	3110	1670	3460	3460	4310	6920	1530	647	306	1660
18	2060	5280	3040	1700	3350	3470	5420	6910	1160	924	307	1630
19	2300	5000	2970	2020	3290	3510	5710	6720	1090	1640	319	1600
20	2300	5000	2910	2920	3200	3570	5770	6530	1260	1970	290	1620
21	2290	4800	2850	3720	3170	3630	5750	6450	1380	1990	303	1640
22	2360	4610	2790	4200	3350	3730	6030	6380	1390	2000	241	1620
23	3290	4600	2720	4460	3600	3750	6100	6340	1390	2340	343	1450
24	4010	4570	2660	4670	3780	3780	6290	6170	1200	2610	465	1380
25	4230	4550	2600	4960	3970	3770	6780	6020	1080	2030	478	1350
26	4660	4370	2520	5220	4260	3700	6720	5890	816	1360	450	1390
27	5170	4320	2470	5360	4400	3780	6540	5670	407	1120	434	1380
28	4780	3110	2410	5500	4420	3820	6760	5500	407	1150	471	1370
29	4400	1700	2350	5660	4500	3770	6940	3610	638	951	482	1400
30	3420	1690	2300	5550	---	3720	6870	1900	637	781	455	2050
31	2090	---	2250	5470	---	3690	---	1240	---	766	458	---
TOTAL	70233	110100	99580	93730	117060	118000	142770	187340	35759	44024	18968	31034
MEAN	2266	3670	3212	3024	4037	3806	4759	6043	1192	1420	612	1034
MAX	5170	5280	4580	5660	5340	4540	6940	7180	2110	2610	1460	2050
MIN	148	1560	2250	1670	3170	3370	3310	1240	407	630	241	420

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1996, BY WATER YEAR (WY)

MEAN	1574	2631	3728	2930	2672	3600	5204	3029	1557	1110	786	1097
MAX	5591	5635	5686	5206	4442	6325	9264	7427	5710	5151	2066	3524
(WY)	1978	1982	1978	1950	1951	1979	1993	1972	1972	1972	1986	1977
MIN	113	260	2093	1397	1048	1122	905	815	366	281	133	129
(WY)	1965	1965	1961	1963	1963	1983	1995	1987	1988	1979	1965	1964

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1948 - 1996	
ANNUAL TOTAL	610926		1068598			
ANNUAL MEAN	1674		2920		2490	
HIGHEST ANNUAL MEAN					3777	1976
LOWEST ANNUAL MEAN					1562	1995
HIGHEST DAILY MEAN (1903-1912)					13800	a
HIGHEST DAILY MEAN (1948-1995)	5280	Nov 18	7180	May 15	11300	Apr 24 1993
LOWEST DAILY MEAN (1903-1912)					52	Oct 24 1910
LOWEST DAILY MEAN (1948-1995)	148	Oct 4	148	Oct 4	62	Jul 29 1950
ANNUAL SEVEN-DAY MINIMUM	172	Sep 28	296	Aug 16	72	Jul 28 1950
10 PERCENT EXCEEDS	3640		5760		5270	
50 PERCENT EXCEEDS	1650		2600		2090	
90 PERCENT EXCEEDS	204		528		307	

a Mar. 25, 26, 27, 1903.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY

LOCATION.--Lat 43°27'06", long 76°30'20", Oswego County, Hydrologic Unit 04140203, on right bank at New York State Barge Canal (Oswego Canal) Lock 7 in Oswego, 0.8 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--5,100 mi^2.

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 644, have been found to be unreliable and should not be used.

REVISED RECORDS.--WDR NY 78-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 245.12 ft above sea level. Prior to 1933, nonrecording gage at site about 6 mi upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Prior to 1933 and subsequent to 1972, flow in Oswego (Barge) Canal not included. A large amount of natural storage and some artificial regulation is afforded by the many large lakes and the Erie (Barge) and Oswego (Barge) Canal systems in the river basin. Large diurnal fluctuations at low and medium flow caused by powerplants upstream from station. Oswego River basin receives water from Erie (Barge) Canal through Lock 32 near Pittsford. Water may be diverted into or received from Mohawk River basin through Erie (Barge) Canal between New London and Utica. During part of year, entire flow from 45.5 mi^2 of Mud Creek drainage area may be diverted from Chemung River basin into Keuka Lake in Oswego River basin.Nearly all of the flow from 14 mi^2 of the Tioughnioga River basin may be diverted into De Ruyter Reservoir, in Oswego River basin. Telephone gage-height telemeter at station.

COOPERATION.--Records of lockages at Lock 7 furnished by New York State Thruway Authority, record of elevations of Lake Ontario by U.S. Army Corps of Engineers, daily discharge records for Oswego River High Dam upstream by Niagara Mohawk Power Corp.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	773	4340	8530	3840	15400	13600	6590	18400	9300	e4360	e2290	1060
2	696	4010	10300	3870	14400	13100	6730	18600	8650	e4510	e2380	1870
3	500	4690	10800	4380	13600	12700	7200	18700	6760	e4680	e2500	1360
4	837	5720	10500	3870	13300	12400	7250	18700	e5560	e5100	e2310	799
5	1230	5540	10800	4060	11900	12000	6560	18400	6570	e4620	e2340	1570
6	2050	4650	10700	4070	10900	10600	6060	17800	6180	e4230	e2340	1540
7	3010	6030	10400	4010	10500	10200	6170	17400	e6310	e3650	e2180	1890
8	3190	5990	9660	3410	11900	10000	6440	16700	7370	e4770	e2440	2400
9	3810	7250	9730	3430	13300	9650	6260	16200	7800	e4530	4340	2250
10	3290	8270	9850	3540	13400	9170	6150	15800	8340	e5220	4520	1400
11	3220	9160	8780	3410	13000	9230	5400	16200	8660	e5180	4710	1020
12	3450	10400	7540	3260	11900	9080	4160	18500	8360	e3630	3600	2590
13	3120	11700	8570	3400	11300	8970	5320	20200	6960	e3680	2870	1360
14	3010	10600	8820	3220	11200	7610	8150	21400	e6600	e3510	3830	2670
15	3870	11100	8880	3270	11600	7090	10700	21700	e6520	e3580	3400	3810
16	4520	11900	8970	3290	11500	7760	12400	21800	e6360	e3300	3900	3440
17	5060	11700	8970	3580	11500	9120	13900	21500	e4920	e3460	3610	3700
18	4420	11200	8050	4530	10700	9810	14800	21000	e4200	e3080	3570	4140
19	4500	11200	8220	13900	10800	10200	15900	20500	e3630	e4510	3110	3840
20	4780	11100	7680	20900	10400	10600	15900	19800	e3900	e5140	3030	3070
21	5950	11200	7420	20600	11900	10700	15400	19900	e4950	e4650	e1910	4690
22	10400	11100	7210	19400	13900	10800	15200	19400	e5220	e4560	2540	2950
23	9210	10700	6900	18700	13800	11100	15400	18700	e5420	e3930	e900	3650
24	9550	10400	6810	18700	14300	11000	16500	18200	e5560	e4450	e1170	2900
25	9820	10300	6470	18900	14500	10300	17600	17700	e5680	e4340	e1690	3200
26	9290	9830	5710	18000	14600	9740	17900	17200	e5560	e3340	2120	3730
27	10400	9870	4350	17700	13900	9160	17700	16700	e5070	e2880	e1380	3730
28	10000	9490	4440	17700	13900	8320	17600	16100	e3800	e1470	e1100	3640
29	9590	8370	4190	17000	13900	7720	17400	15300	e3900	e2660	1800	4310
30	9300	8280	4550	16300	---	7720	17500	11500	e3780	e2460	2140	4540
31	7590	---	4520	15800	---	7390	---	10800	---	e2340	e990	---
TOTAL	160436	266090	248320	300040	367200	306840	340240	560800	181890	121820	81010	83119
MEAN	5175	8870	8010	9679	12660	9898	11340	18090	6063	3930	2613	2771
MAX	10400	11900	10800	20900	15400	13600	17900	21800	9300	5220	4710	4690
MIN	500	4010	4190	3220	10400	7090	4160	10800	3630	1470	900	799

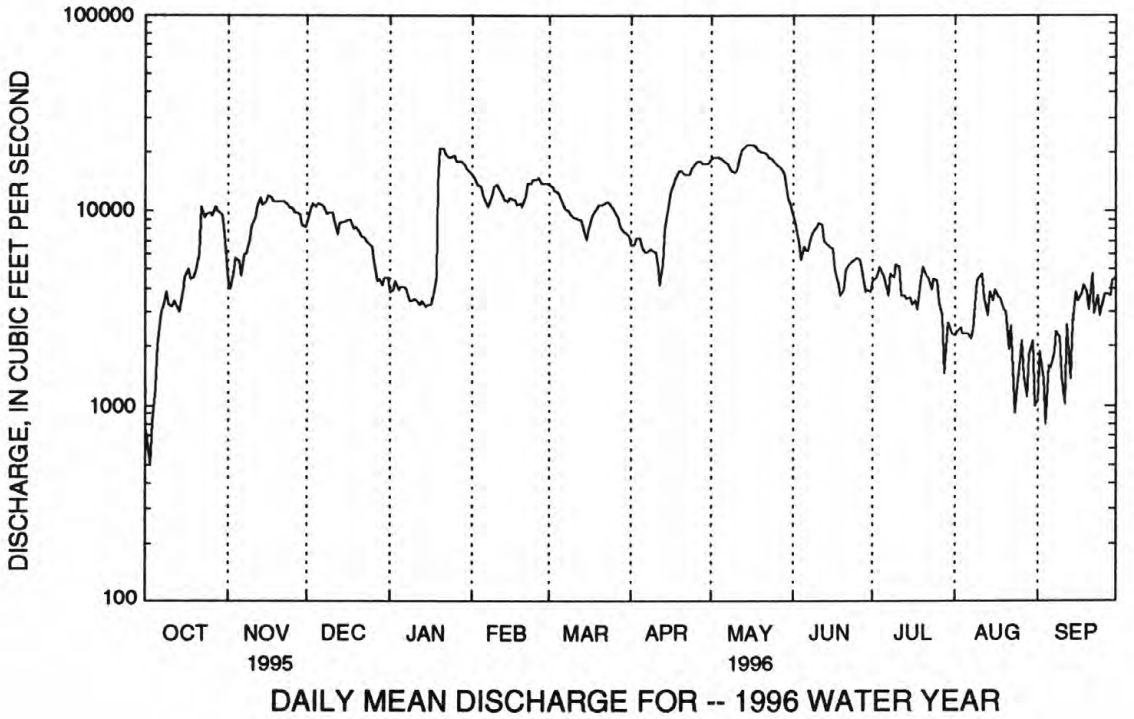
e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1996, BY WATER YEAR (WY)

MEAN	3863	6043	8359	7830	7781	11560	13270	8314	5040	3452	2537	2712
MAX	17950	16070	17920	16370	15130	21720	30250	20350	17000	19660	8951	8702
(WY)	1978	1978	1978	1943	1976	1979	1993	1943	1947	1972	1992	1977
MIN	1173	1167	2917	2610	2547	3914	2757	1993	1383	1113	836	760
(WY)	1940	1965	1940	1963	1963	1983	1995	1995	1995	1995	1934	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1934 - 1996	
ANNUAL TOTAL	1565403		3017805			
ANNUAL MEAN	4289		8245		6767	
HIGHEST ANNUAL MEAN					11030	1976
LOWEST ANNUAL MEAN					3433	1965
HIGHEST DAILY MEAN	13500	Mar 8	21800	May 16	37000	Mar 28 1936
LOWEST DAILY MEAN	430	Jun 15	500	Oct 3	261	Sep 18 1985
ANNUAL SEVEN-DAY MINIMUM	697	Sep 4	1300	Oct 1	697	Sep 4 1995
INSTANTANEOUS PEAK FLOW			23400	Jan 20	a37500	Mar 28 1936
INSTANTANEOUS PEAK STAGE			10.20	Jan 20	13.46	Apr 10 1940
INSTANTANEOUS LOW FLOW			181	b	c30	Nov 6 1944
10 PERCENT EXCEEDS	9860		17300		14300	
50 PERCENT EXCEEDS	3090		7140		5090	
90 PERCENT EXCEEDS	772		2430		1610	

a Includes daily mean discharge of canals.
b Oct. 1-4.
c River only.



DAILY MEAN DISCHARGE FOR -- 1996 WATER YEAR

04224000 MOUNT MORRIS LAKE NEAR MOUNT MORRIS, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

04227980 CONESUS LAKE NEAR LAKEVILLE, NY (see station for daily mean elevation).

04232400 SENECA LAKE AT WATKINS GLEN, NY (see station for daily mean elevation).

04233500 CAYUGA INLET (CAYUGA LAKE) AT ITHACA, NY (see station for daily mean elevation).

04234500 CANANDAIGUA LAKE AT CANANDAIGUA, NY (see station for daily mean elevation).

04235396 OWASCO LAKE NEAR AUBURN, NY (see station for daily elevation).

04238500 ONONDAGA RESERVOIR NEAR NEDROW, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

04240495 ONONDAGA LAKE AT LIVERPOOL, NY (see station for daily mean elevation).

04246000 ONEIDA LAKE AT BREWERTON, NY (see station for daily mean elevation).

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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 crest-stage partial-record stations are presented in the following table. Discharge measurements made at low-flow partial-record sites and at miscellaneous sites and for special studies are given in separate tables.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device that will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1996 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
SUSQUEHANNA RIVER BASIN								
Little Elk Creek near Westford, NY (01497805)	Lat 42°38'01", long 74°47'45", Otsego County, Hydrologic Unit 02050101, at culvert on Greenbush Road, 1.2 mi south of Westford, and 2.2 mi upstream from mouth. Drainage area is 3.73 mi^2.	1978-96	1-19-96	19.92	278	1-19-96	19.92	278
Susquehanna River at Unadilla, NY (01500500)	Lat 42°19'17", long 75°19'01", Otsego County, Hydrologic Unit 02050101, on right bank 25 ft downstream from bridge on Bridge Street at Unadilla, 1.0 mi upstream from Carrs Creek, and 1.6 mi downstream from Ouleout Creek. Drainage area is 982 mi^2.	1938-95‡ 1996	1-19-96 1-20-96	-- 14.24	e17,100 a	3-14-77	14.64	23,500
Unadilla River at Rockdale, NY (01502500)	Lat 42°22'40", long 75°24'23", Chenango County, Hydrologic Unit 02050101, on right bank 400 ft downstream from Chenango-Otsego County highway bridge at Rockdale, and 0.7 mi downstream from Kent Brook. Drainage area is 520 mi^2.	1930-33‡, 1937-95‡ 1996	1-19-96 1-20-96	-- 12.24	e13,900 a	12-31-42	12.98	17,400
Susquehanna River at Bainbridge, NY (01502632)	Lat 42°17'29", long 75°28'36", Chenango County, Hydrologic Unit 02050101, on right bank at the downstream side of bridge on State Highway 206 over the Susquehanna River, at Bainbridge. Drainage area is 1,610 mi^2.	1988-96	1-20-96	a21.04	e34,500	3-31-93 1-20-96	20.17 21.04	36,600 a
Susquehanna River at Windsor, NY (01502731)	Lat 42°04'28", long 75°38'17", Broome County, Hydrologic Unit 02050101, on right bank at downstream side of bridge on County Highway 315 over the Susquehanna River, at Windsor. Drainage area is 1,820 mi^2.	1988-96	1-20-96	a21.22	e40,000	1-20-96	a21.22	e40,000
Chenango River at Eaton, NY (01503980)	Lat 42°51'02", long 75°36'21", Madison County, Hydrologic Unit 02050102, at bridge on Landon Road at Eaton, 0.1 mi upstream from Eaton Brook, and 0.1 mi downstream from State Highway 26. Drainage area is 24.3 mi^2.	1964-65, 1967-96	1-19-96	a8.51	e1,600	3- 6-64 1-19-96	8.12 8.51	2,350 a

‡ Operated as a continuous-record gaging station.
a Ice jam.
e Estimated.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1996 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		SUSQUEHANNA RIVER BASIN--Continued						
Chenango River at Sherburne, NY (01505000)	Lat 42°40'43", long 75°30'39", Chenango County, Hydrologic Unit 02050102, on right bank 20 ft downstream from bridge on State Highway 80, 0.5 mi west of Sherburne, and 0.5 mi downstream from Handsome Brook. Drainage area is 263 mi^2.	1938-95‡ 1996	1-19-96	a10.47	e8,000	3- 6-79 1-19-96	9.94 10.47	10,400 a
Chenango River at Greene, NY (01507000)	Lat 42°19'28", long 75°46'18", Chenango County, Hydrologic Unit 02050102, on left bank 0.3 mi downstream from bridge on State Highway 206 at Greene, and 0.6 mi downstream from Birdsall Brook. Drainage area is 593 mi^2.	1937-70‡, 1971-96	1-20-96	15.89	14,700	12-31-42	18.33	18,900
Tioughnioga River at Lisle, NY (01509520)	Lat 42°20'58", long 75°59'58", Broome County, Hydrologic Unit 02050102, on left bank 50 ft downstream from bridge on State Highway 79, at Lisle, and 2.3 mi upstream from Otselic River. Drainage area is 453 mi^2.	1988-96	1-19-96 1-20-96	10.50 --	a e12,900	1-19-96 1-20-96	10.50 --	a e12,900
Merrill Creek tributary near Texas Valley, NY (01510610)	Lat 42°28'03", long 75°59'19", Cortland County, Hydrologic Unit 02050102, at bridge on town road, 0.3 mi upstream from mouth, and 1.4 mi southwest of Texas Valley. Drainage area is 5.32 mi^2.	1976-81, 1983-96	1-19-96	a6.64	e1,150	1-19-96	a6.64	e1,150
Tioughnioga River at Itaska, NY (01511500)	Lat 42°17'53", long 75°54'33", Broome County, Hydrologic Unit 02050102, on right bank at Itaska, 3.8 mi downstream from Otselic River and village of Whitney Point, and 6.0 mi upstream from mouth. Drainage area is 730 mi^2.	1930-67‡, 1968-96	1-19-96	10.77	20,800	7- 8-35	16.61	61,100
Susquehanna River at Vestal, NY (01513500)	Lat 42°05'27", long 76°03'23", Broome County, Hydrologic Unit 02050103, on left bank 400 ft downstream from highway bridge, at Vestal, and 800 ft upstream from Choconut Creek. Drainage area is 3,941 mi^2.	1936, 1937-67‡, 1968-72, 1974-96	1-20-96	27.86	89,100	e3-18-36	30.50	107,000
Susquehanna River at Owego, NY (01513831)	Lat 42°06'05", long 76°15'41", Tioga County, Hydrologic Unit 02050103, on right bank at the upstream side of bridge on State Highway 96 over the Susquehanna River, at Owego. Drainage area is 4,216 mi^2.	1988-96	1-20-96	32.97	81,400	3-18-36 1-20-96	g 32.97	107,000 81,400

‡ Operated as a continuous-record gaging station.
a Ice jam.
e Estimated.
g None available.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		SUSQUEHANNA RIVER BASIN--Continued						
Owego Creek near Owego, NY (01514000)	Lat 42°07'45", long 76°16'15", Tioga County, Hydrologic Unit 02050103, on right bank of right channel 300 ft upstream from bridge on State Highway 96, 0.5 mi upstream from Catatonk Creek, and 1.5 mi north of Owego. Drainage area is 185 mi^2.	1930-78‡, 1979-96	1-19-96 1-20-96	11.66 --	a e13,200	7- 8-35 1-19-96	11.50 11.66	23,500 a
Catatonk Creek near Owego, NY (01514801)	Lat 42°08'18", long 76°17'23", Tioga County, Hydrologic Unit 02050103, on right bank 0.4 mi downstream from bridge on County Highway 23, 1.4 mi north of Owego, and 1.2 mi upstream from mouth. Drainage area is 151 mi^2.	1988-96	1-20-96 12-23-87 5-11-89 2-17-90 10-24-90 3-27-92 4-11-93 8-18-94 11- 2-94	14.83 7.96 9.47 7.95 12.41 9.68 10.73 9.80 7.85	9,740 R1,970 R3,220 R1,970 R6,440 R3,410 R4,460 R3,520 R1,890	1-20-96	14.83	9,740
Susquehanna River near Waverly, NY (01515000)	Lat 41°59'05", long 76°30'05", Bradford County, Pa., Hydrologic Unit 02050103, on left bank 0.2 mi upstream from Cayuta Creek, 0.4 mi upstream from bridge on East Lockhart Street at Sayre, Pa., 1.0 mi downstream from New York-Pennsylvania State line, and 2.0 mi southeast of Waverly. Drainage area is 4,773 mi^2.	1937-95‡ 1996	1-20-96	20.35	102,000	6-23-72	21.24	121,000
Tioga River near Lindley, NY (01520500)	Lat 42°01'43", long 77°07'57", Steuben County, Hydrologic Unit 02050104, on left bank just downstream from bridge on County Highway 120 at Lindley, and 6 mi upstream from Canisteo River. Drainage area is 771 mi^2.	1930-95‡ 1996	1-23-96	13.18	13,400	6-23-72	26.27	128,000
Big Creek near Howard, NY (01521596)	Lat 42°22'01", long 77°34'33", Steuben County, Hydrologic Unit 02050104, at culvert on town road, 0.1 mi south of State Highway 70, 1.3 mi north of Butch Corner, 3.4 mi west of Howard,and 6.2 mi upstream from mouth. Drainage area is 6.32 mi^2.	1977-96	1-19-96	i16.23	c	9-13-87 1-19-96	16.04 i16.23	580 c
Canisteo River at West Cameron, NY (01525500)	Lat 42°13'20", long 77°25'05", Steuben County, Hydrologic Unit 02050104, on right bank 250 ft downstream from bridge on County Highway 119, 0.3 mi southeast of West Cameron, and 1.7 mi north of Cameron. Drainage area is 340 mi^2.	1930-31‡, 1937-70‡, 1971-72, 1974-96	1-19-96	20.91	29,100	6-23-72	23.48	43,000
Tuscarora Creek above South Addison, NY (01525981)	Lat 42°04'20", long 77°17'57", Steuben County, Hydrologic Unit 02050104, on right bank 500 ft downstream from bridge on State Highway 417, 200 ft upstream from Elk Creek, and 1.7 mi southwest of South Addison. Drainage area is 102 mi^2.	1989-96	1-19-96	i13.49	e8,700	10-23-91 1-19-96	10.96 a13.49	11,800 e8,700

‡ Operated as a continuous-record gaging station.
a Ice jam.
c Discharge not determined.
e Estimated.
R Revised.
i From floodmark.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1996 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
SUSQUEHANNA RIVER BASIN--Continued								
Cohocton River at Cohocton, NY (01527000)	Lat 42°30'00", long 77°30'02", Steuben County, Hydrologic Unit 02050105, on left bank 450 ft downstream from bridge on State Highway 415 at Cohocton, 800 ft downstream from small tributary, and 1.4 mi upstream from Reynolds Creek. Drainage area is 52.2 mi^2.	1951-81‡, 1982-96	1-19-96	6.39	754	6-23-72	9.82	2,260
Cohocton River at Bath, NY (01528320)	Lat 42°20'36", long 77°20'39", Steuben County, Hydrologic Unit 02050104, on left bank 150 ft upstream from bridge on Veterans Avenue at Bath, and 0.6 mi downstream from Harrisburg Hollow Creek. Drainage area is 340 mi^2.	1988-96	1-19-96	13.67	14,200	1-19-96	13.67	14,200
Cuthrie Run near Big Flats, NY (01530301)	Lat 42°10'43", long 75°55'32", Chemung County, Hydrologic Unit 02050105, at culvert on Breed Hollow Road, 0.9 mi north of intersection of Eacher Hollow Road and Breed Hollow Road, 2.3 mi north of State Highway 17, and 3.0 mi north of Big Flats. Drainage area is 5.39 mi^2.	1976, 1979-81, 1983-96	1-19-96	16.92	580	6-19-76	18.52	800
Chemung River at Elmira, NY (01530332)	Lat 42°05'11", long 76°48'05", Chemung County, Hydrologic Unit 02050105, on right bank 350 ft upstream from bridge on Pennsylvania Avenue at the north end of George Place, 1.0 mi downstream from Hoffman Brook, at Elmira. Drainage area is 2,162 mi^2.	1988-96	1-20-96	i18.51	e71,000	1-20-96	i18.51	e71,000
ALLEGHENY RIVER BASIN								
Ischua Creek tributary near Machias, NY (03010734)	Lat 42°24'28", long 78°31'33", Cattaraugus County, Hydrologic Unit 05010001, at culvert on Very Road, 0.2 mi upstream from mouth, 0.7 mi north of State Highway 242, and 1.5 mi west of Machias. Drainage area is 5.12 mi^2.	1978-81, 1983-96	1-19-96	10.33	260	9-14-79	10.59	570
Ball Creek at Stow, NY (03013800)	Lat 42°09'13", long 79°24'27", Chautauqua County, Hydrologic Unit 05010002, on left bank 75 ft upstream from bridge on State Highway 394 at Stow, and 0.4 mi upstream from mouth. Drainage area is 9.06 mi^2.	1955-64§, 1965, 1967-68b, 1974‡, 1975-96	1-19-96	15.80	h	9-14-79	21.88	2,000

‡ Operated as a continuous-record gaging station.
§ Operated as a low-flow partial-record station.
b Miscellaneous measurements made.
e Estimated.
h Backwater.
i From floodmark.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1996 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
STREAMS TRIBUTARY TO LAKE ERIE								
Canadaway Creek at Fredonia, NY (04213376)	Lat 42°27'02", long 79°21'03", Chautauqua County, Hydrologic Unit 04120102, at bridge on Van Buren Road (Matteson Street), 0.8 mi northwest of Fredonia corporate boundary, and 1.2 mi upstream from Beaver Creek. Drainage area is 32.9 mi^2.	1962-63b, 1987-96	5-11-96 4- 5-87 4- 3-89 4-11-90 12-30-90 9-22-92 12-31-92 7-13-94 1-20-95	8.59 4.65 3.81 4.64 5.33 4.08 4.42 4.53 3.67	4,690 1,900 1,410 1,900 2,330 1,560 1,760 1,830 1,320	5-11-96	8.59	4,690
South Branch Cattaraugus Creek near Otto, NY (04213490)	Lat 42°21'54", long 78°48'04", Cattaraugus County, Hydrologic Unit 04120102, at highway bridge, 0.2 mi upstream from Mansfield Creek, 1.7 mi northeast of Otto, and 5.5 mi upstream from mouth. Drainage area is 25.1 mi^2.	1963-96	1-19-96	9.23	1,470	9-14-79	11.18	4,350
STREAMS TRIBUTARY TO NIAGARA RIVER								
Delaware Park Lake at Buffalo, NY (04216212)	Lat 42°56'03", long 78°52'28", Erie County, Hydrologic Unit 04120104, on north shore of Delaware Park Lake at downstream side of bridge on Scajaquada Expressway (SH 198), and 1.7 mi upstream from mouth of Scajaquada Creek. Drainage area is 1.14 mi^2.	1985-96	1-19-96	6.37	d	6-22-87	12.48	d
Scajaquada Creek below Delaware Park Lake at Buffalo, NY (04216214)	Lat 42°56'15", long 78°53'07", Erie County, Hydrologic Unit 04120104, on left bank, 400 ft east of Grant Street (North) exit from Scajaquada Expressway (SH 198), at Buffalo. Drainage area is 25.7 mi^2.	1985-96	1-19-96	6.19	d	6-22-87	11.20	d
Little Tonawanda Creek at Linden, NY (04216500)	Lat 42°52'37", long 78°09'48", Genesee County, Hydrologic Unit 041201041, on right bank at upstream side of bridge on, County Highway 13A (Depot Road) in Linden and 9.3 mi upstream from mouth. Drainage area is 22.1 mi^2.	1913-68‡, 1970-72‡, 1977-92‡, 1993-96	1-19-96	12.00	1,880	6-23-89	16.99	2,900
STREAMS TRIBUTARY TO LAKE ONTARIO								
Johnson Creek near Lyndonville, NY (04219900)	Lat 43°20'21", long 78°20'55", Orleans County, Hydrologic Unit 04130001, at bridge on Woodworth Road, 3.3 mi downstream from dam at Lyndonville, and 4.4 mi upstream from mouth. Drainage area is 87.7 mi^2.	1962-70, 1972-73, 1976-96	1-20-96	6.64	1,700	2-17-54 3-12-62	g 10.29	5,430 3,540
West Creek near Hilton, NY (04220250)	Lat 43°18'10", long 77°48'50", Monroe County, Hydrologic Unit 04130001, on right bank just downstream from bridge on Collamer Road, 0.5 mi north of Collamer, and 1.5 mi northwest of Hilton. Drainage area is 31.0 mi^2.	1958-64‡, 1971-72, 1986-96	1-19-96 6-23-89 5-17-90 4-22-91 3-27-92 4- 1-93 2-21-94 4-13-94 3-27-92	8.64 R8.70 R7.29 R8.82 R8.00 R8.13 Ra7.78 R7.43 R8.00	975 994 603 1,030 785 821 -- 636 785	3-30-60	10.67	1,480

‡ Operated as a continuous-record gaging station.
a Ice jam.
b Miscellaneous measurements made.
d No stage-discharge relationship defined at this site.
g None available.
R Revised.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1996 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
		STREAMS TRIBUTARY TO LAKE ONTARIO--Continued						
Slater Creek near Greece, NY (0422028490)	Lat 43°15'10", long 77°38'54", Monroe County, Hydrologic Unit, 04130001, on left bank about 25 ft upstream from bridge on Latta Road near Mt. Read Blvd., 4.3 mi east of North Greece, and 1.7 mi above mouth. Drainage area is 1.52 mi^2.	1989-96	6-12-96	4.02	145	6-24-93	4.30	171
Stony Brook tributary at South Dansville, NY (04224807)	Lat 42°28'16", long 77°40'21" Steuben County, Hydrologic Unit 04130002, at culvert on Willey Road, 0.6 mi upstream from mouth, and 0.9 mi west of South Dansville. Drainage area is 3.15 mi^2.	1977-82, 1984-91, 1996	1-19-96 3-30-93 3-27-94 3-7-95	11.31 R9.04 R9.29 R8.75	296 R78 a R60	8-3-81	15.89	790
Bear Creek at Ontario, NY (042320578)	Lat 43°13'30", long 77°17'00", Wayne County, Hydrologic Unit 04140101, at culvert on New Street in Ontario, 100 ft west of Furnaceville Road, and 4.0 mi upstream from mouth. Drainage area is 6.74 mi^2.	1971-73, 1975-96	5-11-96	12.74	170	4-2-93 12-29-84	12.97 13.33	194 a
Catharine Creek at Montour Falls, NY (04232200)	Lat 42°19'42", long 76°50'39", Schuyler County, Hydrologic Unit 04140201, on left bank 12 ft downstream from bridge on Town Road, 0.4 mi south of village line of Montour Falls, and 0.6 mi upstream from diversion channel. Drainage area is 41.1 mi^2.	1957-62§, 1964-66§, 1970§, 1976-77‡, 1987-96	1-19-96	7.66	2,610	1-19-96	7.66	2,610
Sugar Creek at Guyanoga, NY (04232460)	Lat 42°37'23", long 77°09'30", Yates County, Hydrologic Unit 04140201, at bridge on Sid White Road, 0.4 mi east of Guyanoga, and 2.3 mi upstream from mouth. Drainage area is 28.9 mi^2.	1966-96	1-19-96	5.88	900	1-19-96	5.88	900
Cayuga Inlet at Ithaca, NY (04233255)	Lat 42°25'38", long 76°31'19", Tompkins County, Hydrologic Unit 04140201, on upstream abutment face of flood-control weir, at east end of Burtt Place, south of Ithaca city line, 0.3 mi east of State Highway 13a, 0.9 mi downstream from Buttermilk Creek, and 2.4 mi upstream from mouth. Drainage area is 86.7 mi^2.	1971-72, 1975-96	1-19-96	14.67	12,500	1-19-96	14.67	12,500
Coy Glen Creek at Ithaca, NY (04233258)	Lat 42°25'45", long 76°31'18", Tompkins County, Hydrologic Unit 04140201, on right bank at double drop structure 200 ft upstream from mouth at Ithaca. Drainage area is 3.56 mi^2.	1983-96	1-19-96	22.23	820	1-19-96	22.23	820
Schaeffer Creek near Canandaigua, NY (04234138)	Lat 42°54'25", long 77°22'14", Ontario County, Hydrologic Unit 04140201, at culvert on McCann Road, 0.8 mi upstream from Mud Creek, 1.7 mi north of U.S. Highway 20, and 3.2 mi west of Canandaigua. Drainage area is 7.84 mi^2.	1980-96	5-12-96	11.55	230	3-5-79 3-30-93	g 12.84	520 332

‡ Operated as a continuous-record gaging station.
§ Operated as a low-flow partial-record station.
a Ice jam.
g None available.
R Revised.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 1996 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued								
Mud Creek at East Victor, NY (04234200)	Lat 42°58'28", long 77°22'58", Ontario County, Hydrologic Unit 04140201, on left bank, 25 ft downstream from bridge on State Highway 96 at East Victor, 0.3 mi upstream from Fish Creek, and 0.5 mi upstream from mouth. Drainage area is 64.2 mi^2.	1958-68‡, 1972, 1976-96	1-19-96	7.09	1,810	6-22-72 4-21-91	7.85 7.22	1,800 1,880
Canandaigua Outlet tributary near Alloway, NY (04235255)	Lat 43°00'21", long 77°00'54", Ontario County, Hydrologic Unit 04140201, at bridge on Pre-Emption Road, 0.5 mi south of Wayne-Ontario County line, 1.8 mi southwest of Alloway, and 2.9 mi upstream from mouth. Drainage area is 2.94 mi^2.	1978-96	1-19-96	7.34	102	1-19-96	7.34	102
Scriba Creek near Constantia, NY (04245840)	Lat 43°15'35" long 76°00'11", Oswego County, Hydrologic Unit 04140202, on right bank, 8 ft upstream from bridge on Cemetery Road, and about 0.8 mi north of village of Constantia. Drainage area is 38.4 mi^2.	1966-68‡, 1969, 1971-96	1-19-96	5.86	760	9-26-75 6-22-72	7.33 7.42	1,310 1,200
Catfish Creek at New Haven, NY (04249050)	Lat 43°29'00", long 76°19'34", Oswego County, Hydrologic Unit 04140102, at bridge on State Highway 104B, at New Haven, and 1.4 mi upstream from mouth. Drainage area is 31.7 mi^2.	1962-66, 1968-96	1-19-96	6.58	906	3-18-73	7.85	1,350

Discharge measurements made at miscellaneous sites during water year 1996

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements: Date	Measurements: Discharge (ft^3/s)
STREAMS TRIBUTARY TO LAKE ONTARIO						
04237936 Onondaga Creek	Onondaga Lake	Lat 42°51'18", long 76°08'15", Onondaga County, Hydrologic Unit 04140201, 1600 ft upstream of the collapsed Otisco Road bridge, 860 ft east of the main depression area, 1100 ft west of State Route 11A, and 0.3 mi southwest of Tully Valley	14.2	1992-95	8-29-96	7.12
04237944 Onondaga Creek Trib. No. 6	Onondaga Creek	Lat 42°51'13", long 76°08'34", Onondaga County, Hydrologic Unit 04140201, about 450 ft upstream of the main mudboil Depression area, 1,325 ft east of Tully Frams road, 2,000 ft south of Otisco road, and 4.2 mi northwest of Tully.	0.26	1992-94‡	11-17-94 4-26-95 9-20-95 1-11-96 2- 7-96 5- 2-96 5-14-96 5-17-96 8-29-96	0.306 0.375 0.020 1.54 0.494 1.18 1.81 0.952 0.064

‡ Operated as a continuous-record gaging station.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

STREAMS TRIBUTARY TO LAKE ONTARIO

430449077294201 CARTERSVILLE WASTE CHANNEL AT PITTSFORD, NY

LOCATION.--Lat 43°04'49", long 77°29'42", Hydrologic Unit 04140101, at Marsh road, 0.1 mi south of New York State Highway 31 and 0.25 mi north of Erie canal.
PERIOD OF RECORD.-- December 1984 to current year.
CHEMICAL DATA: 1984-86 (a), 1988-96 (a).
NUTRIENT DATA: 1984-86 (a), 1988-96 (a).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
MAY							
08...	0945	3.2	16	11.5	22	4	0.01
JUL							
10...	0945	2.2	15	7.7	28	3	0.03

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
MAY						
08...	0.45	0.70	0.055	0.011	64	55
JUL						
10...	0.39	1.1	0.050	<0.005	58	100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

STREAMS TRIBUTARY TO LAKE ONTARIO

430526077315201 EAST BRANCH ALLEN CREEK ABOVE ERIE CANAL SIPHON NEAR PITTSFORD, NY

LOCATION.--Lat 43°05'26", long 77°31'52", Hydrologic Unit 04140101, at North bank of Erie Canal, 0.5 mi west of State Highway 31.
PERIOD OF RECORD.--December 1984 to current year.
CHEMICAL DATA: 1984-86 (a), 1988-96 (a).
NUTRIENT DATA: 1984-86 (a), 1988-96 (a).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Health Laboratory at Rochester, N.Y.

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL 10...	1030	2.5	8.5	5.5	12	2	0.19

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
JUL 10...	0.60	0.93	0.050	<0.005	99	37

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

STREAMS TRIBUTARY TO LAKE ONTARIO

430526077315202 EAST BRANCH ALLEN CREEK BELOW ERIE CANAL SIPHON NEAR PITTSFORD, NY

LOCATION.--Lat 43°05'26", long 77°31'52", Hydrologic Unit 04140101, at North bank of Erie Canal, 0.5 mi west of State Highway 31.
PERIOD OF RECORD.--December 1984 to current year.
CHEMICAL DATA: 1984-86(a), 1988-96 (a).
NUTRIENT DATA: 1984-86 (a), 1988-96 (a).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Health Laboratory at Rochester, N.Y.

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL 10...	1020	2.7	18	7.9	32	3	0.06

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULPATE DIS-SOLVED (MG/L AS SO4) (00945)
JUL 10...	0.51	1.0	0.035	<0.005	61	98

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

STREAMS TRIBUTARY TO LAKE ONTARIO

430557077344402 ALLEN CREEK BELOW ERIE CANAL SIPHON NEAR ROCHESTER, NY

LOCATION.--Lat 43°05'57", long 77°34'44", Hydrologic Unit 04140101, at north bank of Erie Canal, 0.01 mi east of Winton Road.
PERIOD OF RECORD.--December 1984 to current year.
CHEMICAL DATA: 1984-86 (a), 1988-96 (a).
NUTRIENT DATA: 1984-86 (a), 1988-96 (a).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
MAY							
08...	1045	5.2	24	13.1	26	4	<0.01
JUL							
10...	1130	0.90	7.1	8.4	14	<3	0.04

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
MAY 1996						
08...	0.61	0.42	0.038	<0.002	190	53
JUL						
10...	0.23	0.62	0.050	<0.005	170	82

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

STREAMS TRIBUTARY TO LAKE ONTARIO

430557077344403 ALLEN CREEK AT ERIE CANAL SIPHON NEAR ROCHESTER, NY

LOCATION.--Lat 43°05'57", long 77°34'44", Hydrologic Unit 04140101, at north bank of Erie Canal, 0.01 mi east of Winton Road.
PERIOD OF RECORD.--December 1984 to current year.
CHEMICAL DATA: 1984-86 (a), 1988-96 (b).
NUTRIENT DATA: 1984-86 (a), 1988-96 (b).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y.

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
MAY							
08...	1100	1.9	60	16.2	56	5	0.01
JUL							
10...	1035	2.5	17	8.8	32	3	0.04
10...	1200	0.40	16	--	30	3	0.04

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
MAY 1996						
08...	0.94	0.68	0.060	0.009	56	50
JUL						
10...	0.31	1.0	0.110	<0.005	56	100
10...	0.22	0.96	0.058	<0.005	55	98

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD AND MISCELLANEOUS SITES

STREAMS TRIBUTARY TO LAKE ONTARIO

430605077262201 FAIRPORT WASTE CHANNEL AT FAIRPORT, NY

LOCATION.--Lat 43°06'05", long 77°26'22", Hydrologic Unit 04140101, at State Street, 0.15 mi east of New York State Highway 250, and 0.05 mi north of Erie canal.
PERIOD OF RECORD.-- December 1984 to current year.
CHEMICAL DATA: 1984-86 (a), 1988-96 (a).
NUTRIENT DATA: 1984-86 (a), 1988-96 (a).
COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, N.Y..

WATER QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
MAY							
08...	0905	0.14	2.9	9.3	4	<3	<0.01
JUL							
10...	0915	0.15	0.95	3.3	1	<1	0.14

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
MAY 1996						
08...	<0.01	0.87	0.040	0.015	110	83
JUL						
10...	0.44	0.41	0.050	<0.005	68	99

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

STREAMS TRIBUTARY TO LAKE ONTARIO

431510077363501 GENESEE RIVER AT CHARLOTTE PUMP STATION, NEAR ROCHESTER, NY

LOCATION.--Lat 43°15'10", long 77°36'35", Monroe County, Hydrologic Unit 04130003, at Charlotte, in Rochester, on west bank of the Genesee River, 1300 ft downstream of Stutson Street Bridge, 0.5 mi upstream of mouth, and 5.0 mi downstream from gaging station (04232000) at Rochester.

DRAINAGE AREA.--2,467 mi^2 at station 04232000.

PERIOD OF RECORD.--Water years 1990 to current year.
CHEMICAL DATA: 1990-96 (e).
NUTRIENT DATA: 1990-96 (e).

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT							
02-04	0935	0035	375	5.5	--	--	0.15
04-05	0135	1035	643	3.0	--	--	0.12
06-08	1115	1015	718	2.2	--	--	0.12
08-10	1115	1015	878	2.3	--	--	0.16
10-11	1030	0930	664	4.6	--	--	0.13
11-12	1030	0930	689	3.6	--	--	0.13
12-14	1000	0900	519	1.5	--	--	0.11
14-16	1000	0900	713	5.1	--	--	0.15
16-17	1010	2110	692	6.0	--	--	0.18
17-19	2210	0910	1420	4.2	--	--	0.16
19-21	1010	0910	1130	5.1	--	--	0.03
21-23	1010	0910	3750	14	--	--	0.07
23-24	1015	2115	5700	220	287	22	0.04
24-26	2215	0915	6300	310	412	31	0.05
26-28	1015	0915	4350	32	18	<5	0.03
28-30	1015	0915	1580	26	--	--	0.05
30-31	1000	2100	1330	9.5	--	--	0.06
OCT 31-							
NOV 02	2200	0900	1820	20	--	--	0.06
02-04	1005	0905	1670	8.7	--	--	0.03
04-06	1005	0905	1360	11	--	--	0.10
06-07	1000	2100	877	7.1	--	--	0.07
07-09	2200	0900	945	13	--	--	0.08
13-15	1005	0305	3180	36	56	6	0.05
17-18	1200	2300	3360	12	--	--	0.04
19-20	2400	1100	3090	9.3	--	--	0.03
21-22	1045	0845	3960	9.4	--	--	0.05
22-24	0925	2025	3880	12	--	--	0.02
24-27	2125	0825	2710	8.5	--	--	0.02
27-28	0950	1250	2340	10	--	--	0.02
NOV 30-							
DEC 02	0950	0850	5140	70	134	9	0.03
02-04	0950	0850	5230	60	96	6	0.03
04-05	0945	2045	2290	20	--	--	0.04
05-07	2145	0845	1360	12	--	--	0.05
07-08	0955	2055	1540	6.6	--	--	0.07
08-10	2155	0455	4290	19	--	--	0.07
11-12	1035	2135	2500	21	--	--	0.04
12-14	2235	0935	1800	12	--	--	0.07
14-16	1045	0945	1590	6.8	--	--	0.12
16-18	1045	0945	2480	7.5	--	--	0.10
18-20	0955	0855	1880	12	--	--	0.07
20-22	0955	0855	1380	7.2	--	--	0.12
22-24	1010	0910	1580	4.3	--	--	0.14
24-26	1010	0910	1720	4.3	--	--	0.11
27-29	2210	0910	1170	4.7	--	--	0.08
29-31	0955	0855	1170	2.7	--	--	0.18

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

STREAMS TRIBUTARY TO LAKE ONTARIO

431510077363501 GENESEE RIVER AT CHARLOTTE PUMP STATION, NEAR ROCHESTER, NY--continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
OCT						
02-04	0.52	1.10	0.095	0.052	46	100
04-05	0.42	1.20	0.075	0.049	47	100
06-08	0.56	0.86	0.055	0.042	44	83
08-10	0.56	0.73	0.055	0.041	49	110
10-11	0.66	0.62	0.055	0.033	61	150
11-12	0.60	0.66	0.055	0.034	61	110
12-14	0.58	0.78	0.055	0.038	50	92
14-16	0.48	0.81	0.190	0.041	43	88
16-17	0.48	1.10	0.100	0.057	49	100
17-19	0.44	1.10	0.085	0.048	52	110
19-21	0.59	0.69	0.060	0.035	52	110
21-23	0.42	0.80	0.080	0.130	41	75
23-24	<0.01	1.30	0.130	0.025	37	67
24-26	<0.01	0.88	0.160	0.058	39	52
26-28	0.44	0.96	0.065	0.020	32	51
28-30	0.45	0.97	0.060	0.022	30	61
30-31	0.58	0.99	0.050	0.028	36	78
OCT 31-						
NOV 02	0.69	0.88	0.070	0.023	36	68
02-04	0.56	1.10	0.050	0.028	57	82
04-06	0.49	1.10	0.065	0.035	47	84
06-07	0.52	0.85	0.055	0.029	52	96
07-09	0.52	0.88	0.060	0.023	67	100
13-15	0.48	0.77	0.190	0.020	47	81
17-18	0.58	0.95	0.045	0.014	49	66
19-20	0.54	1.10	0.040	0.012	57	71
21-22	0.65	1.30	0.045	0.016	60	73
22-24	0.70	0.24	0.055	0.074	51	72
24-27	0.72	0.05	0.045	0.019	49	74
27-28	0.62	1.50	0.040	0.016	45	78
NOV 30-						
DEC 02	0.60	1.60	0.140	0.015	37	54
02-04	0.34	1.30	0.100	0.012	30	44
04-05	0.76	1.50	0.055	0.013	33	53
05-07	0.55	1.60	0.040	0.014	38	73
07-08	0.90	1.87	0.045	0.017	46	96
08-10	0.67	1.53	0.045	0.016	50	76
11-12	0.18	1.20	0.055	0.011	28	45
12-14	0.37	1.10	0.030	0.010	31	52
14-16	0.59	1.00	0.040	0.014	61	78
16-18	0.56	1.30	0.050	0.018	66	88
18-20	0.63	1.50	0.055	0.019	51	74
20-22	0.48	1.40	0.040	0.016	54	77
22-24	0.63	1.30	0.030	0.016	55	82
24-26	0.68	1.30	0.025	0.015	51	80
27-29	<0.01	1.20	0.020	0.012	61	85
29-31	0.79	1.40	0.030	0.015	60	99

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

STREAMS TRIBUTARY TO LAKE ONTARIO

431510077363501 GENESEE RIVER AT CHARLOTTE PUMP STATION, NEAR ROCHESTER, NY--continued

WATER YEAR-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
DEC 31-JAN 02	0955	0855	1250	5.1	--	--	0.17
02-03	1005	1105	1120	6.6	--	--	0.15
04-06	1040	0940	656	2.0	--	--	0.19
06-08	1040	0940	605	2.4	--	--	0.16
08-10	0955	0855	1020	2.0	--	--	0.15
10-12	0955	0855	873	2.0	--	--	0.14
12-14	0945	0845	891	2.2	--	--	0.14
14-16	0945	0845	1000	3.2	--	--	0.19
16-18	0950	0850	1170	2.3	--	--	0.18
18-19	0935	0635	3800	3.4	--	--	0.10
22-23	1025	2125	8450	220	295	21	0.10
23-25	2225	1025	8700	460	677	40	0.07
25-27	0940	0040	9850	500	662	47	0.10
27-28	0140	1940	8790	520	662	45	0.09
29-30	0950	2050	9420	450	592	39	0.08
JAN 30-FEB 01	2150	0850	8620	400	461	33	0.12
01-03	0950	0050	7930	340	365	24	0.12
03-04	0150	1830	7460	270	265	18	0.09
05-06	0955	2055	7500	210	174	12	0.08
06-08	2155	0855	7950	220	2	14	0.07
08-10	1000	0900	7280	200	280	20	0.08
10-12	1000	0900	4430	80	69	6	0.11
12-14	1110	1010	2060	37	53	5	0.14
14-16	1110	0910	1470	20	--	--	0.21
16-18	0935	0835	1120	16	--	--	0.25
18-20	0935	0835	1070	12	--	--	0.23
20-22	1010	0910	3330	16	--	--	0.21
22-24	1025	0125	5730	55	94	8	0.36
24-25	0225	1625	8380	75	169	10	0.15
26-27	1020	2120	8780	150	254	16	0.11
27-29	2220	0920	7970	170	261	16	0.08
FEB 29-MAR 02	0955	0855	6570	90	140	9	0.08
02-04	0955	0855	5070	110	147	9	0.07
04-05	0955	2055	3550	60	106	6	0.06
05-07	2155	0855	2510	80	150	8	0.09
07-09	1020	0920	3150	90	238	13	0.12
09-11	1020	0920	2280	55	72	<5	0.10
11-12	0945	2045	2420	34	--	--	0.12
12-14	2145	0845	2010	41	--	--	0.14
14-16	0945	0845	3510	25	--	--	0.14
16-18	0945	0845	5440	80	--	--	0.11
18-19	1015	2115	6160	110	--	--	0.07
21-22	1000	1700	8990	130	--	--	0.03
22-24	1800	0100	7780	140	--	--	0.03
24-25	0200	0900	6030	95	--	--	0.04
25-26	0950	2050	5820	50	--	--	0.04
26-28	2150	0850	7150	110	--	--	0.06
28-30	1000	0900	6090	240	295	17	0.06
MAR 30-APR 01	1000	0900	4650	50	86	6	0.06
01-02	0950	2050	4070	27	--	--	0.06
02-04	2150	0850	3710	30	49	<5	0.06
04-06	0945	0845	3460	28	--	--	0.05
06-08	0945	0845	3760	31	60	<5	0.05
08-09	0945	2045	3360	18	--	--	0.04
09-11	2145	0845	2830	14	--	--	0.06
11-13	0945	0845	2840	11	--	--	0.09
15-16	0955	0855	11000	300	462	27	0.03
16-17	0955	0855	8210	140	251	14	0.03
17-18	0955	0855	8210	360	--	--	0.04
18-19	0950	1650	8700	420	554	33	0.02

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

STREAMS TRIBUTARY TO LAKE ONTARIO

431510077363501 GENESEE RIVER AT CHARLOTTE PUMP STATION, NEAR ROCHESTER, NY--continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
DEC 31-JAN 02	0.64	1.50	0.040	0.019	65	100
02-03	0.60	1.40	0.055	0.022	67	100
04-06	0.82	1.50	0.040	0.025	66	100
06-08	0.64	1.30	0.035	0.021	62	96
08-10	0.98	1.40	0.045	0.030	68	120
10-12	0.90	1.50	0.040	0.025	72	130
12-14	0.51	1.50	0.035	0.023	77	120
14-16	0.55	1.50	0.040	0.025	82	120
16-18	0.58	1.50	0.040	0.030	77	120
18-19	0.78	1.40	0.050	0.018	130	100
22-23	1.4	2.00	0.130	0.095	47	48
23-25	1.7	1.60	0.530	0.020	52	43
25-27	1.8	1.70	0.580	0.023	39	39
27-28	0.96	1.50	0.570	0.018	40	35
29-30	1.4	1.50	0.520	0.017	31	32
JAN 30-FEB 01	0.53	1.60	0.460	0.028	28	31
01-03	0.44	1.60	0.430	0.018	26	31
03-04	0.96	1.60	0.240	0.015	26	30
05-06	0.55	1.50	0.045	0.012	22	29
06-08	0.48	1.40	0.045	0.011	25	28
08-10	0.73	1.40	0.045	0.016	37	34
10-12	0.82	1.80	0.110	0.018	38	46
12-14	0.76	2.00	0.090	0.021	51	69
14-16	0.76	2.10	0.065	0.021	61	89
16-18	0.63	2.10	0.055	0.025	65	100
18-20	0.71	2.10	0.055	0.026	68	110
20-22	0.72	1.90	0.085	0.030	98	93
22-24	1.3	1.70	0.190	<0.005	59	55
24-25	0.86	1.70	0.160	0.026	48	48
26-27	1.0	1.30	0.180	0.018	33	34
27-29	0.96	1.20	0.160	0.014	33	36
FEB 29-MAR 02	0.80	1.20	0.140	0.015	33	38
02-04	0.68	1.20	0.100	0.015	32	42
04-05	0.46	1.30	0.120	0.012	35	46
05-07	0.58	1.50	0.150	0.012	47	60
07-09	0.72	1.60	0.075	0.013	51	61
09-11	0.60	1.30	0.082	0.013	52	60
11-12	0.53	1.50	0.085	0.014	52	68
12-14	0.53	1.50	0.100	0.015	56	70
14-16	0.67	1.50	0.110	0.019	73	78
16-18	1.0	1.80	0.180	0.029	56	58
18-19	0.86	1.50	0.190	0.016	41	45
21-22	0.43	1.50	0.270	0.016	54	41
22-24	0.49	1.40	0.210	0.014	48	41
24-25	0.60	1.30	0.130	0.013	45	43
25-26	0.42	1.40	0.085	0.012	48	46
26-28	0.42	1.50	0.130	0.013	43	45
28-30	0.56	1.20	0.270	0.011	32	40
MAR 30-APR 01	0.44	1.30	0.090	0.014	32	44
01-02	1.5	1.40	0.045	0.012	34	50
02-04	0.68	1.40	0.055	0.011	36	53
04-06	0.96	1.40	0.045	0.007	40	56
06-08	0.46	1.40	0.065	0.011	47	60
08-09	0.44	1.20	0.045	<0.005	46	61
09-11	0.48	1.40	0.040	<0.005	47	66
11-13	0.59	1.30	0.040	0.011	51	67
15-16	0.60	1.60	0.300	0.014	35	41
16-17	0.96	1.60	0.230	0.014	40	47
17-18	0.68	1.50	0.340	0.012	36	44
18-19	0.34	1.30	0.160	0.011	30	37

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

STREAMS TRIBUTARY TO LAKE ONTARIO

431510077363501 GENESEE RIVER AT CHARLOTTE PUMP STATION, NEAR ROCHESTER, NY--continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
APR-continued							
19-21	1750	0050	8540	310	462	30	0.02
21-22	0150	0850	8660	280	364	21	0.03
22-23	1010	0610	8460	210	--	--	0.03
25-26	1005	0905	10700	130	--	--	0.06
26-27	1005	1305	9650	100	--	--	0.02
29-30	0950	1150	6920	100	170	15	0.03
MAY							
02-03	1000	1300	8100	60	157	13	<0.01
03-04	1400	1700	8220	55	110	8	<0.01
04-05	1800	2100	8450	150	228	16	<0.01
06-07	1000	2100	8540	90	--	--	0.02
07-09	2200	0900	7910	50	--	--	0.02
09-12	1015	0515	8870	75	161	11	0.01
13-14	1000	0900	13500	110	302	21	0.02
14-15	1000	0900	11300	95	188	12	0.02
15-16	1000	0900	10500	160	235	15	0.01
16-18	0945	0045	9500	0.70	249	15	0.01
18-20	0145	2045	9360	210	267	16	<0.01
20-21	1000	0900	9100	120	194	13	0.04
24-26	0955	1255	8790	75	127	10	0.07
28-29	0955	0455	6490	40	--	--	0.04
MAY 30-JUN 01	1020	0920	2130	25	--	--	0.09
01-03	1020	0920	1600	15	--	--	0.09
06-08	1010	0910	1490	11	--	--	0.06
08-10	1010	0910	1890	11	--	--	0.06
10-11	1010	2110	2030	7.1	--	--	0.03
11-13	2210	0910	2390	13	--	--	0.06
13-15	1025	0925	2740	12	--	--	0.03
15-17	1025	0925	1670	7.9	--	--	0.04
17-18	1005	2105	1280	14	--	--	0.07
18-20	2205	0905	1440	14	--	--	0.07
20-22	1015	0915	4560	35	--	--	0.04
22-24	1015	0915	4990	36	--	--	0.04
24-25	1035	2135	2940	24	--	--	0.06
25-27	2235	0935	1880	16	--	--	0.10
27-29	0950	0850	1520	4.6	--	--	0.10
JUN 29-JUL 01	0950	0850	1700	6.9	--	--	0.06
01-03	1015	0915	1900	9.0	--	--	0.09
03-05	1015	0915	1370	12	--	--	0.15
05-06	0950	2050	1240	7.9	--	--	0.09
06-08	2150	0950	950	7.5	--	--	0.10
08-09	1015	2115	1050	6.3	--	--	0.08
09-11	2215	0915	773	6.6	--	--	0.10
11-13	0935	0835	841	3.8	--	--	0.10
13-15	0935	0835	688	5.6	--	--	0.13
15-16	1035	2135	760	5.6	--	--	0.08
16-18	2235	0935	825	4.3	--	--	0.10
18-20	1005	0805	1200	3.7	--	--	0.03
20-22	0905	0805	891	5.3	--	--	0.07
22-23	1015	2115	849	5.6	--	--	0.10
23-25	2215	0915	729	6.3	--	--	0.16
25-27	0950	0850	693	2.8	--	--	0.05
27-29	0950	0850	636	3.3	--	--	0.10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

STREAMS TRIBUTARY TO LAKE ONTARIO

431510077363501 GENESEE RIVER AT CHARLOTTE PUMP STATION, NEAR ROCHESTER, NY--continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
APR-continued						
19-21	0.28	1.20	0.150	0.011	36	34
21-22	0.72	1.20	0.120	0.012	31	35
22-23	0.84	1.10	0.240	0.014	30	36
25-26	0.43	1.40	0.240	0.054	39	42
26-27	0.32	1.30	0.160	0.015	36	41
29-30	0.41	1.10	0.340	0.014	30	37
MAY						
02-03	0.64	1.10	0.130	0.014	33	40
03-04	0.45	1.10	0.095	0.014	34	40
04-05	0.76	0.90	0.200	0.044	17	36
06-07	0.30	0.89	0.120	0.011	28	37
07-09	0.41	0.96	0.080	0.010	29	38
09-12	0.36	0.93	0.190	0.016	31	38
13-14	0.62	0.89	0.290	0.020	31	37
14-15	0.55	0.87	0.170	0.028	31	37
15-16	0.40	0.81	0.210	0.013	29	35
16-18	0.48	0.83	0.130	0.014	26	34
18-20	0.33	0.77	0.210	0.012	22	32
20-21	0.64	0.76	0.190	0.018	27	37
24-26	0.61	0.88	0.130	0.016	25	33
28-29	0.37	0.87	0.075	0.012	25	37
MAY 30-JUN 01	0.67	0.90	0.120	0.010	38	57
01-03	0.64	1.10	0.015	0.012	38	67
06-08	0.36	<0.01	0.035	0.016	51	92
08-10	0.23	1.20	0.045	0.017	68	100
10-11	0.35	1.20	0.070	0.019	57	98
11-13	0.49	1.20	0.075	0.022	50	84
13-15	0.46	0.87	0.065	0.023	50	86
15-17	0.43	1.00	0.070	0.027	53	88
17-18	0.46	0.99	0.100	0.026	49	83
18-20	0.54	1.10	0.075	0.027	56	95
20-22	0.42	1.20	0.190	0.041	45	72
22-24	0.83	1.10	0.120	0.042	37	63
24-25	0.68	1.00	0.050	0.047	38	61
25-27	0.63	1.10	0.045	0.046	43	77
27-29	0.47	1.30	0.165	0.038	53	88
JUN 29-JUL 01	0.49	1.10	0.090	0.037	57	88
01-03	0.75	1.10	0.035	0.032	53	89
03-05	0.56	0.99	0.045	0.038	53	81
05-06	0.59	1.10	0.045	0.035	55	88
06-08	0.51	1.20	0.040	0.032	58	94
08-09	0.57	1.20	0.070	0.036	63	98
09-11	0.50	1.20	0.065	0.033	63	110
11-13	0.32	1.20	<0.005	0.043	63	110
13-15	0.38	0.94	<0.005	0.048	67	110
15-16	0.40	0.78	<0.005	0.039	60	95
16-18	0.45	0.81	<0.005	0.025	59	120
18-20	0.33	0.95	0.065	0.026	62	110
20-22	0.78	0.95	0.055	0.024	66	120
22-23	1.3	0.91	0.060	0.023	60	110
23-25	0.88	1.00	0.065	0.032	53	120
25-27	<0.01	1.00	0.055	0.031	53	100
27-29	<0.01	1.00	0.060	0.025	49	98

STREAMS TRIBUTARY TO LAKE ONTARIO

431510077363501 GENESEE RIVER AT CHARLOTTE PUMP STATION, NEAR ROCHESTER, NY--continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	ENDING TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	TUR-BID-ITY (NTU) (00076)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
JUL 29-							
AUG 01	1005	0905	640	7.0	--	--	0.11
01-03	1025	0925	750	7.1	--	--	0.08
03-05	1025	0925	682	5.7	--	--	0.11
05-06	1000	2100	659	6.2	--	--	0.02
06-08	2200	0900	574	8.0	--	--	0.09
08-10	1005	0905	1020	3.1	19	5	0.23
10-12	1005	0905	1730	4.7	14	5	0.19
12-13	1005	2105	866	7.0	--	--	0.10
13-15	2205	0905	489	8.5	--	--	0.15
15-17	1015	0915	483	4.5	10	8	0.26
17-19	1015	0915	621	3.9	--	--	0.24
19-20	1010	2110	533	2.4	--	--	0.10
20-22	2210	0910	439	2.7	--	--	0.17
22-24	1005	0905	484	2.8	--	--	0.18
24-26	1005	0905	446	2.8	--	--	0.17
26-27	1010	1510	484	6.7	--	--	0.17
SEP							
04-04	1040	2140	445	3.2	--	--	0.12
05-07	1010	1310	382	5.7	15	<5	0.10
09-10	1025	2125	360	2.2	--	--	0.12
10-12	2225	0925	345	2.0	--	--	0.10
12-14	1015	0915	740	2.5	--	--	0.03
14-16	1015	0915	2060	5.1	--	--	0.10
16-17	1000	2100	1310	12	--	--	0.31
17-19	2200	0900	1320	29	--	--	0.28
19-21	1025	0925	2520	10	--	--	0.15
21-23	1025	0925	1140	35	57	5	0.15
23-24	1015	2115	865	7.1	--	--	0.13
24-26	2215	0915	579	7.0	--	--	0.18
26-28	1035	0935	750	4.6	--	--	0.13
28-30	1035	0935	1340	4.4	--	--	0.14
SEP 30-							
OCT 01	1025	2125	2890	3.3	--	--	<0.01

STREAMS TRIBUTARY TO LAKE ONTARIO

431510077363501 GENESEE RIVER AT CHARLOTTE PUMP STATION, NEAR ROCHESTER, NY--continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
JUL 29-AUG 01	0.51	0.86	0.070	0.024	50	89
01-03	0.47	0.84	0.060	0.020	48	110
03-05	0.34	0.92	0.070	0.018	38	130
05-06	<0.01	0.84	0.055	0.011	57	120
06-08	<0.01	0.80	0.065	0.010	51	100
08-10	0.86	0.80	0.090	0.029	47	100
10-12	0.48	0.89	0.070	0.032	54	130
12-13	0.50	0.81	0.065	0.030	59	98
13-15	0.50	0.91	0.075	0.031	48	95
15-17	0.90	0.95	0.065	0.032	46	87
17-19	0.68	0.91	0.075	0.041	47	85
19-20	0.67	0.90	0.090	0.041	48	92
20-22	0.54	0.90	0.090	0.045	51	100
22-24	0.68	0.76	0.080	0.039	54	100
24-26	0.41	0.67	0.070	0.038	49	95
26-27	0.82	0.68	0.080	0.043	48	96
SEP 04-04	<0.01	0.60	0.065	<0.002	52	100
05-07	0.55	0.60	0.065	0.016	52	100
09-10	0.46	0.75	0.045	0.028	51	100
10-12	0.38	0.98	0.085	0.040	52	110
12-14	0.25	0.92	0.065	0.033	51	100
14-16	0.24	0.91	0.055	0.039	56	120
16-17	0.29	0.82	0.075	0.037	36	55
17-19	0.38	0.72	0.100	0.045	57	92
19-21	0.42	0.83	0.075	0.048	63	81
21-23	0.50	0.69	0.110	0.036	46	64
23-24	0.59	0.78	0.060	0.033	95	70
24-26	0.76	0.87	0.065	0.039	100	81
26-28	0.53	0.95	0.055	0.035	90	98
28-30	0.50	1.00	0.060	0.036	89	100
SEP 30-OCT 01	0.35	0.83	0.045	0.031	49	90

420530078445201. Local number, Ct 121.

LOCATION.--Lat 42°05'30", long 78°44'52", Hydrologic Unit 05010001, near Red House. Owner: New York State Department of Environmental Conservation.

AQUIFER.--Confined aquifer in sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in, depth 53 ft, cased to 53 ft, open end.

INSTRUMENTATION.--Electronic data recorder--60-minute average. Prior to Mar. 5, 1990, weekly float tape readings by observer; periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 1,467.08 ft above sea level. Measuring point: Top of casing, 0.28 ft above land-surface datum.

REMARKS.--Well is in a New York State owned and operated campground area. Extreme low water levels occurred from 1969 to 1979 due to the effect of pumping at the campground area. A central water system for the campground, utilizing a well about 1.5 mi from the observation well was put in operation in 1980.

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

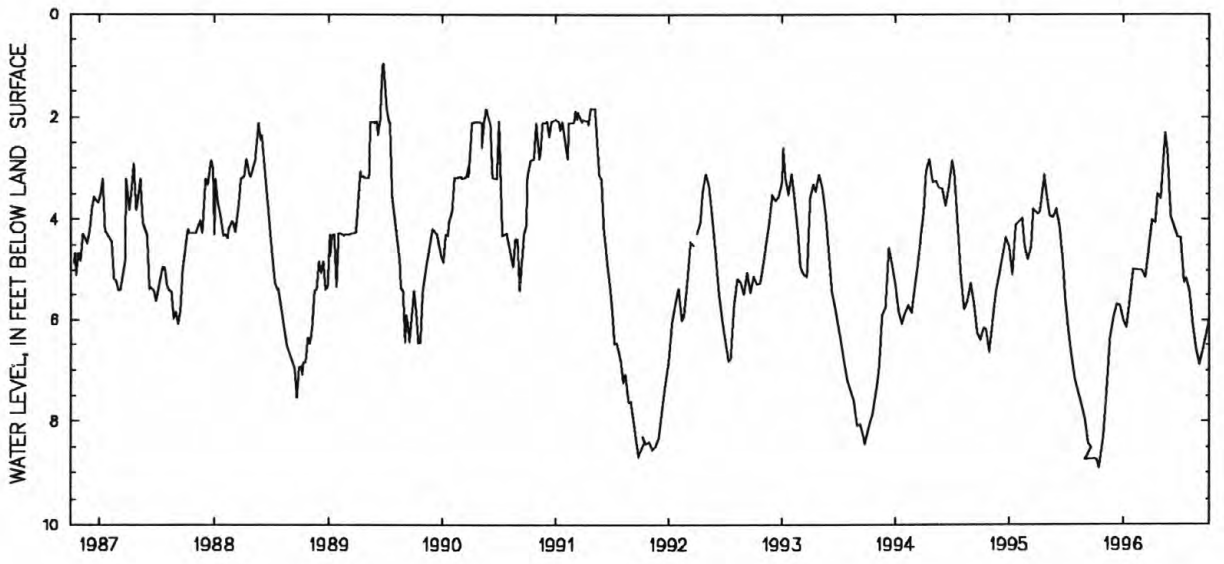
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.97 ft below land-surface datum, June 26, 1989; lowest measured, 34.87 ft below land-surface datum, Nov. 21, 1972.

EXTREMES FOR CURRENT YEAR.--Highest water level recorded, 2.31 ft below land-surface datum, May 12; lowest recorded, 8.91 ft below land-surface datum, Oct. 17.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.63	8.18	5.66	5.97	5.13	4.86	4.07	---	4.06	4.50	5.49	6.92
2	8.68	7.92	6.01	5.98	5.22	4.68	4.15	3.20	4.11	4.51	5.60	6.96
3	8.67	7.94	5.78	5.87	5.26	4.94	4.03	3.12	4.14	4.54	5.72	7.01
4	8.71	8.01	5.91	6.25	5.32	5.16	3.99	3.07	4.22	4.70	5.82	7.04
5	---	7.97	5.79	6.40	5.26	---	4.20	3.13	4.46	4.90	5.89	7.11
6	---	7.79	5.77	6.32	5.37	---	4.11	3.17	4.56	4.96	5.94	7.09
7	8.66	---	5.81	6.07	5.19	---	4.06	3.20	4.53	4.95	5.97	---
8	8.75	7.53	5.92	5.96	---	4.70	4.12	3.08	4.66	4.90	---	---
9	8.76	7.62	5.72	5.95	---	4.95	4.09	---	4.78	4.98	---	---
10	8.74	7.40	5.68	6.16	---	5.15	4.06	---	---	5.23	6.10	---
11	8.77	---	5.74	6.21	---	4.99	4.04	---	---	5.34	6.18	---
12	8.76	---	5.94	5.98	5.43	4.70	---	---	4.71	5.29	6.19	---
13	8.71	7.03	6.10	6.03	5.43	4.57	---	2.38	4.71	5.18	6.22	---
14	---	6.83	5.83	6.13	5.15	---	---	2.49	4.75	5.29	6.31	---
15	8.55	6.56	5.95	6.53	5.42	---	3.58	2.46	4.82	---	---	6.56
16	8.71	6.83	5.95	6.44	5.56	4.48	3.42	2.42	4.87	5.37	6.36	6.52
17	8.82	6.85	6.11	6.30	5.43	4.41	3.61	2.45	4.86	5.33	6.44	---
18	8.70	6.61	5.99	6.12	5.59	4.35	3.67	2.53	---	5.28	6.52	---
19	8.72	6.61	5.75	---	5.72	---	3.61	2.63	---	---	6.60	6.37
20	---	6.37	5.71	---	---	---	3.51	2.67	4.34	5.17	6.58	6.31
21	---	6.21	5.77	5.76	---	4.15	3.74	2.77	4.35	5.14	6.56	6.21
22	8.53	6.31	5.89	5.60	---	4.20	3.66	2.96	---	5.06	6.59	---
23	8.55	6.28	5.94	5.34	---	4.35	---	3.10	4.35	5.05	6.57	---
24	8.37	6.46	5.93	---	---	4.45	3.53	3.27	4.22	5.11	6.63	6.11
25	8.44	6.19	5.88	---	---	---	3.25	3.36	4.35	5.13	6.63	6.18
26	8.31	6.01	5.94	5.35	5.15	4.40	3.17	3.35	4.47	5.22	6.65	6.25
27	8.14	5.84	6.04	---	---	4.54	3.50	3.41	4.44	5.36	6.72	---
28	8.18	---	6.21	---	---	4.26	3.60	3.47	4.43	5.43	6.80	---
29	---	6.14	6.29	4.99	5.01	4.13	---	3.58	4.41	5.40	6.81	---
30	---	5.96	6.22	4.98	---	4.17	---	3.80	4.35	5.23	6.88	5.99
31	8.30	---	6.01	4.98	---	4.01	---	3.95	---	5.43	6.90	---
MEAN	---	---	5.91	---	---	---	---	---	---	---	---	---
MAX	---	---	6.29	---	---	---	---	---	---	---	---	---
MIN	---	---	5.66	---	---	---	---	---	---	---	---	---

420530078445201. Local number, Ct 121--Continued.



420829076484801. Local number, Cm 46.

LOCATION.--Lat 42°08'29", long 76°48'48", Hydrologic Unit 02050105, near Horseheads. Owner: Unknown.

AQUIFER.--Unconfined aquifer in sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused well, diameter 6 inch, depth 34 ft, cased to 34 ft, open end.

INSTRUMENTATION.--Electronic data recorder--60-minute average.

DATUM.--Elevation of land-surface datum is 885.69 ft above sea level. Measuring point: Top of pipe flange, 3.44 ft above land-surface datum.

REMARKS.--Water level affected by stage of Newtown Creek.

PERIOD OF RECORD.--October 1955 to current year. Records for October 1955 to September 1976 are unpublished and available in files of the Geological Survey.

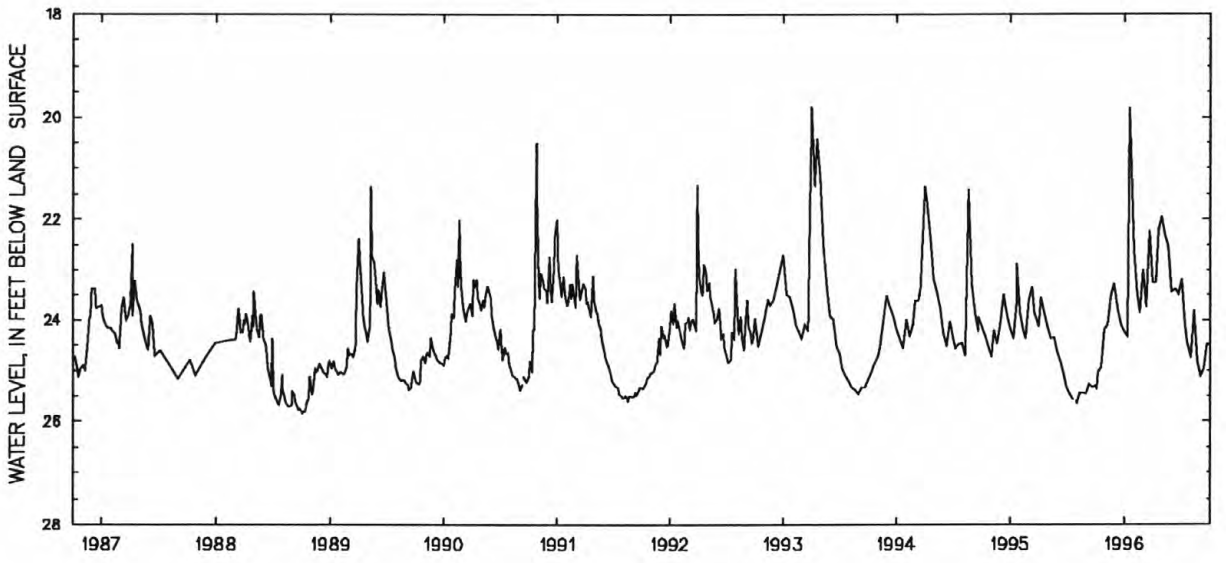
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.93 ft below land-surface datum, April 25, 1961; lowest measured, 26.30 ft below land-surface datum, July 18, 1980.

EXTREMES FOR CURRENT YEAR.--Highest water level recorded was less than 19.81 ft below land-surface datum, Jan. 19; lowest water level recorded, 25.35 ft below land-surface datum, Oct. 4, 5.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.31	24.23	23.39	24.26	22.82	23.21	23.25	21.62	23.52	23.46	24.76	25.13
2	25.32	24.24	23.27	24.26	22.93	23.31	23.27	22.03	23.58	23.34	24.79	25.14
3	25.33	24.20	23.39	24.27	23.05	23.37	23.30	22.29	23.64	23.29	24.83	25.15
4	25.35	24.15	23.45	24.29	23.14	23.50	23.28	22.41	23.69	23.46	24.85	25.15
5	25.32	24.16	23.49	24.29	23.24	23.53	23.24	22.49	23.74	23.64	24.89	25.16
6	25.04	24.16	23.56	24.30	23.31	23.53	23.31	22.53	23.79	23.78	24.90	25.16
7	25.03	24.14	23.62	24.31	23.38	23.58	23.33	22.56	23.83	23.86	24.92	25.11
8	25.08	24.07	23.70	24.31	23.43	23.66	23.33	22.69	23.82	23.95	24.78	25.06
9	25.08	24.09	23.75	24.32	23.46	23.71	23.33	22.76	23.50	24.03	23.80	25.08
10	25.03	24.12	23.81	24.33	23.49	23.74	23.26	22.31	23.39	24.12	23.81	24.97
11	25.08	24.13	23.89	24.34	23.51	23.78	23.30	20.45	23.44	24.20	24.13	25.01
12	25.10	23.56	23.94	24.34	23.54	23.79	23.20	19.82	23.66	24.26	24.30	25.03
13	25.09	23.61	23.99	24.33	23.60	23.77	21.41	20.32	23.70	24.31	24.42	24.89
14	25.03	23.68	24.02	24.33	23.64	23.49	20.73	21.02	23.79	24.24	24.51	24.75
15	24.69	23.61	24.03	24.33	23.67	22.81	21.31	21.46	23.88	24.06	24.59	24.83
16	24.70	23.60	24.04	24.36	23.71	22.84	21.23	21.77	23.96	24.17	24.62	24.88
17	24.78	23.61	24.05	24.36	23.76	23.13	21.21	22.01	24.00	24.28	24.63	24.74
18	24.86	23.62	24.07	24.25	23.78	23.27	21.69	22.21	23.91	24.34	24.69	24.29
19	24.91	23.61	24.07	---	23.84	23.29	22.00	22.38	23.73	24.38	24.75	24.34
20	24.94	23.53	24.11	---	23.86	22.24	22.21	22.53	23.50	24.44	24.81	24.47
21	23.10	23.41	24.12	---	23.29	22.11	22.29	22.57	23.11	24.49	24.85	24.57
22	22.01	23.39	24.13	---	23.16	22.42	22.44	22.58	21.86	24.53	24.89	24.63
23	22.98	23.44	24.15	20.98	23.26	22.71	22.53	22.73	22.54	24.53	24.92	24.68
24	23.43	23.51	24.16	21.48	22.81	22.94	22.41	22.85	22.86	24.58	24.94	24.72
25	23.65	23.57	24.16	21.69	22.75	22.98	22.46	22.96	23.10	24.61	24.97	24.74
26	23.79	23.62	24.17	22.05	22.98	22.85	22.54	23.06	23.32	24.61	25.00	24.75
27	23.90	23.67	24.20	22.08	23.14	22.97	22.51	23.15	23.51	24.66	25.03	24.78
28	23.98	23.24	24.21	21.93	23.02	23.11	22.66	23.22	23.64	24.69	25.06	24.77
29	24.03	23.00	24.23	22.29	23.00	23.18	22.60	23.29	23.19	24.71	25.08	24.46
30	24.11	23.28	24.25	22.49	---	23.21	21.95	23.37	23.20	24.73	25.09	24.47
31	24.18	---	24.25	22.64	---	23.25	---	23.45	---	24.75	25.12	---
MEAN	24.52	23.74	23.92	---	23.33	23.20	22.52	22.29	23.48	24.21	24.73	24.83
MAX	25.35	24.24	24.25	---	23.86	23.79	23.33	23.45	24.00	24.75	25.12	25.16
MIN	22.01	23.00	23.27	---	22.75	22.11	20.73	19.82	21.86	23.29	23.80	24.29

420829076484801. Local number, Cm 46--Continued.



421556075281602. Local number, Cn 12.

LOCATION.--Lat 42°15'56", long 75°28'16", Hydrologic Unit 02050101, 400 ft south of intersection of County Highways 39 and 12, 0.5 mi east of Susquehanna River, and 2.0 mi south of Bainbridge. Owner: Ilse Maehlman.

AQUIFER.--Unconfined aquifer in gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 inch, depth 13 ft, cased to 13 ft, open end.

INSTRUMENTATION.--Digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 979.28 ft above sea level. Measuring point: File mark at top of shelter base, 1.37 ft above land-surface datum.

REMARKS.--This well drilled April 1974 as a replacement for 421556075281601 (local number Cn 11), located 90 ft north, which has a period of record from October 1965 to September 1972 (unpublished).

PERIOD OF RECORD.--April 1975 to current year. Records for April 1975 to September 1976 are unpublished and available in files of the Geological Survey.

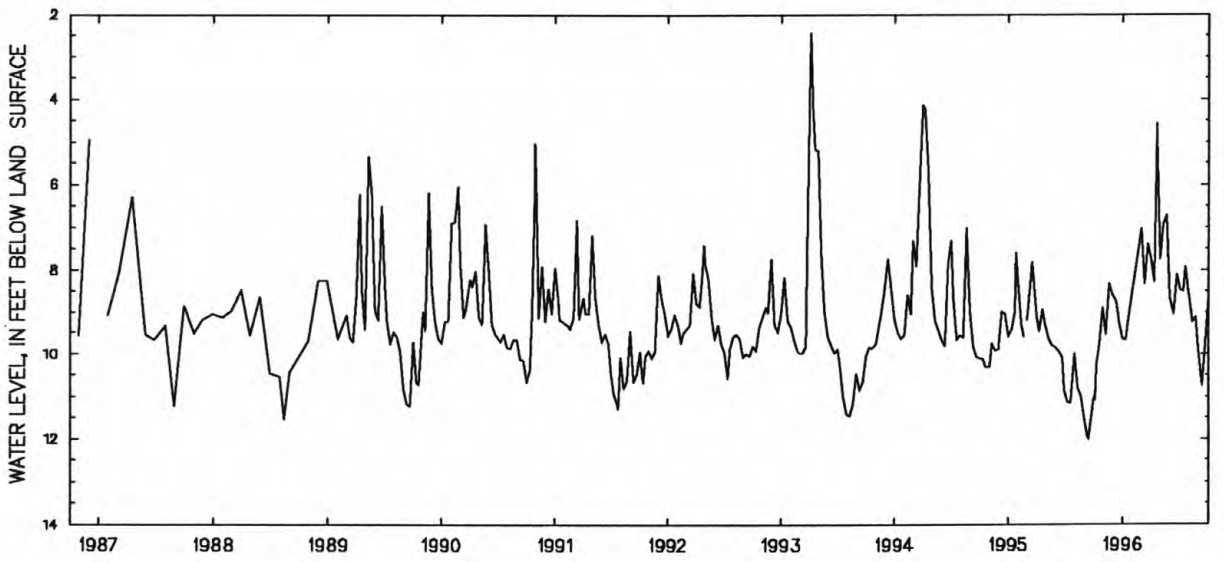
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.45 ft below land-surface datum, Apr. 3-4, 1993; lowest, 11.81 ft below land-surface datum, Sept. 26-29, 1982.

EXTREMES FOR CURRENT YEAR.--Highest water level recorded, 4.56 ft below land-surface datum, Apr. 18; lowest, 11.09 ft below land-surface datum, Oct. 6.

WATER LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.00	9.00	8.57	9.66	---	7.04	7.87	7.35	8.75	8.51	8.70	10.17
2	10.99	9.10	8.55	9.68	---	7.07	7.98	6.74	8.83	8.53	8.71	10.27
3	11.01	9.18	8.54	9.70	---	7.16	8.06	6.37	8.90	8.56	8.71	10.36
4	11.03	9.25	8.54	9.73	---	7.35	8.12	6.26	8.97	8.60	8.75	10.46
5	11.07	9.31	8.56	9.75	---	7.58	8.15	6.31	9.02	8.62	8.81	10.54
6	11.08	9.36	8.58	9.76	---	7.81	8.18	6.44	9.06	8.56	8.88	10.62
7	10.98	9.40	8.60	9.75	---	8.00	8.23	6.56	9.09	8.47	8.96	10.68
8	10.73	9.45	8.63	9.73	---	8.12	8.28	6.66	9.12	8.43	9.05	10.73
9	10.46	9.50	8.68	9.70	---	8.22	8.31	6.77	9.12	8.45	9.16	10.74
10	10.27	9.53	8.74	9.68	---	8.33	8.28	6.92	9.06	8.52	9.24	10.74
11	10.15	9.56	8.81	9.67	---	8.41	8.19	7.02	9.00	8.61	9.18	10.71
12	10.07	9.58	8.88	9.67	---	8.47	8.11	---	8.95	8.70	9.06	10.65
13	10.02	9.53	8.95	9.68	---	8.52	8.04	---	8.91	8.78	9.00	10.61
14	9.99	9.38	9.00	9.69	---	8.56	7.28	---	8.77	8.76	9.02	10.61
15	9.98	9.19	9.05	9.69	---	8.46	6.17	---	8.46	8.54	9.07	10.65
16	9.97	9.01	9.10	9.68	---	8.22	5.40	---	8.14	8.27	9.15	10.70
17	9.92	8.80	9.14	9.69	---	7.91	4.80	---	7.96	8.03	9.19	10.69
18	9.86	8.60	9.19	9.69	---	7.61	4.58	---	7.93	7.90	9.15	10.60
19	9.81	8.44	9.23	9.25	---	7.45	4.62	6.29	7.99	7.89	9.11	10.37
20	9.78	8.34	9.28	---	---	7.38	4.86	6.71	8.10	7.93	9.14	9.75
21	9.75	8.28	9.32	---	---	7.25	5.24	7.06	8.17	7.96	9.22	9.38
22	9.61	8.26	9.36	---	---	7.08	5.71	7.35	8.19	7.99	9.32	9.21
23	9.22	8.26	9.38	---	---	6.91	6.20	7.59	8.17	8.05	9.46	9.15
24	8.80	8.27	9.40	---	---	6.86	6.65	7.78	8.12	8.14	9.60	9.09
25	8.53	8.30	9.42	---	---	6.91	7.00	7.94	8.10	8.24	9.72	8.99
26	8.46	8.34	9.45	---	---	7.07	7.25	8.08	8.13	8.35	9.72	8.91
27	8.48	8.40	9.49	---	---	7.25	7.43	8.22	8.20	8.43	9.64	8.86
28	8.55	8.48	9.52	---	---	7.39	7.59	8.35	8.30	8.47	9.66	8.83
29	8.66	8.55	9.57	---	7.03	7.50	7.73	8.46	8.40	8.52	9.78	8.79
30	8.78	8.58	9.60	---	---	7.61	7.74	8.57	8.46	8.58	9.92	8.66
31	8.90	---	9.64	---	---	7.74	---	8.66	---	8.65	10.06	---
MEAN	9.87	8.91	9.06	---	---	7.65	7.07	---	8.55	8.39	9.23	10.02
MAX	11.08	9.58	9.64	---	---	8.56	8.31	---	9.12	8.78	10.06	10.74
MIN	8.46	8.26	8.54	---	---	6.86	4.58	---	7.93	7.89	8.70	8.66

421556075281602. Local number, Cn 12--Continued.



423541076114701. Local number, C 102.

LOCATION.--Lat 42°35'41", long 76°11'47", Hydrologic Unit 02050102, at Municipal Water Works, Cortland. Owner: City of Cortland.

AQUIFER.--Unconfined aquifer in gravel of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation well, diameter 1.25 inch, depth 45 ft, 1.25 inch well point.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 1136.59 ft above sea level. Measuring point: Top of coupling, 1.99 ft above land-surface datum.

REMARKS.--Water level is affected by pumping from nearby municipal supply wells. This well is a replacement for 423539076114801 (local number C 19), located 80 ft southwest, which had a period of record from February 1947 to May 1976.

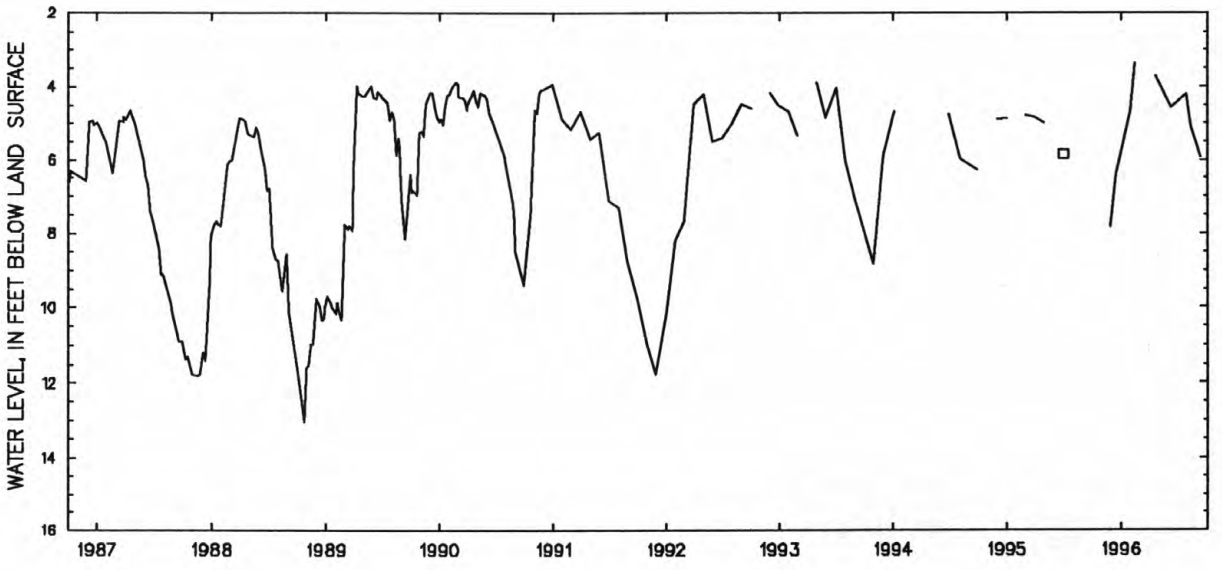
PERIOD OF RECORD.--October 1975 to current year. Records for October 1975 to September 1977 are unpublished and available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.07 ft below land-surface datum, Sept. 25, 1977; lowest measured, 14.50 ft below land-surface datum, Dec. 14, 1978.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 3.39 ft below land-surface datum, Feb. 13; lowest measured, 7.84 ft below land-surface datum, Nov. 28.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 28	7.84	JAN 30	4.70	APR 19	3.71	JUL 26	4.23	AUG 08	5.12	SEP 09	5.91
DEC 15	6.39	FEB 13	3.39	JUN 07	4.58						



MONROE COUNTY

430855077304202. Local number Mo 2

LOCATION.--Lat 43°08'55", long 77°30'42", Hydrologic Unit 04140101, near east valley wall, north of Blossom Road, in Ellison Park. Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in coarse sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 inch, depth 45 ft, cased to 41 ft, screened 41 to 45 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel.

DATUM.--Elevation of land-surface datum is 252.60 ft above sea level. Measuring point: arrow at top of casing, 4.08 ft above land-surface datum.

REMARKS.--Well also sampled for water-quality.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

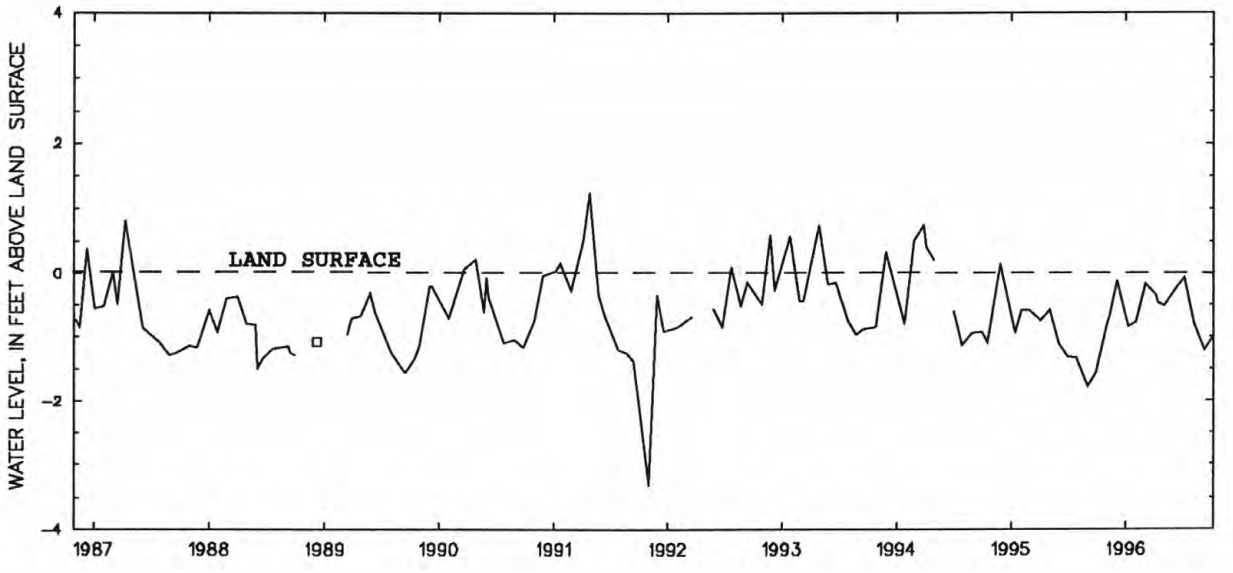
PERIOD OF RECORD.--September 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.24 ft above land-surface datum, Apr. 26, 1991; lowest measured, 3.32 ft below land-surface datum, Oct. 29, 1991.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 0.07 ft feet above land-surface datum, July 2; lowest measured, 1.22 ft below land-surface datum, Sept. 4.

WATER LEVEL, IN FEET ABOVE (+) OR BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	.81	JAN 05	.84	APR 02	.34	MAY 01	.51	JUL 02	.07	SEP 04	1.22
08	.69	31	.77	09	.47	31	.27	AUG 02	.78	30	.99
DEC 01	.12	MAR 01	.17								



MONROE COUNTY

430854077304601. Local number Mo 3

LOCATION.--Lat 43°08'54", long 77°30'46", Hydrologic Unit 04140101, on right bank of Irondequoit Creek, north of Blossom Road, in Ellison Park. Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in alluvium of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 inch, depth 16 ft, cased to 13.5 ft, screened 13.5 ft to 16 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel.

DATUM.--Elevation of land-surface datum is 253.2 ft above sea level. Measuring point: arrow at top of casing, 3.74 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

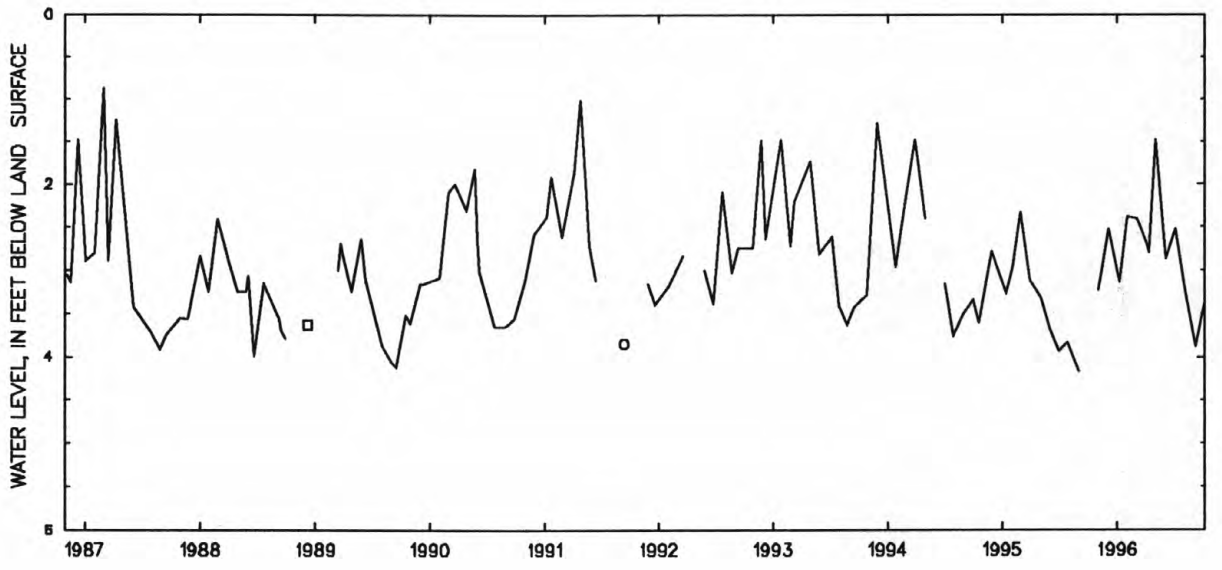
PERIOD OF RECORD.--September 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.03 ft above land-surface datum, Feb. 27, 1985; lowest measured, 4.17 ft below land-surface datum, Aug.31, 1995.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 1.48 ft feet below land-surface datum, May 1; lowest measured, 3.88 ft below land-surface datum, Sept. 4.

WATER LEVEL, IN FEET ABOVE (+) OR BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	3.23	JAN 05	3.14	APR 02	2.71	MAY 01	1.48	JUL 02	2.52	SEP 04	3.88
08	3.06	31	2.38	09	2.80	31	2.87	AUG 02	3.25	30	3.37
DEC 01	2.52	MAR 01	2.41								



430932077311501. Local number Mo 659

LOCATION.--Lat 43°09'32", long 77°31'15", Hydrologic Unit 04140101, at top of right bank about 400 ft north east of bridge over Irondequoit Creek overflow channel at Old Browncroft Boulevard. Owner: U.S. Geological Survey.

AQUIFER.--Confined aquifer in sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 inch, depth 215 ft, cased to 215 ft, perforated 80 to 90 ft and 160 to 170 ft, open-ended at 215 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel; periodic measurement by USGS personnel.

DATUM.--Elevation of land-surface datum is 266.58 ft above sea level. Measuring point: arrow at top of casing, 1.80 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

PERIOD OF RECORD.--December 1986 to current year.

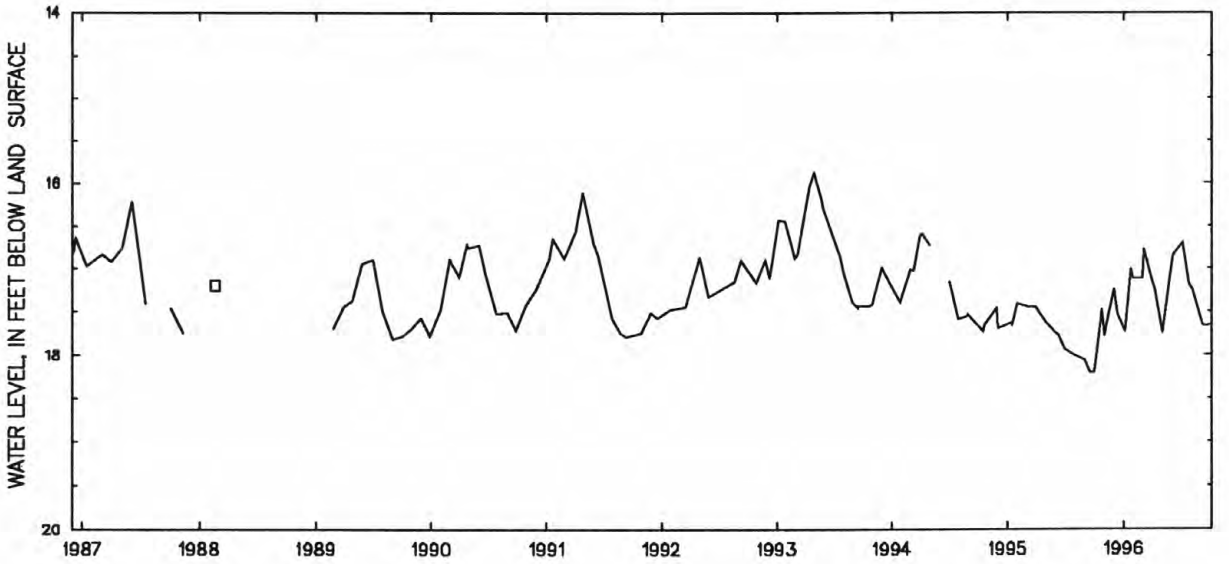
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.89 ft below land-surface datum, Apr. 30, 1993; lowest measured, 18.21 ft below land-surface datum, Sep. 29, 1995.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 16.70 ft feet below land-surface datum,July 2; lowest measured, 17.78 ft below land-surface datum, Nov. 1.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	17.48	DEC 11	z17.53	MAR 01	17.12	APR 09	17.24	JUL 02	16.70	SEP 04	17.66
NOV 01	17.78	JAN 05	17.73	05	z16.78	MAY 01	17.74	24	z17.19	11	z17.67
08	17.66	23	z17.01	APR 02	17.18	31	16.85	AUG 02	17.24	30	17.65
DEC 01	17.25	31	17.11								

z Measured by USGS personnel.



430912077313301. Local number Mo 663

LOCATION.--Lat 43°09'12", long 77°31'33", Hydrologic Unit 04140101, on east bank of Irondequoit Creek about 1200 ft. south of Browncroft Boulevard. Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in alluvium of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 in, depth 10 ft, cased to 7.5 ft, screened 7.5 ft to 10 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel.

DATUM.--Elevation of land-surface datum is 251.16 ft above sea level. Measuring point: arrow at top of casing, 3.60 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

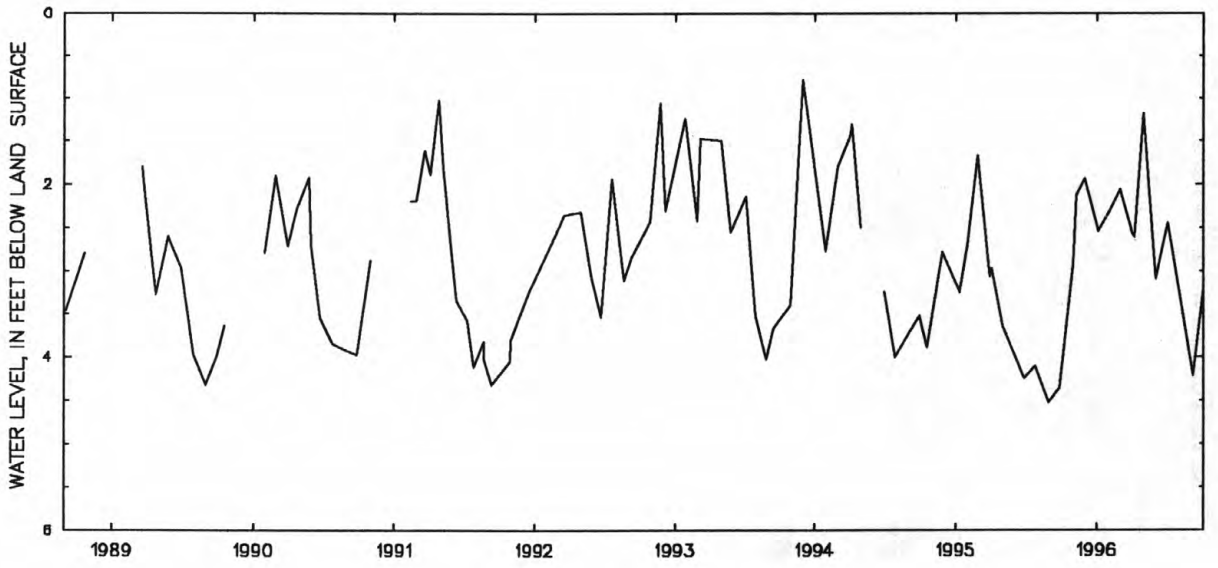
PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.78 ft below land-surface datum, Nov. 29, 1993; lowest measured, 4.53 ft below land-surface datum, Aug. 31, 1995.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 1.18 ft feet below land-surface datum, May 1; lowest measured, 4.22 ft below land-surface datum, Sept. 4.

WATER, LEVEL IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	2.94	JAN 05	2.54	APR 02	2.58	MAY 01	1.18	JUL 02	2.45	SEP 04	4.22
08	2.13	31	2.35	09	2.60	31	3.09	AUG 02	3.30	30	3.20
DEC 01	1.94	MAR 01	2.07								



MONROE COUNTY

430912077313302. Local number Mo 664

LOCATION.--Lat 43°09'12", long 77°31'33", Hydrologic Unit 04140101, on east bank of Irondequoit Creek about 1200 ft south of Browncroft Boulevard. Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in alluvium of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 inch, depth 27 ft, cased to 22 ft, screened 22 ft to 27 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel.

DATUM.--Elevation of land-surface datum is 251.18 ft above sea level. Measuring point: arrow at top of casing, 3.20 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

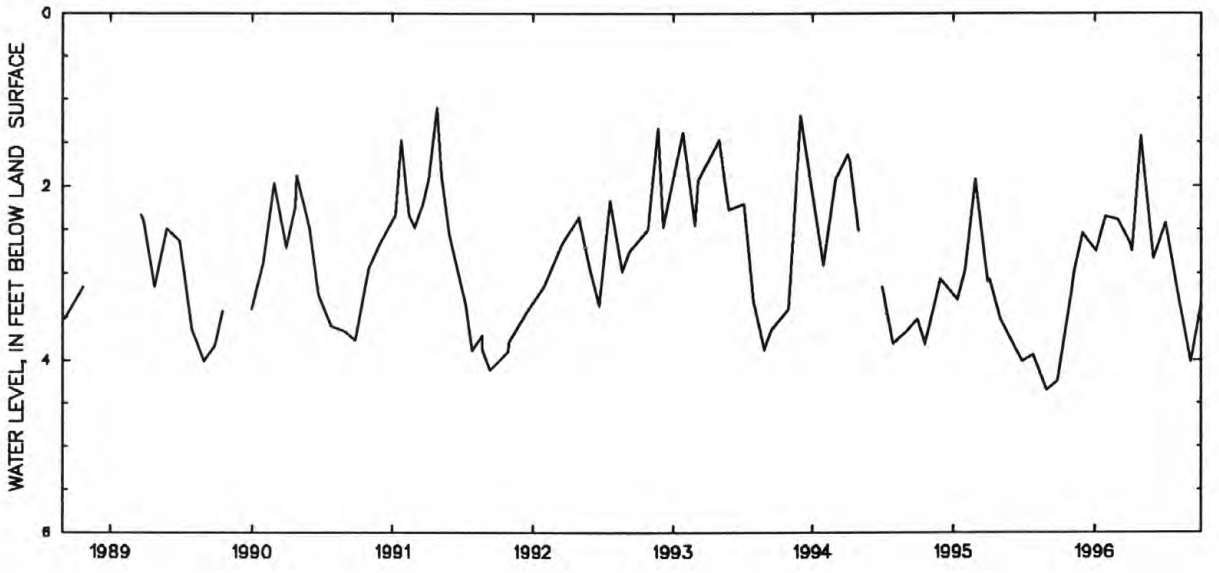
PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.10 ft below land-surface datum, Apr. 26, 1991; lowest measured, 4.35 ft below land-surface datum, Aug. 31, 1995.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 1.44 ft feet below land-surface datum, May 1; lowest measured, 4.03 ft below land-surface datum, Sept. 4.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	3.25	JAN 05	2.74	APR 02	2.66	MAY 01	1.44	JUL 02	2.42	SEP 04	4.03
08	2.98	31	2.35	09	2.75	31	2.83	AUG 02	3.23	30	3.36
DEC 01	2.54	MAR 01	2.38								



430928077313802. Local number Mo 665

LOCATION.--Lat 43°09'28", long 77°31'38", Hydrologic Unit 04140101, on east bank of Irondequoit Creek about 100 ft north of Browncroft Boulevard. Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in alluvium of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 inch, depth 17 ft, cased to 12 ft, screened 12 ft to 17 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel.

DATUM.--Elevation of land-surface datum is 254.14 ft sea level. Measuring point: arrow at top of casing, 2.45 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

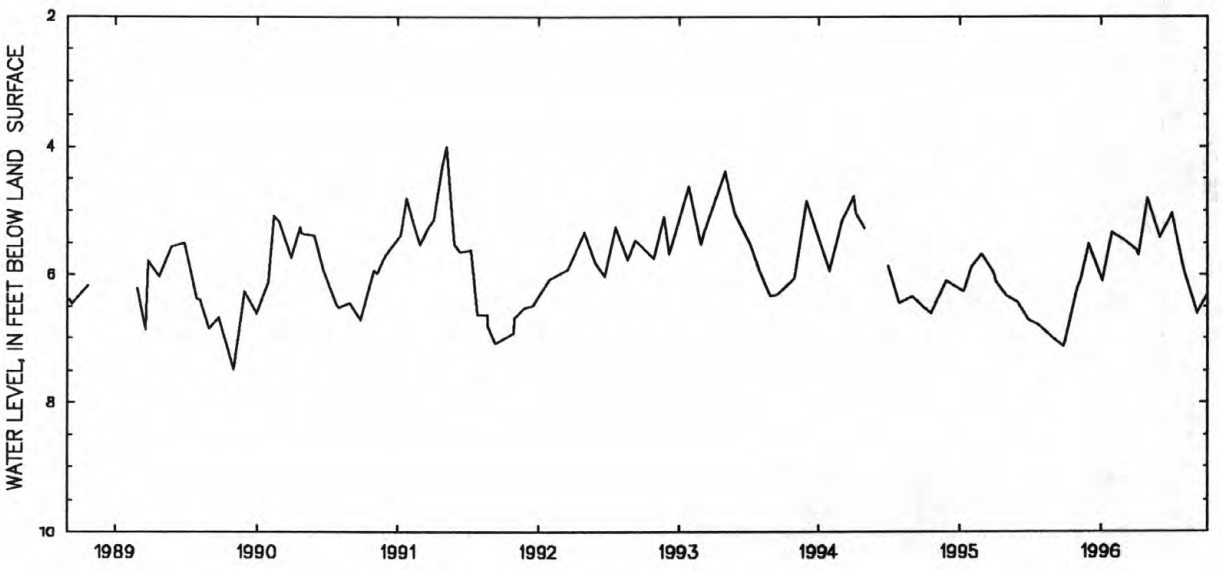
PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.00 ft below land-surface datum, May 7, 1991; lowest measured, 7.48 ft below land-surface datum, Oct. 31, 1989.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 4.80 ft feet below land-surface datum, May 1; lowest measured, 6.60 ft below land-surface datum, Sept. 4.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	6.20	JAN 05	6.08	APR 02	5.60	MAY 01	4.80	JUL 02	5.05	SEP 04	6.60
08	6.09	31	5.33	09	5.70	31	5.40	AUG 02	5.95	30	6.31
DEC 01	5.52	MAR 01	5.45								



430928077313803. Local number Mo 666

LOCATION.--Lat 43°09'28", long 77°31'38", Hydrologic Unit 04140101, on east bank of Irondequoit Creek about 100 ft north of Browncroft Boulevard. Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in alluvium of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 inch, depth 27 ft, cased to 22 ft, screened 22 ft to 27 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel; periodic measurement by USGS personnel.

DATUM.--Elevation of land-surface datum is 254.14 ft above sea level. Measuring point: arrow at top of casing, 3.65 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

PERIOD OF RECORD.--September 1988 to current year.

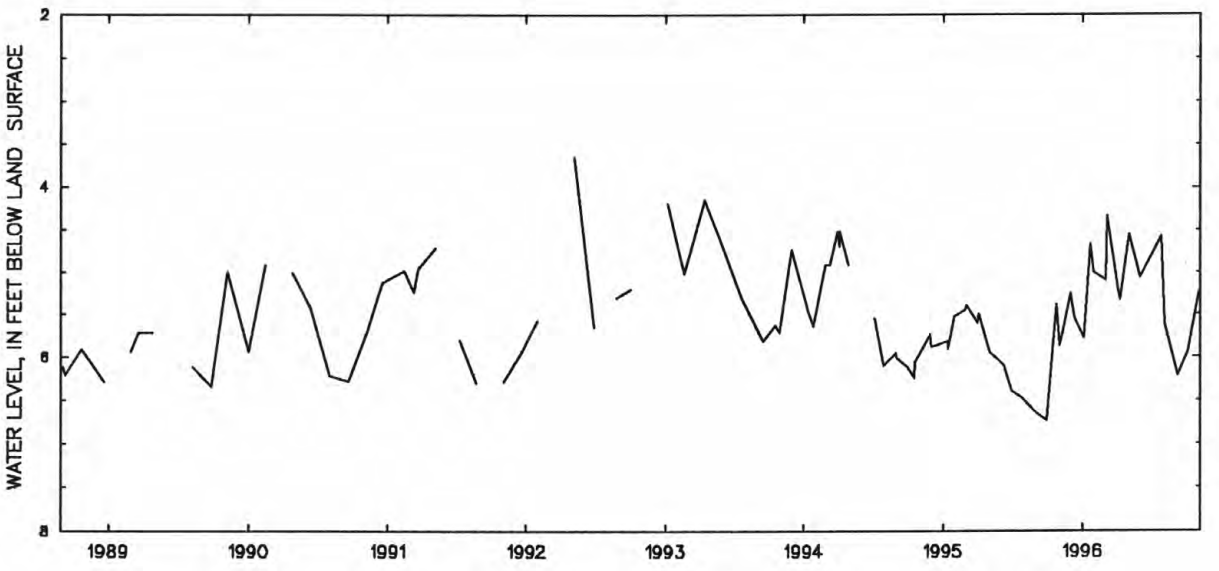
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.66 ft below land-surface datum, May 6, 1992; lowest measured, 6.75 ft below land-surface datum, Sept. 29, 1995.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 4.34 ft feet below land-surface datum, Mar. 5; lowest measured, 6.22 ft below land-surface datum, Sept. 4.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	5.38	DEC 11	z5.55	MAR 01	5.10	APR 09	5.33	JUL 02	4.76	SEP 04	6.22
NOV 01	5.87	JAN 05	5.78	05	z4.34	MAY 01	4.55	24	z4.58	11	z6.16
08	5.75	23	z4.67	APR 02	5.22	31	5.06	AUG 02	5.62	30	5.93
DEC 01	5.26	31	5.00								

z Measured by USGS personnel.



MONROE COUNTY

430928077314001. Local number Mo 667

LOCATION.--Lat 43°09'28", long 77°31'40", Hydrologic Unit 04140101, on west bank of Irondequoit Creek about 300 ft. north of Browncroft Boulevard and 100 ft west of Irondequoit Creek. Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in alluvium of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 inch, depth 15 ft, cased to 10 ft, screened 10 ft to 15 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel.

DATUM.--Elevation of land-surface datum is 255.38 ft above sea level. Measuring point: arrow at top of casing, 2.05 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

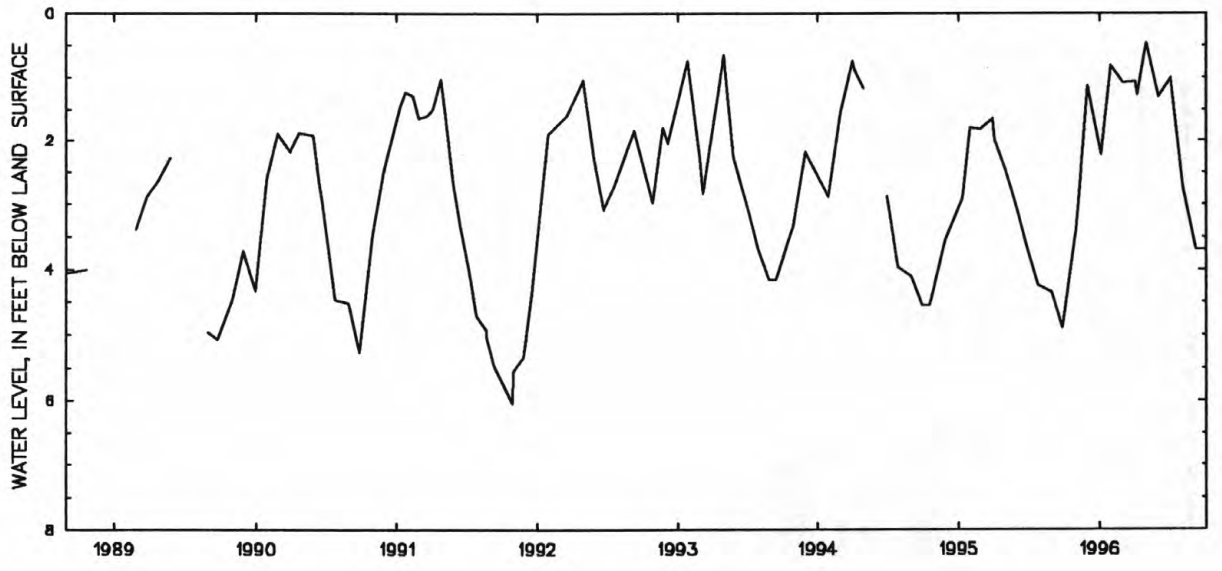
PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.47 ft below land-surface datum, May 1, 1996; lowest measured, 6.06 ft below land-surface datum, Oct. 29, 1991.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 0.47 ft feet below land-surface datum, May. 1; lowest measured, 3.69 ft below land-surface datum, Sept. 4, 30.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	3.41	JAN 05	2.22	APR 02	1.06	MAY 01	.47	JUL 02	1.01	SEP 04	3.69
08	2.84	31	.83	09	1.26	31	1.30	AUG 02	2.74	30	3.69
DEC 01	1.13	MAR 01	1.07								



MONROE COUNTY

430928077314002. Local number Mo 668

LOCATION.--Lat 43°09'28", long 77°31'40", Hydrologic Unit 04140101, on west bank of Irondequoit Creek about 300 ft north of Browncroft Boulevard and 100 ft west of Irondequoit Creek. Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in alluvium of Holocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2 inch, depth 36 ft, cased to 31 ft, screened 31 ft to 36 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by Monroe County Environmental Health Laboratory personnel.

DATUM.--Elevation of land-surface datum is 255.32 ft above sea level. Measuring point: arrow at top of casing, 1.40 ft above land-surface datum.

REMARKS.--Well also sampled for water quality.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Environmental Health Laboratory at Rochester, NY.

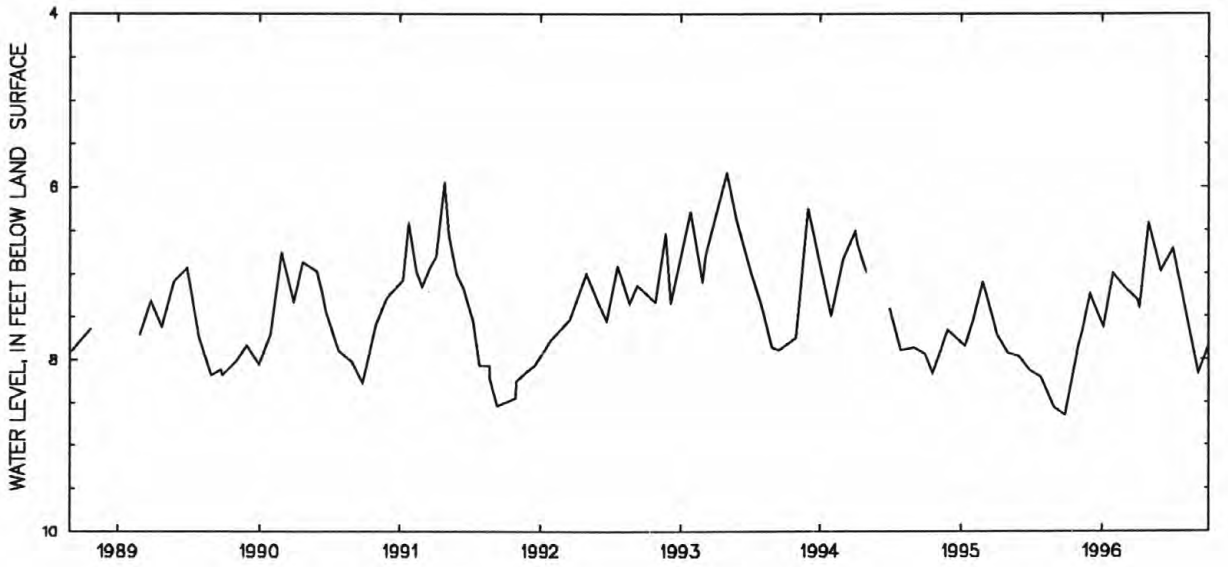
PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.83 ft below land-surface datum, Apr. 30, 1993; lowest measured, 8.65 ft below land-surface datum, Sept. 29, 1995.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 6.42 ft feet below land-surface datum, May 1; lowest measured, 8.17 ft below land-surface datum, Sept. 4.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	7.83	JAN 05	7.63	APR 02	7.31	MAY 01	6.42	JUL 02	6.72	SEP 04	8.17
08	7.71	31	7.00	09	7.41	31	6.97	AUG 02	7.42	30	7.85
DEC 01	7.25	MAR 01	7.18								



431308078544501. Local number, Ni 70.

LOCATION.--Lat 43°13'08", long 78°54'45", Hydrologic Unit 04130001, near Ransomville. Owner: Calvin C. Schultz.

AQUIFER.--Unconfined aquifer in sand of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused well, diameter 4 ft to 5 ft (reported), stone-lined, depth 24 ft.

INSTRUMENTATION.--Weekly measurement with chalked tape by observer; periodic measurement by USGS personnel.

DATUM.--Elevation of land-surface datum is 335.95 ft above sea level. Measuring point: Top of 1 inch hole in steel cover, 0.70 ft above land-surface datum.

PERIOD OF RECORD.--August 1972 to current year. Records for August 1972 to September 1976 are unpublished and available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.90 ft below land-surface datum, Mar. 12, 1985; lowest measured, 13.88 ft below land-surface datum, Dec. 21, 1991.

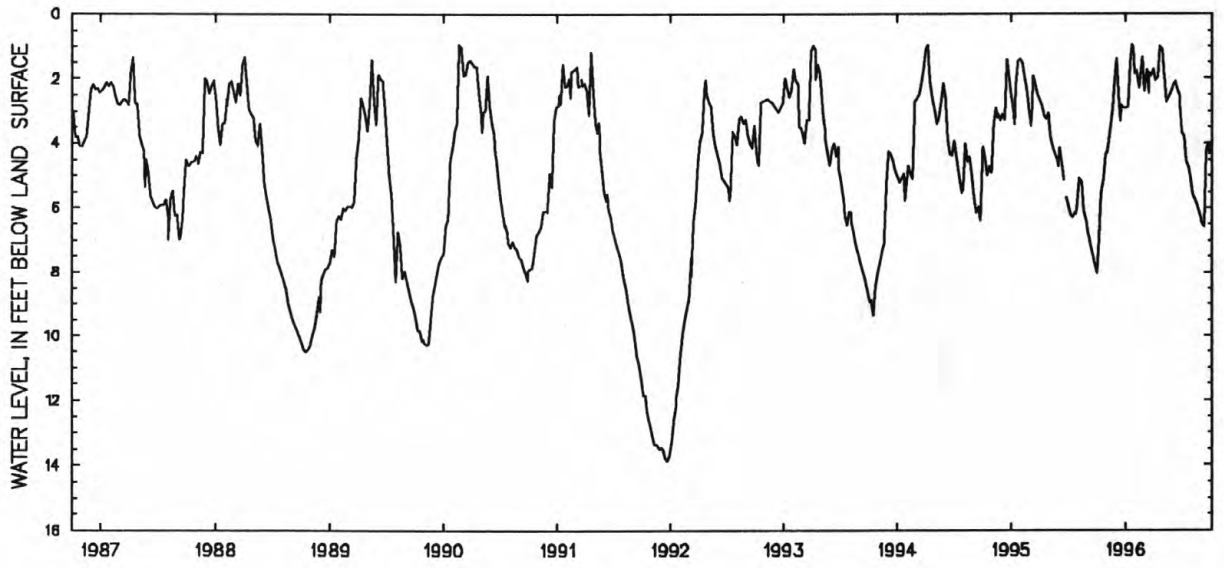
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 0.97 ft below land-surface datum, Jan. 20; lowest measured, 6.93 ft below land-surface datum, Oct. 7.

REVISIONS.--Water levels measured by USGS personnel reported for the 1983 to 1991 water years have been revised: subtract 0.70 ft.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07	6.93	DEC 09	2.80	FEB 03	1.79	APR 06	2.05	JUN 08	2.13	AUG 07	z5.69
14	5.55	13	z3.31	10	2.30	13	1.96	15	2.40	10	5.74
21	5.10	16	2.85	17	1.76	20	1.02	z19	2.52	17	5.90
28	4.30	23	2.90	24	1.32	27	1.08	22	2.80	25	6.25
NOV 01	z4.32	30	2.92	MAR 02	2.39	MAY 01	z2.01	29	3.65	31	6.45
04	4.08	JAN 06	2.89	09	1.74	04	1.92	JUL 06	3.78	SEP 07	6.57
11	3.64	13	1.55	z13	2.46	11	2.72	13	4.54	14	4.25
18	2.94	20	.97	16	1.80	18	2.55	20	4.77	21	4.03
25	2.05	24	z1.05	23	1.90	25	2.43	27	5.11	z25	4.33
DEC 02	1.41	27	1.84	30	1.75	JUN 01	2.20	AUG 03	5.58	28	4.00

z Measured by USGS personnel.



422445077203301. Local number, Sb 472.

LOCATION.--Lat 42°24'45", long 77°20'33", Hydrologic Unit 02050105, near Kanona. Owner: David Owens.

AQUIFER.--Unconfined aquifer in gravel of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation well, diameter 2.5 inch, depth 17 ft, filled in from original depth of 18 ft, cased to 16 ft, 1.25 inch well point (60-gauze screen 16 ft to 18 ft, damaged during well installation).

INSTRUMENTATION.--Weekly measurement with chalked tape by observer; periodic measurement by USGS personnel.

DATUM.--Elevation of land-surface datum is 1,209.78 ft above sea level. Measuring point: Top of casing, 2.99 ft above land-surface datum.

PERIOD OF RECORD.--November 1965 to current year. Records for November 1965 to September 1976 are unpublished and available in files of the Geological Survey.

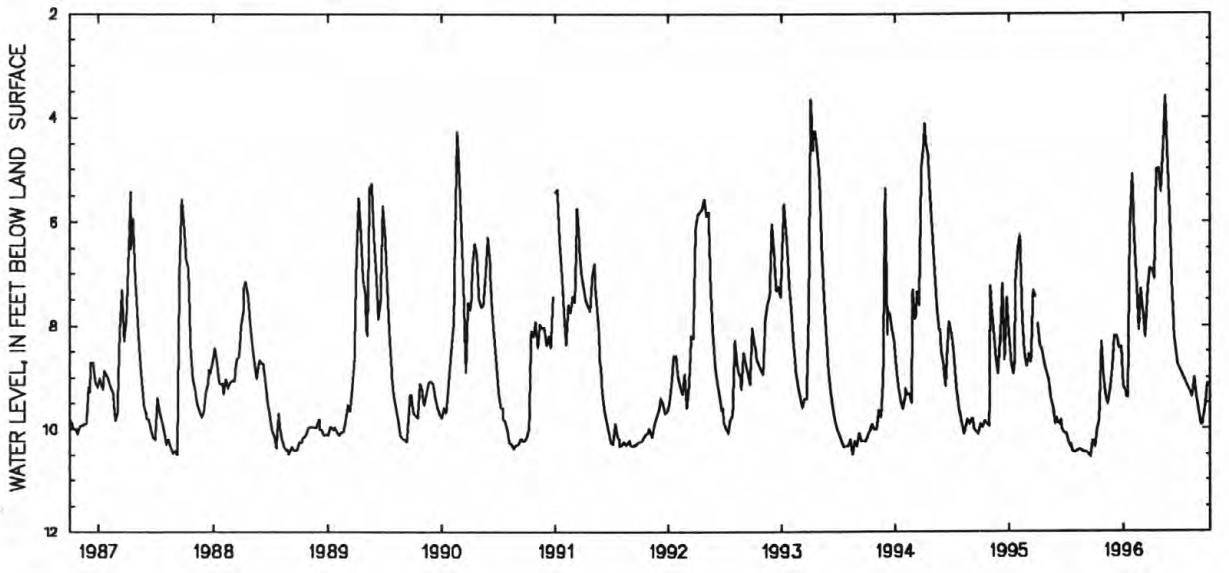
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.61 ft below land-surface datum, May 12, 1996; lowest measured, 10.84 ft below land-surface datum, Sept. 22, 1966.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 3.61 ft below land-surface datum, May 12, 1996; lowest measured, 10.36 ft below land-surface datum, Oct. 1.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	10.36	NOV 26	8.81	JAN 21	6.15	MAR 17	7.28	MAY 12	3.61	AUG 18	9.37
08	10.00	DEC 03	8.19	28	5.10	24	6.90	19	4.94	25	9.61
15	9.86	10	8.20	FEB 03	6.29	31	6.93	26	5.86	SEP 01	9.92
22	8.30	17	8.44	10	7.28	APR 07	7.10	JUN 02	7.15	09	9.90
29	8.92	24	8.41	18	8.10	14	5.01	10	8.23	11	z9.85
NOV 02	z9.17	31	9.19	25	7.30	21	4.99	20	z8.75	15	9.53
05	9.39	JAN 07	9.27	29	z7.57	22	z5.01	AUG 03	9.30	22	9.11
12	9.53	09	z9.37	MAR 03	7.80	28	5.45	06	z9.40	29	9.15
19	9.17	14	9.39	10	8.21	MAY 05	4.55	11	9.00		

z Measured by USGS personnel.

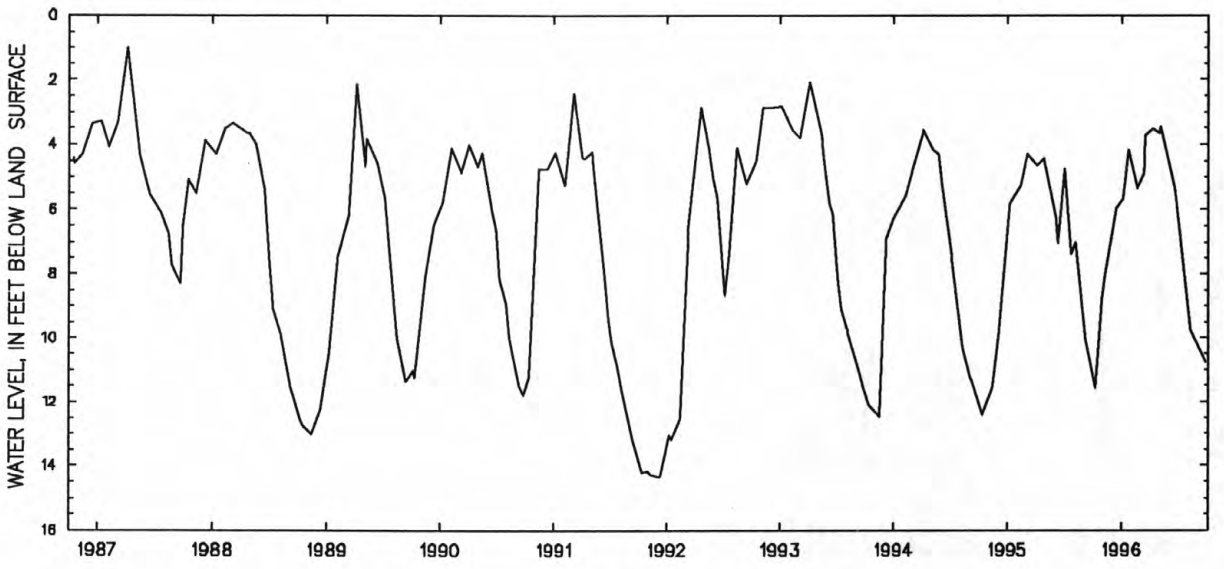


423739077595501. Local number, Wo 1.
LOCATION.--Lat 42°37'39", long 77°59'55", Hydrologic Unit 04130002, Letchworth State Park, near Castile. Owner: New York State Department of Environmental Conservation.
AQUIFER.--Till of Pleistocene age.
WELL CHARACTERISTICS.--Driven unused well, diameter 2 inch, depth 15 ft, well point (60-gauze screen 13 ft to 15 ft).
INSTRUMENTATION.--Monthly measurement with chalked tape by observer; periodic measurement by USGS personnel.
DATUM.--Elevation of land-surface datum is 1,045.44 ft above sea level. Measuring point: Top of 2 inch by 1 inch reducing coupling, 3.30 ft above land-surface datum.
PERIOD OF RECORD.--November 1942 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.5 ft below land-surface datum, Apr. 5, 1947; lowest measured, dry, Dec. 6-27, 1964, Jan. 2, 1965.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 3.46 ft below land-surface datum, May. 4; lowest measured, 11.58 ft below land-surface datum, Oct.7.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07	11.58	DEC 13	5.94	FEB 17	5.33	APR 08	3.54	JUN 17	z5.37	AUG 06	9.73
30	z8.77	JAN 04	5.66	MAR 11	z4.89	29	z3.67	JUL 02	6.53	SEP 23	z10.76
NOV 09	7.96	23	z4.18	16	3.73	MAY 04	3.46	AUG 05	9.68		

z Measured by USGS personnel.



423743078070802. Local number, Wo 4.

LOCATION.--Lat 42°37'43", long 78°07'08", Hydrologic Unit 04130002, near Gainesville. Owner: Letchworth Central School.

AQUIFER.--Unconfined aquifer in sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 inch, depth 20 ft, cased to 20 ft, open end.

INSTRUMENTATION.---Digital recorder--60-minute punch; periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 1,606.76 ft above sea level. Measuring point: Top of casing 2.59 ft above land-surface datum.

REMARKS.--Well drilled May 1974 as a replacement for 423743078070801 (local number Wo 2), located 25 ft southeast, which has a period of record from November 1965 to May 1974 (unpublished). Water level may be affected by periodic water-quality sampling by county health department.

PERIOD OF RECORD.--May 1974 to current year. Records for May 1974 to September 1976 are unpublished and available in files of the Geological Survey.

REVISED RECORDS.--WDR NY-91-3: 1990.

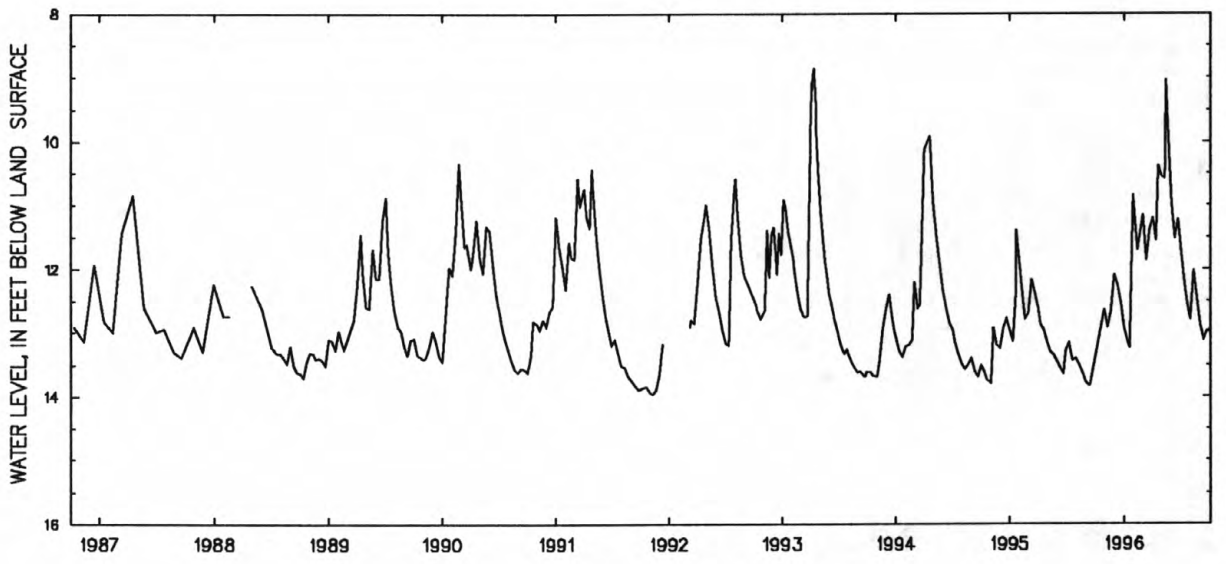
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.89 ft, below land-surface datum, Mar. 5, 1976; lowest, 14.00 ft, below land-surface datum, Nov. 3, 1974.

EXTREMES FOR CURRENT YEAR.--Highest water level recorded, 9.04 ft, below land-surface datum, May 13,14; lowest recorded, 13.24 ft, below land-surface datum, Jan 17.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	12.69	12.04	12.96	---	11.22	11.25	10.49	11.02	11.80	12.82	12.91
2	---	12.72	12.04	12.98	11.23	11.30	11.30	10.48	11.10	11.85	12.84	12.93
3	---	12.76	12.01	13.01	11.35	11.41	11.35	10.50	11.17	11.90	12.84	12.96
4	---	12.80	12.01	13.04	11.47	11.51	11.40	10.55	11.25	11.95	12.85	12.99
5	---	12.83	12.00	13.05	11.57	11.56	11.43	10.56	11.32	12.00	12.84	13.03
6	---	12.84	12.01	13.08	11.66	11.60	11.44	10.59	11.39	12.05	12.84	13.06
7	---	12.88	12.06	13.09	11.74	11.66	11.46	10.64	11.43	12.10	12.86	13.08
8	---	12.90	12.13	13.11	11.80	11.72	11.49	10.69	11.44	12.15	12.76	13.10
9	---	12.91	12.19	13.12	11.71	11.79	11.52	10.72	11.48	12.20	12.26	13.11
10	---	12.92	12.25	13.14	11.71	11.87	11.56	10.59	11.53	12.26	12.01	13.12
11	---	12.93	12.30	13.15	11.71	11.93	11.59	10.02	11.57	12.30	11.99	13.14
12	---	12.87	---	13.16	11.73	11.96	11.59	9.33	11.58	12.33	12.03	13.15
13	---	12.80	12.38	13.19	11.78	11.99	11.10	9.05	11.00	12.36	12.09	13.14
14	---	12.76	12.41	13.20	11.82	11.97	10.35	9.09	10.82	12.40	12.17	13.09
15	---	12.73	12.42	13.22	11.89	11.66	10.06	9.20	10.85	12.43	12.23	13.09
16	---	12.73	12.42	13.23	---	11.51	10.03	9.33	10.95	12.43	12.29	13.11
17	---	12.72	12.44	13.23	---	11.47	10.13	9.45	11.04	12.45	12.33	13.13
18	---	12.71	12.47	12.98	---	11.43	10.21	9.58	11.12	12.47	12.38	13.06
19	---	12.70	12.49	11.45	---	11.41	10.29	9.72	11.17	12.51	12.43	12.99
20	---	12.67	12.53	---	---	11.39	10.37	9.84	11.22	12.51	12.47	12.98
21	---	12.63	12.58	---	---	11.42	10.45	9.94	11.26	12.53	12.51	12.98
22	---	12.59	12.64	---	---	11.48	10.53	10.02	11.31	12.55	12.55	13.01
23	---	12.56	12.69	10.42	---	---	10.56	10.12	11.38	12.60	12.61	13.05
24	---	12.55	12.72	10.48	11.37	---	10.46	10.24	11.45	12.64	12.64	13.07
25	---	12.55	12.76	10.43	11.30	11.61	10.35	10.34	11.51	12.67	12.68	13.08
26	---	12.55	12.80	10.55	11.26	11.26	10.31	10.44	11.57	12.71	12.72	13.08
27	---	12.55	12.81	10.58	11.22	11.14	10.39	10.55	11.62	12.74	12.75	13.07
28	---	12.46	12.83	10.60	11.16	11.12	10.48	10.65	11.68	12.77	12.79	13.07
29	---	12.21	12.88	10.71	11.15	11.13	10.55	10.75	11.73	12.80	12.83	12.98
30	---	12.08	12.92	10.84	---	11.18	10.54	10.85	11.76	12.82	12.85	12.95
31	12.64	---	12.94	---	---	11.20	---	10.94	---	12.81	12.89	---
MEAN	---	12.69	---	---	---	---	10.82	10.17	11.32	12.39	12.55	13.05
MAX	---	12.93	---	---	---	---	11.59	10.94	11.76	12.82	12.89	13.15
MIN	---	12.08	---	---	---	---	10.03	9.05	10.82	11.80	11.99	12.91

423743078070802. Local number, Wo 4--Continued.



WATER-QUALITY DATA, WATER YEAR, OCTOBER 1995 TO SEPTEMBER 1996

STATION NUMBER	LOCAL IDENT-IFYER	DATE	TUR-BID-ITY (NTU) (00076)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2) (00405)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
430854077304601	Mo 3	11-08-95	0.55	1370	1.8	7.2	20	<0.01	1.0	0.54	0.010
		04-09-96	0.30	1380	0.9	7.6	13	<0.01	0.20	0.50	0.005
430855077304202	Mo 2	11-08-95	3.3	907	0.4	7.2	18	<0.01	0.82	<0.05	0.015
		04-09-96	70	939	0.7	7.8	6.4	0.02	0.32	<0.05	0.180
430912077313301	Mo 663	11-08-95	14	1650	2.0	7.3	37	0.15	1.6	0.08	0.120
		04-09-96	8.1	1260	1.2	7.0	58	0.21	0.84	0.06	0.045
430912077313302	Mo 664	11-08-95	76	20500	0.1	6.6	117	2.85	3.5	<0.05	0.310
		04-09-96	70	20100	<0.1	7.0	86	2.30	2.0	<0.05	0.330
430928077313802	Mo 665	11-08-95	100	2180	0.1	7.0	172	2.10	3.2	<0.05	0.410
		04-09-96	70	2180	0.3	7.0	158	1.90	2.6	<0.05	0.350
430928077313803	Mo 666	11-08-95	160	1830	<0.1	7.1	34	7.70	8.3	<0.05	0.330
		04-09-96	170	1790	0.1	6.7	197	7.90	6.0	<0.05	0.400
430928077314001	Mo 667	11-08-95	270	2680	<0.1	7.0	112	10.0	18	<0.05	8.85
		04-09-96	270	2260	2.1	7.2	137	9.00	4.4	<0.05	5.80
430928077314002	Mo 668	11-08-95	150	2850	<0.1	6.8	185	6.10	6.6	<0.05	0.560
		04-09-96	120	2880	<0.1	7.2	98	5.70	3.8	<0.05	0.560
430932077311501	Mo 659	11-08-95	34	988	4.5	7.4	9.5	0.03	0.95	<0.05	<0.005
		04-09-96	50	940	<0.1	7.6	5.3	0.04	0.24	<0.05	<0.005

STATION NUMBER	DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
430854077304601	11-08-95	0.003	--	100	27	134	2.5	230	95	130	743
	04-09-96	0.002	340	100	27	129	2.4	230	91	100	770
430855077304202	11-08-95	0.003	--	86	24	71	1.3	150	99	350	528
	04-09-96	<0.002	310	83	23	67	1.5	140	85	4100	525
430912077313301	11-08-95	0.010	--	230	29	67	0.70	130	240	1100	1080
	04-09-96	<0.002	660	190	33	50	1.1	150	39	1200	808
430912077313302	11-08-95	0.003	--	1400	680	2720	26	6700	540	24000	13200
	04-09-96	0.002	4900	1100	408	2400	22	6500	610	24000	--
430928077313802	11-08-95	<0.002	--	170	39	282	<0.50	240	<1.0	12000	1230
	04-09-96	0.002	620	190	38	222	0.50	240	<1.0	12000	1170
430928077313803	11-08-95	0.002	--	170	54	141	10	170	1.4	21000	930
	04-09-96	0.002	740	190	56	120	10	210	14	27000	757
430928077314001	11-08-95	0.007	--	200	51	290	27	410	25	36000	1440
	04-09-96	0.004	710	190	52	187	22	270	190	30000	1150
430928077314002	11-08-95	0.006	--	200	67	314	5.6	550	<1.0	25000	1480
	04-09-96	0.003	880	190	67	271	5.3	550	<1.0	21000	808
430932077311501	11-08-95	<0.002	--	34	49	75	3.3	240	<1.0	11000	452
	04-09-96	<0.002	290	37	49	68	2.9	220	14	700	412

QUANTITY OF PRECIPITATION

425129076082701 AT OTISCO ROAD NEAR TULLY, NY

LOCATION.--Lat 42°51'29", long 76°08'27", Onondaga County, Hydrologic unit 04140201, in backyard of Stafford residence at 5445 Otisco Road.

PERIOD OF RECORD.--October 1991 to current year.

INSTRUMENTATION.--Tipping bucket raingage with 8.214 in. diameter receiving funnel, mounted on a pedestal in the backyard of residence. Funnel is heated to facilitate melting of snow. Each tip of the raingage bucket is equivalent to .01 in. of precipitation. Tips of the raingage bucket are recorded and accumulated at hourly intervals on an electronic data logger.

REMARKS.--Rain gage is operated in conjunction with streamflow station 04237946 Onondaga Creek Tributary No. 6, downstream of main depression area, for the Tully mudboil project.

PERIOD OF RECORD MAXIMUM.--Maximum daily precipitation 2.72 in. on October 21, 1995.

ANNUAL MAXIMUM.--Maximum daily precipitation 2.72 in. on October 21.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.06	.05	.07	.00	.00	.12	.00	.00	.07	.01	.00
2	.00	.11	.00	.05	.00	.04	.00	.00	.00	.36	.00	.00
3	.04	.17	.07	.37	.00	.01	.00	.07	.00	.34	.02	.00
4	.14	.00	.02	.00	.00	.00	.00	.37	.14	.41	.00	.00
5	.86	.00	.01	.00	.00	.38	.00	.05	.00	.00	.00	.02
6	.18	.00	.00	.00	.00	.00	.00	.19	.03	.00	.00	.00
7	.15	.19	.00	.00	.00	.15	.28	.00	.54	.00	.00	.19
8	.01	.03	.00	.00	.27	.03	.00	.00	.01	.00	1.17	.25
9	.00	.01	.00	.02	.11	.00	.00	.13	.00	.00	.34	.13
10	.00	.00	.12	.06	.03	.00	.00	.50	.16	.00	.00	.03
11	.00	.83	.00	.00	.08	.00	.03	1.02	.00	.00	.00	.00
12	.00	.27	.00	.02	.00	.00	.20	.67	.01	.00	.00	.05
13	.00	.19	.00	.00	.01	.00	.76	.00	.01	.02	.00	.17
14	1.02	.81	.24	.00	.02	.06	.08	.00	.00	.21	.00	.00
15	.08	.45	.01	.00	.00	.00	.11	.00	.00	.47	.45	.01
16	.00	.02	.03	.00	.00	.00	.38	.00	.01	.00	.59	.00
17	.00	.00	.01	.01	.00	.00	.31	.00	.00	.00	.01	.64
18	.00	.07	.00	.05	.01	.00	.00	.45	.01	.07	.00	.10
19	.00	.17	.22	1.35	.20	.03	.00	.00	.45	.98	.00	.00
20	.00	.00	.02	.23	.10	.07	.10	.00	.01	.00	.00	.01
21	2.72	.06	.02	.00	.10	.16	.00	.30	.04	.00	.00	.00
22	.00	.00	.00	.00	.02	.00	.14	.00	.12	.00	.00	.51
23	.00	.01	.04	.08	.00	.01	.57	.26	.00	.00	.39	.01
24	.00	.01	.00	.76	.27	.00	.15	.01	.09	.00	.00	.03
25	.00	.00	.02	.00	.00	.32	.00	.00	.04	.03	.00	.06
26	.00	.01	.06	.04	.00	.00	.36	.00	.00	.00	.00	.00
27	.00	.13	.00	.29	.07	.00	.01	.00	.44	.02	.00	.01
28	.14	.00	.00	.01	.19	.00	.00	.00	.02	.00	.00	.57
29	.32	.00	.00	.00	.00	.00	.26	.00	.05	.00	.00	.00
30	.11	.00	.00	.00	---	.00	.85	.00	.41	.05	.00	.00
31	.06	---	.00	.00	---	.00	---	.00	---	.24	.00	---
TOTAL	5.83	3.60	0.94	3.41	1.48	1.26	4.71	4.02	2.59	3.27	2.98	2.79

GENESEE RIVER BASIN

430117077350101 AT MENDON PONDS, ROCHESTER, NY

LOCATION.--Lat 43°01'17", long 77°35'01", Monroe County, Hydrologic Unit 04130003, in Mendon Ponds County Park, 200 ft east of rangers' quarters, 300 ft east of State Highway 65, and 1.7 mi south of Interstate Highway 90.

PERIOD OF RECORD.--June 1980 to current year (monthly composite).
June 1980 to current year (monthly wetfall).
June 1980 to current year (monthly dustfall).

PERIOD OF DAILY RECORD.--May 1985 to current year.

INSTRUMENTATION.--Standard 8-inch diameter weighing-bucket rain gage. Potentiometer output is recorded on electronic data logger at 60-minute intervals.
The composite sample collector is a straight-sided polyethlyene funnel approximately 6.5 inch in diameter that drains into a Teflon receiving bottle. A looped plastic tubing connects the funnel with the receiving bottle to retard evaporation. The polyethlyene funnel is heated during the cold-weather season to aid in complete collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft above ground level.

Wet/dry precipitation collector used for wetfall and dustfall samples. An automatic sensor detects precipitation and activates a motor that removes the cover from the wetfall-collection vessel and covers the dustfall-collection vessel. When precipitation ceases, the cycle is reversed. The sampling vessels are polyethlyene and have a collection diameter of 11.26 inch and a capacity of about 3.4 gallons. The openings of the collectors are approximately 8 ft above ground level.

PERIOD OF RECORD MAXIMUM.--Maximum daily precipitation 3.20 inch, October 21, 1995.

ANNUAL MAXIMUM.--Maximum recorded daily precipitation 3.20 inch, October 21.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Health Laboratory at Rochester, NY.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.10	---	---	.00	---	.00	---	.00	.00	.10	.00
2	.20	.10	---	---	.00	---	.10	.00	.00	.00	.10	.00
3	.10	.00	---	---	.00	---	.00	.10	.00	.10	.10	.00
4	.20	.10	---	---	.30	---	.10	.20	.10	.10	.00	.00
5	1.40	.00	---	---	---	---	.30	.00	.10	.00	.00	.00
6	.10	.30	---	.40	---	---	.00	.10	.10	.00	.00	.00
7	.40	.00	---	.00	---	---	.30	.00	.90	.00	.10	.80
8	.00	.00	---	.00	---	---	.00	.10	.20	.00	.80	.10
9	.00	.00	---	.20	---	---	.00	.10	.20	.00	.00	.00
10	.10	.40	---	.00	---	---	.00	.60	.00	.10	.00	.30
11	.00	.00	---	.00	---	---	.00	1.10	.60	.10	.00	.00
12	.00	.00	---	.00	---	---	.60	.30	.30	.00	.00	.20
13	.10	.10	---	.00	---	---	1.20	.00	.10	.00	.00	1.30
14	1.00	.10	---	.00	---	---	.00	.00	.00	.00	.00	.10
15	.10	.10	---	.00	---	---	.00	.00	.00	.70	.20	.00
16	.00	.20	---	2.40	---	---	.10	.00	.00	.00	.00	.10
17	.00	.10	---	.00	---	---	.20	.00	.00	.00	.00	.90
18	.00	.40	---	.00	---	---	.00	.00	.00	.10	.00	.00
19	.00	---	---	.20	---	---	.10	.00	.90	.30	.00	.00
20	.00	---	---	1.00	---	---	.30	.00	.60	.00	.00	.20
21	3.20	---	---	.00	---	---	.00	1.00	.00	.00	.00	.00
22	.00	---	---	.00	---	---	.50	.10	1.40	.10	.00	.20
23	.00	---	---	.60	---	---	.80	.30	.10	.00	.30	.00
24	.10	---	---	.00	---	---	.10	.00	.30	.10	.00	.10
25	.00	---	---	.00	---	---	.00	.00	.20	.30	.00	.00
26	.00	---	---	.00	---	---	.10	.10	.00	.00	.00	.00
27	.00	---	---	.00	---	---	.00	.00	.00	.00	.00	.00
28	.00	---	---	---	---	.00	.00	.00	.00	.40	.00	.80
29	.00	---	---	---	---	.00	.20	.00	.90	.00	.00	.10
30	.10	---	---	---	---	.00	.40	.00	.10	.80	.00	.00
31	.10	---	---	.00	---	.00	---	.10	---	.00	.00	---
TOTAL	7.20	---	---	---	---	---	5.40	---	7.10	3.20	1.70	5.20

CHEMICAL QUALITY OF PRECIPITATION

GENESEE RIVER BASIN

430117077350101 AT MENDON PONDS, ROCHESTER, NY--Continued

DUSTFALL CHEMICAL ANALYSES, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

MONTHLY DUSTFALL

DATE	RAIN FALL ACCUM (IN) (00045)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 03-OCT 31	7.10	1.7	0.24	0.20	1.7	0.84	3.6	0.310	0.92
OCT 31-DEC 01	--	1.7	0.26	1.3	0.33	1.2	5.2	1.10	1.3
DEC 01-JAN 05	--	1.8	0.41	4.7	0.08	7.9	2.8	1.00	1.4
JAN 05-31	e4.80	0.44	0.07	2.0	0.03	3.2	2.0	0.250	0.43
JAN 31-MAR 01	--	1.7	0.27	4.3	0.06	6.5	4.5	0.780	0.94
MAR 01-APR 02	--	0.50	0.40	3.0	0.07	3.5	4.5	0.610	0.98
APR 02-MAY 01	5.40	4.2	0.60	0.74	0.21	0.40	10	1.30	1.8
MAY 01-31	4.20	2.2	0.43	0.18	0.50	0.90	5.5	0.210	1.7
MAY 31-JUL 03	7.30	1.9	0.44	0.12	1.1	1.0	7.7	0.630	2.1
JUL 03-31	3.20	1.6	0.24	<0.025	0.26	0.30	3.4	0.050	0.52
JUL 31-SEP 06	1.70	1.7	0.22	0.10	0.38	0.60	3.4	0.080	0.55
SEP 06-30	5.20	0.90	0.25	0.20	1.1	1.3	6.1	1.80	2.8

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	ACIDITY (MG/L AS CACO3) (00435)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT 03-OCT 31	0.85	0.280	0.200	24	6.2	2.6	6	<40
OCT 31-DEC 01	1.50	0.090	0.068	40	4.0	8.7	8	100
DEC 01-JAN 05	1.80	0.045	0.027	66	4.7	5.4	5	30
JAN 05-31	0.68	0.010	0.006	33	4.5	5.2	8	<10
JAN 31-MAR 01	1.50	0.025	0.016	62	4.4	6.7	<5	20
MAR 01-APR 02	1.80	0.030	<0.002	46	5.4	4.0	5	30
APR 02-MAY 01	2.23	0.110	0.026	54	5.5	4.4	8	20
MAY 01-31	0.56	0.270	0.091	24	6.4	5.6	<5	20
MAY 31-JUL 03	0.66	0.370	0.195	29	5.3	2.8	13	20
JUL 03-31	0.42	0.120	0.062	15	6.2	2.6	<5	40
JUL 31-SEP 06	0.48	0.190	0.110	17	7.7	2.6	<5	30
SEP 06-30	0.41	0.460	0.325	33	5.9	3.4	<5	20

Note; Monthly dustfall samples are dissolved in one liter of deionized water for analysis and concentration are reported on a per liter basis. Thus, a reported calcium concentration of 1.0 mg/L would mean that 1.0 mg of calcium accumulated in the sampler.

CHEMICAL QUALITY OF PRECIPITATION

GENESEE RIVER BASIN

430117077350101 AT MENDON PONDS, ROCHESTER, NY--Continued

WETFALL CHEMICAL ANALYSES, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

MONTHLY WETFALL

DATE	RAIN FALL ACCUM (IN) (00045)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 03-OCT 31	7.10	0.80	0.10	0.02	0.05	0.63	2.5	0.280	0.32
OCT 31-DEC 01	--	0.19	0.08	0.24	0.02	0.60	2.1	0.280	0.34
DEC 01-JAN 05	--	0.46	0.11	1.2	0.02	2.4	1.8	0.230	0.28
JAN 05-31	e4.80	0.33	0.06	1.2	0.04	2.0	1.8	0.200	0.17
JAN 31-MAR 01	--	0.60	0.06	3.4	0.03	4.7	1.2	0.160	0.29
MAR 01-APR 02	--	1.1	0.28	1.9	0.10	2.8	4.1	0.790	1.1
APR 02-MAY 01	5.40	0.58	0.08	0.10	0.06	0.20	4.1	0.830	0.95
MAY 01-31	4.20	0.70	0.14	0.12	0.15	0.40	5.8	0.950	1.5
MAY 31-JUL 03	7.30	0.31	0.05	0.03	<0.02	0.40	3.6	0.565	0.66
JUL 03-31	3.20	0.52	0.08	0.06	0.18	0.20	4.8	1.10	1.4
JUL 31-SEP 06	1.70	1.9	0.33	0.27	0.51	1.0	19	4.10	4.7
SEP 06-30	5.20	0.21	0.04	<0.05	0.13	0.70	2.5	0.190	0.31

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	ACIDITY (MG/L AS CACO3) (00435)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT 03-OCT 31	0.55	0.015	0.008	19	4.6	4.1	<5	<40
OCT 31-DEC 01	0.89	0.005	0.004	--	--	--	<5	10
DEC 01-JAN 05	0.62	0.010	0.010	23	4.8	3.0	<5	10
JAN 05-31	0.44	0.008	0.004	20	4.7	4.1	<5	<10
JAN 31-MAR 01	0.60	0.010	<0.002	28	6.2	2.4	<5	20
MAR 01-APR 02	1.90	0.020	0.014	71	4.0	10	5	20
APR 02-MAY 01	0.80	0.020	0.003	34	4.0	8.3	<5	10
MAY 01-31	1.00	0.085	0.008	49	3.6	10	<5	20
MAY 31-JUL 03	0.57	0.028	<0.002	33	4.3	10	<5	30
JUL 03-31	0.70	0.183	0.054	41	4.2	6.6	<5	20
JUL 31-SEP 06	1.90	0.460	0.245	86	4.1	9.8	6	40
SEP 06-30	0.35	0.015	0.004	23	4.6	4.9	<5	20

CHEMICAL QUALITY OF PRECIPITATION

GENESEE RIVER BASIN

430117077350101 AT MENDON PONDS, ROCHESTER, NY--Continued

BULK CHEMICAL ANALYSES, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

MONTHLY COMPOSITE

DATE	RAIN FALL ACCUM (IN) (00045)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 03-OCT 31	7.10	1.1	0.52	0.05	1.0	0.84	6.6	<0.010	0.42
OCT 31-DEC 01	--	0.55	0.07	0.20	0.12	0.40	2.8	0.130	0.46
DEC 01-JAN 05	--	0.46	0.11	0.69	0.11	1.4	2.5	0.390	0.74
JAN 05-31	e4.80	0.68	0.14	1.9	0.24	3.0	3.7	0.410	0.94
JAN 31-MAR 01	--	0.66	0.13	1.9	0.08	3.4	3.2	0.360	1.4
MAR 01-APR 02	--	0.50	0.09	0.92	0.06	1.1	2.4	0.320	0.62
APR 02-MAY 01	5.40	0.81	0.15	0.26	0.03	0.40	3.9	0.710	1.6
MAY 01-31	4.20	0.07	0.09	0.11	0.11	1.1	3.4	0.290	0.74
MAY 31-JUL 03	7.30	0.46	0.09	0.05	0.30	0.40	3.8	0.490	0.88
JUL 03-31	3.20	0.90	0.18	0.08	0.94	0.40	3.7	0.500	1.4
JUL 31-SEP 06	1.70	1.0	0.17	0.12	1.0	1.2	6.1	0.750	1.7
SEP 06-30	5.20	0.35	0.10	0.05	0.85	0.70	2.7	0.050	0.38

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	ACIDITY (MG/L AS CACO3) (00435)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT 03-OCT 31	0.20	1.10	0.905	27	5.4	7.3	<5	<40
OCT 31-DEC 01	0.41	0.055	0.036	23	3.9	7.5	<5	20
DEC 01-JAN 05	0.64	0.080	0.064	28	4.7	5.6	<5	<10
JAN 05-31	0.89	0.060	0.030	48	4.3	7.0	<5	30
JAN 31-MAR 01	0.78	0.160	0.031	43	4.3	7.8	5	20
MAR 01-APR 02	1.00	0.020	0.002	38	4.3	7.6	<5	20
APR 02-MAY 01	0.87	0.015	0.002	38	4.3	11	<5	10
MAY 01-31	0.61	0.025	<0.002	35	3.6	--	<5	20
MAY 31-JUL 03	0.49	0.080	<0.002	43	4.0	13	<5	50
JUL 03-31	0.61	0.130	0.075	38	4.1	9.7	<5	40
JUL 31-SEP 06	1.10	0.070	0.004	58	4.0	12	<5	60
SEP 06-30	0.21	0.080	0.027	27	4.4	6.9	<5	60

IRONDEQUOIT CREEK BASIN

431021077315902 AT EMPIRE BOULEVARD, ROCHESTER, NY

LOCATION.--Lat 43°10'21", long 77°31'59", Monroe County, Hydrologic Unit 04140101, in the Irondequoit wetlands 1,350 ft south of New York State Highway 404.

PERIOD OF RECORD.--October 1992 to current year (monthly wetfall).
October 1992 to current year (monthly wetfall).

INSTRUMENTATION.--Wet/dry precipitation collector used for wetfall and dustfall samples. An automatic sensor detects precipitation and activates a motor that removes the cover from the wetfall-collection vessel and covers the dustfall-collection vessel. When precipitation ceases, the cycle is reversed. The sampling vessels are polyethlyene and have a collection diameter of 11.26 inches and a capacity of about 3.4 gallons. The openings of the collectors are approximately 8 ft above ground level.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Health Laboratory at Rochester, NY.

DUSTFALL CHEMICAL ANALYSES, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

MONTHLY DUSTFALL

DATE	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 03-OCT 31	0.90	0.28	0.04	0.08	0.21	2.8	0.20	0.28
OCT 31-DEC 01	1.4	0.041	1.1	0.08	1.9	3.5	0.60	0.90
DEC 01-JAN 05	1.8	0.68	3.4	0.07	6.1	5.5	0.63	0.78
MAR 01-APR 02	2.7	0.80	3.9	0.29	6.2	9.1	1.50	2.0
APR 02-MAY 01	1.4	0.29	0.26	0.07	0.60	6.7	1.20	1.3
MAY 01-31	2.0	0.41	0.53	0.29	1.4	4.2	0.25	1.4
MAY 31-JUL 02	2.1	0.54	0.25	0.40	0.30	5.1	0.12	1.7
JUL 02-31	1.4	0.19	0.10	0.12	0.30	2.4	0.07	0.56
JUL 31-SEP 06	1.2	0.19	0.08	0.31	0.90	3.1	0.11	0.42
SEP 06-30	0.68	0.10	0.20	0.19	0.70	1.6	0.05	0.44

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	ACIDITY (MG/L AS CACO3) (00435)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT 03-OCT 31	0.48	0.035	0.019	16	5.3	2.4	13	60
OCT 31-DEC 01	1.18	0.025	0.012	29	5.7	3.4	8	70
DEC 01-JAN 05	1.20	0.035	0.022	55	5.0	4.8	38	40
MAR 01-APR 02	2.80	0.130	0.097	95	4.2	8.9	16	40
APR 02-MAY 01	1.10	0.040	0.010	51	4.3	9.7	<5	20
MAY 01-31	0.88	0.190	0.061	25	6.2	3.7	5	30
MAY 31-JUL 02	0.53	<0.005	0.067	24	6.3	2.1	5	50
JUL 02-31	0.36	0.070	0.019	13	7.5	1.9	5	30
JUL 31-SEP 06	0.28	0.140	0.073	13	7.7	3.0	<5	40
SEP 06-30	0.19	0.070	0.033	9	6.2	1.0	<5	30

Note; Monthly dustfall samples are dissolved in one liter of deionized water for analysis and concentration are reported on a per liter basis. Thus, a reported calcium concentration of 1.0 mg/L would mean that 1.0 mg of calcium accumulated in the sampler.

CHEMICAL QUALITY OF PRECIPITATION

IRONDEQUOIT CREEK BASIN

431021077315902 AT EMPIRE BOULEVARD, ROCHESTER, NY--continued

WETFALL CHEMICAL ANALYSES, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

MONTHLY WETFALL

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA) (00916)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 03-OCT 31	0.71	0.16	0.05	0.17	0.21	4.2	0.39	0.42
OCT 31-DEC 01	0.22	0.052	0.014	0.02	0.40	2.1	0.22	N0.27
MAR 01-APR 02	0.53	<0.025	0.94	0.15	1.6	1.7	0.05	0.70
APR 02-MAY 01	1.2	0.12	1.6	0.05	2.1	2.0	0.08	0.44
MAY 01-31	3.0	0.49	0.49	0.40	2.2	10	1.40	0.84
MAY 31-JUL 02	0.28	0.05	0.02	<0.02	<0.20	4.2	0.59	0.58
JUL 02-31	0.93	0.22	<0.05	0.31	0.50	7.4	1.10	1.7
JUL 31-SEP 06	3.1	0.96	0.48	1.4	1.3	21	2.10	2.2
SEP 06-30	0.24	0.06	0.05	0.04	0.70	3.2	0.35	0.49

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE LAB (STANDARD UNITS) (00403)	ACIDITY (MG/L AS CACO3) (00435)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)
OCT 03-OCT 31	0.82	0.070	0.046	36	4.3	4.5	8	60
OCT 31-DEC 01	0.47	0.010	0.005	23	4.2	7.1	<5	20
MAR 01-APR 02	0.26	0.010	0.003	14	6.5	2.1	<5	50
APR 02-MAY 01	0.49	0.015	0.005	21	6.3	3.1	7	20
MAY 01-31	1.20	0.420	0.290	52	4.4	10	6	30
MAY 31-JUL 02	0.52	0.015	<0.002	40	4.1	4.9	5	20
JUL 02-31	0.72	0.240	0.198	47	4.1	7.1	<5	30
JUL 31-SEP 06	1.40	1.30	0.705	105	3.8	12	6	50
SEP 06-30	0.44	0.020	0.002	31	4.5	4.2	<5	30

LAKE ONTARIO BASIN

431248077564601 AT SUNY BROCKPORT, NY

LOCATION.--Lat 43°12'48", long 77°56'46", Monroe County, Hydrologic Unit 04130001, at SUNY Brockport on roof of Lennon Hall, on Monroe Ave.,0.35 mi west of New York State Highway 19 and 31.

PERIOD OF RECORD.-- July 1989 to current year (monthly dustfall).
July 1989 to current year (monthly wetfall).
July 1989 to current year (monthly composite).

INSTRUMENTATION.--The composite sample collector is a straight-sided polyethlyene funnel approximately 6.5 inch in diameter that drains into a Teflon receiving bottle. A looped plastic tubing connects the funnel with the receiving bottle to retard evaporation. The polyethlyene funnel is heated during the cold-weather season to aid in complete collection of snow. The receiving bottle is enclosed in an insulated box.

Wet/dry precipitation collector used for wetfall and dustfall samples. An automatic sensor detects precipitation and activates a motor that removes the cover from the wetfall-collection vessel and covers the dustfall-collection vessel. When precipitation ceases, the cycle is reversed. The sampling vessels are polyethlyene and have a collection diameter of 11.26 inch and a capacity of about 3.4 gallons.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Health Laboratory at Rochester, NY.

REMARKS.--Analytical results of samples from two sample collectors at this site (SUNY Brockport East and SUNY Brockport West) were combined to produce a complete record of chemical quality of precipitation.

DUSTFALL CHEMICAL ANALYSES, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

MONTHLY DUSTFALL

DATE	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 03-OCT 31	2.5	0.42	0.11	0.09	0.16	4.6	0.29	0.52
OCT 31-DEC 01	9.7	2.5	2.1	0.28	3.3	17	1.90	5.0
DEC 01-JAN 09	1.4	0.34	1.8	0.05	3.0	3.9	0.63	1.0
JAN 09-31	1.9	0.32	2.4	0.07	3.9	3.4	0.48	0.82
JAN 31-MAR 05	4.0	0.81	2.8	0.08	4.5	8.5	1.20	1.5
MAR 05-APR 02	3.8	0.97	2.6	0.13	4.7	7.3	0.84	1.1
APR 02-MAY 01	7.0	0.99	2.6	0.30	1.5	16	0.64	1.6
MAY 01-31	4.0	0.78	0.23	0.47	1.1	6.7	0.11	2.0
MAY 31-JUL 03	5.2	1.2	0.36	0.50	0.60	10	0.18	1.2
JUL 03-31	2.5	0.28	0.11	0.12	0.20	3.5	0.05	0.58
JUL 31-SEP 06	2.8	0.35	0.12	0.10	0.60	4.0	0.06	0.29
SEP 06-30	2.3	0.60	0.25	0.10	0.90	6.6	0.59	0.91

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	ACIDITY (MG/L AS CACO3) (00435)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT 03-OCT 31	1.10	0.055	0.009	27	6.5	1.9	6	80
OCT 31-DEC 01	6.10	0.130	0.002	117	5.7	7.9	20	140
DEC 01-JAN 09	1.40	0.020	0.013	43	4.8	4.6	15	50
JAN 09-31	1.20	0.015	0.006	35	6.8	1.9	10	40
JAN 31-MAR 05	2.30	0.060	0.004	63	6.5	3.1	14	40
MAR 05-APR 02	3.20	0.040	<0.002	68	6.4	4.0	20	40
APR 02-MAY 01	3.10	0.220	0.034	78	6.8	3.9	23	50
MAY 01-31	1.20	0.330	0.059	36	6.4	3.9	13	30
MAY 31-JUL 03	1.50	<0.005	0.034	45	5.9	1.8	6	60
JUL 03-31	0.82	0.075	0.012	21	7.2	1.1	8	30
JUL 31-SEP 06	0.80	0.075	0.015	24	6.8	2.6	6	40
SEP 06-30	0.81	0.055	0.005	28	4.5	3.6	7	30

Note; Monthly dustfall samples are dissolved in one liter of deionized water for analysis and concentration are reported on a per liter basis. Thus, a reported calcium concentration of 1.0 mg/L would mean that 1.0 mg of calcium accumulated in the sampler.

LAKE ONTARIO BASIN

431248077564601 AT SUNY BROCKPORT, NY-continued

WETFALL CHEMICAL ANALYSES, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

MONTHLY WETFALL

DATE	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 03-OCT 31	0.32	<0.10	0.01	0.05	0.21	2.1	0.17	0.21
OCT 31-DEC 01	0.96	0.15	0.13	0.03	0.40	3.3	0.60	0.46
DEC 01-JAN 09	0.88	0.21	0.78	0.03	1.8	2.1	0.22	0.47
JAN 09-31	0.99	0.21	0.64	0.03	1.5	2.3	0.21	0.60
JAN 31-MAR 05	1.3	0.28	0.80	<0.01	1.4	3.5	0.38	0.68
MAR 05-APR 02	2.6	0.83	1.8	0.15	3.5	9.4	1.50	1.9
APR 02-MAY 01	1.0	0.27	0.12	0.04	0.60	4.4	0.68	0.76
MAY 01-31	0.59	0.15	<0.013	0.13	0.80	3.2	0.67	1.8
MAY 31-JUL 03	0.80	0.17	0.04	0.05	<0.20	6.9	0.94	1.1
JUL 03-31	1.6	0.34	0.06	0.07	0.40	7.2	0.91	1.1
JUL 31-SEP 06	2.8	0.66	0.16	0.15	0.80	14	1.70	1.5
SEP 06-30	0.25	0.06	<0.05	0.01	0.70	2.8	0.27	0.38

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	ACIDITY (MG/L AS CACO3) (00435)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT 03-OCT 31	0.37	0.010	0.002	20	4.6	3.4	<5	<40
OCT 31-DEC 01	0.48	0.010	<0.002	23	4.4	4.1	<5	30
DEC 01-JAN 09	0.61	0.080	0.007	20	5.4	3.5	10	50
JAN 09-31	0.48	0.030	0.005	15	6.2	2.4	5	20
JAN 31-MAR 05	0.88	0.030	0.007	29	4.7	6.1	7	20
MAR 05-APR 02	3.10	0.030	<0.002	66	5.2	5.3	20	40
APR 02-MAY 01	0.62	0.025	0.003	25	4.8	4.4	<5	<10
MAY 01-31	0.54	0.170	0.014	17	5.5	8.0	11	20
MAY 31-JUL 03	0.89	<0.005	<0.002	56	4.0	6.4	<5	40
JUL 03-31	1.10	0.035	<0.002	50	4.1	6.2	<5	20
JUL 31-SEP 06	0.19	0.055	0.006	42	6.0	3.5	5	30
SEP 06-30	0.39	0.010	0.005	25	4.4	9.6	<5	10

LAKE ONTARIO BASIN

431248077564601 SUNY AT BROCKPORT, NY-continued

BULK CHEMICAL ANALYSES, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

MONTHLY COMPOSITE

DATE	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT 03-OCT 31	1.1	0.30	0.04	0.07	0.30	3.4	0.25	0.34
OCT 31-DEC 01	1.4	0.34	0.30	0.06	0.25	4.0	0.29	0.73
DEC 01-JAN 09	0.92	0.23	1.1	0.04	2.0	3.0	0.43	0.95
JAN 09-31	1.4	0.32	1.1	0.04	2.4	2.8	0.33	0.47
JAN 31-MAR 05	1.8	0.42	1.0	<0.00	1.9	4.2	0.58	0.94
MAR 05-APR 02	3.6	0.97	2.5	0.20	3.4	11	1.50	1.9
APR 02-MAY 01	2.1	0.50	0.46	0.09	0.60	5.8	1.10	0.94
MAY 01-31	3.2	0.95	0.20	0.30	1.4	9.8	1.40	2.1
MAY 31-JUL 03	2.0	0.47	0.14	0.30	0.40	11	0.68	1.6
JUL 03-31	3.9	0.80	0.11	0.15	0.50	10	0.73	1.5
JUL 31-SEP 06	5.7	1.2	0.20	0.17	0.75	16	0.16	0.54
SEP 06-30	0.48	0.11	<0.05	0.02	0.70	3.3	0.36	0.48

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	ACIDITY (MG/L AS CACO3) (00435)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
OCT 03-OCT 31	0.59	0.030	0.010	18	5.3	2.5	<5	<40
OCT 31-DEC 01	0.73	0.020	<0.002	23	4.6	5.0	11	60
DEC 01-JAN 09	1.00	0.015	0.010	34	4.8	5.2	11	30
JAN 09-31	0.72	0.020	0.007	23	6.6	1.9	7	20
JAN 31-MAR 05	1.20	0.025	0.010	33	5.1	3.7	7	20
MAR 05-APR 02	2.40	0.055	0.010	71	6.9	3.8	22	40
APR 02-MAY 01	1.00	0.063	0.016	30	6.6	3.9	6	10
MAY 01-31	1.40	0.205	0.036	46	6.4	4.6	7	30
MAY 31-JUL 03	1.50	<0.005	0.002	83	3.8	11	5	30
JUL 03-31	1.40	0.085	0.013	44	5.1	3.0	9	--
JUL 31-SEP 06	0.84	0.120	0.007	52	6.4	2.4	10	70
SEP 06-30	0.48	0.015	0.004	27	4.4	4.6	<5	20

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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