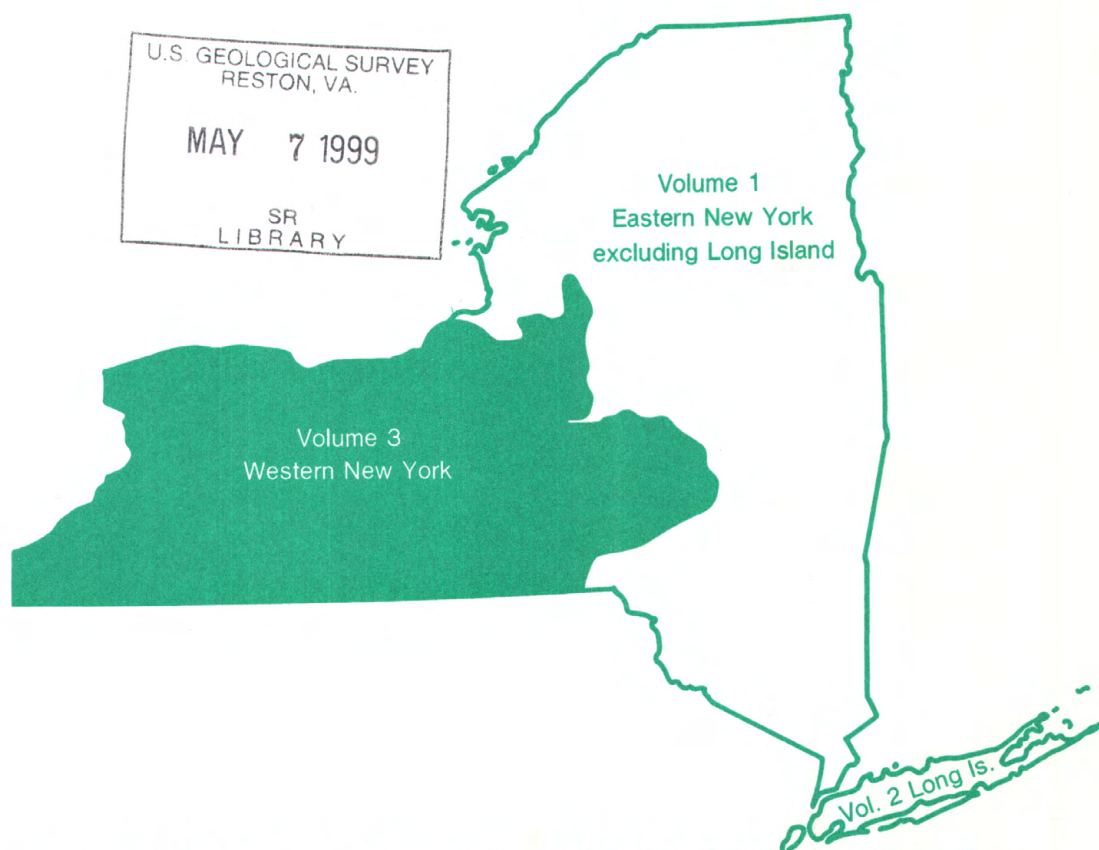


(200)
Ga-3
New York
1995
v.3



Water Resources Data New York Water Year 1995

Volume 3. Western New York



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-95-3
Prepared in cooperation with the State of New York
and with other agencies

CALENDAR FOR WATER YEAR 1995

1994

[illegible]

1995

[illegible]



Water Resources Data New York Water Year 1995

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-95-3
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

**For information on the water program in New York write to
District Chief, Water Resources Division
U.S. Geological Survey
425 Jordan Road
Troy, New York 12180
1995**

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

B. M. Helinsky

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.

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information				
1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE July 1996		3. REPORT TYPE AND DATES COVERED Annual: 1 October 1994 to 30 September 1995
4. TITLE AND SUBTITLE Water Resources Data - New York, Water Year 1995 Volume 3. Western New York			5. FUNDING NUMBERS	
6. AUTHOR(S) J. F. Hornlein, C. O. Szabo, H. J. Zajd, Jr., R. L. Mulks				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) U. S. Geological Survey, Water Resources Division 903 Hanshaw Road Ithaca, New York 14850-1573			8. PERFORMING ORGANIZATION REPORT NUMBER USGS-WDR-NY-95-3	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) U. S. Geological Survey, Water Resources Division 425 Jordan Road Troy, New York 12180			10. SPONSORING / MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES Prepared in cooperation with the State of New York and other agencies				
12a. DISTRIBUTION / AVAILABILITY STATEMENT No restriction on distribution. This report may be purchased from: National Technical Information Service, Springfield, VA 22161			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) Water resources data for the 1995 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 79 gaging stations; stage only at 19 gaging stations; stage and contents at 6 gaging stations; water quality at 7 gaging stations, 9 wells, and 10 partial record stations; water levels at 30 observation wells; daily precipitation totals at 3 sites, and chemical quality of precipitation at 3 sites. Also included are data for 42 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.				
14. SUBJECT TERMS *New York, *Hydrologic data, *Surface water, *Ground water, *Water quality, *Streamflow, Flow rates, Gaging stations, Lakes, Reservoirs, Chemical analysis, Sediments, Water analysis, Water temperature, Water levels, Water wells, Data collection sites.			15. NUMBER OF PAGES 339	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT UNCLASSIFIED		18. SECURITY CLASSIFICATION OF THIS PAGE UNCLASSIFIED		19. SECURITY CLASSIFICATION OF ABSTRACT UNCLASSIFIED
				20. LIMITATION OF ABSTRACT UL

CONTENTS

v

	Page
Preface	iii
List of surface-water stations, in downstream order, for which records are published in this volume	vii
List of ground-water wells, by county or independent city, for which records are published in this volume	ix
List of discontinued surface-water discharge or stage-only stations	x
List of discontinued surface-water-quality stations	xiv
Introduction	1
Cooperation	1
Summary of hydrologic conditions	2
Surface water	2
Water quality	3
Ground water	4
Special networks and programs	7
Explanation of the records	7
Station identification numbers	7
Downstream order system	7
Latitude-longitude system	8
Records of stage and water discharge	8
Data collection and computation	8
Data presentation	9
Station manuscript	9
Data table of daily mean values	10
Statistics of monthly mean data	10
Summary statistics	10
Identifying estimated daily discharge	11
Accuracy of the records	12
Other records available	12
Records of surface-water quality	12
Classification of records	12
Arrangement of records	12
On-site measurements and sample collection	13
Water temperature	13
Sediment	13
Laboratory measurements	13
Data presentation	13
Remark codes	14
Dissolved Trace-Element Concentrations	14
Categories of water-quality data	14
Frequency-of-sampling notation	15
Records of ground-water levels	15
Data collection and computation	15
Data presentation	15
Records of ground-water quality	16
Data collection and computation	16
Data presentation	17
Access to WATSTORE data	17
Definition of terms	18
Publications on Techniques of Water-Resources Investigations	25
Station records, surface water	30
Discharge at partial-record stations and miscellaneous sites	246
Crest-stage partial-record stations	246
Miscellaneous sites	253
Analyses of samples collected at water-quality miscellaneous sites	256
Station records, ground water	275
Ground-water levels	275
Quality of ground water	312
Station records, quantity of precipitation	313
Chemical quality of precipitation	314
Index	319

ILLUSTRATIONS

	Page
Figure 1. Comparison of daily discharge and monthly precipitation at Susquehanna River at Conklin during 1995 water year with median discharge for period 1942-90	5
2. Comparison of daily discharge and monthly precipitation at Allegheny River at Salamanca during 1995water year with median discharge for period 1942-90	6
3. System for numbering wells	8
4. Map showing location of gaging stations and observation wells in western New York...	28
5. Map showing gaging stations and transbasin diversion, Cohocton River-Keuka Lake area	64

TABLE

Table 1. Comparison of annual mean discharge of the 1995 water year with average discharges for the period of record for selected streams.....	2
2. Rank of May 1995 mean discharge in relation to period-of-record mean discharges for May for selected streams	2
3. Comparison of monthly mean discharges for water year 1994 at selected sites with normal monthly discharges	3
	inside of back
4. Factors for converting inch-pound units to International System Units (SI)	cover

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]

	Station number	Page
NORTH ATLANTIC SLOPE BASINS		
SUSQUEHANNA RIVER BASIN		
Susquehanna River:		
Oaks Creek at Index (d)	01496500	30
Ouleout Creek at East Sidney (d)	01500000	32
Susquehanna River at Unadilla (d)	01500500	34
Unadilla River:		
Butternut Creek at Morris (d)	01502000	36
Unadilla River at Rockdale (d)	01502500	38
Susquehanna River at Conklin (d)	01503000	40
Chenango River at Sherburne (d)	01505000	42
Tioughnioga River at Cortland (d)	01509000	44
Otselic River at Cincinnatus (d)	01510000	46
Chenango River near Chenango Forks (d)	01512500	48
Susquehanna River near Waverly (d)	01515000	50
Tioga River (head of Chemung River) at Lindley (d)	01520500	52
Canisteo River at Arkport (d)	01521500	54
Canacadea Creek near Hornell (d)	01523500	56
Canisteo River below Canacadea Creek, at Hornell (d)	01524500	58
Tioga River near Erwins (d)	01526500	60
Cohocton River:		
Fivemile Creek near Kanona (d)	01528000	62
Diversion from Waneta Lake to Keuka Lake at Keuka (d)	01528700	64
Cohocton River near Campbell (d)	01529500	65
Chemung River at Corning (d)	01529950	67
Newtown Creek at Elmira (d)	01530500	69
Chemung River at Chemung (dc)	01531000	71
Lakes and reservoirs in Susquehanna River basin (de)		73
Diversion of water affecting the Susquehanna River basin (d)		75
* * * * *	*	*
OHIO RIVER BASIN		
ALLEGHENY RIVER BASIN		
Allegheny River (head of Ohio River) at Salamanca (d)	03011020	76
Cassadaga Creek:		
Chautauqua Lake (head of Chadakoin River) at Bemus Point (e)	03013946	78
Chadakoin River at Falconer (d)	03014500	79
Lakes in Allegheny River basin (e)		81
* * * * *	*	*
ST. LAWRENCE RIVER BASIN		
Lake Erie:		
STREAMS TRIBUTARY TO LAKE ERIE		
Cattaraugus Creek at Gowanda (d)	04213500	82
Buffalo Creek (head of Buffalo River) at Gardenville (d)	04214500	84
Cayuga Creek near Lancaster (d)	04215000	86
Buffalo River:		
Cazenovia Creek at Ebenezer (d)	04215500	88
Lake Erie at Buffalo (e)	04215900	90

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		
Niagara River at Buffalo (d)	04216000	91
Niagara River at Anderson Park, Buffalo (e).....	04216060	93
STREAMS TRIBUTARY TO NIAGARA RIVER		
Black Rock Canal at Black Rock Lock, Buffalo (e)	04216218	94
Niagara River at Black Rock Lock, Buffalo (e).....	04216220	95
Tonawanda Creek at Attica (d)	04216418	96
Tonawanda Creek at Batavia (d).....	04217000	98
Murder Creek near Akron (d)	04217750	100
Tonawanda Creek at Rapids (d).....	04218000	102
Ellicott Creek below Williamsville (d).....	04218518	104
Erie (Barge) Canal at Lock 30, Macedon (d).....	04219000	106
Niagara River (Lake Ontario) at Fort Niagara (cbts)	04219640	107
Lake Ontario:		
STREAMS TRIBUTARY TO LAKE ONTARIO		
Northrup Creek at North Greece (d)	0422026250	110
Genesee River at Wellsville (d)	04221000	117
Genesee River at Portageville (d)	04223000	119
Mount Morris Lake near Mount Morris (e)	04224000	121
Canaseraga Creek above Dansville (d)	04224775	122
Canaseraga Creek at Shakers Crossing (d)	04227000	124
Genesee River near Mount Morris (d).....	04227500	126
Conesus Lake near Lakeville (e).....	04227980	128
Genesee River at Avon (d).....	04228500	129
Honeoye Lake (head of Honeoye Creek) near Honeoye (e).....	04228845	131
Honeoye Creek at Honeoye Falls (d)	04229500	132
Oatka Creek at Warsaw (d).....	04230380	134
Oatka Creek at Garbutt (d).....	04230500	136
Genesee River at Ballantyne Bridge near Mortimer (e)	04230650	138
Black Creek at Churchville (d).....	04231000	139
Genesee River at Rochester (d).....	04232000	141
Irondequoit Creek at Railroad Mills, near Fishers, N.Y. (dct)	04232034	143
Allen Creek:		
East Branch Allen Creek at Pittsford (dct)	0423204920	149
Allen Creek near Rochester (dct)	04232050	156
Irondequoit Creek at Blossom Road, Rochester (dct)	0423205010	162
Irondequoit Creek at Empire Boulevard, Rochester (dct)	0423205025	171
Sterling Creek at Sterling (d)	04232100	180
Seneca River (head of Oswego River):		
Seneca Lake at Watkins Glen (e).....	04232400	182
Keuka Inlet (Keuka Lake) at Hammondsport (e)	04232450	183
Keuka Lake Outlet at Dresden (d).....	04232482	184
Cayuga Inlet near Ithaca (d).....	04233000	186
Cayuga Inlet (Cayuga Lake) at Ithaca (e)	04233500	188
Fall Creek near Ithaca (d).....	04234000	189
Clyde River:		
Great Brook below Victor (d)	04234232	191
Canandaigua Lake at Canandaigua (e)	04234500	194
Canandaigua Outlet at Chapin (d)	04235000	195
Flint Creek at Phelps (d).....	04235250	197
Black Brook at Tyre (d).....	04235276	199
Owasco Lake near Auburn (e)	04235396	201
Owasco Outlet near Auburn (d).....	04235500	202
Skaneateles Lake at Skaneateles (e).....	04236000	204

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

(Continued)

	Station number	Page
ST. LAWRENCE RIVER MAIN STEM--Continued		
ST. LAWRENCE RIVER BASIN--Continued		
Lake Ontario--Continued		
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued		
Seneca River at Baldwinsville (d)	04237500	205
Onondaga Creek (head of Onondaga Lake Outlet):		
Tributary #6 below main mudboil depression area (dcs)	04237946	207
Onondaga Reservoir near Nedrow (e)	04238500	213
Onondaga Creek at Dorwin Avenue, Syracuse (d)	04239000	214
Onondaga Creek at Spencer Street, Syracuse (d)	04240010	216
Onondaga Lake:		
Harbor Brook at Syracuse (d)	04240100	218
Harbor Brook at Hiawatha Boulevard, Syracuse (d)	04240105	220
Ley Creek at Park Street, Syracuse (d)	04240120	222
Ninemile Creek near Marietta (d)	04240180	224
Ninemile Creek at Camillus (d)	04240200	226
Ninemile Creek at Lakeland (d)	04240300	228
Onondaga Lake at Liverpool (e)	04240495	230
Fish Creek (head of Oneida River):		
East Branch Fish Creek at Taberg (d)	04242500	231
Oneida River (Oneida Lake):		
Oneida Creek at Oneida (d)	04243500	233
Chittenango Creek:		
Limestone Creek:		
Butternut Creek near Jamesville (d)	04245200	235
Meadow Brook at Hurlburt Road, Syracuse (d)	04245236	237
Oneida Lake at Brewerton (e)	04246000	239
Oneida River at Caughdenoy (d)	04246500	240
Oswego River at Lock 7, Oswego (d)	04249000	242
Lakes and reservoirs in streams tributary to Lake Ontario (de)		244
Lake Ontario at Oswego (e)	04249010	245

* * * * *

Discharge at partial-record stations and miscellaneous sites	246
Crest-stage partial-record stations	246
Miscellaneous sites	253
Analyses of samples collected at water-quality miscellaneous sites	256

* * * * *

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

GROUND-WATER LEVELS

Broome County		
Local well number Bm 100	420646075531201	275
Local well number Bm 121	420657075583501	277
Local well number Bm 128	421138075511301	279
Local well number Bm 129	421157075535401	280
Cattaraugus County		
Local well number Ct 121	420530078445201	281
Cayuga County		
Local well number Cy 7	424158076251901	283
Chautauqua County		
Local well number Cu 5	420326079295801	284
Local well number Cu 10	420815079121401	285
Local well number Cu 104	420748079062701	286
Chemung County		
Local well number Cm 46	420829076484801	288

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

GROUND-WATER LEVELS

(Continued)

	Station number	Page
Chenango County		
Local well number Cn 12.....	421556075281602	290
Cortland County		
Local well number C 102.....	423541076114701	292
Madison County		
Local well number M 178.....	430056075354102	293
Monroe County		
Local well number Mo 2.....	430855077304202	294
Local well number Mo 3.....	430854077304601	295
Local well number Mo 659.....	430932077311501	296
Local well number Mo 663.....	430912077313301	297
Local well number Mo 664.....	430912077313302	298
Local well number Mo 665.....	430928077313802	299
Local well number Mo 666.....	430928077313803	300
Local well number Mo 667.....	430928077314001	301
Local well number Mo 668.....	430928077314002	302
Niagara County		
Local well number Ni 69.....	430655079022001	303
Local well number Ni 70.....	431308078544501	304
Ontario County		
Local well number Ot 900.....	425840077133901	305
Otsego County		
Local well number Og 23.....	424136075025101	306
Steuben County		
Local well number Sb 472.....	422445077203301	307
Local well number Sb 473.....	420811077021501	308
Wyoming County		
Local well number Wo 1.....	423739077595501	309
Local well number Wo 4.....	423743078070802	310

* * * * *

Quality of ground water.....	312
Quantity of precipitation at miscellaneous sites.....	313
Quality of precipitation at miscellaneous sites.....	314

* * * * *

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
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

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			
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
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	.70	1932-68
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, 1973-86
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
Cayuta Creek near Alpine, NY (d)	01515500	17.6	1930-31
Canisteo River at Hornell, NY (d)	01522000	93.7	1938-43
Karr Valley Creek at Almond, NY (d)	01522500	27.4	1937-68
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
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

‡ 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)
ALLEGHENY RIVER BASIN--continued			
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
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

‡ 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			
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
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
Catharine Creek at Montour Falls, NY (d)	04232200 *	41.1	1975-78†
Kendig Creek near MacDougall, NY (d)	04232630 *	13.8	1965-68
Seneca River at Lock 4, Waterloo, NY (d)	04232650	742.0	1931-67, 1969-79
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
Clyde River at Lock 26 Clyde, NY (d)	04235271	845.0	1935-67
Owasco Inlet at Moravia, NY (d)	04235300	106.0	1960-68
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 Benthuyzen 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
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

† No winter record.

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	Temp. S.C.	1956-92
Susquehanna River at Johnson City, NY	01513110	3,891	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	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	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, NY04240145		3.14	Sed.	1981-83
Spafford Creek at Sawmill Road near Spafford, NY04240150		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 Benthuyssen 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	Temp., S.C.	1975-81

WATER RESOURCES DATA - NEW YORK, 1995

Volume 3.--Western New York

INTRODUCTION

Water resources data for the 1995 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 79 gaging stations; stage only at 19 gaging stations; stage and contents at 6 gaging stations; water quality at 7 gaging stations, 9 wells, and 10 partial-record stations; water levels at 30 observation wells; daily precipitation totals at 3 sites, and chemical quality of precipitation at 3 sites. Also included are data for 42 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-95-3." 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. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc-Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc.

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. A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

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 1995, 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 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 CONDITIONS¹Surface Water

Streamflow throughout western New York during the 1995 water year ranged from normal to excessive (upper 25 percent of the record) during the first 4 months of the water year and was deficient (lower 25 percent of the record) for the remainder. Annual mean discharges throughout western New York were well below 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 annual mean discharges of the 1995 water year with annual mean discharges for the period of record for selected streams
[Locations are shown in fig. 1. Discharges are in cubic feet per second.]

	Station	Period of record	Mean annual discharge for period of record	1995 water year mean discharge	Percent difference
01503000	Susquehanna River at Conklin	1913-94	3,594	2,166	- 39.7
01531000	Chemung River at Chemung	1906-13, 1915-94	2,577	1,850	- 28.2
03011020	Allegheny River at Salamanca	1904-94	2,789	2,054	- 26.4
04213500	Cattaraugus Creek at Gowanda	1940-94	744	523	- 29.7
04217000	Tonawanda Creek at Batavia	1944-94	213	134	- 37.1
04221000	Genesee River at Wellsville	1955-58, 1973-94	393	267	- 32.1
04234000	Fall Creek near Ithaca	1926-94	186	138	- 25.8

The 1995 water year began with normal temperatures and below average precipitation. October 1994 was the third driest October for the State since record keeping began in 1895. Streamflow in October was normal at most monitored sites despite the dry weather. In November, precipitation was average in western New York and above average in the Western Plateau; as a result, November streamflow in most of the Western Plateau was excessive.

Table 2.--Rank of May 1995 mean discharge in relation to period-of-record mean discharges for May for selected streams.
[Locations are shown in fig. 1.]

	Station	May 1995 mean discharge (ft ³ /s)	nth lowest monthly mean for period-of-record May mean discharges	Years of record
01503000	Susquehanna River at Conklin	1,668	5th	81
01531000	Chemung River at Chemung	1,116	9th	89
03011020	Allegheny River at Salamanca	1,653	14th	92
04213500	Cattaraugus Creek at Gowanda	301	4th	56
04217000	Tonawanda Creek at Batavia	65.8	1st	52
04221000	Genesee River at Wellsville	164	2nd	27

Warm temperatures and below-average precipitation occurred in most of western New York during December. Streamflow either remained normal or decreased into the normal range throughout most of the State. Lake-effect snowfall was well below average in Syracuse and Buffalo.

Mild temperatures and average to above-average precipitation occurred in January. Streamflow in western New York either remained normal or increased into excessive range. In February, temperatures dropped to below average throughout the State. Most of western New York was drier than normal during February; the lowest February precipitation totals, 74 percent of normal, were recorded in the Western Plateau and Central Lakes. Streamflow at most monitored sites in western New York was in the deficient range. Below-average snowfall accumulations were reported for all of western New York for the winter season (December through February).

March was the 8th driest March on record in New York, and precipitation was below average across most of western New York. March streamflow at many monitored sites either was already deficient or became deficient, but normal flows were maintained at all other sites by snowmelt from unseasonably high temperatures.

The dry weather in western New York continued into April. Most of the State received only 50 to 80 percent of the normal April precipitation. Streamflow at all monitored sites was in the deficient range. Tonawanda Creek at Batavia and Cattaraugus Creek at Gowanda both had the second-lowest monthly mean discharges for April.

Warm, dry weather continued through May. Streamflow remained in the deficient range, and Tonawanda Creek at Batavia and Genesee River at Wellsville, had respectively the lowest and the second-lowest monthly mean discharges for May. Monthly mean stream discharges throughout western New York dropped to near-record lows by the end of May (table 2.).

Precipitation during the remainder of the year consisted of scattered showers and thunderstorms. Below-average quantities of rain, combined with the abnormally warm temperatures and dry soil conditions caused a midsummer water shortage throughout western New York. It was the fifth driest June in New York State in the last 101 years. Precipitation totals for the 5 month period from February through June were the lowest on record throughout the State. The lack of precipitation, combined with continued above-average temperatures, kept streamflow in the deficient range through June. Moderate to mild drought conditions, as defined by the Palmer Drought Severity Index, were reported throughout most of western New York.

Table 3.--Comparison of monthly mean discharges for water year 1995
at selected sites with normal monthly discharges .
[Locations are shown in fig. 1.]

	Station	Period of record used	Monthly discharge as a percentage of normal monthly discharges			
			June	July	Aug.	Sep.
01503000	Susquehanna River at Conklin	1913-94	60	38	34	29
01531000	Chemung River at Chemung	1915-94	53	45	63	59
03011020	Allegheny River at Salamanca	1904-94	56	50	50	34
04213500	Cattaraugus Creek at Gowanda	1940-94	46	93	94	47
04217000	Tonawanda Creek at Batavia	1944-94	43	85	108	49
04221000	Genesee River at Wellsville	1955-58, 1973-94	39	33	41	24
04234000	Fall Creek near Ithaca	1925-94	73	55	47	42

Streamflow in most of western New York remained deficient during July and August. In August, the Genesee River at Wellsville had the third lowest monthly mean discharge on record for the third consecutive month.

Precipitation totals remained below average in September. The Great Lakes and Central Lakes were the driest regions in the State; each with only 62 percent of the average amount. Streamflow at almost all monitored sites was below normal. Mean flows were in the deficient range for the 6th consecutive month at Susquehanna River at Conklin and for the 8th consecutive month at Genesee River at Wellsville.

Water Quality

Analyses of stream-water samples and associated discharge data from the one National Stream Quality Accounting Network (NASQAN) station Niagara River at Fort Niagara, indicated no significant changes in chemical or biological quality from previous years. Nearly all values of the constituents analyzed were within the historical range for this site. Water samples were analyzed by the USGS National Water Quality Laboratory at Arvada, Colo., and the USGS Pennsylvania District sediment laboratory at LeMoyne, Pa.

Water samples from the Tully Valley mudboil/depression area (MDA) indicated an increase in the yearly mean suspended-sediment concentrations at the outflow from 1.41 tons per day in 1994 to 1.80 tons per day in 1995. This value is much lower than the mean of 29.8 tons per day in the 1992 water year, before remediation projects were implemented. Daily mean sediment volumes increased from 0.7 cubic yards per day in 1994 to 1.16 cubic yards per day in 1995, but this volume is down from the 19.6 cubic yards per day measured in the 1992 water year. Sediment discharge from the mudboils at present is 50 to 80 percent clay, and nearly all particles are silt size or smaller. Comparison of water upstream of the MDA with outflow from the MDA indicated that the source of the water for some mudboils is the confined freshwater aquifer, whereas for others it is the underlying, confined brackish-water aquifer. Specific conductance of water samples from the freshwater aquifer ranged from 400 $\mu\text{S}/\text{cm}$ (microsiemens per centimeter at 25° Celsius) to almost 900 $\mu\text{S}/\text{cm}$, dissolved chloride concentrations of 37 to 430 mg/L, and dissolved-solids concentrations of 215 to 463 mg/L. Water samples from the brackish-water aquifer had specific conductance values ranged from 17,000 to 28,000 $\mu\text{S}/\text{cm}$, chloride concentrations ranged from 2,000 to 7,100 mg/L, and dissolved-solids concentrations ranged from 4,200 to 12,800 mg/L.

Samples of atmospheric deposition, ground water, and surface water were collected at several sites throughout Monroe County for chemical analyses. 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 above average at the end of the 1994 water year and remained above average through October 1994, despite near-record low precipitation. Above-average precipitation in November, and average precipitation in December, combined with the decline of evapotranspiration at the end of the growing season, kept ground-water levels above average through November and December. Water levels rose during January in response to mild temperatures and above-average precipitation in western New York, but fell in February, at most observation wells in response to the cold, dry weather. The only exceptions were wells in Monroe County, where the highest water levels for the 1995 water year were recorded at 6 of the 9 wells during February. Water levels in March rose in response to snowmelt caused by unseasonably warm temperatures, although precipitation totals were below average. The highest water levels for the 1995 water year were recorded at most observation wells in western New York during January through March. Continued below-average precipitation in April caused water levels to drop to below average. In May and June, below-average precipitation and increased evapotranspiration caused a continued decline in ground-water levels as the growing season started. Mild to moderate drought conditions throughout the summer months caused ground-water levels to continue their steady decline. The lowest water levels for the 1995 water year were recorded at most observation wells in western New York during August and 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.

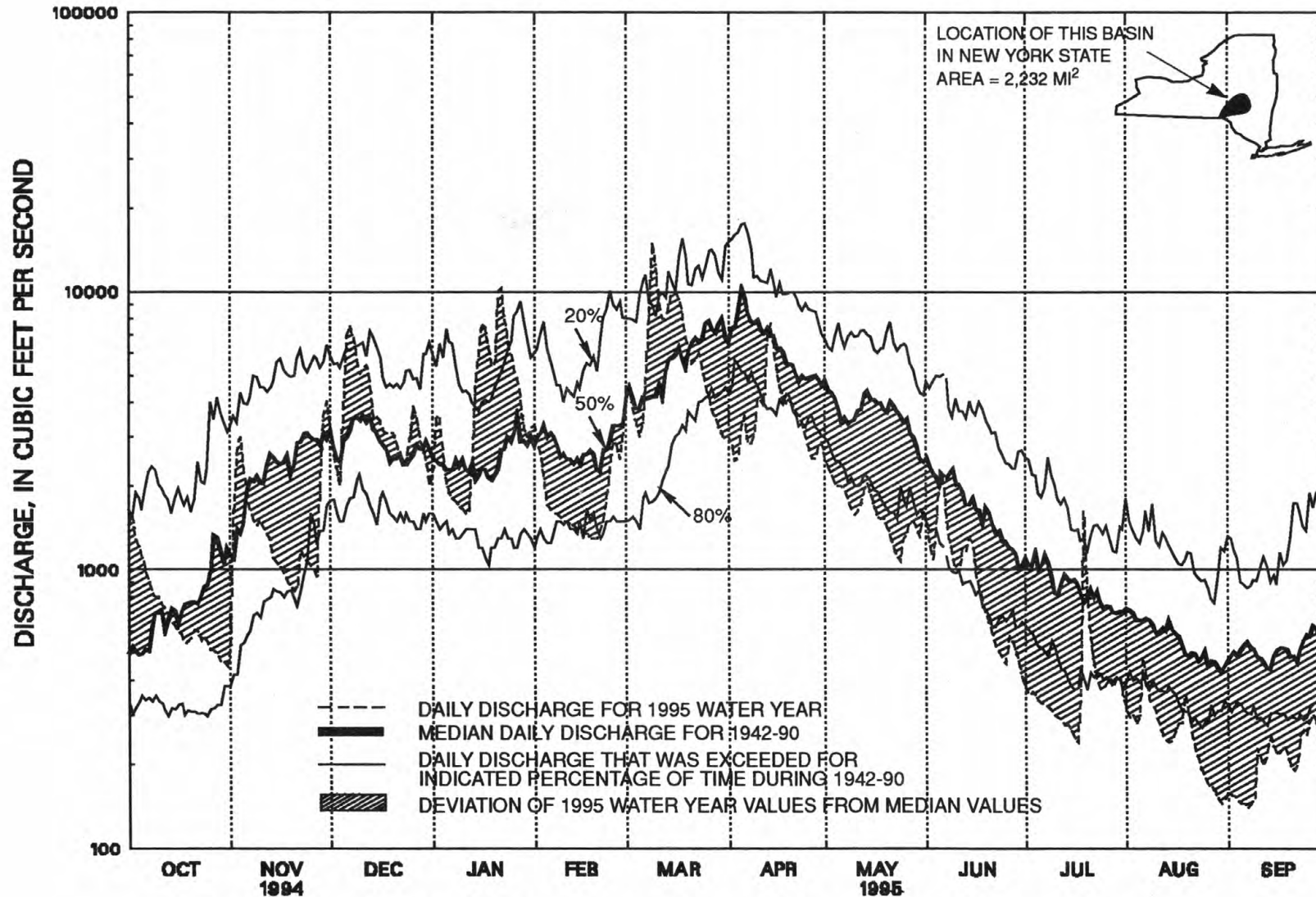


Figure 1.--Comparison of discharge at Susquehanna River at Conklin during 1995 water year with median discharge for 1942-90.

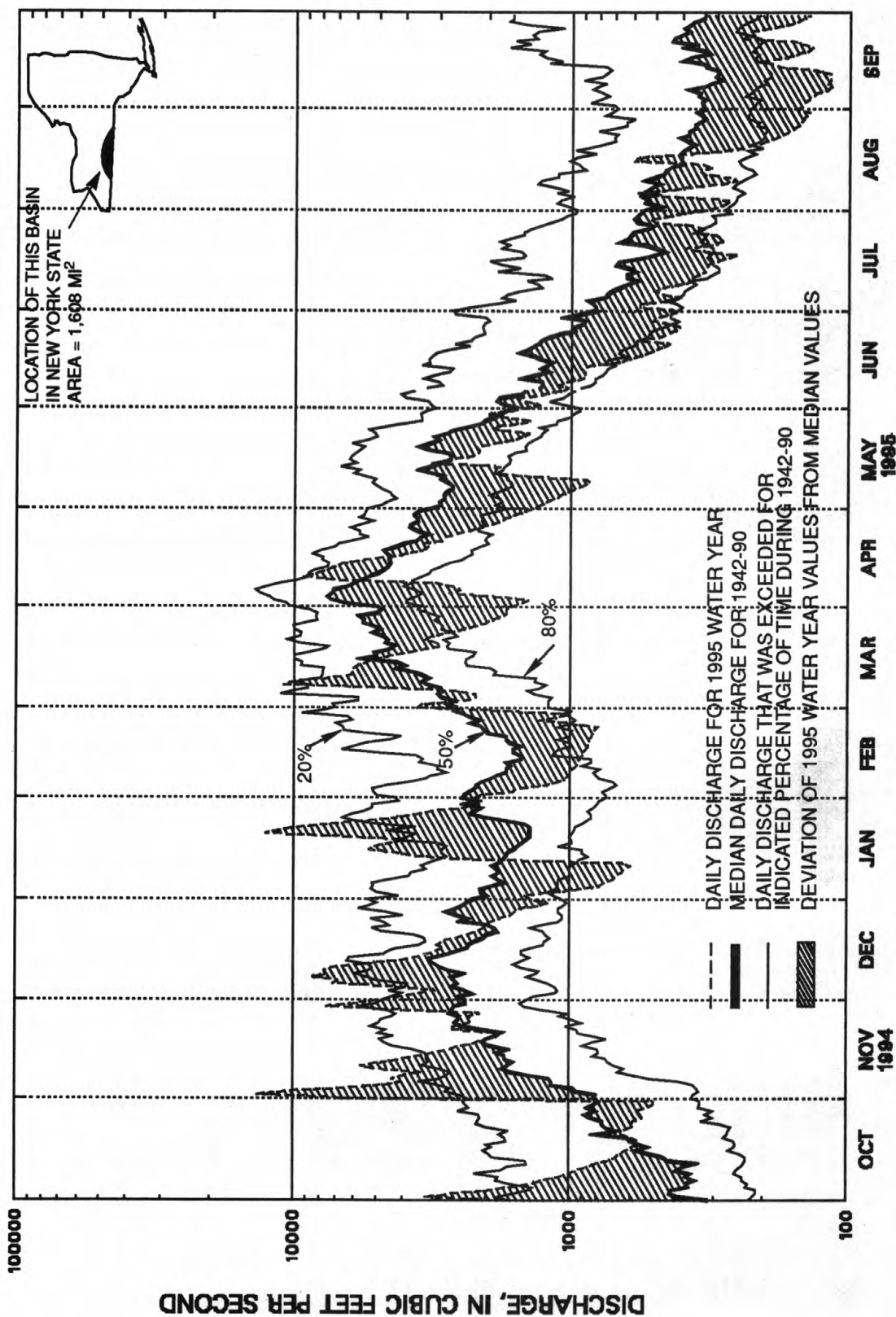


Figure 2.-- Comparison of discharge at Allegheny River at Salamanca during 1995 water year with median discharge for 1942-90.

WATER RESOURCES DATA - NEW YORK, 1995
SPECIAL NETWORKS AND PROGRAMS

7

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. The 142 sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U. S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

NASQAN was redesigned in 1995 and will be known as NASQAN II beginning in 1996. NASQAN II will focus on four of the largest river basins in the Nation-- the Mississippi, the Columbia, the Colorado, and the Rio Grande. The objective of NASQAN II is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

EXPLANATION OF THE RECORDS

The surface-water and ground-water data published in this report are for the water year that began October 1, 1993, and ended September 30, 1993. 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 indentation in a list of stations in the front of the report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

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.

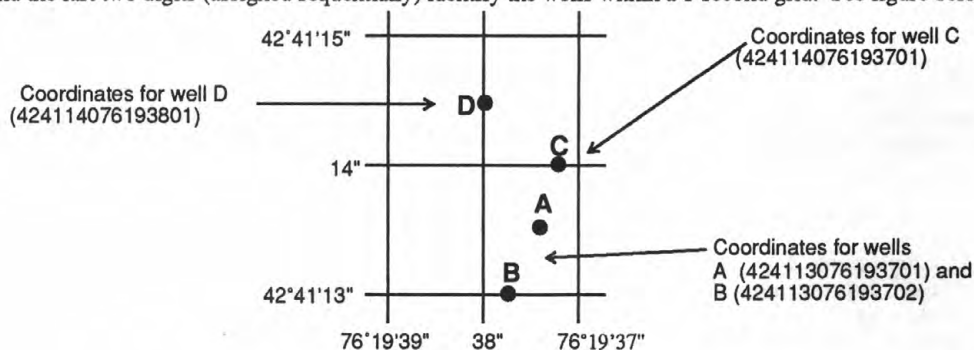


Figure 3. System for numbering wells (latitude and longitude)

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 depleted 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, unless 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 may 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 follows 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 called 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 ft³/s; to tenths between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures above 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the 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., or Doraville, Ga. 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 precedes 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

E

>

<

K

REMARK

Estimated value

Actual value is known to be greater than the value shown

Actual value is known to be less than the value shown

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 ($\mu\text{g/L}$) 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 $\mu\text{g/L}$ 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 nitrogen 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. | (d) 10 to 20 samples per year. |
| (b) 3 to 5 samples per year. | (e) more than 20 samples per year. |
| (c) 6 to 9 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 five 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 ordinarily 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 Storage 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; and, as noted in the introduction, on CD-ROM discs. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc. 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.) A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

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 carbonaceous organic pollution from sewage or industrial wastes.

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

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 (FT³/S, ft³/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 ($\mu\text{g/g}$) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

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

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

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 Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

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.
Silt004 – .062	Sedimentation.
Sand062 – 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 naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene 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 [$\text{mg C}/(\text{m}^2 \cdot \text{time})$ for periphyton and macrophytes and $\text{mg C}/(\text{m}^3 \cdot \text{time})$ for phytoplankton] are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

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

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

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 occurring 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 multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map 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:

KingdomAnimal
Phylum Arthropoda
Class..... Insecta
Order Ephemeroptera
Family.....Ephemeridae
Genus Hexageria
SpeciesHexagenia 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."

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L.M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W. S. Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.
- 2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W. E. Teasdale: USGS--TWRI Book 2, Chapter F1. 1989. 97 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurement at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. *Measurement of time of travel in streams by dye tracing*, by F. A. Kilpatrick and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1989. 27 pages.
- 3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. *Measurement of discharge by the moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A12. *Fluorometric procedures for dye tracing*, Revised, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 34 pages.

- 3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.
- 3-A18. *Determination of stream reaeration coefficients by use of tracers*, by F. A. Kilpatrick, R. E. Rathbun, Nobuhiro Yotsukura, G. W. Parker, and L. L. DeLong: USGS--TWRI Book 3, Chapter A18. 1989. 52 pages.
- 3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 31 pages.
- 3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A20. 1993. 38 pages.
- 3-A21. *Stream-gaging cableways*, by C. Russell Wagner: USGS--TWRI Book 3, Chapter A21. 1995. 56 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. *Regression modeling of ground-water flow*, by R. L. Cooley and R. L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.
- 3-B4. *Supplement 1. Regression modeling of ground-water flow - Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems*, by R. L. Cooley: USGS--TWRI Book 3, Chapter B4. 1993. 8 pages.
- 3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems--An introduction*, by O. L. Franke, T. E. Reilly, and G. D. Bennett: USGS--TWRI Book 3, Chapter B5. 1987. 15 pages.
- 3-B6. *The principle of superposition and its application in ground-water hydraulics*, by T. E. Reilly, O. L. Franke, and G. D. Bennett: USGS--TWRI Book 3, Chapter B6. 1987. 28 pages.
- 3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow*, by E. J. Wexler: USGS--TWRI Book 3, Chapter B7. 1992. 190 pages.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M.J. Fishman and L. C. Friedman, editors: USGS--TWRI Book 5, Chapter A1. 1989. 545 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R. L. Wershaw, M. J. Fishman, R. R. Grabbe, and L. E. Lowe: USGS--TWRI Book 5, Chapter A3. 1987. 80 pages.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by L. J. Britton and P. E. Greeson, editors: USGS--TWRI Book 5, Chapter A4. 1989. 363 pages.
- 5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L.L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M. G. McDonald and A. W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model*, by S. A. Leake and D. E. Prudic: USGS--TWRI Book 6, Chapter A2. 1991. 68 pages.
- 6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual*, by L. J. Torak: USGS--TWRI Book 6, Chapter A3. 1993. 136 pages.
- 6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions*, by R. L. Cooley: USGS--TWRI Book 6, Chapter A4. 1992. 108 pages.
- 6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details*, by L. J. Torak: USGS--TWRI Book 6, Chapter A5, 1993. 243 pages.
- 7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

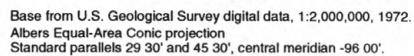
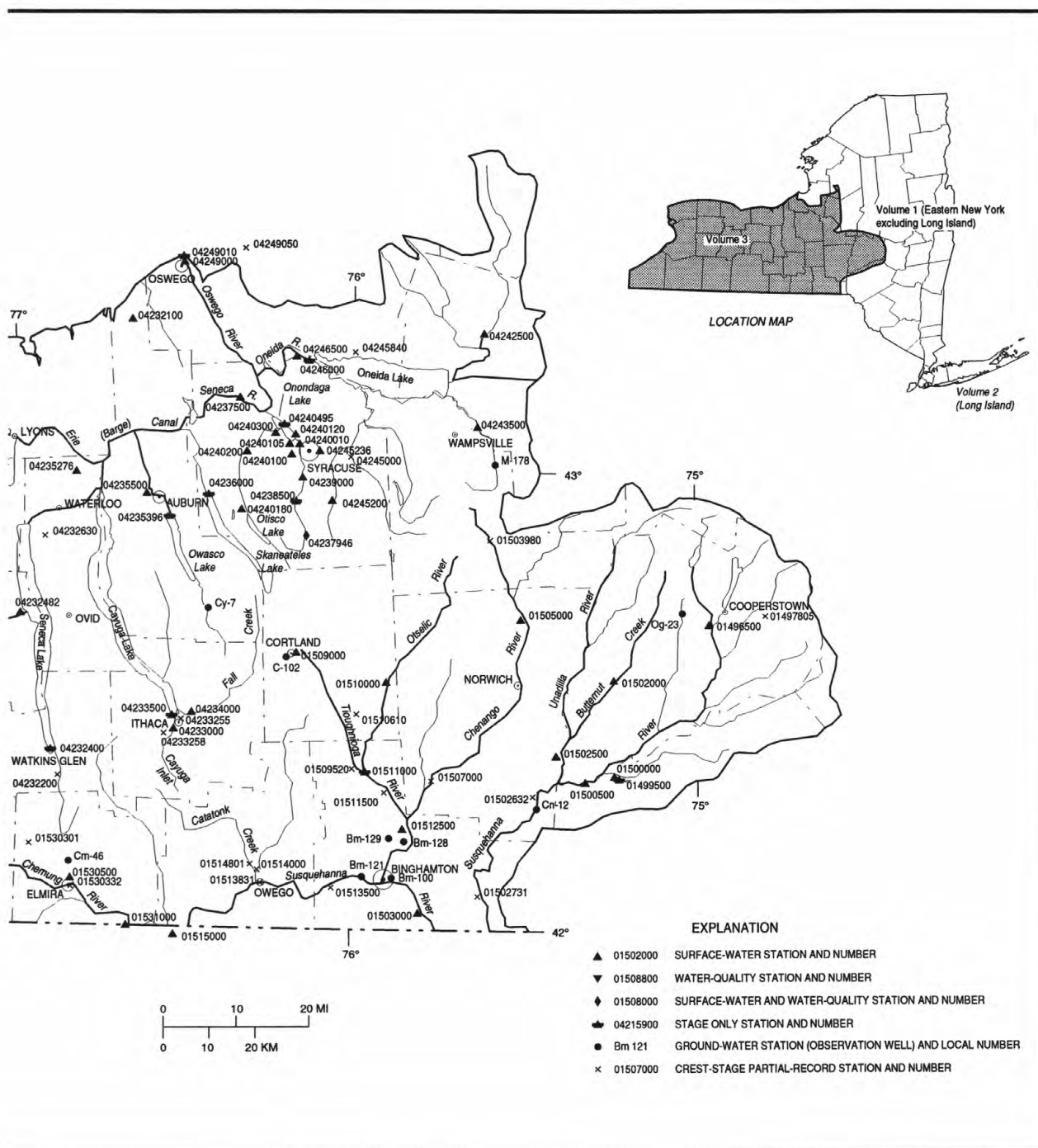


FIGURE 4. LOCATION OF GAGING STATIONS AND



OBSERVATION WELLS IN WESTERN NEW YORK

01496500 OAKS CREEK AT INDEX, NY

LOCATION.--Lat 42°39'56", long 74°57'36", Otsego County, Hydrologic Unit 02050101, on right bank 200 ft upstream from bridge on State Highway 28 at Index, 0.5 mi upstream from mouth, and 3.0 mi southwest of Cooperstown.

DRAINAGE AREA.--102 mi².

PERIOD OF RECORD.--November 1929 to September 1932, March 1937 to March 1995 (discontinued).

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,174.47 ft above sea level. Prior to Sept. 30, 1932, nonrecording gage at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Prior to June 1964 and since October 1979 flow regulated by natural storage in Canadarago Lake. June 1964 to September 1979 flow regulated by gates at Panther Mountain Dam at outlet. Satellite gage-height and precipitation telemeter at station. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT PERIOD.--October 1994 to March 1995: Peak discharges greater than base discharge of 900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
March 8	1600	*580	*4.48				

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	60	12	96	e140	e180	146	---	---	---	---	---	---
2	66	64	94	e140	e160	e120	---	---	---	---	---	---
3	62	76	93	e130	e150	e110	---	---	---	---	---	---
4	58	70	92	e120	e140	e110	---	---	---	---	---	---
5	57	103	156	e105	e120	e120	---	---	---	---	---	---
6	54	103	259	e105	e115	143	---	---	---	---	---	---
7	52	104	229	e105	e110	186	---	---	---	---	---	---
8	50	103	231	e100	e110	484	---	---	---	---	---	---
9	49	99	219	e100	e110	316	---	---	---	---	---	---
10	49	97	e210	e100	e105	e325	---	---	---	---	---	---
11	49	94	e220	104	e105	e340	---	---	---	---	---	---
12	48	88	e220	129	e100	e350	---	---	---	---	---	---
13	45	85	e210	213	e100	412	---	---	---	---	---	---
14	43	83	224	225	e95	467	---	---	---	---	---	---
15	26	79	208	269	e90	493	---	---	---	---	---	---
16	16	77	196	284	e94	509	---	---	---	---	---	---
17	11	74	194	278	e100	482	---	---	---	---	---	---
18	8.4	72	198	267	e108	458	---	---	---	---	---	---
19	e5.4	69	194	262	e100	431	---	---	---	---	---	---
20	e5.0	67	182	296	e98	405	---	---	---	---	---	---
21	7.7	65	176	370	e96	401	---	---	---	---	---	---
22	e6.3	68	171	341	e94	399	---	---	---	---	---	---
23	e5.7	65	166	323	e94	373	---	---	---	---	---	---
24	e4.9	63	176	311	e98	350	---	---	---	---	---	---
25	e4.8	60	188	299	e92	324	---	---	---	---	---	---
26	e4.5	61	e170	e250	e92	301	---	---	---	---	---	---
27	e4.7	59	e150	e230	e90	277	---	---	---	---	---	---
28	e4.3	80	e140	e180	140	257	---	---	---	---	---	---
29	e4.2	127	e130	e180	---	239	---	---	---	---	---	---
30	e4.0	101	e100	e190	---	231	---	---	---	---	---	---
31	e4.6	---	e130	e200	---	225	---	---	---	---	---	---
TOTAL	869.5	2368	5422	6346	3086	9784	---	---	---	---	---	---
MEAN	28.0	78.9	175	205	110	316	---	---	---	---	---	---
MAX	66	127	259	370	180	509	---	---	---	---	---	---
MIN	4.0	12	92	100	90	110	---	---	---	---	---	---
CFSM	.27	.77	1.71	2.01	1.08	3.09	---	---	---	---	---	---
IN.	.32	.86	1.98	2.31	1.13	3.57	---	---	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1995, BY WATER YEAR (WY)

MEAN	80.0	143	187	172	182	339	489	223	105	54.8	35.6	48.8
MAX	597	374	465	388	522	777	1151	501	288	186	217	314
(WY)	1978	1973	1973	1952	1981	1977	1940	1983	1943	1976	1992	1977
MIN	2.32	3.03	19.6	17.9	25.4	97.7	128	56.5	10.8	5.19	2.71	1.71
(WY)	1965	1965	1965	1931	1980	1941	1946	1985	1964	1962	1965	1964

SUSQUEHANNA RIVER BASIN
01496500 OAKS CREEK AT INDEX, NY--Continued

31

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		WATER YEARS 1930 - 1995	
ANNUAL TOTAL	66589.5		172	
ANNUAL MEAN	182		263	
HIGHEST ANNUAL MEAN			83.6	1943
LOWEST ANNUAL MEAN			2280	1965
HIGHEST DAILY MEAN	1340	Apr 17		Mar 22 1948
LOWEST DAILY MEAN	4.0	Oct 30	1.4	Sep 21 1964
ANNUAL SEVEN-DAY MINIMUM	4.4	Oct 25	1.5	Sep 18 1964
INSTANTANEOUS PEAK FLOW			a3320	Oct 17 1977
INSTANTANEOUS PEAK STAGE			7.62	Oct 17 1977
INSTANTANEOUS LOW FLOW			1.3	b
ANNUAL RUNOFF (CFSM)	1.79		1.68	
ANNUAL RUNOFF (INCHES)	24.29		22.88	
10 PERCENT EXCEEDS	388		410	
50 PERCENT EXCEEDS	99		102	
90 PERCENT EXCEEDS	44		14	

a From rating extended above 1,700 ft³/s.

b Aug. 4, 5, 1962.

SUSQUEHANNA RIVER BASIN

01500000 OULEOUT CREEK AT EAST SIDNEY, NY

LOCATION.--Lat 42°20'00", long 75°14'07", Delaware County, Hydrologic Unit 02050101, on right bank 0.2 mi 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 mi².

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.--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 ft³/s, in July 1935, was determined by computation of flow over dam and from floodmarks.

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	20	20	237	246	152	331	126	42	54	4.6	6.1	6.4
2	20	81	211	232	146	192	111	30	53	4.7	5.8	7.1
3	20	134	181	135	99	186	109	31	53	7.4	8.4	6.7
4	20	117	180	111	86	199	157	31	78	9.6	11	6.7
5	19	87	330	95	86	182	186	31	90	9.6	11	6.7
6	17	74	438	124	68	224	127	32	89	9.6	11	6.7
7	17	62	370	123	61	303	129	32	62	9.6	11	8.5
8	17	42	415	119	80	807	153	32	39	9.6	11	11
9	17	55	325	135	88	1050	161	54	34	9.6	11	11
10	18	61	251	116	88	700	197	70	34	9.6	11	11
11	18	61	347	92	87	451	209	70	34	9.6	12	11
12	18	42	257	111	78	414	208	70	70	9.6	12	11
13	18	30	151	275	70	404	533	70	90	9.6	12	10
14	18	30	146	294	65	518	489	70	63	9.6	12	9.8
15	19	30	174	317	62	581	325	70	32	9.6	12	11
16	19	39	162	433	61	589	290	70	23	9.6	12	11
17	19	44	154	402	61	490	228	70	23	71	12	11
18	19	44	128	307	61	364	204	70	23	91	12	11
19	19	44	134	266	74	286	226	47	23	12	11	11
20	19	44	134	502	81	264	249	38	23	7.8	11	11
21	19	44	116	593	95	245	212	38	23	5.8	11	11
22	19	44	103	382	87	279	167	38	23	5.8	9.8	11
23	19	45	100	348	81	301	153	38	23	5.9	6.7	11
24	19	45	124	309	164	246	122	38	16	6.0	7.2	11
25	19	45	291	263	144	193	85	52	12	6.0	7.8	11
26	19	45	189	226	110	161	77	69	12	9.0	7.8	11
27	19	45	168	200	124	146	65	69	12	12	7.8	11
28	19	145	155	155	269	132	91	68	12	12	7.8	11
29	19	303	156	131	---	132	83	69	7.4	12	7.8	11
30	19	229	114	122	---	141	61	78	5.3	11	6.9	11
31	19	---	91	141	---	155	---	71	---	7.5	5.4	---
TOTAL	580	2131	6332	7305	2728	10666	5533	1658	1135.7	416.3	301.3	299.6
MEAN	18.7	71.0	204	236	97.4	344	184	53.5	37.9	13.4	9.72	9.99
MAX	20	303	438	593	269	1050	533	78	90	91	12	11
MIN	17	20	91	92	61	132	61	30	5.3	4.6	5.4	6.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

MEAN	94.8	178	217	180	202	344	380	194	102	54.5	41.2	55.6
MAX	618	404	517	487	604	690	1117	483	370	305	200	408
(WY)	1978	1973	1960	1979	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

SUSQUEHANNA RIVER BASIN

33

01500000 OULEOUT CREEK AT EAST SIDNEY, NY--Continued

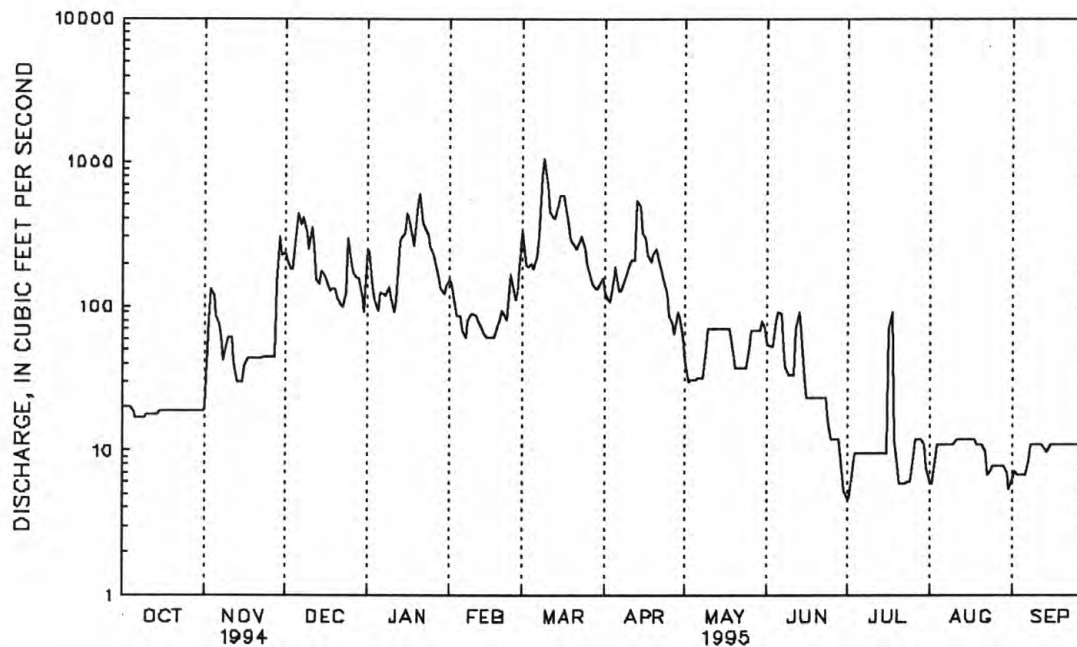
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	65667		39085.9		170	
ANNUAL MEAN	180		107		242	
HIGHEST ANNUAL MEAN					77.9	
LOWEST ANNUAL MEAN					3820	
HIGHEST DAILY MEAN	1770	Apr 9	1050	Mar 9	1.2	Dec 30 1942
LOWEST DAILY MEAN	16	a	4.6	Jul 1	1.8	Aug 13 1949
ANNUAL SEVEN-DAY MINIMUM	17	Oct 6	6.5	Aug 31	1.8	Nov 5 1973
INSTANTANEOUS PEAK FLOW			1200	b	c7250	Dec 30 1942
INSTANTANEOUS PEAK STAGE			3.81	b	d7.62	Dec 30 1942
10 PERCENT EXCEEDS	432		288		400	
50 PERCENT EXCEEDS	87		61		84	
90 PERCENT EXCEEDS	20		9.6		12	

a Feb. 23, Mar. 25.

b Mar. 8, 9.

c From rating curve extended above 4,000 ft³/s.

d Site and datum then in use.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

SUSQUEHANNA RIVER BASIN

01500500 SUSQUEHANNA RIVER AT UNADILLA, NY

LOCATION.--Lat 42°19'17", long 75°19'01", Otsego County, Hydrologic Unit 02050101, on right bank 25 ft 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.--982 mi².

PERIOD OF RECORD.--June 1938 to March 1995 (discontinued).

REVISED RECORDS.--WSP 851: 1938(M). WSP 2103: 1966(M); Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 997.25 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Regulation at times by upstream lakes and reservoirs. Satellite and telephone gage-height telemeters at station. Several measurements of water temperature were made during the period.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Mar. 18, 1936, reached a stage of 16.6 ft, from floodmarks, discharge, 31,300 ft³/s from publications of the Corps of Engineers, Baltimore District.

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	309	199	880	e1300	e1450	2260	---	---	---	---	---	---
2	329	632	722	e1650	e1400	e1600	---	---	---	---	---	---
3	338	872	652	e1200	e1100	e1500	---	---	---	---	---	---
4	320	641	724	e1000	e1000	e1400	---	---	---	---	---	---
5	297	514	1190	e800	e900	e1300	---	---	---	---	---	---
6	279	478	2560	e750	e800	1740	---	---	---	---	---	---
7	270	459	2460	e750	e750	2290	---	---	---	---	---	---
8	261	434	2450	e750	e750	5210	---	---	---	---	---	---
9	256	417	2030	e700	e750	6610	---	---	---	---	---	---
10	274	411	1810	e700	e750	4860	---	---	---	---	---	---
11	265	590	e2000	e700	e700	3920	---	---	---	---	---	---
12	252	365	e1900	e750	e700	3640	---	---	---	---	---	---
13	245	333	e1400	e1900	e700	3810	---	---	---	---	---	---
14	241	329	1510	2390	e700	4860	---	---	---	---	---	---
15	238	321	1520	2500	e650	5070	---	---	---	---	---	---
16	215	300	1380	2950	e700	5120	---	---	---	---	---	---
17	203	264	1330	2820	e850	4680	---	---	---	---	---	---
18	196	249	1350	2370	e900	3980	---	---	---	---	---	---
19	197	226	1380	2150	e800	3390	---	---	---	---	---	---
20	200	277	1280	2710	e800	3030	---	---	---	---	---	---
21	187	294	1170	4350	e900	2850	---	---	---	---	---	---
22	214	321	1040	3850	e900	3150	---	---	---	---	---	---
23	192	330	979	3370	e750	2910	---	---	---	---	---	---
24	170	320	1110	3000	e1300	2560	---	---	---	---	---	---
25	211	294	2200	2680	e1200	2260	---	---	---	---	---	---
26	186	319	1960	2410	e1000	2000	---	---	---	---	---	---
27	184	315	e1500	2240	e1000	1920	---	---	---	---	---	---
28	179	445	1460	e1600	1640	1760	---	---	---	---	---	---
29	176	1370	1430	e1500	---	1630	---	---	---	---	---	---
30	177	1130	e940	e1550	---	1500	---	---	---	---	---	---
31	177	---	e900	e1650	---	1550	---	---	---	---	---	---
TOTAL	7238	13449	45217	59040	25840	94360	---	---	---	---	---	---
MEAN	233	448	1459	1905	923	3044	---	---	---	---	---	---
MAX	338	1370	2560	4350	1640	6610	---	---	---	---	---	---
MIN	170	199	652	700	650	1300	---	---	---	---	---	---
CFM	.24	.46	1.49	1.94	.94	3.10	---	---	---	---	---	---
IN.	.27	.51	1.71	2.24	.98	3.57	---	---	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1995, BY WATER YEAR (WY)

MEAN	760	1393	1780	1606	1755	3168	3908	1992	1034	523	396	511
MAX	5747	3191	4066	3652	4772	7113	9496	4520	3065	1568	1403	3778
(WY)	1978	1960	1973	1949	1976	1977	1940	1943	1972	1947	1994	1977
MIN	58.9	75.5	304	335	345	1130	999	543	250	136	93.1	69.2
(WY)	1965	1965	1965	1961	1980	1965	1946	1985	1964	1962	1965	1964

SUSQUEHANNA RIVER BASIN

35

01500500 SUSQUEHANNA RIVER AT UNADILLA, NY--Continued

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

WATER YEARS 1938 - 1995

ANNUAL TOTAL	603868			1566	
ANNUAL MEAN	1654			2280	1943
HIGHEST ANNUAL MEAN				748	1965
LOWEST ANNUAL MEAN				21000	Mar 15 1977
HIGHEST DAILY MEAN	11600	Apr 8		45	Oct 18 1964
LOWEST DAILY MEAN	170	Oct 24		50	Oct 17 1964
ANNUAL SEVEN-DAY MINIMUM	183	Oct 26		23500	Mar 14 1977
INSTANTANEOUS PEAK FLOW				14.64	Mar 14 1977
INSTANTANEOUS PEAK STAGE				39	Oct 17 1964
INSTANTANEOUS LOW FLOW				1.59	
ANNUAL RUNOFF (CFSM)	1.68			21.67	
ANNUAL RUNOFF (INCHES)	22.88			3650	
10 PERCENT EXCEEDS	3990			900	
50 PERCENT EXCEEDS	829			186	
90 PERCENT EXCEEDS	305				

SUSQUEHANNA RIVER BASIN

01502000 BUTTERNUT CREEK AT MORRIS, NY

LOCATION.--Lat 42°32'43", long 75°14'22", Otsego County, Hydrologic Unit 02050101, on right bank 15 ft upstream from bridge on State Highway 23 at Morris, and 0.2 mi upstream from Calhoun Creek.

DRAINAGE AREA.--59.7 mi².

PERIOD OF RECORD.--June 1938 to March 1995 (discontinued).

REVISED RECORDS.--WSP 921: 1939. WSP 2103: Drainage area. WRD NY 1974: 1973(P).

GAGE.--Water-stage recorder. Datum of gage is 1096.21 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. Satellite gage-height telemeter at station.

PEAK DISCHARGES FOR CURRENT PERIOD.--October 1994 to March 1995: Peak discharges greater than base discharge of 1,400 ft.³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 8	1330	*617	*4.42				

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	27	15	45	84	94	109	---	---	---	---	---	---
2	29	57	42	88	88	e80	---	---	---	---	---	---
3	28	42	41	e70	e65	e74	---	---	---	---	---	---
4	25	30	39	e60	e70	e74	---	---	---	---	---	---
5	24	26	162	e55	e70	e75	---	---	---	---	---	---
6	22	25	224	e56	e69	107	---	---	---	---	---	---
7	21	24	197	e55	e68	161	---	---	---	---	---	---
8	20	26	167	e54	e67	524	---	---	---	---	---	---
9	19	26	134	e52	e65	315	---	---	---	---	---	---
10	19	23	129	e50	e62	236	---	---	---	---	---	---
11	18	22	165	e50	e60	201	---	---	---	---	---	---
12	18	21	e115	e60	e55	186	---	---	---	---	---	---
13	16	20	e90	156	e50	251	---	---	---	---	---	---
14	16	20	103	145	e50	305	---	---	---	---	---	---
15	15	20	98	187	e55	311	---	---	---	---	---	---
16	14	19	90	229	e55	308	---	---	---	---	---	---
17	13	19	89	199	e58	246	---	---	---	---	---	---
18	14	18	96	157	e55	200	---	---	---	---	---	---
19	18	18	94	142	e55	170	---	---	---	---	---	---
20	14	18	85	203	61	152	---	---	---	---	---	---
21	13	18	80	264	67	167	---	---	---	---	---	---
22	13	21	77	198	e55	180	---	---	---	---	---	---
23	13	20	76	167	e60	148	---	---	---	---	---	---
24	13	18	84	150	e70	132	---	---	---	---	---	---
25	12	19	90	137	e65	120	---	---	---	---	---	---
26	12	20	81	127	e58	111	---	---	---	---	---	---
27	12	17	73	e110	e60	106	---	---	---	---	---	---
28	12	49	74	e85	97	100	---	---	---	---	---	---
29	12	82	e70	e85	---	95	---	---	---	---	---	---
30	11	52	e50	e85	---	96	---	---	---	---	---	---
31	11	---	63	e90	---	98	---	---	---	---	---	---
TOTAL	524	805	3023	3650	1804	5438	---	---	---	---	---	---
MEAN	16.9	26.8	97.5	118	64.4	175	---	---	---	---	---	---
MAX	29	82	224	264	97	524	---	---	---	---	---	---
MIN	11	15	39	50	50	74	---	---	---	---	---	---
CF5M	.28	.45	1.63	1.97	1.08	2.94	---	---	---	---	---	---
IN.	.33	.50	1.88	2.27	1.12	3.39	---	---	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1995, BY WATER YEAR (WY)

MEAN	56.1	94.2	116	97.2	110	219	240	116	63.8	30.4	21.6	32.6
MAX	486	260	267	222	351	638	589	262	234	99.5	95.0	331
(WY)	1978	1960	1973	1978	1976	1977	1940	1943	1972	1972	1986	1977
MIN	3.51	5.17	16.4	18.9	21.5	61.4	55.4	33.3	13.3	6.80	4.57	3.46
(WY)	1965	1965	1965	1961	1980	1941	1946	1985	1964	1962	1964	1964

SUSQUEHANNA RIVER BASIN
01502000 BUTTERNUT CREEK AT MORRIS, NY--Continued

37

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		WATER YEARS 1938 - 1995	
ANNUAL TOTAL	38283			
ANNUAL MEAN	105		99.8	
HIGHEST ANNUAL MEAN			174	1978
LOWEST ANNUAL MEAN			47.7	1965
HIGHEST DAILY MEAN	1050	Apr 7	3700	Oct 17 1977
LOWEST DAILY MEAN	11	Oct 30	1.3	Sep 24 1939
ANNUAL SEVEN-DAY MINIMUM	12	Oct 25	2.7	Oct 9 1964
INSTANTANEOUS PEAK FLOW			5980	Oct 17 1977
INSTANTANEOUS PEAK STAGE			9.44	Oct 17 1977
ANNUAL RUNOFF (CFSM)	1.76		1.67	
ANNUAL RUNOFF (INCHES)	23.85		22.72	
10 PERCENT EXCEEDS	226		220	
50 PERCENT EXCEEDS	47		53	
90 PERCENT EXCEEDS	19		10	

SUSQUEHANNA RIVER BASIN

01502500 UNADILLA RIVER AT ROCKDALE, NY

LOCATION.--Lat 42°22'40", long 75°24'23", Chenango County, Hydrologic Unit 02050101, on right bank 400 ft downstream from Chenango-Otsego County highway bridge at Rockdale, and 0.7 mi downstream from Kent Brook.

DRAINAGE AREA.--520 mi².

PERIOD OF RECORD.--November 1929 to September 1933, January 1937 to March 1995 (discontinued).

REVISED RECORDS.--WRD NY 1974: 1973 (P).

GAGE.--Water-stage recorder. Datum of gage is 992.25 ft above sea level. Prior to Sept. 30, 1933, nonrecording gage at bridge 400 ft upstream at datum 0.73 ft higher.

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

PEAK DISCHARGES FOR CURRENT PERIOD.--October 1994 to March 1995: Peak discharges greater than base discharge of 5,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 8	2300	*4,080	*7.59				

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	393	190	633	e620	e620	1030	---	---	---	---	---	---
2	382	867	558	e600	e600	e800	---	---	---	---	---	---
3	411	1310	524	e580	e540	e700	---	---	---	---	---	---
4	346	869	498	e500	e540	e600	---	---	---	---	---	---
5	305	652	983	e450	e500	e580	---	---	---	---	---	---
6	290	562	2390	e450	e480	e850	---	---	---	---	---	---
7	274	534	1900	e440	e480	1260	---	---	---	---	---	---
8	256	548	1780	e440	e500	3100	---	---	---	---	---	---
9	240	510	1360	e430	e500	3510	---	---	---	---	---	---
10	240	467	1250	e430	e480	2250	---	---	---	---	---	---
11	240	429	1470	e430	e480	1990	---	---	---	---	---	---
12	233	398	e1400	e420	e470	1790	---	---	---	---	---	---
13	218	383	e900	974	e470	2010	---	---	---	---	---	---
14	207	370	978	1560	e460	2430	---	---	---	---	---	---
15	198	355	979	1710	e450	2440	---	---	---	---	---	---
16	189	339	847	2150	e430	2450	---	---	---	---	---	---
17	183	325	835	1930	e470	2170	---	---	---	---	---	---
18	178	312	865	1520	e460	1810	---	---	---	---	---	---
19	181	310	914	1300	e440	1540	---	---	---	---	---	---
20	189	295	820	1450	e450	1360	---	---	---	---	---	---
21	189	292	732	2120	e500	1310	---	---	---	---	---	---
22	227	325	688	1770	e500	1470	---	---	---	---	---	---
23	213	347	667	1490	e450	1300	---	---	---	---	---	---
24	191	313	701	1320	e650	1130	---	---	---	---	---	---
25	182	298	773	1190	e600	990	---	---	---	---	---	---
26	175	302	736	1090	e580	890	---	---	---	---	---	---
27	170	284	640	e900	e570	821	---	---	---	---	---	---
28	169	466	605	e700	746	754	---	---	---	---	---	---
29	164	1010	e600	e650	---	701	---	---	---	---	---	---
30	159	814	e400	e640	---	683	---	---	---	---	---	---
31	156	---	e500	e630	---	776	---	---	---	---	---	---
TOTAL	7148	14476	28926	30884	14416	45495	---	---	---	---	---	---
MEAN	231	483	933	996	515	1468	---	---	---	---	---	---
MAX	411	1310	2390	2150	746	3510	---	---	---	---	---	---
MIN	156	190	400	420	430	580	---	---	---	---	---	---
CFSM	.44	.93	1.79	1.92	.99	2.82	---	---	---	---	---	---
IN.	.51	1.04	2.07	2.21	1.03	3.25	---	---	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1995, BY WATER YEAR (WY)

	439	792	975	862	977	1789	2059	956	514	289	200	281
MEAN	439	792	975	862	977	1789	2059	956	514	289	200	281
MAX	2944	2223	2104	1931	2857	4181	5395	2264	1710	1209	836	2067
(WY)	1978	1960	1973	1952	1981	1977	1940	1943	1972	1947	1992	1977
MIN	34.6	51.6	148	115	174	568	465	278	128	65.4	54.0	34.2
(WY)	1965	1965	1931	1931	1980	1941	1946	1985	1964	1962	1964	1964

SUSQUEHANNA RIVER BASIN
01502500 UNADILLA RIVER AT ROCKDALE, NY--Continued

39

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		WATER YEARS 1930 - 1933 1938 - 1995	
ANNUAL TOTAL	355877			
ANNUAL MEAN	975		846	
HIGHEST ANNUAL MEAN			1294	1943
LOWEST ANNUAL MEAN			447	1965
HIGHEST DAILY MEAN	6950	Apr 17	15400	Mar 6 1979
LOWEST DAILY MEAN	156	Oct 31	27	a
ANNUAL SEVEN-DAY MINIMUM	168	Oct 25	27	Sep 20 1964
INSTANTANEOUS PEAK FLOW			17400	Dec 31 1942
INSTANTANEOUS PEAK STAGE			12.98	Dec 31 1942
ANNUAL RUNOFF (CFSM)	1.88		1.63	
ANNUAL RUNOFF (INCHES)	25.46		22.11	
10 PERCENT EXCEEDS	2210		1980	
50 PERCENT EXCEEDS	520		456	
90 PERCENT EXCEEDS	245		96	
a Sep. 20-27, 1964.				

SUSQUEHANNA RIVER BASIN
01503000 SUSQUEHANNA RIVER AT CONKLIN, NY

LOCATION.--Lat 42°02'07", long 75°48'12", Broome County, Hydrologic Unit 02050101, on left bank at abutment of former highway bridge, 500 ft 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 mi².

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 ft³/s and maximum (*);

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 9	1600	*15,600	*9.63				

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	1470	513	3270	e2200	e3300	e4600	3020	2510	1500	379	314	e160
2	1590	1520	2610	3570	e3100	e4700	2820	2330	1230	354	294	e155
3	1300	2580	2260	e3500	e2600	e3800	2460	2220	1090	364	303	e155
4	1220	3010	2010	e2700	e2200	e3400	2540	2040	1410	355	277	e150
5	1120	2300	3840	e2100	e1700	e3000	3260	2000	2260	340	300	e145
6	990	1860	6940	e1900	e1650	3370	3600	2000	2230	330	487	e145
7	919	1660	7500	e1800	e1600	4870	2890	1950	1580	329	420	e140
8	847	1510	6760	e1750	e1600	9050	2840	1790	1290	321	342	e145
9	800	1440	5850	e1700	e1550	15000	3080	1640	1130	313	327	e150
10	798	1510	5020	e1650	e1500	12400	4110	1580	1010	301	308	229
11	744	1410	5220	e1600	e1500	9080	4060	1620	972	295	276	211
12	727	1360	5440	e1600	e1450	8000	3880	1730	1200	290	257	197
13	693	1280	4660	2410	e1450	8070	6890	1950	1160	277	246	225
14	660	1100	3530	4560	e1400	8990	7720	2050	1300	276	239	250
15	627	1060	3530	6030	e1400	9980	6460	1880	1250	267	243	231
16	603	1020	3450	7710	e1350	9930	5260	1710	996	250	268	217
17	582	974	3150	7410	e1350	9520	4540	1560	854	240	280	221
18	548	908	3110	6410	e1300	8240	4030	1520	783	382	282	235
19	549	876	3150	5380	e1300	6940	3970	1520	696	1620	355	218
20	568	838	3100	5400	e1300	6020	4080	1440	642	850	309	199
21	604	861	2840	10000	e1400	5530	3880	1320	588	570	262	191
22	603	1180	2590	10200	e1500	5690	3680	1200	532	469	230	199
23	557	1110	2380	8000	e1800	6000	3620	1120	504	402	209	253
24	579	1070	2490	6680	e2300	5320	3380	1070	477	373	e190	262
25	550	1040	2960	5940	e2900	4700	3020	1290	461	370	e180	253
26	515	999	3870	5300	e2800	4190	2730	1340	579	390	e170	287
27	511	940	3500	4790	e2500	3780	2510	1490	549	408	e165	304
28	502	2220	2970	e4100	e3000	3530	2510	1490	514	378	e160	276
29	469	3590	e2700	e3200	---	3250	2780	1400	462	408	e150	247
30	470	4050	e2500	e3000	---	3060	2880	1310	414	418	e145	219
31	454	---	e2000	e3200	---	2960	---	1640	---	354	e150	---
TOTAL	23169	45789	115200	135790	52800	196970	112500	51710	29663	12673	8138	6269
MEAN	747	1526	3716	4380	1886	6354	3750	1668	989	409	263	209
MAX	1590	4050	7500	10200	3300	15000	7720	2510	2260	1620	487	304
MIN	454	513	2000	1600	1300	2960	2460	1070	414	240	145	140
CFSM	.33	.68	1.66	1.96	.84	2.85	1.68	.75	.44	.18	.12	.09
IN.	.39	.76	1.92	2.26	.88	3.28	1.87	.86	.49	.21	.14	.10

e Estimated

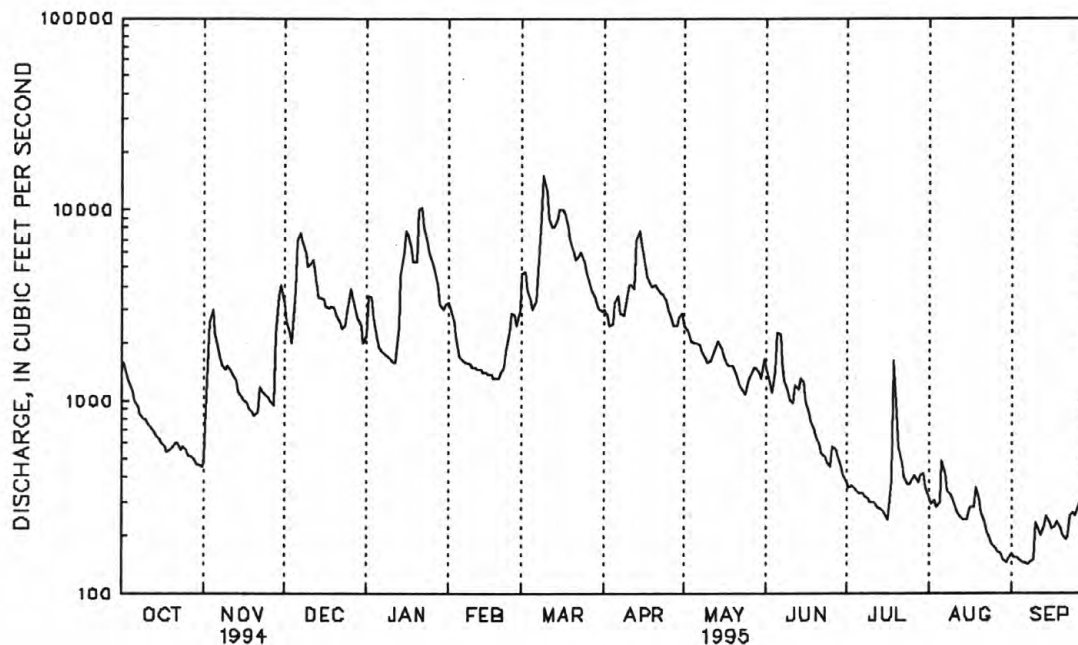
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1995, BY WATER YEAR (WY)

	1877	3391	3944	3801	3892	7597	8489	4176	2212	1413	997	1186
MEAN	1877	3391	3944	3801	3892	7597	8489	4176	2212	1413	997	1186
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

SUSQUEHANNA RIVER BASIN
01503000 SUSQUEHANNA RIVER AT CONKLIN, NY--Continued

41

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1913 - 1995	
ANNUAL TOTAL	1475246		790671			
ANNUAL MEAN	4042		2166		3577	
HIGHEST ANNUAL MEAN					5667	
LOWEST ANNUAL MEAN					1690	
HIGHEST DAILY MEAN	26900	Apr 7	15000	Mar 9	57800	Mar 19 1936
LOWEST DAILY MEAN	454	Oct 31	140	Sep 7	105	Oct 24 1964
ANNUAL SEVEN-DAY MINIMUM	491	Oct 26	147	Sep 3	114	Oct 19 1964
INSTANTANEOUS PEAK FLOW			15600	Mar 9	61600	Mar 18 1936
INSTANTANEOUS PEAK STAGE			9.63	Mar 9	20.83	Mar 22 1948
INSTANTANEOUS LOW FLOW					85	Oct 14 1964
ANNUAL RUNOFF (CFSM)	1.81		.97		1.60	
ANNUAL RUNOFF (INCHES)	24.59		13.18		21.77	
10 PERCENT EXCEEDS	8700		5310		8400	
50 PERCENT EXCEEDS	2220		1450		2000	
90 PERCENT EXCEEDS	845		247		428	



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

SUSQUEHANNA RIVER BASIN

01505000 CHENANGO RIVER AT SHERBURNE, NY

LOCATION.--Lat 42°40'43", long 75°30'39", Chenango County, Hydrologic Unit 02050102, on right bank 20 ft downstream from bridge on State Highway 80, 0.5 mi west of Sherburne, and 0.5 mi downstream from Handsome Brook.

DRAINAGE AREA.--263 mi².

PERIOD OF RECORD.--May 1938 to March 1995 (discontinued).

REVISED RECORDS.--WSP 851: 1938(M). WSP 1502: 1955. WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,037.16 ft above sea level. July 22 to Dec. 9, 1953, nonrecording gage or reference point and Dec. 10, 1953 to Jan. 26, 1955, water-stage recorder at temporary site 1.5 mi downstream, at datum approximately 11.9 ft lower, during period of construction of highway bridge.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow from 82 mi² of drainage area formerly may have been diverted into Mohawk River basin through abandoned Chenango Canal; no diversion from this cause known during period of record. Telephone gage-height telemeter and satellite gage-height, temperature, and precipitation telemeter at station. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 18, 1936, reached a stage of 10.6 ft, from records of National Weather Service.

PEAK DISCHARGES FOR CURRENT PERIOD.--October 1994 to March 1995: Peak discharges greater than base discharge of 3,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 8	1300	1,770	5.94				

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	148	310	279	253	319	367	---	---	---	---	---	---
2	152	880	251	270	304	296	---	---	---	---	---	---
3	147	748	237	219	e290	e260	---	---	---	---	---	---
4	134	581	229	e210	282	e250	---	---	---	---	---	---
5	123	480	572	e220	e270	248	---	---	---	---	---	---
6	118	407	758	e220	e260	334	---	---	---	---	---	---
7	109	384	670	220	e260	541	---	---	---	---	---	---
8	102	336	613	188	e250	1570	---	---	---	---	---	---
9	97	306	526	e180	e240	1090	---	---	---	---	---	---
10	99	279	502	e180	e230	867	---	---	---	---	---	---
11	101	252	583	e170	e220	782	---	---	---	---	---	---
12	97	234	e480	178	e210	719	---	---	---	---	---	---
13	94	223	e420	514	e210	850	---	---	---	---	---	---
14	90	211	412	572	e200	880	---	---	---	---	---	---
15	88	203	390	778	e200	889	---	---	---	---	---	---
16	86	191	358	993	e200	867	---	---	---	---	---	---
17	81	177	351	726	e200	767	---	---	---	---	---	---
18	81	172	364	626	e180	676	---	---	---	---	---	---
19	81	173	364	562	169	604	---	---	---	---	---	---
20	86	169	329	609	182	551	---	---	---	---	---	---
21	95	170	309	701	216	541	---	---	---	---	---	---
22	96	187	298	583	188	535	---	---	---	---	---	---
23	91	176	295	531	194	490	---	---	---	---	---	---
24	86	164	301	493	265	440	---	---	---	---	---	---
25	83	165	337	452	223	393	---	---	---	---	---	---
26	81	175	317	417	e190	368	---	---	---	---	---	---
27	80	159	274	382	e210	342	---	---	---	---	---	---
28	81	273	279	e340	291	324	---	---	---	---	---	---
29	94	399	288	e330	---	305	---	---	---	---	---	---
30	106	317	e220	e320	---	317	---	---	---	---	---	---
31	111	---	e210	320	---	330	---	---	---	---	---	---
TOTAL	3118	8901	11816	12757	6453	17793	---	---	---	---	---	---
MEAN	101	297	381	412	230	574	---	---	---	---	---	---
MAX	152	880	758	993	319	1570	---	---	---	---	---	---
MIN	80	159	210	170	169	248	---	---	---	---	---	---
CFSM	.38	1.13	1.45	1.56	.88	2.18	---	---	---	---	---	---
IN.	.44	1.26	1.67	1.80	.91	2.52	---	---	---	---	---	---

e Estimated

SUSQUEHANNA RIVER BASIN

43

01505000 CHENANGO RIVER AT SHERBURNE, NY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1995, BY WATER YEAR (WY)

MEAN	207	340	455	411	461	871	1009	443	253	141	102	136
MAX	1227	792	994	912	1497	2059	2596	989	1190	447	445	853
(WY)	1978	1969	1973	1952	1981	1977	1940	1947	1972	1947	1992	1977
MIN	20.2	33.9	97.3	82.9	102	315	222	144	64.1	28.9	31.3	21.4
(WY)	1964	1965	1961	1961	1980	1941	1946	1941	1941	1962	1939	1939

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

WATER YEARS 1938 - 1995

ANNUAL TOTAL	168449		
ANNUAL MEAN	462		403
HIGHEST ANNUAL MEAN			640
LOWEST ANNUAL MEAN			200
HIGHEST DAILY MEAN	3830	Apr 14	8570
LOWEST DAILY MEAN	80	Oct 27	14
ANNUAL SEVEN-DAY MINIMUM	85	Oct 14	15
INSTANTANEOUS PEAK FLOW			10400
INSTANTANEOUS PEAK STAGE			a9.99
INSTANTANEOUS LOW FLOW			12
ANNUAL RUNOFF (CFSM)	1.75		1.53
ANNUAL RUNOFF (INCHES)	23.83		20.80
10 PERCENT EXCEEDS	900		934
50 PERCENT EXCEEDS	240		222
90 PERCENT EXCEEDS	103		52

a Ice jam.

SUSQUEHANNA RIVER BASIN

01509000 TIOUGHNIAGA 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 mi², including 14.0 mi², 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Nov. 2	1515	2,730	6.95				

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	307	785	334	370	422	491	327	304	175	99	58	49
2	305	2510	319	380	396	e390	309	290	173	102	54	49
3	282	2210	306	e330	347	e340	293	278	378	95	51	46
4	265	1340	298	e310	354	e330	509	257	308	92	52	46
5	258	935	795	e260	317	e320	569	251	236	87	70	45
6	247	757	1350	e280	e310	442	455	242	199	84	118	45
7	230	686	1160	277	e310	776	440	220	179	85	96	44
8	214	596	966	272	e305	1950	457	205	177	82	85	42
9	204	539	787	265	e290	1760	440	198	168	79	78	51
10	210	496	769	e260	e280	1280	456	201	159	75	71	55
11	200	439	806	e250	e270	1060	480	221	156	73	69	55
12	190	404	704	285	e270	973	506	703	165	70	72	52
13	182	382	572	614	e260	1130	908	480	168	69	71	52
14	176	364	541	728	e250	1160	786	381	150	70	71	57
15	174	341	511	1030	e250	1150	661	346	139	68	64	54
16	168	321	479	1390	e230	1090	582	320	135	70	63	51
17	170	301	457	1170	e230	938	519	297	126	77	67	48
18	177	289	476	908	e220	814	472	301	121	72	60	46
19	178	278	472	760	e210	702	463	282	120	82	56	45
20	178	266	432	811	e220	635	435	254	117	71	55	46
21	176	266	401	1440	255	623	403	232	113	66	53	46
22	173	287	385	1180	243	629	409	213	110	65	50	50
23	167	270	381	951	237	581	390	201	107	67	49	52
24	154	256	385	813	302	518	365	193	106	75	49	53
25	143	250	394	707	282	460	339	201	104	80	46	52
26	141	252	380	636	e240	419	324	191	115	75	45	51
27	141	227	342	577	e260	390	305	176	106	79	45	47
28	143	305	340	e480	436	356	371	175	102	79	45	45
29	145	469	343	e440	---	336	365	211	97	72	44	44
30	143	371	e280	e430	---	337	325	215	94	64	44	43
31	156	---	e290	e430	---	338	---	196	---	62	47	---
TOTAL	5997	17192	16455	19034	7996	22718	13663	8235	4603	2386	1898	1461
MEAN	193	573	531	614	286	733	455	266	153	77.0	61.2	48.7
MAX	307	2510	1350	1440	436	1950	908	703	378	102	118	57
MIN	141	227	280	250	210	320	293	175	94	62	44	42
CFSM	.66	1.96	1.82	2.10	.98	2.51	1.56	.91	.53	.26	.21	.17
IN.	.76	2.19	2.10	2.42	1.02	2.89	1.74	1.05	.59	.30	.24	.19

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1995, BY WATER YEAR (WY)

MEAN	255	428	570	497	546	1054	1270	568	325	177	131	155
MAX	1553	1119	1307	1038	1469	2432	3487	1352	1674	539	480	1125
(WY)	1978	1969	1973	1979	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

SUSQUEHANNA RIVER BASIN

45

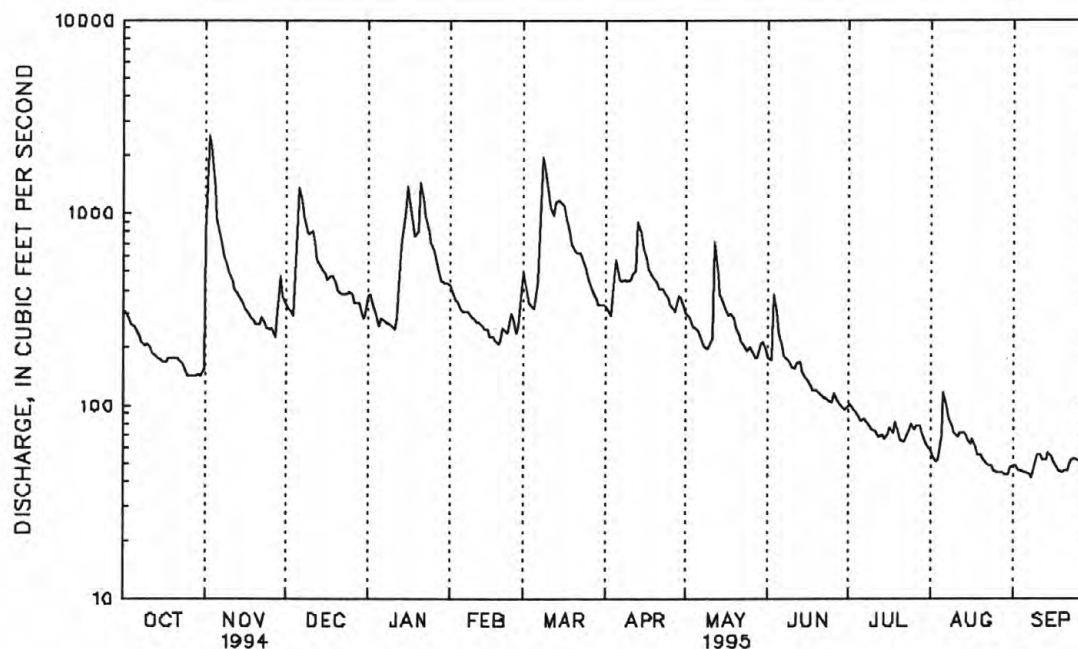
01509000 TIOUGHNIAGA RIVER AT CORTLAND, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1938 - 1995	
ANNUAL TOTAL	217656		121638		497	
ANNUAL MEAN	596		333		723	
HIGHEST ANNUAL MEAN					1943	
LOWEST ANNUAL MEAN					303	
HIGHEST DAILY MEAN	5540	Apr 14	2510	Nov 2	11500	Mar 6 1979
LOWEST DAILY MEAN	118	Aug 11	42	Sep 8	17	a
ANNUAL SEVEN-DAY MINIMUM	124	Aug 7	45	Aug 25	21	Sep 19 1939
INSTANTANEOUS PEAK FLOW			2730	Nov 2	13000	Mar 5 1964
INSTANTANEOUS PEAK STAGE			6.95	Nov 2	13.82	Apr 5 1950
INSTANTANEOUS LOW FLOW			41	b	9.8	c
ANNUAL RUNOFF (CFSM)	2.04		1.14		1.70	
ANNUAL RUNOFF (INCHES)	27.73		15.50		23.12	
10 PERCENT EXCEEDS	1340		758		1110	
50 PERCENT EXCEEDS	300		258		281	
90 PERCENT EXCEEDS	160		52		68	

a Sep. 26, 27, 1959.

b Aug. 31, Sep. 8, 9, 30.

c Sep. 20, 1939, Sep. 29, 1959.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

SUSQUEHANNA RIVER BASIN
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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Dec. 5	1815	*1,820	*4.61				

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	66	146	184	e170	e190	262	152	145	72	25	14	10
2	68	737	170	e170	e180	e185	141	141	65	25	16	10
3	64	522	163	e130	e150	e160	131	134	161	25	14	9.1
4	58	329	157	e120	e150	e155	355	123	139	24	13	8.6
5	56	258	909	e110	e140	e150	322	126	98	25	17	8.4
6	54	226	889	e115	e140	288	254	117	80	24	38	8.1
7	52	244	624	e115	e130	470	254	104	72	23	31	7.8
8	50	213	483	e110	e120	1510	268	94	106	23	25	7.7
9	48	191	390	e100	e120	834	257	88	80	21	22	e11
10	49	179	384	e95	e110	563	264	92	67	20	16	e10
11	49	159	454	e90	e105	471	266	99	66	24	14	e10
12	46	146	336	107	e100	478	287	242	83	20	19	e9.5
13	44	139	249	333	e100	573	557	184	83	16	27	e11
14	43	131	261	439	e96	618	411	153	66	15	22	e13
15	41	125	244	790	e92	649	351	143	56	14	21	e13
16	40	116	216	944	e90	603	309	135	50	18	20	e12
17	39	111	213	590	e88	494	277	126	46	40	19	e11
18	39	106	218	453	e84	412	250	128	44	43	15	e11
19	39	102	210	394	e84	356	244	118	41	31	13	e10
20	40	97	186	580	e90	319	221	108	39	26	11	e9.5
21	40	98	170	741	121	324	209	96	36	25	10	e9.5
22	39	109	162	525	105	320	217	88	34	23	9.7	17
23	39	101	160	428	109	283	199	82	32	23	9.3	37
24	38	95	173	379	159	250	182	77	31	24	9.1	29
25	37	96	184	337	e120	218	166	82	30	34	9.0	24
26	37	98	170	303	e110	199	153	79	33	27	8.7	21
27	36	85	147	274	e100	183	144	74	35	24	8.4	16
28	36	194	150	213	253	171	204	67	31	24	8.4	14
29	35	308	153	e200	---	159	178	98	29	23	8.2	12
30	35	212	113	e190	---	165	155	130	27	21	7.8	11
31	36	---	e115	e190	---	166	---	88	---	16	8.0	---
TOTAL	1393	5673	8637	9735	3436	11988	7378	3561	1832	746	483.6	391.2
MEAN	44.9	189	279	314	123	387	246	115	61.1	24.1	15.6	13.0
MAX	68	737	909	944	253	1510	557	242	161	43	38	37
MIN	35	85	113	90	84	150	131	67	27	14	7.8	7.7
CFSM	.31	1.29	1.90	2.14	.83	2.63	1.67	.78	.42	.16	.11	.09
IN.	.35	1.44	2.19	2.46	.87	3.03	1.87	.90	.46	.19	.12	.10

e Estimated

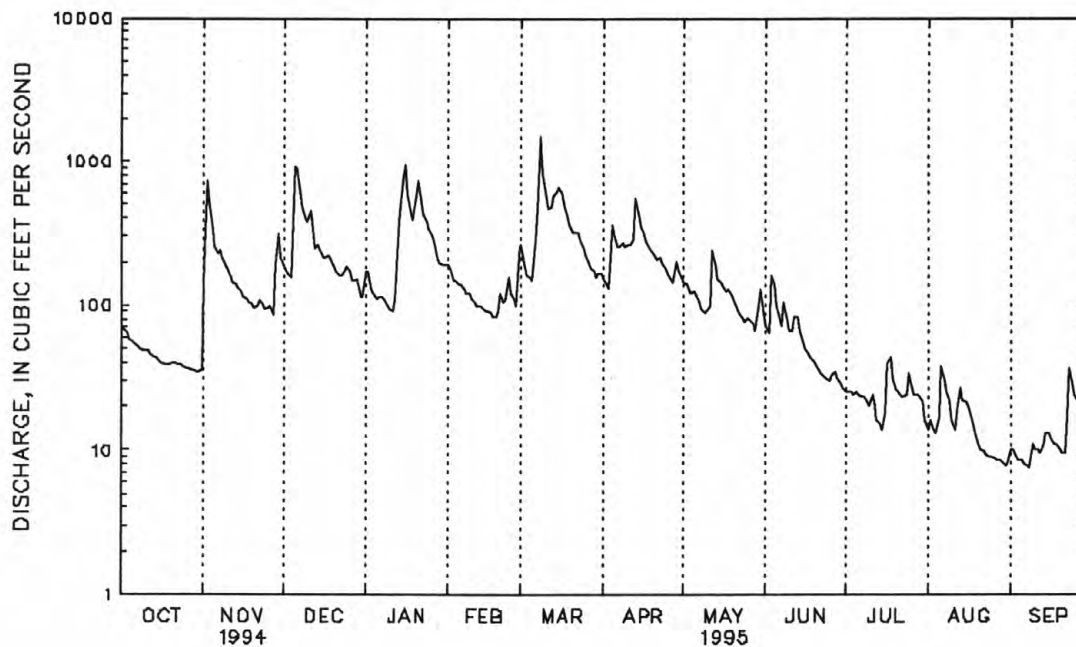
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1995, BY WATER YEAR (WY)

MEAN	148	246	327	259	277	588	686	284	156	82.1	56.3	87.8
MAX	713	628	677	587	764	1302	1693	687	773	299	277	706
(WY)	1978	1960	1991	1952	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

SUSQUEHANNA RIVER BASIN
01510000 OTSELIC RIVER AT CINCINNATUS, NY--Continued

47

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1938 - 1995	
ANNUAL TOTAL	105778		55253.8		266	
ANNUAL MEAN	290		151		391	
HIGHEST ANNUAL MEAN					151	
LOWEST ANNUAL MEAN					1943	
HIGHEST DAILY MEAN	3650	Apr 16	1510	Mar 8	6200	Mar 20 1948
LOWEST DAILY MEAN	34	Aug 1	7.7	Sep 8	4.1	Sep 24 1939
ANNUAL SEVEN-DAY MINIMUM	36	Oct 25	8.4	Aug 25	4.3	Sep 19 1939
INSTANTANEOUS PEAK FLOW			1820	Dec 5	8390	Dec 30 1942
INSTANTANEOUS PEAK STAGE			4.61	Dec 5	10.68	Apr 4 1950
INSTANTANEOUS LOW FLOW			7.1	Aug 31	3.8	Sep 25 1939
ANNUAL RUNOFF (CFSM)	1.97		1.03		1.81	
ANNUAL RUNOFF (INCHES)	26.77		13.98		24.57	
10 PERCENT EXCEEDS	672		353		606	
50 PERCENT EXCEEDS	131		100		136	
90 PERCENT EXCEEDS	45		13		23	



DAILY MEAN DISCHARGE FOR -- 1995 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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 8	2200	*11,200	*7.71				

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	1140	788	2500	1940	e1800	e3500	1670	1250	873	303	177	126
2	1070	5920	2240	e2400	e1700	e2400	1530	1170	769	287	176	133
3	994	6050	2180	e1900	e1500	e2000	1380	1100	1430	279	179	122
4	966	4260	2050	e1600	e1400	e1900	2260	1040	2180	256	183	116
5	885	2840	4480	e1400	e1400	1960	3400	1040	1560	254	185	113
6	802	2410	8570	e1500	e1350	2620	2510	1040	1120	243	191	112
7	741	2200	6610	e1500	e1350	3980	2170	943	965	239	220	105
8	701	2020	5850	e1400	e1300	9050	2240	864	873	235	211	100
9	677	1840	4190	e1300	e1300	9350	2280	885	825	237	188	156
10	673	1720	3810	e1200	e1200	6420	2500	874	727	241	173	161
11	656	1540	4330	e1100	e1200	5080	2540	920	642	212	165	145
12	617	1360	4020	e1100	e1200	4700	2430	1760	810	194	169	141
13	598	1260	2850	2120	e1100	5370	4560	2370	999	195	181	158
14	573	1290	2620	3510	e1100	5790	4500	1790	845	188	165	172
15	557	1200	2590	4940	e1100	5620	3460	1520	667	174	163	166
16	550	1140	2400	8140	e1000	5570	2960	1360	582	174	168	161
17	531	1070	2240	6520	e1000	4960	2550	1160	535	209	152	156
18	521	999	2330	4830	e950	4120	2270	1160	498	236	155	150
19	523	895	2400	3910	e950	3480	2210	1160	447	248	150	156
20	536	924	2200	4290	e950	3220	2050	1100	397	231	139	148
21	553	926	1980	8400	e1100	3110	1840	968	377	210	135	154
22	539	1110	1830	6980	e1000	3250	1860	858	350	196	130	205
23	534	1100	1780	5040	e1000	3040	1700	779	320	193	119	295
24	520	1030	1830	4110	e1700	2600	1550	769	308	194	116	311
25	496	963	2040	3530	e1600	2360	1400	860	302	225	114	272
26	476	945	2010	3190	e1200	2020	1290	923	323	251	112	233
27	467	950	1780	2820	e1200	1890	1210	890	399	267	113	199
28	456	1310	1650	e2300	e2800	1860	1450	786	376	268	113	178
29	451	2920	1650	e2000	---	1620	1660	818	340	269	117	166
30	447	2720	e1300	e1900	---	1580	1400	1310	311	234	116	152
31	457	---	e1200	e1900	---	1720	---	1110	---	183	110	---
TOTAL	19707	55700	89510	98770	36450	116140	66830	34577	21150	7125	4785	4962
MEAN	636	1857	2887	3186	1302	3746	2228	1115	705	230	154	165
MAX	1140	6050	8570	8400	2800	9350	4560	2370	2180	303	220	311
MIN	447	788	1200	1100	950	1580	1210	769	302	174	110	100

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1995, BY WATER YEAR (WY)

MEAN	1307	2269	2709	2554	2601	5355	5787	2584	1466	910	644	783
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

SUSQUEHANNA RIVER BASIN
01512500 CHENANGO RIVER NEAR CHENANGO FORKS, NY--Continued

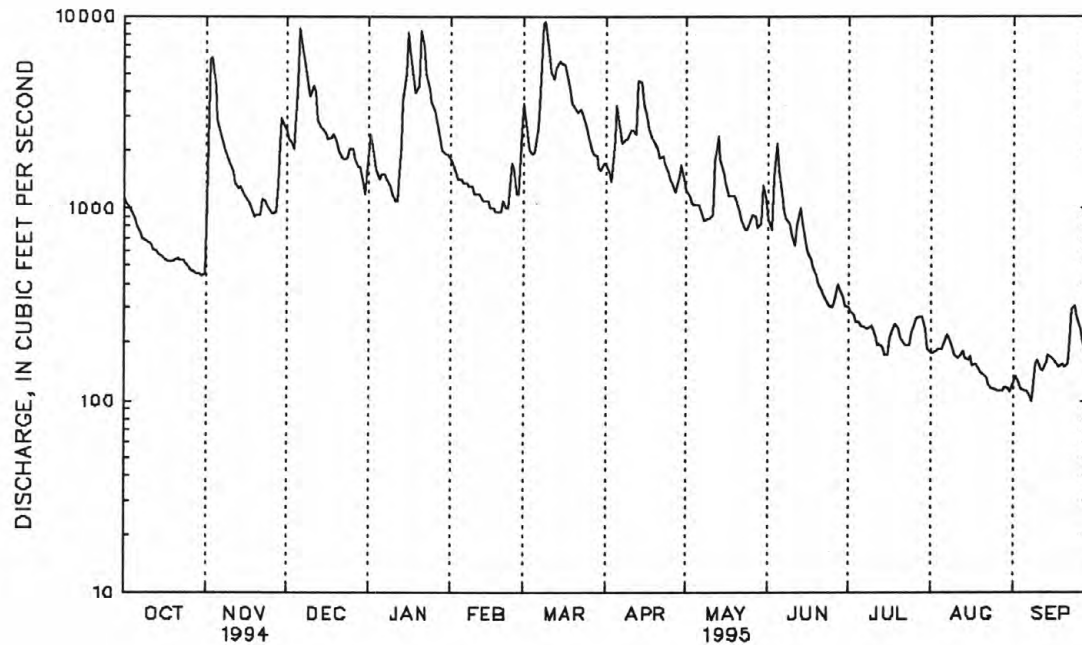
49

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1913 - 1995	
ANNUAL TOTAL	1135423		555706			
ANNUAL MEAN	3111		1522		2410	
HIGHEST ANNUAL MEAN					3618	
LOWEST ANNUAL MEAN					1307	
HIGHEST DAILY MEAN	18300	Apr 17	9350	Mar 9	55400	Jul 8 1935
LOWEST DAILY MEAN	447	Oct 30	100	Sep 8	88	Sep 19 1939
ANNUAL SEVEN-DAY MINIMUM	464	Oct 25	114	Aug 25	94	Sep 19 1939
INSTANTANEOUS PEAK FLOW			11200	Mar 8	a96000	Jul 8 1935
INSTANTANEOUS PEAK STAGE			7.71	Mar 8	b20.30	Jul 8 1935
INSTANTANEOUS LOW FLOW			96	Sep 8	84	c
10 PERCENT EXCEEDS	8680		3520		5990	
50 PERCENT EXCEEDS	1400		1100		1300	
90 PERCENT EXCEEDS	616		164		300	

a From rating curve extended above 32,000 ft³/s on basis of slope-area measurement of peak flow.

b From floodmarks.

c Sep. 19, 25, 1939.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

SUSQUEHANNA RIVER BASIN

01515000 SUSQUEHANNA RIVER NEAR WAVERLY, NY

LOCATION.--Lat 41°59'05", long 76°30'05", Bradford County, Pa., Hydrologic Unit 02050103, on left bank 0.2 mi upstream from Cayuta Creek, 0.4 mi upstream from bridge on East Lockhart Street at Sayre, Pa., 1 mi downstream from New York-Pennsylvania State line, and 2 mi southeast of Waverly.

DRAINAGE AREA.--4,773 mi².

PERIOD OF RECORD.--February 1937 to March 1995 (discontinued).

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 743.96 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to November 1939, at datum 1.0 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minor regulation by upstream lakes and reservoirs. 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a stage of about 21.4 ft, from flood profile (discharge, 128,000 ft³/s).

PEAK DISCHARGES FOR CURRENT PERIOD.--October 1994 to March 1995: Peak discharges greater than base discharge of 52,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 9	1845	*30,300	*8.82	No peak greater than base discharge.			

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	4750	1650	8420	5040	7810	13000	---	---	---	---	---	---
2	4770	9360	7220	7280	7640	11800	---	---	---	---	---	---
3	4130	12500	6360	e7800	e6600	9650	---	---	---	---	---	---
4	3490	11000	5830	e6900	e5900	8140	---	---	---	---	---	---
5	3230	8570	10600	e5500	e4400	7590	---	---	---	---	---	---
6	2990	6780	21200	e4450	e3900	8430	---	---	---	---	---	---
7	2700	5890	19600	e4100	e3850	11700	---	---	---	---	---	---
8	2480	5330	17800	e4000	e3800	19500	---	---	---	---	---	---
9	2320	4830	14600	e3900	e3750	29500	---	---	---	---	---	---
10	2210	4640	12500	e3800	e3700	27000	---	---	---	---	---	---
11	2170	4440	12800	e3700	e3650	20600	---	---	---	---	---	---
12	2070	4020	12800	3600	e3600	18100	---	---	---	---	---	---
13	1980	3740	11000	4510	e3550	18000	---	---	---	---	---	---
14	1900	3490	8980	7270	e3500	18500	---	---	---	---	---	---
15	1820	3280	8050	12000	e3400	19300	---	---	---	---	---	---
16	1730	3110	7910	19400	e3300	19500	---	---	---	---	---	---
17	1680	2950	7500	18500	e3200	18800	---	---	---	---	---	---
18	1640	2810	7330	15400	e3200	17000	---	---	---	---	---	---
19	1620	2640	7330	12700	e3300	14700	---	---	---	---	---	---
20	1870	2450	7240	12000	e3300	12900	---	---	---	---	---	---
21	1830	2450	6820	21500	e3400	11900	---	---	---	---	---	---
22	1790	2770	6250	26700	e4200	11700	---	---	---	---	---	---
23	1780	3180	5780	20500	e4700	12200	---	---	---	---	---	---
24	1680	3070	5650	16400	e6000	11400	---	---	---	---	---	---
25	1660	2890	6600	14100	e7500	10200	---	---	---	---	---	---
26	1600	2780	7070	12500	7310	9140	---	---	---	---	---	---
27	1510	2690	7370	11400	6300	8210	---	---	---	---	---	---
28	1470	3860	6610	10000	7950	7700	---	---	---	---	---	---
29	1440	8560	6030	e8300	---	7250	---	---	---	---	---	---
30	1400	8940	5490	e6900	---	6730	---	---	---	---	---	---
31	1370	---	4610	e7000	---	6570	---	---	---	---	---	---
TOTAL	69080	144670	283350	317150	132710	426710	---	---	---	---	---	---
MEAN	2228	4822	9140	10230	4740	13760	---	---	---	---	---	---
MAX	4770	12500	21200	26700	7950	29500	---	---	---	---	---	---
MIN	1370	1650	4610	3600	3200	6570	---	---	---	---	---	---
CFSM	.47	1.01	1.92	2.14	.99	2.88	---	---	---	---	---	---
IN.	.54	1.13	2.21	2.47	1.03	3.33	---	---	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1995, BY WATER YEAR (WY)

	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995		
MEAN	3911	6893	8779	7606	8656	15970	18400	9127	4877	2516	1864	2488	25090	17130	19820	18670	23870	33430	46500	22140	22550	7620	8386	17800	1978	1973	1973	1979	1976	1945	1993	1943	1972	1947	1994	1977	392	382	1835	1319	1472	6763	3962	2418	1155	589	384	326	1965	1965	1965	1965	1961	1980	1941	1946	1985	1939	1962	1964	1964

SUSQUEHANNA RIVER BASIN

51

01515000 SUSQUEHANNA RIVER NEAR WAVERLY, NY--Continued

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

WATER YEARS 1937 - 1995

ANNUAL TOTAL	3270830			
ANNUAL MEAN	8961			7594
HIGHEST ANNUAL MEAN				11490 1978
LOWEST ANNUAL MEAN				3745 1965
HIGHEST DAILY MEAN	53100	Mar 25		117000 Jun 23 1972
LOWEST DAILY MEAN	1370	Oct 31		237 a
ANNUAL SEVEN-DAY MINIMUM	1490	Oct 26		248 Sep 17 1964
INSTANTANEOUS PEAK FLOW				121000 Jun 23 1972
INSTANTANEOUS PEAK STAGE				21.24 Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.88			1.59
ANNUAL RUNOFF (INCHES)	25.49			21.62
10 PERCENT EXCEEDS	19700			18000
50 PERCENT EXCEEDS	5030			4200
90 PERCENT EXCEEDS	2110			848

a Sept. 22, 23, 1964.

SUSQUEHANNA RIVER BASIN

01520500 TIOGA RIVER AT LINDLEY, NY

LOCATION.--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.--771 mi².

PERIOD OF RECORD.--January 1930 to March 1995 (discontinued).

REVISED RECORDS.--WSP 871: 1938. WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 964.50 ft above sea level. Prior to Feb. 9, 1937, nonrecording gage on bridge at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since March 1979, flood flows regulated by detention in upstream reservoirs. Telephone and satellite gage-height telemeters at station. Several measurements of water temperature were made during the period.

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	378	511	968	414	728	857	---	---	---	---	---	---
2	777	1610	901	433	728	681	---	---	---	---	---	---
3	698	995	814	422	542	553	---	---	---	---	---	---
4	464	743	726	e320	501	444	---	---	---	---	---	---
5	371	673	3130	e270	482	434	---	---	---	---	---	---
6	364	447	2700	e290	e360	522	---	---	---	---	---	---
7	320	421	2400	e280	e350	920	---	---	---	---	---	---
8	275	393	2900	e260	e340	2590	---	---	---	---	---	---
9	273	377	1640	e250	e340	2180	---	---	---	---	---	---
10	254	756	1600	245	358	1240	---	---	---	---	---	---
11	213	811	1840	240	396	1400	---	---	---	---	---	---
12	201	616	1500	252	e320	2130	---	---	---	---	---	---
13	196	470	901	420	e300	2200	---	---	---	---	---	---
14	177	455	811	567	e300	1950	---	---	---	---	---	---
15	177	443	830	1070	294	1570	---	---	---	---	---	---
16	175	400	812	2030	305	1500	---	---	---	---	---	---
17	159	359	800	1100	286	1480	---	---	---	---	---	---
18	159	361	804	698	283	1180	---	---	---	---	---	---
19	160	339	804	779	287	936	---	---	---	---	---	---
20	157	295	795	5360	326	927	---	---	---	---	---	---
21	159	338	682	8890	543	886	---	---	---	---	---	---
22	158	570	567	8670	658	927	---	---	---	---	---	---
23	161	478	600	6100	570	908	---	---	---	---	---	---
24	171	465	607	2830	681	805	---	---	---	---	---	---
25	171	438	662	1790	526	647	---	---	---	---	---	---
26	168	410	782	1430	378	542	---	---	---	---	---	---
27	163	415	756	1300	393	529	---	---	---	---	---	---
28	134	1100	634	964	635	498	---	---	---	---	---	---
29	120	2060	561	731	---	477	---	---	---	---	---	---
30	121	1110	470	631	---	465	---	---	---	---	---	---
31	127	---	411	587	---	463	---	---	---	---	---	---
TOTAL	7601	18859	34408	49623	12210	32841	---	---	---	---	---	---
MEAN	245	629	1110	1601	436	1059	---	---	---	---	---	---
MAX	777	2060	3130	8890	728	2590	---	---	---	---	---	---
MIN	120	295	411	240	283	434	---	---	---	---	---	---
CF5M	.32	.82	1.44	2.08	.57	1.37	---	---	---	---	---	---
IN.	.37	.91	1.66	2.39	.59	1.58	---	---	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1995, BY WATER YEAR (WY)

MEAN	351	633	790	727	868	1975	1974	1118	604	244	236	204
MAX	2730	2476	2275	2413	2818	7157	8379	3077	4304	1032	2724	2821
(WY)	1991	1978	1978	1937	1981	1936	1993	1943	1972	1984	1994	1975
MIN	17.3	27.4	52.0	59.5	86.1	445	270	184	76.0	36.8	19.3	13.1
(WY)	1965	1965	1931	1931	1934	1981	1946	1934	1991	1966	1966	1964

SUSQUEHANNA RIVER BASIN
01520500 TIOGA RIVER AT LINDLEY, NY--Continued

53

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		WATER YEARS 1930 - 1995	
ANNUAL TOTAL	488880			
ANNUAL MEAN	1339		812	
HIGHEST ANNUAL MEAN			1451	1978
LOWEST ANNUAL MEAN			360	1965
HIGHEST DAILY MEAN	11000	Mar 27	63000	Jun 23 1972
LOWEST DAILY MEAN	120	Oct 29	7.2	Sep 1 1939
ANNUAL SEVEN-DAY MINIMUM	143	Oct 25	9.5	Aug 28 1939
INSTANTANEOUS PEAK FLOW			a128000	Jun 23 1972
INSTANTANEOUS PEAK STAGE			b26.27	Jun 23 1972
INSTANTANEOUS LOW FLOW			6.1	Sep 1 1939
ANNUAL RUNOFF (CFSM)	1.74		1.05	
ANNUAL RUNOFF (INCHES)	23.59		14.32	
10 PERCENT EXCEEDS	3590		1930	
50 PERCENT EXCEEDS	590		300	
90 PERCENT EXCEEDS	203		55	

a From rating curve extended above 31,000 ft³/s on basis of velocity-area and slope-area studies at gage height 19.2 ft and conveyance study and slope-area measurements at gage heights 22.87 ft and 26.27 ft.

b From flood mark in gage house.

SUSQUEHANNA RIVER BASIN

01521500 CANISTEO RIVER AT ARKPORT, NY

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

DRAINAGE AREA.--30.6 mi².

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 ft³/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 ft³/s, on basis of slope-area measurement.

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	12	351	34	16	e20	68	17	11	4.8	4.6	1.5	.50
2	15	614	28	19	e19	e58	16	10	6.4	4.4	2.3	.46
3	7.3	89	24	14	e18	e46	14	9.7	10	2.8	3.6	.37
4	4.6	44	22	e13	e18	e38	50	9.0	7.8	2.1	4.4	.38
5	3.6	32	169	e12	e17	e34	33	8.4	5.8	1.9	10	.30
6	3.1	28	89	e11	e17	e48	23	7.9	4.3	3.6	9.7	.26
7	2.7	34	109	e8.6	e17	222	23	7.3	4.1	3.3	11	.21
8	2.6	25	72	e7.2	e16	235	24	6.8	7.0	2.1	12	.22
9	2.5	23	51	e6.0	e16	89	57	6.4	5.0	2.0	10	.43
10	2.6	40	70	e6.0	e15	73	56	7.7	6.4	2.0	5.3	.37
11	e2.8	27	e52	e6.0	e15	73	76	16	16	2.4	1.3	.30
12	e3.6	21	e35	e9.0	e14	122	87	15	11	2.4	7.0	.19
13	e4.2	19	e28	62	e14	106	94	11	7.3	2.0	5.8	.21
14	e5.2	17	e26	55	e13	77	87	11	4.9	2.3	2.3	.34
15	e4.2	15	e24	57	e22	57	56	17	3.8	2.0	1.5	.43
16	e3.6	14	24	70	e16	47	39	13	3.0	1.9	1.2	.41
17	e3.0	12	27	45	e12	39	31	11	2.6	1.8	.94	.42
18	e3.4	12	34	33	12	31	27	10	2.2	1.6	.82	.52
19	e3.8	11	33	29	12	27	28	9.3	1.9	1.6	.76	.55
20	e3.8	9.9	28	390	16	25	26	8.0	1.9	1.6	.67	.60
21	e3.6	23	26	534	30	37	23	6.8	1.7	1.6	.64	.82
22	e3.4	30	27	102	31	40	24	5.8	1.6	1.5	.61	1.3
23	e3.0	22	28	58	23	37	21	5.3	1.5	1.7	.61	1.2
24	e3.2	19	27	44	45	29	18	6.8	1.7	2.4	.67	.96
25	e3.6	22	24	36	51	24	16	11	1.9	2.0	.68	.96
26	e3.6	25	20	32	31	22	15	8.3	2.1	1.5	.72	1.0
27	e2.6	18	18	29	30	20	14	6.7	3.5	1.5	.72	.96
28	2.2	176	19	e27	112	18	13	6.0	3.3	1.7	.71	.96
29	2.9	91	18	e26	---	16	12	7.8	2.3	1.7	.60	1.0
30	4.6	46	16	e25	---	17	11	7.8	2.4	1.5	.50	1.0
31	10	---	14	e24	---	18	---	5.7	---	1.4	.53	---
TOTAL	136.3	1909.9	1216	1805.8	672	1793	1031	283.5	138.2	66.9	99.08	17.63
MEAN	4.40	63.7	39.2	58.3	24.0	57.8	34.4	9.15	4.61	2.16	3.20	.59
MAX	15	614	169	534	112	235	94	17	16	4.6	12	1.3
MIN	2.2	9.9	14	6.0	12	16	11	5.3	1.5	1.4	.50	.19

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1995, BY WATER YEAR (WY)

MEAN	16.2	29.0	39.0	35.4	44.6	86.8	83.3	39.1	26.5	7.94	6.33	9.99
MAX	98.4	106	132	100	195	188	205	144	245	46.2	58.6	151
(WY)	1977	1951	1973	1952	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

SUSQUEHANNA RIVER BASIN
01521500 CANISTEO RIVER AT ARKPORT, NY--Continued

55

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1937 - 1995	
ANNUAL TOTAL	15299.0		9169.31		35.3	
ANNUAL MEAN	41.9		25.1		55.9	
HIGHEST ANNUAL MEAN					20.9	
LOWEST ANNUAL MEAN					1300	
HIGHEST DAILY MEAN	650	Feb 21	614	Nov 2		Feb 20 1939
LOWEST DAILY MEAN	1.5	Aug 7	.19	Sep 12	.19	Sep 12 1995
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 1	.28	Sep 7	.28	Sep 7 1995
INSTANTANEOUS PEAK FLOW			682	Nov 2	2000	a
INSTANTANEOUS PEAK STAGE			3.09	Nov 2	b5.63	Feb 19 1939
INSTANTANEOUS LOW FLOW			.10	c	d.00	f
10 PERCENT EXCEEDS	97		55		77	
50 PERCENT EXCEEDS	17		11		12	
90 PERCENT EXCEEDS	2.6		.95		1.	

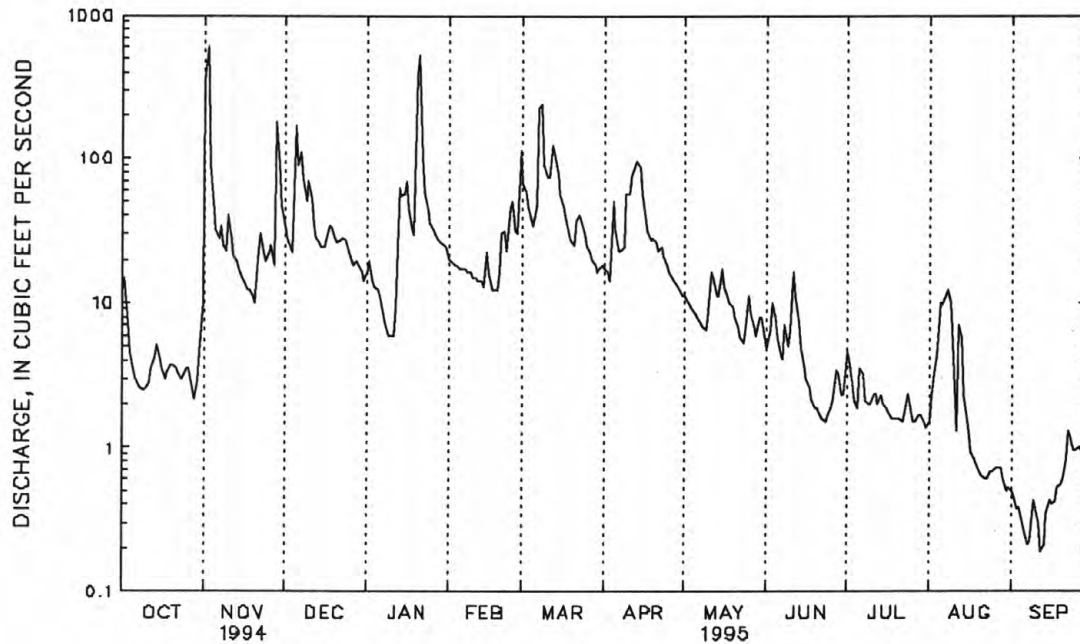
a Mar 5, 1938, Feb. 20, 1939.

b Ice jam.

c Sep. 12, 13.

d Practically no flow (result of construction operations).

f Jul 30, 1938, Sep. 30, 1939.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

SUSQUEHANNA RIVER BASIN

01523500 CANACADEA CREEK NEAR HORNEILL, 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 mi².

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 ft³/s, on basis of slope-area measurement of peak flow.

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	19	400	60	24	45	131	34	17	17	8.3	7.0	8.2
2	24	650	53	28	40	84	35	19	17	17	5.6	8.5
3	19	777	47	25	29	52	35	17	17	17	3.4	9.0
4	15	132	43	21	e27	44	41	16	23	9.2	3.4	9.0
5	15	57	279	21	e27	44	66	19	28	7.5	12	6.1
6	14	45	262	20	e26	56	61	19	22	7.3	14	3.6
7	9.3	42	218	20	e25	288	52	15	12	8.6	10	3.6
8	9.5	42	201	20	e24	659	46	13	10	11	6.4	3.4
9	9.6	42	110	19	e23	209	97	16	10	11	3.2	3.4
10	6.1	53	161	18	e22	77	160	18	10	11	2.9	2.7
11	7.2	57	140	18	e20	88	114	22	10	9.1	3.0	2.5
12	9.0	44	65	18	e19	242	136	27	15	7.5	6.4	7.8
13	11	37	41	60	e18	332	220	28	17	7.3	9.6	14
14	13	32	51	87	18	100	157	28	15	7.0	9.6	13
15	10	29	61	90	31	78	123	29	15	6.8	9.6	11
16	8.0	24	64	92	21	77	89	34	11	6.7	6.7	5.9
17	8.0	16	52	107	21	74	58	28	7.5	6.6	3.1	5.7
18	9.5	17	64	75	23	62	54	23	7.5	6.6	3.1	5.7
19	12	18	64	54	23	51	56	22	7.5	6.8	3.1	5.7
20	12	18	53	180	23	47	50	19	7.5	7.0	3.1	5.7
21	12	34	50	649	44	52	46	10	7.2	6.8	3.1	6.1
22	10	80	51	1100	42	65	45	5.8	7.0	4.9	3.1	6.3
23	8.0	63	53	406	35	71	37	11	7.0	5.0	3.1	5.8
24	9.9	40	50	97	47	64	33	16	7.0	41	2.5	5.9
25	11	34	48	72	58	51	34	18	7.0	13	2.5	6.1
26	12	39	44	59	46	40	34	21	7.3	5.7	1.9	6.1
27	9.0	43	36	56	40	38	35	20	11	6.1	1.2	6.1
28	8.9	229	33	51	126	39	30	9.7	11	6.0	3.9	6.1
29	11	487	e29	43	---	39	24	12	8.5	6.0	10	6.1
30	11	148	e23	35	---	37	19	18	8.4	6.8	9.7	6.1
31	13	---	e20	41	---	33	---	17	---	7.0	8.6	---
TOTAL	356.0	3729	2526	3606	943	3324	2021	587.5	360.4	287.6	174.8	195.2
MEAN	11.5	124	81.5	116	33.7	107	67.4	19.0	12.0	9.28	5.64	6.51
MAX	24	777	279	1100	126	659	220	34	28	41	14	14
MIN	6.1	16	20	18	18	33	19	5.8	7.0	4.9	1.2	2.5

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

	MEAN	32.7	56.1	71.0	63.4	76.3	153	144	72.3	56.1	23.3	19.0	25.4
	MAX	139	193	218	153	278	341	470	215	547	111	128	198
	(WY)	1977	1951	1973	1952	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

SUSQUEHANNA RIVER BASIN

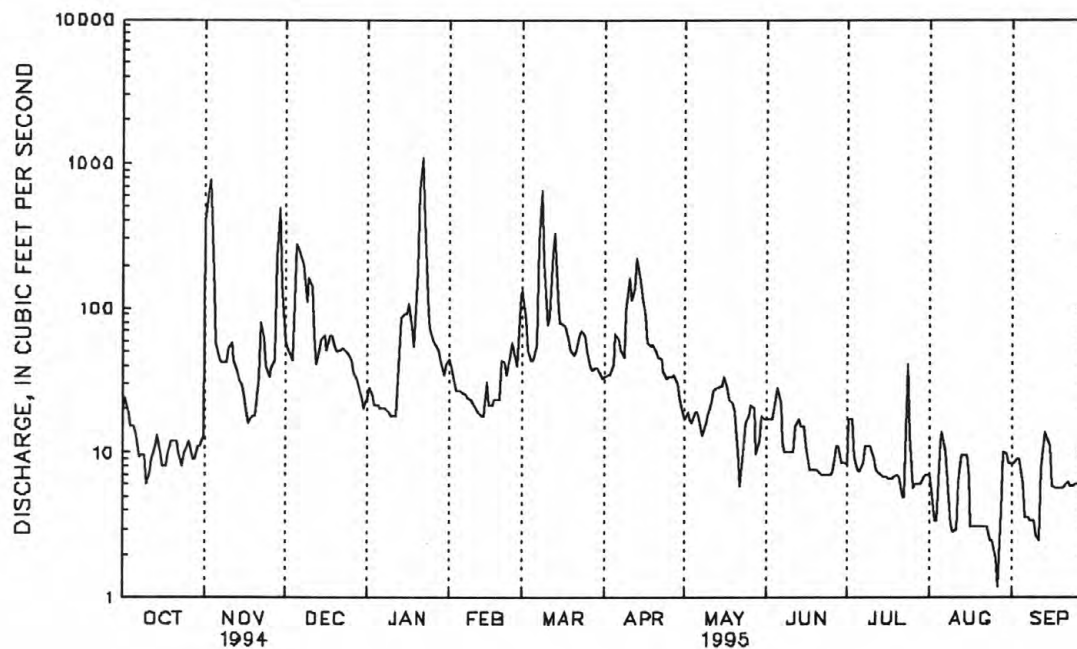
57

01523500 CANACADEA CREEK NEAR HORNE LL, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1941 - 1995	
ANNUAL TOTAL	32766.3		18110.5			
ANNUAL MEAN	89.8		49.6		65.7	
HIGHEST ANNUAL MEAN					110	
LOWEST ANNUAL MEAN					36.9	
HIGHEST DAILY MEAN	1250	Mar 27	1100	Jan 22	3970	Jun 23 1972
LOWEST DAILY MEAN	6.1	Oct 10	1.2	Aug 27	.60	a
ANNUAL SEVEN-DAY MINIMUM	8.8	Oct 7	2.5	Aug 21	.83	May 26 1965
INSTANTANEOUS PEAK FLOW			1260	Jan 22	b9430	May 17 1945
INSTANTANEOUS PEAK STAGE			3.03	Jan 22	6.65	Jun 3 1947
INSTANTANEOUS LOW FLOW			1.2	Aug 27	.50	May 29 1965
10 PERCENT EXCEEDS	231		91		144	
50 PERCENT EXCEEDS	36		20		26	
90 PERCENT EXCEEDS	10		6.0		8.2	

a May 30 to June 1, 1965.

b From rating curve extended above 3,400 ft³/s.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

SUSQUEHANNA RIVER BASIN

01524500 CANISTEO RIVER BELOW CANACADEA CREEK, AT HORNEILL, 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 mi².

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 fair except those for estimated daily discharges, which are poor. Diversion from Carrington Creek, a tributary upstream from station, by City of Hornell for municipal supply (1995 average 3.6 ft³/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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	1250	e160	91	e130	e380	104	61	38	35	17	15
2	74	1450	e140	92	e100	e240	99	60	45	33	16	15
3	52	727	e130	69	90	e150	95	59	59	35	13	20
4	43	337	e120	e62	e84	e130	138	57	57	28	13	19
5	41	218	e750	e58	e78	e130	151	66	54	25	33	16
6	38	161	e450	e57	e78	e160	134	62	47	26	36	13
7	31	127	e550	62	e76	632	129	60	37	30	23	13
8	32	e125	e400	60	e74	1080	120	52	31	30	19	12
9	30	e135	e220	52	e72	e480	198	49	33	28	15	13
10	26	e160	e300	e49	e70	e220	309	55	33	27	14	13
11	27	e180	e260	47	e68	e220	269	76	62	22	14	12
12	28	e140	e160	58	e64	558	357	79	53	20	44	15
13	30	e115	e120	201	e60	633	456	71	47	20	36	25
14	33	e95	e150	216	e58	e300	395	69	40	20	28	26
15	29	e88	e170	253	67	e220	310	81	38	19	26	22
16	26	e74	e180	308	56	e180	232	79	31	19	22	14
17	26	e50	e150	246	53	e160	173	69	26	19	16	14
18	28	e54	e180	163	54	e140	151	61	21	17	15	14
19	31	e56	e180	136	58	e120	155	58	22	15	15	14
20	31	e56	e150	1350	70	e110	140	54	22	15	14	14
21	31	e120	e150	1520	122	e120	129	44	19	15	14	15
22	28	e240	147	1090	98	e150	129	38	19	14	14	22
23	25	e190	152	466	102	e170	115	39	18	16	14	18
24	28	e125	148	312	133	152	102	48	19	66	13	15
25	29	e105	136	258	e160	137	98	55	20	42	13	15
26	29	e115	121	e180	e130	120	95	54	25	20	12	14
27	25	e130	107	e160	e110	111	92	49	45	19	12	14
28	26	612	107	e140	e360	110	84	41	34	20	12	14
29	27	546	93	e130	---	106	73	44	25	19	18	14
30	27	e350	69	e110	---	105	64	50	33	19	20	14
31	131	---	81	e120	---	115	---	45	---	18	18	---
TOTAL	1132	8131	6231	8116	2675	7639	5096	1785	1053	751	589	474
MEAN	36.5	271	201	262	95.5	246	170	57.6	35.1	24.2	19.0	15.8
MAX	131	1450	750	1520	360	1080	456	81	62	66	44	26
MIN	25	50	69	47	53	105	64	38	18	14	12	12

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1995, BY WATER YEAR (WY)

	MEAN	75.7	125	161	150	184	363	346	193	139	55.5	47.5	60.0
MAX	304	455	551	361	722	826	877	696	1226	249	303	498	
(WY)	1977	1951	1973	1952	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	

SUSQUEHANNA RIVER BASIN

59

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

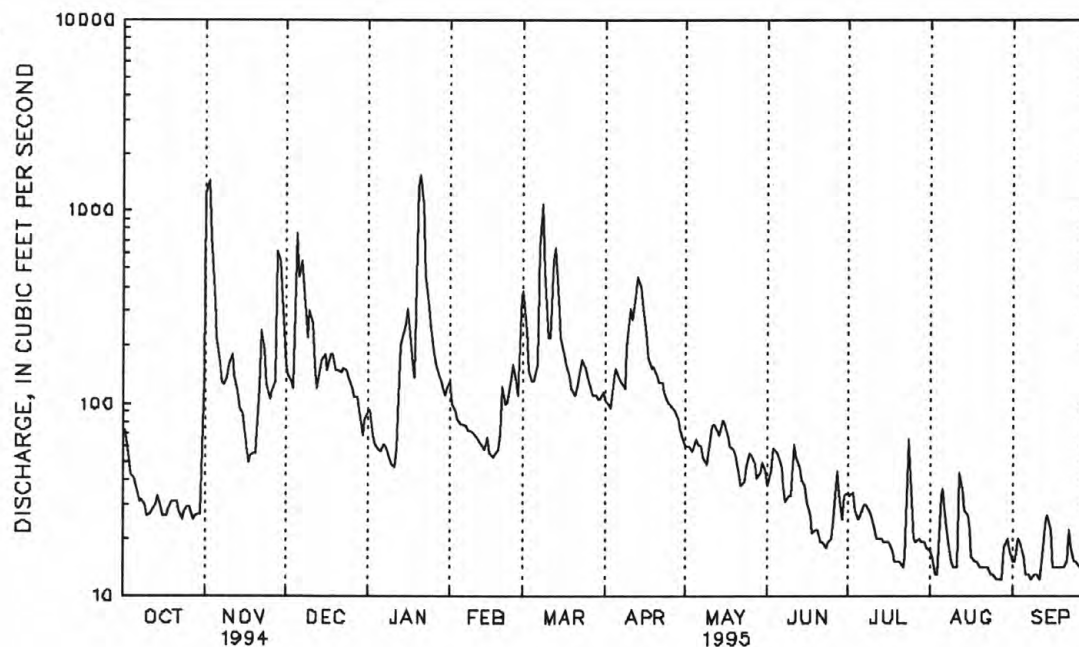
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1942 - 1995	
ANNUAL TOTAL	67991		43672		158	
ANNUAL MEAN	186		120		255	
HIGHEST ANNUAL MEAN					79.8	
LOWEST ANNUAL MEAN					1972	
HIGHEST DAILY MEAN	1610	Mar 24	1520	Jan 21	7440	Jun 23 1972
LOWEST DAILY MEAN	19	Aug 12	12	a	9.0	Sep 13 1955
ANNUAL SEVEN-DAY MINIMUM	23	Aug 6	13	Aug 22	10	Sep 8 1955
INSTANTANEOUS PEAK FLOW			1780	Jan 20	b9560	Jun 23 1972
INSTANTANEOUS PEAK STAGE			4.10	Jan 20	c13.45	Jun 23 1972
INSTANTANEOUS LOW FLOW			11	Aug 28	7.4	d
10 PERCENT EXCEEDS	508		242		347	
50 PERCENT EXCEEDS	92		60		68	
90 PERCENT EXCEEDS	28		15		22	

a Aug. 26, 27, 28, Sep. 8, 11.

b From rating curve extended above 7,600 ft³/s on basis of critical-depth measurement of peak flow.

c From floodmark.

d Sep.13, 14, 1955.



DAILY MEAN DISCHARGE FOR — 1995 WATER YEAR

SUSQUEHANNA RIVER BASIN
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 mi².

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	622	1530	1930	796	1290	1980	820	642	436	176	107	181
2	1180	5740	1730	815	1300	1440	719	621	434	188	103	167
3	1150	3840	1540	729	925	1070	691	628	827	181	101	164
4	755	2190	1380	e560	836	e850	1020	562	908	177	100	161
5	605	1600	2960	e460	848	e820	1620	540	716	166	117	162
6	574	1120	5230	e500	650	934	1240	513	512	162	145	176
7	519	989	3730	e480	e650	1760	1060	478	429	235	157	219
8	447	908	5050	e460	e620	4100	1270	455	423	235	132	219
9	424	824	3050	e440	e620	4130	3120	441	415	196	118	240
10	409	1220	2840	e440	e650	2350	5280	432	383	160	111	182
11	346	1520	3180	e430	e700	2410	3970	489	372	157	109	169
12	319	1200	2710	433	e600	3760	3680	597	406	150	110	163
13	304	911	1760	639	e560	4540	4060	637	416	145	107	159
14	282	856	1570	1140	e540	3620	3980	589	401	142	131	106
15	274	817	1610	1420	e540	2940	3090	846	334	139	139	103
16	273	759	1550	2900	e560	2670	2280	946	258	136	188	103
17	254	669	1530	2200	e540	2550	1920	890	241	144	206	101
18	244	641	1560	1440	e530	2160	1700	739	221	155	177	98
19	248	627	1600	1430	511	1730	1850	704	210	136	120	92
20	256	550	1550	8980	566	1680	1810	784	202	132	102	92
21	253	633	1400	17100	875	1630	1490	696	167	132	98	93
22	253	1440	1170	12300	1080	1760	1330	563	171	131	95	102
23	251	1080	1200	8510	883	1720	1230	507	163	129	92	109
24	258	956	1230	4470	1120	1540	1100	462	165	129	91	108
25	253	892	1240	2980	985	1250	987	651	171	131	88	106
26	253	870	1310	2400	746	1030	874	776	177	177	88	99
27	245	854	1290	2190	711	973	841	671	370	143	88	100
28	224	1860	1120	1720	1050	908	825	569	237	155	94	93
29	198	4280	1010	1270	---	860	801	551	238	130	161	91
30	194	2500	807	1120	---	833	693	513	221	120	161	88
31	199	---	707	1130	---	829	---	466	---	112	165	---
TOTAL	12066	43876	60544	81882	21486	60827	55351	18958	10624	4801	3801	4046
MEAN	389	1463	1953	2641	767	1962	1845	612	354	155	123	135
MAX	1180	5740	5230	17100	1300	4540	5280	946	908	235	206	240
MIN	194	550	707	430	511	820	691	432	163	112	88	88
CFSM	.28	1.06	1.42	1.92	.56	1.42	1.34	.44	.26	.11	.09	.10
IN.	.33	1.19	1.64	2.21	.58	1.64	1.50	.51	.29	.13	.10	.11

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1995, BY WATER YEAR (WY)

MEAN	584	1120	1318	1223	1481	3448	3335	1930	1022	440	358	351
MAX	4160	5296	4369	4002	5305	11350	11970	7043	8905	2310	3257	3992
(WY)	1991	1928	1973	1937	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

SUSQUEHANNA RIVER BASIN
01526500 TIOGA RIVER NEAR ERWINS, NY--Continued

61

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1918 - 1995	
ANNUAL TOTAL	771851		378262			
ANNUAL MEAN	2115		1036		1382	
HIGHEST ANNUAL MEAN					2371	
LOWEST ANNUAL MEAN					634	
HIGHEST DAILY MEAN	19200	Mar 24	17100	Jan 21	110000	Jun 23 1972
LOWEST DAILY MEAN	194	Oct 30	88	a	20	Sep 2 1939
ANNUAL SEVEN-DAY MINIMUM	224	Oct 25	91	Aug 22	22	Aug 28 1939
INSTANTANEOUS PEAK FLOW			24000	Jan 20	b190000	Jun 23 1972
INSTANTANEOUS PEAK STAGE			12.24	Jan 20	c26.74	Jun 23 1972
INSTANTANEOUS LOW FLOW			88	d	18	f
ANNUAL RUNOFF (CFSM)	1.54		.75		1.00	
ANNUAL RUNOFF (INCHES)	20.85		10.22		13.64	
10 PERCENT EXCEEDS	5740		2370		3300	
50 PERCENT EXCEEDS	989		620		523	
90 PERCENT EXCEEDS	304		118		105	

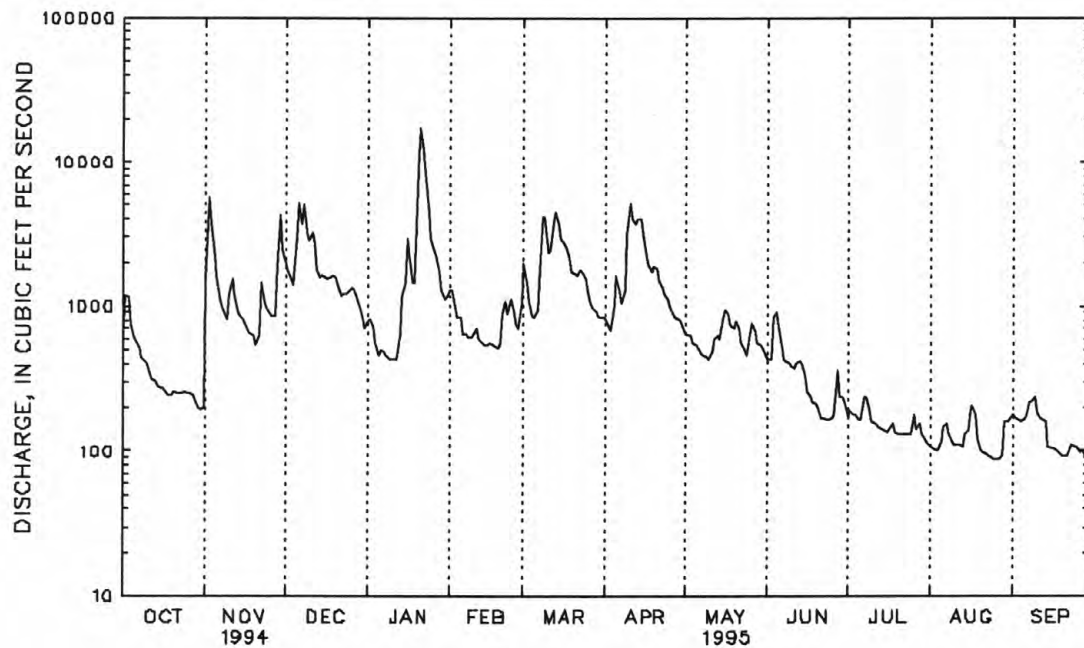
a Aug. 25, 25, 27, Sep. 30.

b From rating curve extended above 90,000 ft³/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.

c From floodmarks.

d Aug. 24, 25, 26-28, Sep. 29, 30.

f Sep. 2, 3, 1939.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

SUSQUEHANNA RIVER BASIN
01528000 FIVEMILE CREEK NEAR KANONA, NY

LOCATION.--Lat 42°23'18", long 77°21'29", Steuben County, Hydrologic Unit 02050105, on left bank just downstream from town of Wheeler highway bridge, 1.3 mi upstream from mouth and Kanona.

DRAINAGE AREA.--66.8 mi².

PERIOD OF RECORD.--February 1937 to March 1995 (discontinued).

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,170.30 ft above sea level (levels by Corps of Engineers). Prior to Oct. 1, 1973, at datum 1.00 ft higher.

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 PERIOD.--October 1994 to March 1995: Peak discharges greater than base discharge of 880 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 21	0230	*885	*4.11	No other peak greater than base discharge.			

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	6.0	189	87	e36	e66	219	---	---	---	---	---	---
2	7.2	648	71	e35	e62	133	---	---	---	---	---	---
3	5.6	364	62	e35	e60	e100	---	---	---	---	---	---
4	5.6	128	56	e34	e59	e80	---	---	---	---	---	---
5	5.3	79	268	e33	e58	e70	---	---	---	---	---	---
6	4.8	61	341	e32	e57	114	---	---	---	---	---	---
7	4.8	55	236	e30	e56	301	---	---	---	---	---	---
8	4.3	47	181	e29	e55	548	---	---	---	---	---	---
9	4.0	43	124	e28	e55	375	---	---	---	---	---	---
10	4.0	44	e110	e26	e54	194	---	---	---	---	---	---
11	4.0	39	e90	25	e54	164	---	---	---	---	---	---
12	3.8	34	e80	34	e53	254	---	---	---	---	---	---
13	3.6	31	e74	66	e53	302	---	---	---	---	---	---
14	3.5	28	e68	92	e52	215	---	---	---	---	---	---
15	4.6	25	63	127	e52	162	---	---	---	---	---	---
16	4.0	24	62	171	e52	133	---	---	---	---	---	---
17	3.7	23	62	111	e52	113	---	---	---	---	---	---
18	3.5	20	74	78	e52	97	---	---	---	---	---	---
19	3.7	20	78	65	e52	87	---	---	---	---	---	---
20	3.8	18	69	428	e52	81	---	---	---	---	---	---
21	3.4	35	63	785	e56	82	---	---	---	---	---	---
22	3.5	61	62	453	e70	87	---	---	---	---	---	---
23	4.5	45	67	209	e55	91	---	---	---	---	---	---
24	3.9	38	76	143	e80	78	---	---	---	---	---	---
25	3.4	38	69	119	e56	66	---	---	---	---	---	---
26	3.5	42	59	107	e60	59	---	---	---	---	---	---
27	3.5	37	53	97	e80	53	---	---	---	---	---	---
28	3.5	184	50	90	160	50	---	---	---	---	---	---
29	3.5	278	e45	e84	---	46	---	---	---	---	---	---
30	3.5	128	e40	e78	---	47	---	---	---	---	---	---
31	6.6	---	e38.	e72	---	47	---	---	---	---	---	---
TOTAL	132.6	2806	2878	3752	1723	4448	---	---	---	---	---	---
MEAN	4.28	93.5	92.8	121	61.5	143	---	---	---	---	---	---
MAX	7.2	648	341	785	160	548	---	---	---	---	---	---
MIN	3.4	18	38	25	52	46	---	---	---	---	---	---
CFM	.06	1.40	1.39	1.81	.92	2.15	---	---	---	---	---	---
IN.	.07	1.56	1.60	2.09	.96	2.48	---	---	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1995, BY WATER YEAR (WY)

	30.7	55.4	77.5	70.6	96.2	199	195	84.8	53.4	17.3	12.1	21.7
MEAN	30.7	55.4	77.5	70.6	96.2	199	195	84.8	53.4	17.3	12.1	21.7
MAX	251	193	264	235	465	449	611	281	537	107	97.3	297
(WY)	1956	1993	1973	1979	1976	1945	1940	1943	1972	1972	1992	1977
MIN	.75	1.40	3.23	3.46	9.02	54.9	23.9	13.4	4.33	1.75	1.19	.48
(WY)	1942	1942	1961	1961	1958	1965	1946	1941	1939	1955	1965	1941

SUSQUEHANNA RIVER BASIN
01528000 FIVEMILE CREEK NEAR KANONA, NY--Continued

63

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		WATER YEARS 1937 - 1995	
ANNUAL TOTAL	27702.2			
ANNUAL MEAN	75.9		75.8	
HIGHEST ANNUAL MEAN			131	1972
LOWEST ANNUAL MEAN			33.8	1965
HIGHEST DAILY MEAN	1300	Mar 25	4180	Jun 23 1972
LOWEST DAILY MEAN	2.6	Aug 12	.10	Sep 19 1941
ANNUAL SEVEN-DAY MINIMUM	3.1	Aug 7	.14	Sep 24 1941
INSTANTANEOUS PEAK FLOW			5110	Jun 23 1972
INSTANTANEOUS PEAK STAGE			a7.10	Mar 31 1940
INSTANTANEOUS LOW FLOW			.04	b
ANNUAL RUNOFF (CFSM)	1.14		1.14	
ANNUAL RUNOFF (INCHES)	15.43		15.43	
10 PERCENT EXCEEDS	192		180	
50 PERCENT EXCEEDS	33		28	
90 PERCENT EXCEEDS	4.0		2.6	

a Present datum, ice jam.

b Sep. 27, 29, 1941.

DRAINAGE AREA.--45.5 mi².

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.--29 years, 20.4 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 73 ft³/s, June 23, 1972; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 71 ft³/s, many days; no flow for many days.

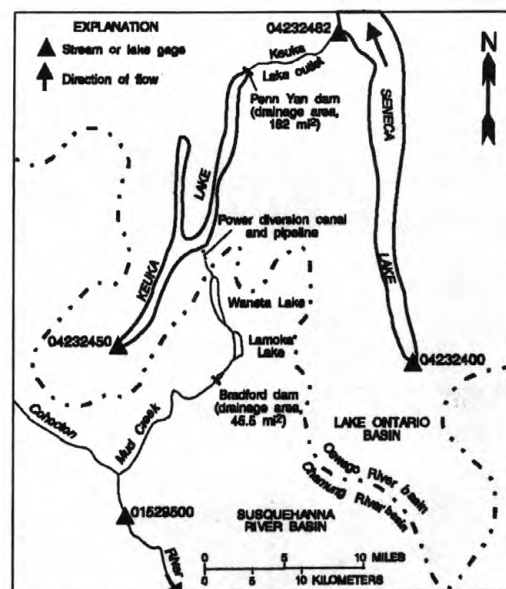


Figure 5.--Gaging stations and transbasin diversion, Cohocton River-Keuka Lake area.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

[illegible]

CAL YR 1994	TOTAL 3488.80	MEAN 9.56	MAX 68	MIN .00
WTR YR 1995	TOTAL 7433.00	MEAN 20.4	MAX 71	MIN .00

SUSQUEHANNA RIVER BASIN

65

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 mi².

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 mi² 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Nov. 2	0930	5,640	5.50	Jan. 20	2200	*5,750	*5.56

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	181	1730	621	310	493	695	327	234	107	108	45	28
2	236	4510	540	333	458	504	310	226	101	100	42	27
3	180	2000	482	260	e360	377	289	220	129	93	43	24
4	152	1030	441	e220	e330	370	346	207	133	77	39	23
5	138	702	1310	e180	e310	372	368	198	111	77	44	22
6	131	570	1440	e200	e290	465	314	188	98	70	91	21
7	123	508	1370	e195	e285	1040	307	186	89	71	59	19
8	116	441	1190	e195	e285	2160	306	172	84	61	50	18
9	110	398	859	e190	e280	1620	390	163	82	53	41	25
10	110	434	843	e190	e280	1100	496	165	79	58	38	25
11	102	374	878	e200	e280	1030	423	193	112	64	39	23
12	96	328	676	e210	e275	e1300	542	206	130	e50	49	22
13	90	301	552	321	e275	1430	712	185	110	e46	136	22
14	89	278	533	404	e270	1250	693	173	91	e48	104	25
15	88	261	500	515	e260	1090	616	188	80	e45	99	26
16	86	245	477	747	e260	970	526	179	73	e42	78	22
17	83	230	473	577	e250	852	470	163	70	e52	64	24
18	78	220	522	474	e240	738	426	161	65	e49	59	24
19	82	212	521	436	e240	650	433	156	62	e40	50	22
20	94	202	470	2870	e260	605	404	150	57	e33	44	22
21	90	307	461	4430	e330	608	373	144	e50	e34	40	24
22	86	475	491	2560	e310	618	375	134	e48	e34	36	28
23	86	342	528	1590	299	608	349	125	e48	e40	31	49
24	91	308	546	1220	377	526	320	123	e50	e50	29	42
25	85	304	512	1000	329	453	300	140	55	151	27	34
26	85	335	451	859	300	417	281	138	58	105	24	31
27	83	285	408	749	e280	386	269	128	104	91	24	28
28	83	1060	405	629	516	364	280	122	92	78	25	24
29	80	1350	391	557	---	342	267	134	76	66	24	49
30	78	784	306	523	---	338	244	130	75	58	21	58
31	99	---	325	536	---	337	---	117	---	51	22	---
TOTAL	3311	20524	19522	23680	8722	23615	11756	5148	2519	1995	1517	831
MEAN	107	684	630	764	311	762	392	166	84.0	64.4	48.9	27.7
MAX	236	4510	1440	4430	516	2160	712	234	133	151	136	58
MIN	78	202	306	180	240	337	244	117	48	33	21	18

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 1995, BY WATER YEAR (WY)

	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	182	328	423	393	482	1119	1133	597	336	181	121	135	1284	1611	1861	943	2059	3793	3579	2074	3167	2278	649	1204	1956	1928	1928	1952	1976	1936	1993	1919	1972	1935	1992	1977	25.7	33.0	42.5	32.5	75.1	312	201	143	59.2	31.1	25.0	15.5	1942	1942	1961	1961	1920	1965	1946	1934	1955	1955	1955	1934	1934																	
MAX	1284	1611	1861	943	2059	3793	3579	2074	3167	2278	649	1204	1956	1928	1928	1952	1976	1936	1993	1919	1972	1935	1992	1977	25.7	33.0	42.5	32.5	75.1	312	201	143	59.2	31.1	25.0	15.5	1942	1942	1961	1961	1920	1965	1946	1934	1955	1955	1955	1934	1934																													
MIN	25.7	33.0	42.5	32.5	75.1	312	201	143	59.2	31.1	25.0	15.5	1942	1942	1961	1961	1920	1965	1946	1934	1955	1955	1955	1934	1934																																																					

SUSQUEHANNA RIVER BASIN
01529500 COHOCTON RIVER NEAR CAMPBELL, NY--Continued

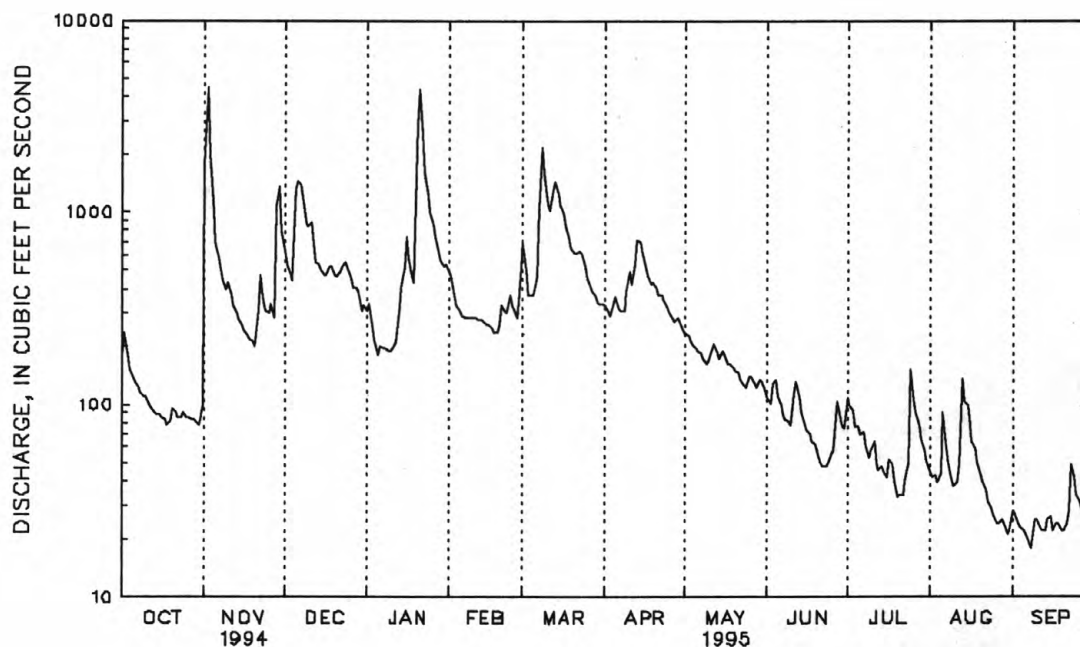
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1918 - 1995	
ANNUAL TOTAL	225996		123140			
ANNUAL MEAN	619		337		452	
HIGHEST ANNUAL MEAN					766	
LOWEST ANNUAL MEAN					210	
HIGHEST DAILY MEAN	7490	Mar 25	4510	Nov 2	24400	Jul 8 1935
LOWEST DAILY MEAN	66	Sep 21	18	Sep 8	8.0	Sep 6 1934
ANNUAL SEVEN-DAY MINIMUM	73	Sep 16	22	Sep 3	11	Sep 3 1934
INSTANTANEOUS PEAK FLOW			5750	Jan 20	a41100	Jul 8 1935
INSTANTANEOUS PEAK STAGE			5.56	Jan 20	b11.6	Jul 8 1935
INSTANTANEOUS LOW FLOW			18	c	8.0	d
10 PERCENT EXCEEDS	1460		706		1080	
50 PERCENT EXCEEDS	307		198		201	
90 PERCENT EXCEEDS	90		34		49	

a From rating curve extended above 24,200 ft³/s on basis of velocity-area and slope-area measurements of peak flow.

b From floodmark.

c Sep. 7, 8, 9.

d Sep. 6, 7, 1934.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

SUSQUEHANNA RIVER BASIN

67

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 mi².

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 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 mi² 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 ft³/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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	792	2780	2640	e1100	1530	2600	e1250	e960	543	e290	184	218
2	1280	11100	2290	e1200	1500	1940	e1130	e920	545	e280	176	210
3	1240	5790	2000	e1000	1180	1440	e1060	e910	891	e290	170	210
4	888	3320	1780	e850	1080	1220	e1400	e850	1000	e280	176	210
5	728	2390	5090	e750	e1050	e1300	e2100	e810	845	e270	214	210
6	676	1760	6170	e750	e1000	e1400	e1700	e770	639	e270	250	212
7	640	1510	4540	e740	e1000	e3000	e1500	e730	559	e290	245	244
8	576	1370	5660	e740	e1000	e6500	e1740	e690	558	e280	218	245
9	544	1240	3640	e720	e1000	e6200	e3400	e660	537	e270	193	312
10	531	1590	3280	e700	e950	e3700	e6200	e650	515	e260	180	236
11	485	1820	3500	e700	e950	e3600	e4800	e740	509	e250	175	214
12	450	1470	3090	e700	e950	e4600	e4600	e870	555	e240	184	210
13	432	1200	e2700	e750	e900	e6200	e5200	e900	559	e230	221	199
14	418	1120	e2500	e1200	e900	e5200	e5000	e830	528	e220	245	155
15	401	1060	e2300	1760	e850	e4400	e4100	e1100	475	e210	261	140
16	401	995	e2100	3630	e800	e4000	e3100	e1230	392	e200	300	143
17	386	895	e2000	2770	e750	e3700	e2600	e1140	364	e290	301	146
18	372	861	e2100	1820	e750	e3100	e2300	e960	330	279	275	142
19	361	831	e2150	1730	e750	e2600	e2300	e930	302	219	219	132
20	365	757	e2000	11000	e800	e2500	e2400	e1020	286	207	183	132
21	379	847	e1700	20000	e1000	e2400	e2000	e920	e270	205	170	128
22	379	1870	e1600	13700	e1050	e2500	e1800	e750	e260	203	157	159
23	365	1410	e1500	9510	e1100	e2500	e1700	e690	e260	205	153	169
24	365	1250	e1600	5610	1310	e2300	e1560	e640	e260	200	148	171
25	365	1190	e1700	3920	1280	e1850	e1400	e850	e270	262	144	171
26	365	1180	e1600	3200	1070	e1550	e1260	e1000	e260	321	140	158
27	361	1140	e1500	2890	1010	e1450	e1220	e860	e360	273	140	156
28	347	2840	e1400	2310	1430	e1400	e1200	e750	e320	268	140	147
29	321	6090	e1200	1840	---	e1300	e1180	e720	e310	237	191	144
30	310	3390	e1100	1650	---	e1270	e1020	624	e300	216	205	167
31	317	---	e950	1490	---	e1250	---	581	---	194	204	---
TOTAL	15840	65066	77380	100730	28940	88970	72220	26055	13802	7709	6162	5490
MEAN	511	2169	2496	3249	1034	2870	2407	840	460	249	199	183
MAX	1280	11100	6170	20000	1530	6500	6200	1230	1000	321	301	312
MIN	310	757	950	700	750	1220	1020	581	260	194	140	128
CFSM	.25	1.08	1.24	1.62	.52	1.43	1.20	.42	.23	.12	.10	.09
IN.	.29	1.21	1.44	1.87	.54	1.65	1.34	.48	.26	.14	.11	.10

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

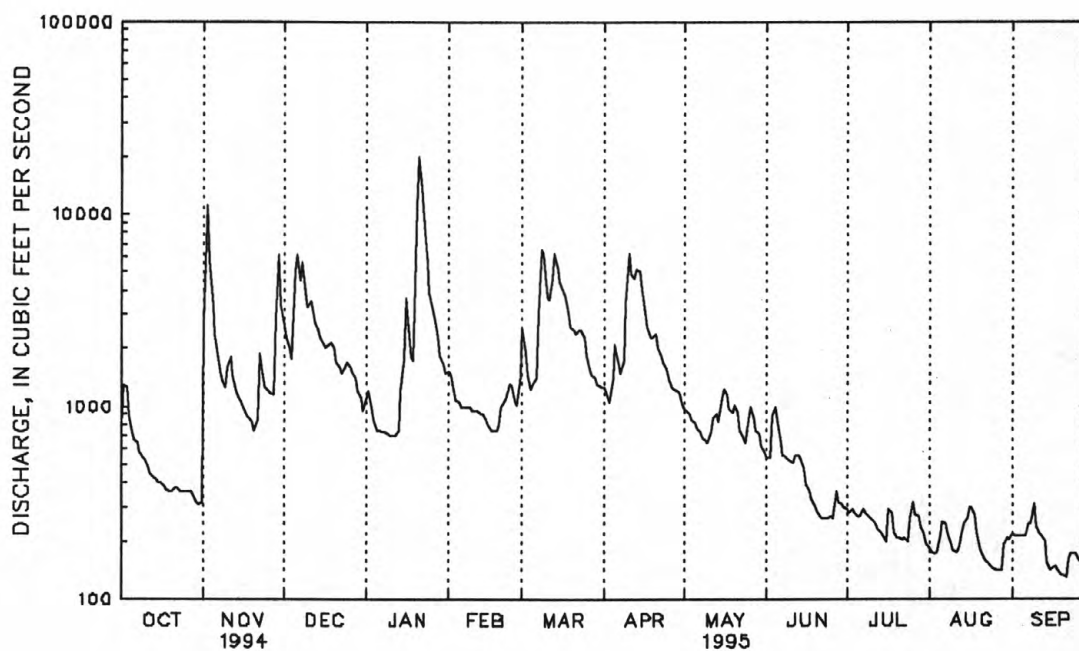
MEAN	1199	1702	2273	1891	2648	4399	4739	2385	1634	733	700	926
MAX	5478	5111	5246	4544	7993	9533	16150	6692	5835	1851	3388	5569
(WY)	1991	1978	1978	1979	1976	1979	1993	1989	1989	1984	1994	1975
MIN	157	341	389	328	537	1284	1599	549	244	173	184	141
(WY)	1992	1992	1989	1981	1980	1981	1981	1985	1991	1991	1991	1991

SUSQUEHANNA RIVER BASIN

01529950 CHEMUNG RIVER AT CORNING, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1975 - 1995	
ANNUAL TOTAL	1023004		508364		2097	
ANNUAL MEAN	2803		1393		3284	
HIGHEST ANNUAL MEAN					1287	
LOWEST ANNUAL MEAN					87100	
HIGHEST DAILY MEAN	29100	Mar 25	20000	Jan 21	Sep 26	1975
LOWEST DAILY MEAN	250	Aug 13	128	Sep 21	105	Oct 3 1980
ANNUAL SEVEN-DAY MINIMUM	322	Aug 7	138	Sep 15	108	Oct 2 1980
INSTANTANEOUS PEAK FLOW			28800	Jan 20	127000	Sep 26 1975
INSTANTANEOUS PEAK STAGE			22.93	Jan 20	32.46	Sep 26 1975
INSTANTANEOUS LOW FLOW			111	Sep 21	95	a
ANNUAL RUNOFF (CFSM)	1.40		.69		1.05	
ANNUAL RUNOFF (INCHES)	18.98		9.43		14.21	
10 PERCENT EXCEEDS	7720		3230		4920	
50 PERCENT EXCEEDS	1320		850		960	
90 PERCENT EXCEEDS	415		197		233	

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



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

SUSQUEHANNA RIVER BASIN

69

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 mi².

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.--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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	97	71	56	61	361	48	43	28	18	11	8.7
2	179	1070	61	77	58	167	43	41	31	17	11	7.6
3	86	329	55	47	46	102	41	42	77	16	12	6.6
4	58	163	49	37	e42	83	184	37	78	15	31	6.6
5	47	103	668	25	e40	79	111	34	47	15	42	6.6
6	39	75	492	e26	37	272	73	32	35	17	33	6.6
7	32	64	501	e28	e36	431	67	30	30	17	12	6.6
8	28	55	388	e26	e35	692	71	28	38	15	10	6.9
9	25	50	230	e24	e34	484	186	28	34	15	9.5	33
10	23	57	228	24	e32	263	348	28	27	14	9.5	10
11	22	48	303	24	e31	226	211	36	27	14	9.2	6.8
12	27	41	175	27	30	333	207	173	30	13	11	8.1
13	42	37	109	42	28	286	385	96	29	13	8.9	13
14	39	34	90	54	27	195	277	69	25	14	8.8	102
15	32	32	85	136	25	157	188	85	23	14	19	14
16	31	31	78	413	26	132	126	76	21	13	109	10
17	30	29	75	165	26	119	103	62	20	17	20	11
18	33	28	89	106	26	105	91	62	20	20	10	11
19	35	27	83	87	27	93	97	59	19	17	8.7	11
20	42	25	73	517	35	85	85	52	19	17	8.1	11
21	41	31	64	740	77	91	75	45	18	17	7.8	11
22	38	44	56	496	57	101	76	37	18	17	7.0	18
23	35	36	53	285	60	96	66	33	18	16	7.2	17
24	32	32	58	198	173	79	58	36	23	18	7.0	14
25	26	29	73	153	73	67	53	54	19	21	6.7	12
26	20	30	63	129	55	60	48	46	18	18	6.5	12
27	18	28	52	106	51	55	46	36	18	18	6.3	14
28	18	213	49	79	586	52	61	33	19	16	6.3	16
29	18	232	48	62	---	49	55	38	20	15	6.7	15
30	16	92	36	59	---	49	46	35	19	13	6.5	14
31	16	---	36	63	---	51	---	32	---	11	7.2	---
TOTAL	1238	3162	4491	4311	1834	5415	3526	1538	848	491	468.9	440.1
MEAN	39.9	105	145	139	65.5	175	118	49.6	28.3	15.8	15.1	14.7
MAX	179	1070	668	740	586	692	385	173	78	21	109	102
MIN	16	25	36	24	25	49	41	28	18	11	6.3	6.6
CFSM	.52	1.36	1.87	1.79	.85	2.25	1.52	.64	.36	.20	.20	.19
IN.	.59	1.52	2.16	2.07	.88	2.60	1.69	.74	.41	.24	.23	.21

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1995, BY WATER YEAR (WY)

MEAN	50.3	73.0	92.6	74.1	97.5	193	187	109	61.9	35.3	32.3	32.5
MAX	365	258	238	186	274	364	747	313	297	111	171	232
(WY)	1956	1978	1943	1952	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

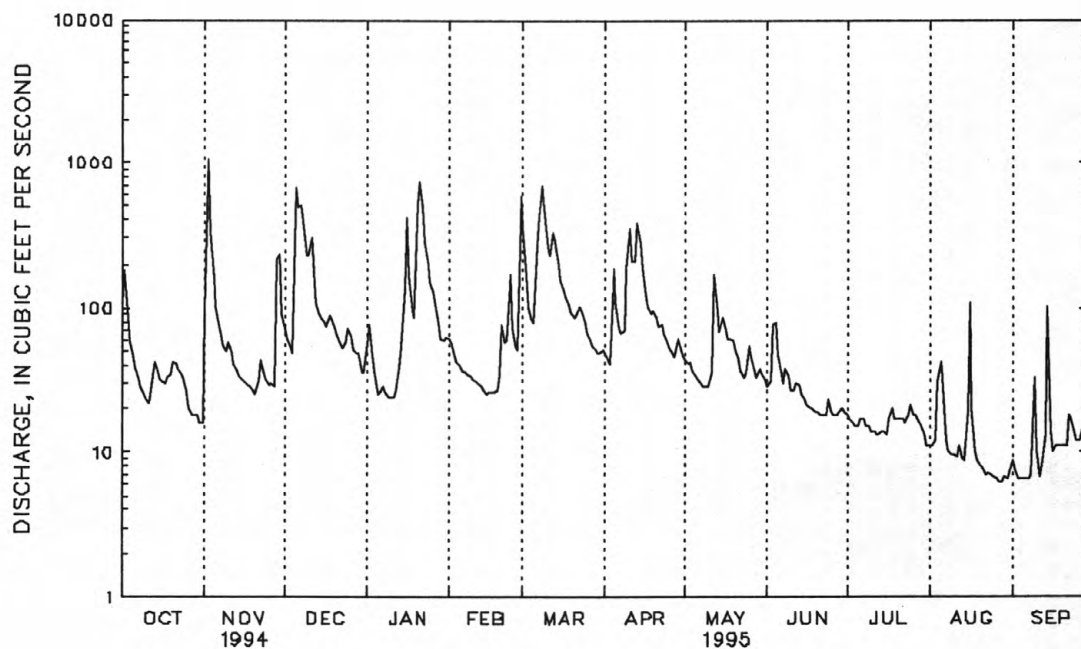
SUSQUEHANNA RIVER BASIN
01530500 NEWTOWN CREEK AT ELMIRA, NY

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1938 - 1995	
ANNUAL TOTAL	44776		27763.0		86.3	
ANNUAL MEAN	123		76.1		140	
HIGHEST ANNUAL MEAN					38.2	
LOWEST ANNUAL MEAN					1978	
HIGHEST DAILY MEAN	1990	Aug 18	1070	Nov 2	3030	Sep 26 1975
LOWEST DAILY MEAN	13	Sep 21	6.3	a	1.7	Sep 16 1985
ANNUAL SEVEN-DAY MINIMUM	15	Aug 7	6.6	Aug 24	2.8	Sep 13 1985
INSTANTANEOUS PEAK FLOW			1370	Nov 2	b4000	Jun 23 1972
INSTANTANEOUS PEAK STAGE			10.73	Nov 2	c19.28	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.58		.98		1.11	
ANNUAL RUNOFF (INCHES)	21.49		13.33		15.14	
10 PERCENT EXCEEDS	336		181		187	
50 PERCENT EXCEEDS	48		36		38	
90 PERCENT EXCEEDS	22		11		12	

a Aug. 27, 28.

b About (backwater from Chemung River).

c From floodmarks (backwater from Chemung River).



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

SUSQUEHANNA RIVER BASIN

71

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 mi².

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 mi² 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 21	1000	33,500	13.79	No other peak greater than base discharge.			

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	1220	957	3580	1470	2350	3540	1600	1380	757	389	231	247
2	1740	14200	2990	1590	2380	2930	1540	1300	704	360	223	252
3	1840	9530	2630	1380	2040	2130	1430	1250	1040	365	216	248
4	1390	5270	2370	1190	1760	1740	1600	1220	1680	358	210	234
5	1060	3480	4710	e1000	1690	1610	2530	1140	1320	338	346	232
6	917	2670	11300	e980	1370	1860	2210	1100	1010	331	416	229
7	847	2180	6960	e960	e1350	2900	1920	1050	837	339	353	226
8	758	1940	9070	e960	e1300	7070	1840	1010	780	366	326	256
9	682	1740	6020	e940	e1300	9370	2960	963	746	370	288	359
10	653	1750	5000	e920	e1250	5060	7800	935	701	341	255	401
11	623	2350	5460	e910	e1250	4340	6660	971	655	312	242	285
12	555	2000	5010	e900	e1200	5530	5400	1240	656	296	228	253
13	516	1660	3410	993	e1200	7590	6180	1320	714	288	245	260
14	519	1470	2790	1590	e1150	6590	6410	1220	683	276	246	286
15	489	1360	2740	2220	e1100	5680	5470	1210	633	265	281	256
16	457	1280	2630	4590	1020	4800	4170	1460	574	252	418	190
17	461	1200	2530	4290	1040	4510	3450	1450	497	245	385	180
18	448	1120	2600	2880	976	4000	2970	1330	460	343	355	192
19	445	1070	2660	2470	974	3350	2850	1210	427	334	320	177
20	484	1010	2580	6160	1020	3020	3010	1210	414	271	273	168
21	485	987	2380	30100	1320	2890	2630	1200	383	254	228	166
22	471	1790	2140	21000	1680	3030	2410	1060	339	251	211	187
23	476	1990	2070	14100	1640	3060	2250	957	331	245	195	210
24	456	1630	2190	8940	1840	2850	2090	874	337	245	193	205
25	454	1480	2360	5820	1820	2480	1960	966	355	255	187	186
26	448	1440	2290	4670	1540	2160	1800	1070	341	289	176	195
27	448	1430	2150	4060	1320	1980	1680	1070	331	351	170	208
28	430	2090	1980	3470	1920	1870	1640	960	495	327	167	202
29	412	7600	1860	2780	---	1760	1630	913	431	311	163	190
30	364	4860	1560	2410	---	1680	1510	890	417	274	190	180
31	356	---	1290	2320	---	1640	---	833	---	248	227	---
TOTAL	20904	83534	109310	138063	40800	113020	91600	34762	19048	9489	7964	6860
MEAN	674	2784	3526	4454	1457	3646	3053	1121	635	306	257	229
MAX	1840	14200	11300	30100	2380	9370	7800	1460	1680	389	418	401
MIN	356	957	1290	900	974	1610	1430	833	331	245	163	166
CFM	.27	1.11	1.41	1.78	.58	1.45	1.22	.45	.25	.12	.10	.09
IN.	.31	1.24	1.62	2.05	.61	1.68	1.36	.52	.28	.14	.12	.10

e Estimated

SUSQUEHANNA RIVER BASIN
01531000 CHEMUNG RIVER AT CHEMUNG, NY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 1995, BY WATER YEAR (WY)

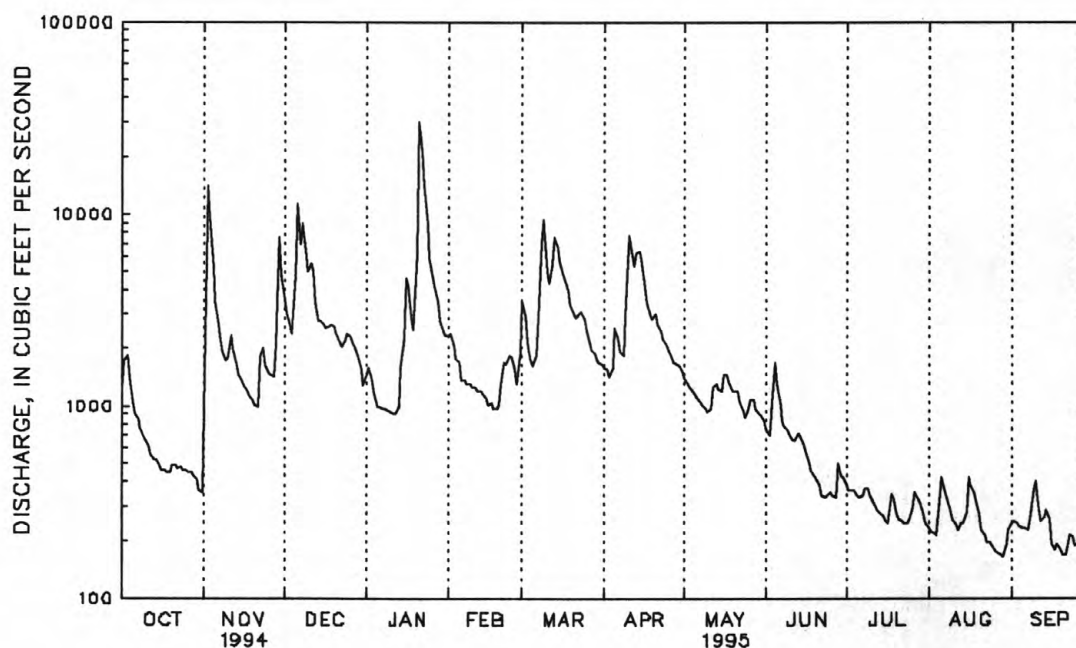
MEAN	1118	1885	2335	2286	2750	6308	6220	3603	1938	905	744	664
MAX	8408	9126	8752	7223	10090	20910	21600	11500	15720	5885	5001	7247
(WY)	1956	1928	1928	1913	1915	1936	1993	1919	1972	1935	1994	1975
MIN	101	114	137	207	327	1674	925	660	275	130	124	97.3
(WY)	1965	1931	1909	1931	1934	1965	1946	1934	1955	1911	1965	1932

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1906 - 1995	
ANNUAL TOTAL	1341427		675354			
ANNUAL MEAN	3675		1850		2569	
HIGHEST ANNUAL MEAN					4416	1978
LOWEST ANNUAL MEAN					1120	1965
HIGHEST DAILY MEAN	43100	Mar 25	30100	Jan 21	159000	Jun 23 1972
LOWEST DAILY MEAN	321	Aug 13	163	Aug 29	52	Aug 14 1911
ANNUAL SEVEN-DAY MINIMUM	416	Oct 25	178	Aug 24	75	Aug 10 1911
INSTANTANEOUS PEAK FLOW			33500	Jan 21	a189000	Jun 23 1972
INSTANTANEOUS PEAK STAGE			13.79	Jan 21	b31.62	Jun 23 1972
INSTANTANEOUS LOW FLOW			159	c	49	Aug 14 1911
ANNUAL RUNOFF (CFSM)	1.47		.74		1.03	
ANNUAL RUNOFF (INCHES)	19.91		10.03		13.93	
10 PERCENT EXCEEDS	9870		4410		6080	
50 PERCENT EXCEEDS	1800		1120		1020	
90 PERCENT EXCEEDS	533		244		220	

a From rating curve extended above 65,000 ft³/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 Aug. 28, 29.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

SUSQUEHANNA RIVER BASIN

73

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 mi². 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, 3,500 acre-ft, June 4, elevation, 1,151.04 ft; minimum, 1,370 acre-ft, Jan. 21, elevation, 1,137.77 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 mi². 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, 13,480 acre-ft, Nov. 29, elevation, 973.63 ft; minimum, 5,090 acre-ft, Dec. 16, elevation, 965.87 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

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	1,150.09	3,300	--	973.07	12,774	--
Oct. 31	1,149.27	3,135	- 2.7	973.19	12,926	+ 2.5
Nov. 30	1,149.57	3,195	+ 1.0	972.71	12,337	- 9.9
Dec. 31	1,139.96	1,625	- 25.5	966.17	5,382	- 113
CAL YR 1994	--	--	- 0.04	--	--	- 0.4
Jan. 31	1,140.80	1,734	+ 1.8	966.28	5,491	+ 1.8
Feb. 28	1,141.01	1,761	+ 0.5	966.43	5,638	+ 2.6
Mar. 31	1,140.23	1,660	- 1.6	966.28	5,491	- 2.4
Apr. 30	1,143.60	2,136	+ 8.0	970.98	10,328	+ 81.3
May 31	1,150.59	3,405	+ 20.6	973.19	12,926	+ 42.2
June 30	1,150.65	3,418	+ 0.2	973.19	12,926	0
July 31	1,150.48	3,382	- 0.6	973.09	12,799	- 2.1
Aug. 31	1,148.78	3,039	- 5.6	972.92	12,589	- 3.4
Sept. 30	1,147.00	2,705	- 5.6	973.16	12,888	+ 5.0
WTR YR 1995	--	--	- 0.8	--	--	+ 0.2

SUSQUEHANNA RIVER BASIN

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 mi². 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 satellite and landline telemeters 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, 59,700 acre-ft, Jan. 21, elevation, 1,091.54 ft; minimum, 8,870 acre ft, Sept. 21, elevation, 1,079.61 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 mi². 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 satellite and landline telemeters 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, 14,200 acre-ft, Jan. 21, elevation, 1,093.18 ft; minimum, 8,040 acre-ft, Sept. 30, elevation, 1,084.90 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in cfs)
01517900 Tioga Lake				01518498 Hammond Lake		
Sept. 30	1,080.87	9,440	--	1,086.14	8,940	--
Oct. 31	1,081.10	9,550	+ 1.8	1,086.00	8,850	- 1.5
Nov. 30	1,083.56	10,780	+ 20.7	1,087.01	9,470	+ 10.4
Dec. 31	1,083.32	10,660	- 2.0	1,087.35	9,720	+ 4.1
CAL YR 1994.....	--	--	+ 0.5	--	--	+ 1.0
Jan. 31	1,083.74	10,870	+ 3.4	1,087.34	8,710	- 0.2
Feb. 28	1,081.30	9,650	- 22.0	1,086.22	8,980	- 13.1
Mar. 31	1,181.16	9,580	- 1.1	1,086.35	9,060	+ 1.3
Apr. 30	1,081.28	9,640	+ 1.0	1,086.14	8,940	- 2.0
May 31	1,081.13	9,560	- 1.3	1,086.12	8,920	- 0.3
June 30	1,081.33	9,660	+ 1.7	1,085.94	8,800	- 2.0
July 31	1,080.39	9,220	- 7.2	1,086.14	8,940	+ 2.3
Aug. 31	1,080.41	9,230	+ 0.2	1,085.49	8,470	- 7.6
Sept. 30	1,079.82	8,970	- 4.4	1,084.90	8,040	- 7.2
WTR YR 1995.....	--	--	- 0.6	--	--	- 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 mi². 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 satellite and landline telemeters 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, 40,980 acre-ft, Jan. 21, elevation 1,087.32 ft; minimum, 29,050 acre-ft, Sept. 30, elevation, 1,076.65 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 mi². 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, 4,185 acre-ft, Jan. 21, elevation, 1,271.78 ft; minimum, 1,624 acre-ft, Mar. 13, elevation, 1,259.16 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in cfs)
01519995 Cowanesque Lake				01523000 Almond Lake		
Sept. 30	1,080.11	32,710	--	1,260.03	1,755	--
Oct. 31	1,080.33	32,930	+ 3.6	1,260.37	1,809	+ 0.9
Nov. 30	1,080.26	32,860	- 1.2	1,259.56	1,684	- 2.1
Dec. 31	1,080.24	32,840	- 0.3	1,260.10	1,766	+ 1.3
CAL YR 1994.....	--	--	- 0.1	--	--	- 0
Jan. 31	1,080.36	32,960	+ 2.0	1,260.20	1,782	+ 0.3
Feb. 28	1,080.34	32,940	- 0.4	1,260.94	1,900	+ 2.1
Mar. 31	1,080.21	32,810	- 2.1	1,260.14	1,772	- 2.1
Apr. 30	1,080.25	32,850	+ 0.7	1,259.96	1,744	- 0.5
May 31	1,080.64	33,240	+ 6.3	1,260.38	1,811	+ 1.1
June 30	1,080.37	32,970	- 4.5	1,260.34	1,804	- 0.1
July 31	1,080.37	32,970	0	1,260.10	1,766	- 0.6
Aug. 31	1,079.19	31,710	- 20.5	1,260.30	1,798	+ 0.5
Sept. 30	1,076.65	29,050	- 44.7	1,260.05	1,758	- 0.7
WTR YR 1995.....	--	--	- 5.1	--	--	- 0

DIVERSION OF WATER AFFECTING THE SUSQUEHANNA RIVER BASIN

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

OHIO RIVER MAIN STEM

03011020 ALLEGHENY RIVER AT SALAMANCA, NY

LOCATION.--Lat 42°09'23", long 78°42'56", Cattaraugus County, Hydrologic Unit 05010001, on left bank 230 ft 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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Nov. 2	0700	*14,100	*8.87				

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	1930	6650	4840	1380	2290	e3600	1640	1370	1430	410	324	154
2	3360	13500	4070	1470	2040	3380	1520	1290	1310	568	291	149
3	2640	10300	3500	e1200	1610	e2400	1420	1220	1520	565	276	146
4	1940	6720	3060	e920	1560	e2200	1830	1160	1540	451	268	141
5	1630	4790	4110	e780	1240	e2200	2770	1090	1270	398	438	138
6	1420	4060	7140	e750	e1100	2570	2520	1030	1110	474	588	130
7	1240	4410	6870	e700	e1050	4710	2600	971	1020	500	463	120
8	1100	4000	8640	e680	e1000	10900	3090	913	1110	470	371	116
9	1000	3390	7630	e650	e1000	9930	6900	859	1050	407	292	120
10	941	5150	7710	e640	e980	7440	9260	879	919	366	255	117
11	875	5710	7140	e600	e950	6190	8270	1500	890	372	272	117
12	805	4700	5880	e650	e950	6150	7530	1890	893	347	334	117
13	732	4100	e4350	e2200	e920	6120	7200	1880	922	330	345	132
14	681	3560	e3700	e3700	e900	5870	6660	1790	856	338	311	176
15	652	3110	3340	4180	e900	5490	5560	3220	703	320	343	191
16	630	2710	3040	5320	e880	5060	4580	2780	633	308	593	209
17	598	2420	2870	5130	e860	4490	3910	2300	578	272	573	170
18	563	2180	3020	4440	e850	3860	3440	2160	533	254	395	157
19	556	1980	2860	3980	e850	3330	3260	2150	496	329	281	142
20	589	1800	2580	6450	e840	2960	3370	2190	465	392	240	136
21	647	1780	2330	12600	e830	3050	2890	1880	442	312	217	146
22	650	2690	2150	11300	e820	3340	2820	1650	582	286	197	160
23	597	2620	2040	9260	e800	3170	2600	1490	483	287	184	241
24	587	2320	1990	7120	e1000	2790	2320	1410	454	303	173	221
25	590	2250	1940	5230	e1300	2460	2120	1810	425	362	165	231
26	547	2320	1810	4230	e1100	2220	1940	1940	404	333	157	196
27	551	2110	1640	3620	e1000	2050	1800	1590	436	366	152	170
28	574	3890	1580	3150	e1900	1910	1710	1400	505	501	149	155
29	529	7560	1560	e2400	---	1780	1590	1700	501	525	146	148
30	496	5980	1290	e2100	---	1700	1470	2040	443	439	143	140
31	498	---	1200	e2200	---	1710	---	1700	---	390	139	---
TOTAL	30148	128760	115880	109030	31520	125030	108590	51252	23923	11975	9075	4686
MEAN	973	4292	3738	3517	1126	4033	3620	1653	797	386	293	156
MAX	3360	13500	8640	12600	2290	10900	9260	3220	1540	568	593	241
MIN	496	1780	1200	600	800	1700	1420	859	404	254	139	116
CFSM	.60	2.67	2.32	2.19	.70	2.51	2.25	1.03	.50	.24	.18	.10
IN.	.70	2.98	2.68	2.52	.73	2.89	2.51	1.19	.55	.28	.21	.11

e Estimated

OHIO RIVER MAIN STEM

77

03011020 ALLEGHENY RIVER AT SALAMANCA, NY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1995, BY WATER YEAR (WY)

MEAN	1332	2513	3099	3289	3146	6017	5882	3446	2026	1101	727	835
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

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

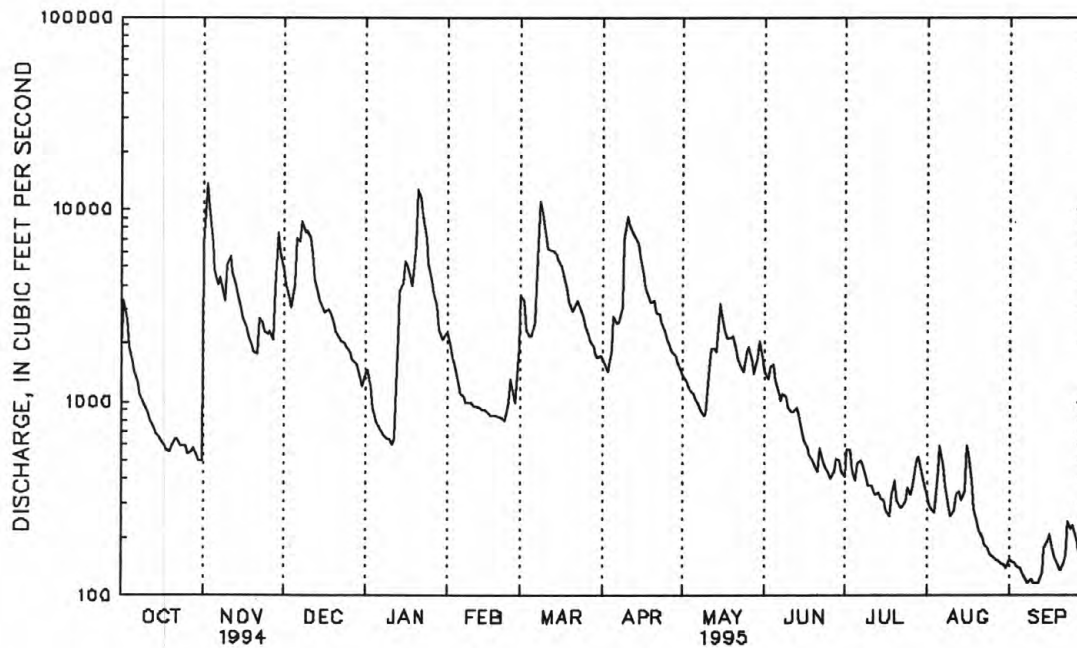
FOR 1995 WATER YEAR

WATER YEARS 1904 - 1995

ANNUAL TOTAL	1300257		749869									
ANNUAL MEAN	3562		2054							2781		
HIGHEST ANNUAL MEAN										4174		1916
LOWEST ANNUAL MEAN										1784		1931
HIGHEST DAILY MEAN	20700	Mar 25	13500	Nov 2	67900	Jun 23 1972						
LOWEST DAILY MEAN	315	Aug 12	116	Sep 8	79	a						
ANNUAL SEVEN-DAY MINIMUM	377	Aug 6	120	Sep 6	84	Dec 11 1908						
INSTANTANEOUS PEAK FLOW			14100	Nov 2	73000	Jun 23 1972						
INSTANTANEOUS PEAK STAGE			8.87	Nov 2	b24.01	Jun 23 1972						
ANNUAL RUNOFF (CFSM)	2.22		1.28		1.73							
ANNUAL RUNOFF (INCHES)	30.08		17.35		23.50							
10 PERCENT EXCEEDS	8560		5180		6780							
50 PERCENT EXCEEDS	2250		1240		1500							
90 PERCENT EXCEEDS	628		204		285							

a Sep. 10, 11, 1971.

b From floodmarks.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

03013946 CHAUTAUQUA LAKE AT BEMUS POINT, NY

DRAINAGE AREA.--189 mi².

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 mi². 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, 1,308.42 ft, May 14; minimum, 1,306.78 ft, Jan. 11, 12, .

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1308.24	1307.91	1307.23	1307.06	1307.61	1307.18	1307.39	1308.10	1308.26	1308.04	1307.94	1307.66
2	1308.29	1307.96	1307.19	1307.05	1307.56	1307.18	1307.40	1308.10	1308.27	1308.02	1307.93	1307.63
3	1308.22	1307.92	1307.15	1307.01	1307.51	1307.16	1307.41	1308.10	1308.28	1308.00	1307.92	1307.60
4	1308.12	1307.88	1307.11	1306.99	1307.46	1307.14	1307.45	1308.10	1308.28	1307.99	1307.92	1307.58
5	1308.02	1307.85	1307.13	1306.97	1307.43	1307.11	1307.47	1308.10	1308.28	1307.98	1307.98	1307.56
6	1307.95	1307.83	1307.18	1306.93	1307.40	1307.13	1307.49	1308.10	1308.27	1307.99	1308.02	1307.55
7	1307.95	1307.86	1307.27	1306.93	1307.36	1307.29	1307.52	1308.10	1308.26	1307.98	1308.00	1307.53
8	1307.94	1307.82	1307.38	1306.90	1307.32	1307.78	1307.61	1308.09	1308.22	1307.97	1307.97	1307.52
9	1307.94	1307.80	1307.39	1306.87	1307.28	1307.85	1307.79	1308.08	1308.16	1307.96	1307.94	1307.50
10	1307.95	1307.89	1307.48	1306.84	1307.24	1307.83	1307.89	1308.11	1308.15	1307.95	1307.93	1307.48
11	1307.95	1307.94	1307.61	1306.81	1307.20	1307.81	1307.88	1308.21	1308.16	1307.94	1307.94	1307.45
12	1307.94	1307.90	1307.64	1306.81	1307.15	1307.82	1307.91	1308.26	1308.15	1307.93	1307.97	1307.43
13	1307.93	1307.84	1307.61	1307.00	1307.11	1307.85	1308.01	1308.27	1308.13	1307.92	1307.98	1307.43
14	1307.93	1307.79	1307.56	1307.16	1307.07	1307.87	1308.07	1308.31	1308.11	1307.91	1307.98	1307.44
15	1307.92	1307.74	1307.52	1307.35	1307.03	1307.85	1308.09	1308.37	1308.10	1307.93	1307.99	1307.44
16	1307.92	1307.68	1307.48	1307.82	1307.01	1307.83	1308.05	1308.34	1308.09	1307.93	1308.01	1307.41
17	1307.91	1307.61	1307.52	1307.94	1306.99	1307.78	1307.99	1308.31	1308.07	1307.93	1307.99	1307.39
18	1307.90	1307.57	1307.57	1307.94	1306.97	1307.73	1307.94	1308.28	1308.06	1307.91	1307.97	1307.38
19	1307.92	1307.52	1307.57	1307.91	1306.94	1307.68	1307.91	1308.24	1308.05	1307.90	1307.95	1307.36
20	1307.93	1307.46	1307.55	1307.98	1306.92	1307.64	1307.93	1308.21	1308.04	1307.88	1307.93	1307.36
21	1307.93	1307.42	1307.53	1308.11	1306.94	1307.66	1307.96	1308.19	1308.02	1307.88	1307.91	1307.37
22	1307.93	1307.39	1307.49	1308.13	1306.93	1307.67	1307.99	1308.17	1308.02	1307.87	1307.88	1307.36
23	1307.92	1307.34	1307.46	1308.10	1306.92	1307.65	1308.02	1308.16	1308.02	1307.88	1307.85	1307.34
24	1307.92	1307.29	1307.42	1308.05	1306.95	1307.60	1308.03	1308.19	1308.01	1307.90	1307.83	1307.32
25	1307.91	1307.24	1307.37	1308.00	1306.96	1307.54	1308.03	1308.24	1308.01	1307.92	1307.80	1307.31
26	1307.91	1307.20	1307.32	1307.96	1306.95	1307.49	1308.05	1308.25	1308.03	1307.94	1307.77	1307.30
27	1307.90	1307.16	1307.28	1307.92	1306.96	1307.44	1308.06	1308.25	1308.07	1307.96	1307.75	1307.28
28	1307.89	1307.24	1307.24	1307.86	1307.09	1307.39	1308.09	1308.24	1308.06	1307.97	1307.73	1307.27
29	1307.87	1307.28	1307.20	1307.79	---	1307.36	1308.09	1308.25	1308.04	1307.97	1307.71	1307.26
30	1307.85	1307.26	1307.14	1307.73	---	1307.37	1308.10	1308.26	1308.04	1307.96	1307.69	1307.24
31	1307.84	---	1307.10	1307.67	---	1307.38	---	1308.26	---	1307.95	1307.67	---
MEAN	1307.96	1307.62	1307.38	1307.47	1307.15	1307.55	1307.85	1308.20	1308.12	1307.94	1307.90	1307.42
MAX	1308.29	1307.96	1307.64	1308.13	1307.61	1307.87	1308.10	1308.37	1308.28	1308.04	1308.02	1307.66
MIN	1307.84	1307.16	1307.10	1306.81	1306.92	1307.11	1307.39	1308.08	1308.01	1307.87	1307.67	1307.24
CAL YR 1994	MEAN 1307.94		MAX 1310.27		MIN 1306.63							
WTR YR 1995	MEAN 1307.72		MAX 1308.37		MIN 1306.81							

ALLEGHENY RIVER BASIN

79

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 mi².

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

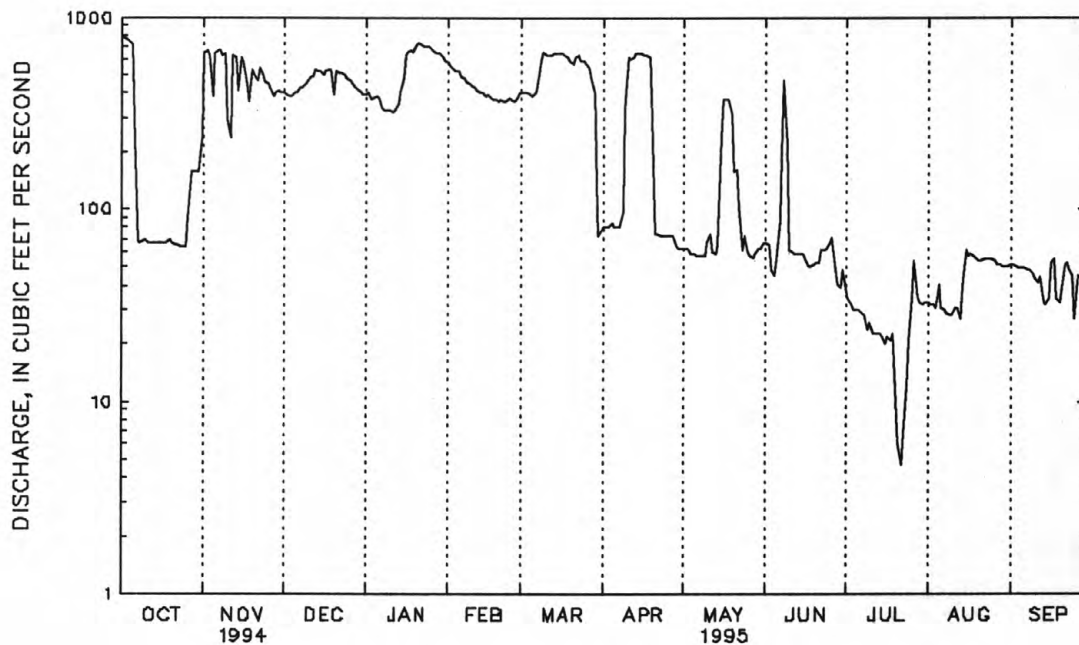
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	789	641	401	395	575	403	81	63	66	37	33	51
2	784	668	395	401	555	403	81	63	65	34	32	52
3	764	630	389	366	533	399	80	61	48	32	32	50
4	746	385	384	379	521	396	84	59	45	30	31	49
5	721	650	402	385	516	390	80	59	55	30	41	49
6	300	677	401	379	489	400	81	57	86	30	31	49
7	68	675	430	334	475	456	80	57	196	29	30	48
8	67	635	434	328	459	593	98	57	463	28	29	48
9	68	646	451	327	450	653	332	57	220	24	28	46
10	70	291	461	322	440	636	613	67	61	26	28	43
11	67	236	493	317	428	629	602	74	60	23	31	42
12	67	625	484	328	413	633	612	60	59	23	31	44
13	67	614	529	356	403	644	643	58	59	23	27	33
14	67	415	523	400	399	651	652	65	58	23	40	32
15	67	621	517	478	386	650	650	234	58	22	61	34
16	67	585	502	626	393	640	637	372	55	20	57	53
17	67	448	517	665	378	630	631	369	50	22	58	55
18	67	360	532	668	371	615	619	369	50	21	57	34
19	70	532	534	655	367	590	385	312	52	23	56	33
20	67	498	398	711	365	562	74	158	53	10	54	39
21	65	470	523	732	369	615	74	159	53	6.1	54	52
22	65	538	515	722	362	626	73	103	61	4.7	55	53
23	64	499	507	710	362	594	73	61	61	6.1	55	48
24	64	458	503	707	374	590	72	73	62	12	55	45
25	64	449	483	705	367	570	72	60	67	21	55	27
26	90	433	468	680	364	538	72	57	71	34	54	45
27	156	382	448	653	371	483	72	56	48	54	52	44
28	157	406	432	651	405	402	64	58	41	35	51	43
29	157	413	416	643	---	190	63	62	39	33	50	42
30	158	405	399	616	---	72	63	62	48	32	50	41
31	239	---	392	593	---	77	---	67	---	33	50	---
TOTAL	6329	15285	14263	16232	11890	15730	7813	3489	2410	780.9	1368	1324
MEAN	204	509	460	524	425	507	260	113	80.3	25.2	44.1	44.1
MAX	789	677	534	732	575	653	652	372	463	54	61	55
MIN	64	236	384	317	362	72	63	56	39	4.7	27	27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1995, BY WATER YEAR (WY)

	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946
MEAN	211	363	504	511	514	682	640	293	202	117	108	155
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

ALLEGHENY RIVER BASIN
03014500 CHADAKOIN RIVER AT FALCONER, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1935 - 1995	
ANNUAL TOTAL	156477		96913.9		359	
ANNUAL MEAN	429		266		527	
HIGHEST ANNUAL MEAN					1986	
LOWEST ANNUAL MEAN					228	
HIGHEST DAILY MEAN	1550	Apr 14	789	Oct 1	2020	Mar 6 1976
LOWEST DAILY MEAN	39	Aug 7	4.7	Jul 22	3.0	Nov 20 1960
ANNUAL SEVEN-DAY MINIMUM	43	Sep 16	12	Jul 18	3.7	Nov 18 1960
INSTANTANEOUS PEAK FLOW			843	Oct 1	2250	Sep 14 1979
INSTANTANEOUS PEAK STAGE			2.38	Oct 1	4.93	Sep 14 1979
INSTANTANEOUS LOW FLOW			2.5	Sep 18	2.5	Sep 18 1995
10 PERCENT EXCEEDS	983		632		828	
50 PERCENT EXCEEDS	377		98		272	
90 PERCENT EXCEEDS	56		32		36	



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

ALLEGHENY RIVER BASIN
LAKES IN ALLEGHENY RIVER BASIN

81

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

DRAINAGE AREA.--436 mi².

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

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 8	0030	*10,600	*7.71	No other peak greater than base discharge.			

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	752	3310	511	433	603	1470	486	318	196	792	147	112
2	893	4790	481	512	560	1000	453	301	190	298	134	62
3	459	1540	490	e360	e400	e680	425	289	190	192	130	85
4	333	929	456	e320	e350	e630	584	281	186	159	132	85
5	279	789	1050	e300	e330	e600	608	276	174	148	351	93
6	247	1020	1350	e290	e320	1050	501	261	160	158	275	60
7	226	1600	1440	e280	e300	4520	527	252	153	148	193	75
8	212	945	1160	e270	e290	6810	557	240	153	142	152	85
9	202	770	949	e260	e280	2230	965	230	156	143	126	79
10	215	1060	1750	e260	e280	1290	1040	262	163	133	117	80
11	205	717	1570	e300	e280	1290	901	649	240	121	157	80
12	190	556	1020	e850	e270	1840	1110	585	215	115	449	83
13	179	492	712	e4100	e270	1940	1570	420	170	108	482	76
14	179	449	627	2450	e260	1650	1660	369	153	321	252	102
15	173	409	626	1780	e260	1380	1200	457	144	171	196	90
16	169	381	591	1700	e260	1160	864	347	137	138	333	82
17	163	358	1180	1210	e260	988	695	304	130	117	176	85
18	162	335	1270	950	e280	850	599	295	126	117	145	80
19	170	325	954	817	e300	741	653	279	123	111	129	82
20	205	322	784	3170	e400	668	621	254	115	102	124	80
21	196	389	675	3970	e600	1050	550	236	110	103	114	89
22	179	487	617	1990	e550	1030	563	226	108	103	112	100
23	171	402	590	1260	e500	973	493	211	123	108	98	123
24	169	377	598	1030	e800	817	448	250	127	264	95	102
25	183	360	551	928	e700	676	402	330	201	413	89	91
26	207	379	492	853	e550	596	387	266	252	305	85	89
27	194	336	447	804	e500	547	370	233	188	194	85	95
28	181	891	442	679	e1900	497	416	219	171	190	87	79
29	172	1020	427	578	---	462	362	240	141	443	85	74
30	167	631	323	593	---	488	332	235	191	287	83	79
31	167	---	386	651	---	504	---	218	---	183	80	---
TOTAL	7599	26369	24519	33948	12653	40427	20342	9333	4886	6327	5213	2577
MEAN	245	879	791	1095	452	1304	678	301	163	204	168	85.9
MAX	893	4790	1750	4100	1900	6810	1660	649	252	792	482	123
MIN	162	322	323	260	260	462	332	211	108	102	80	60
CFSM	.56	2.02	1.81	2.51	1.04	2.99	1.56	.69	.37	.47	.39	.20
IN.	.65	2.25	2.09	2.90	1.08	3.45	1.74	.80	.42	.54	.44	.22

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

MEAN	402	707	962	814	925	1606	1458	719	486	291	241	310
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

STREAMS TRIBUTARY TO LAKE ERIE
04213500 CATTARAUGUS CREEK AT GOWANDA, NY--Continued

83

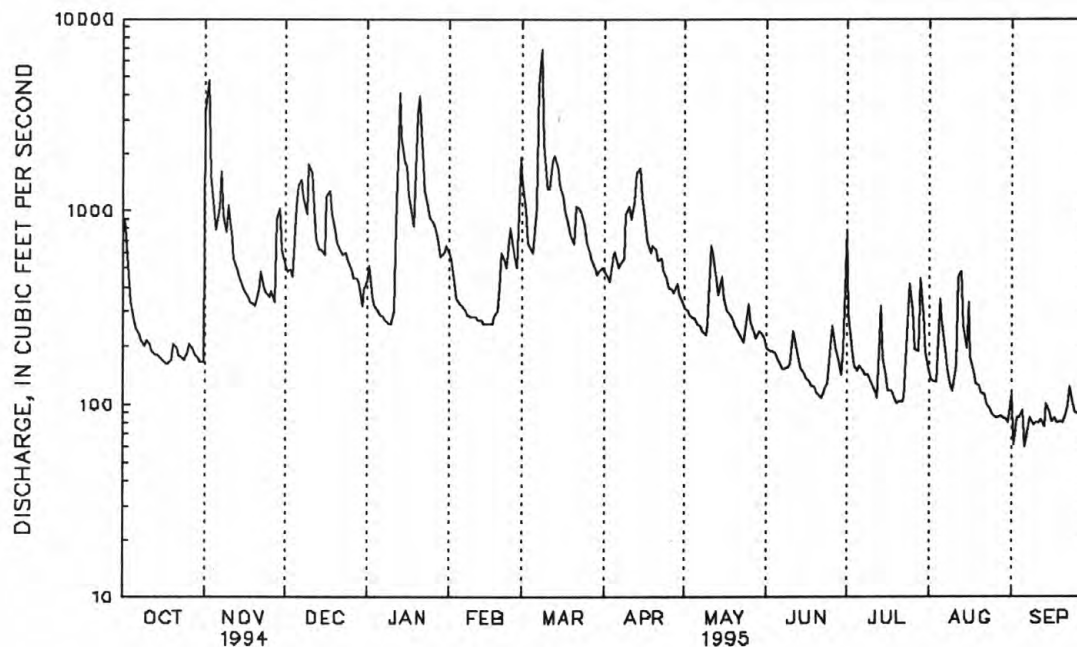
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	282337		194193		741	
ANNUAL MEAN	774		532		1030	
HIGHEST ANNUAL MEAN					1977	
LOWEST ANNUAL MEAN					1995	
HIGHEST DAILY MEAN	8620	Mar 24	6810	Mar 8	22900	Mar 17 1942
LOWEST DAILY MEAN	122	Sep 23	60	Sep 6	52	a
ANNUAL SEVEN-DAY MINIMUM	131	Sep 19	77	Sep 6	57	Sep 7 1945
INSTANTANEOUS PEAK FLOW			10600	Mar 8	34600	Mar 7 1956
INSTANTANEOUS PEAK STAGE			7.71	Mar 8	b14.03	Mar 7 1956
INSTANTANEOUS LOW FLOW			33	c	d6.0	Aug 21 1941
ANNUAL RUNOFF (CFSM)	1.77		1.22		1.70	
ANNUAL RUNOFF (INCHES)	24.09		16.57		23.08	
10 PERCENT EXCEEDS	1620		1080		1600	
50 PERCENT EXCEEDS	400		304		415	
90 PERCENT EXCEEDS	180		102		125	

a Sep. 13, 1945, Aug. 1, 1955.

b Present datum.

c Sep. 6, 7.

d About, result of regulation.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

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 mi².

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 ft³/s and maximum (*);

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 7	2130	*4,320	*5.93	No other peak greater than base discharge.			

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	69	630	135	e80	165	556	104	59	35	57	27	13
2	83	1390	117	e100	152	300	96	56	34	50	21	e12
3	56	293	148	e70	91	186	88	55	82	30	20	e11
4	37	180	137	e65	e90	176	110	52	45	22	43	e10
5	29	231	639	e65	e85	170	113	48	35	24	670	e9.5
6	26	432	607	e65	e85	583	85	48	29	20	188	e9.0
7	23	541	552	e60	e85	1930	91	44	25	35	71	e8.5
8	22	210	370	e60	e85	1950	91	41	24	24	44	e11
9	21	177	281	e60	e80	534	113	40	22	21	32	12
10	20	222	681	e65	e80	292	200	63	22	18	26	11
11	20	130	693	e65	e80	327	175	184	30	16	27	12
12	20	98	307	e75	e75	596	198	176	53	14	296	11
13	19	85	e140	e2300	e75	460	380	103	30	14	207	10
14	18	78	e130	1130	e75	327	390	94	24	23	76	12
15	18	71	161	847	e70	255	335	188	20	38	48	16
16	17	64	163	868	e70	225	178	114	18	19	34	13
17	17	57	921	463	e70	209	133	77	17	27	25	15
18	18	55	716	290	e80	180	114	67	16	19	20	14
19	20	53	394	231	e90	155	110	59	15	15	18	12
20	29	48	266	1580	e110	142	118	51	14	13	16	13
21	30	56	209	1680	e160	241	100	47	13	26	15	15
22	29	124	181	737	e140	275	98	41	12	18	13	14
23	25	83	166	376	e130	312	87	36	12	16	13	15
24	24	65	163	284	e240	206	78	42	12	26	12	18
25	51	60	143	252	e220	154	71	61	18	38	11	14
26	87	57	112	238	e160	130	68	56	77	47	e9.8	13
27	46	55	99	234	e150	115	65	42	50	36	e9.2	12
28	34	335	106	175	e450	105	81	45	33	66	e9.0	11
29	28	329	97	e140	---	98	82	52	25	289	e9.4	11
30	25	170	43	156	---	102	64	54	22	105	e10	10
31	24	---	e70	171	---	108	---	42	---	42	e12	---
TOTAL	985	6379	8947	12982	3443	11399	4016	2137	864	1208	2032.4	368.0
MEAN	31.8	213	289	419	123	368	134	68.9	28.8	39.0	65.6	12.3
MAX	87	1390	921	2300	450	1950	390	188	82	289	670	18
MIN	17	48	43	60	70	98	64	36	12	13	9.0	8.5
CFSM	.22	1.50	2.03	2.95	.87	2.59	.94	.49	.20	.27	.46	.09
IN.	.26	1.67	2.34	3.40	.90	2.99	1.05	.56	.23	.32	.53	.10

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

MEAN	90.0	200	293	245	295	503	376	173	101	50.2	47.4	69.2
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

STREAMS TRIBUTARY TO LAKE ERIE
04214500 BUFFALO CREEK AT GARDENVILLE, NY--Continued

85

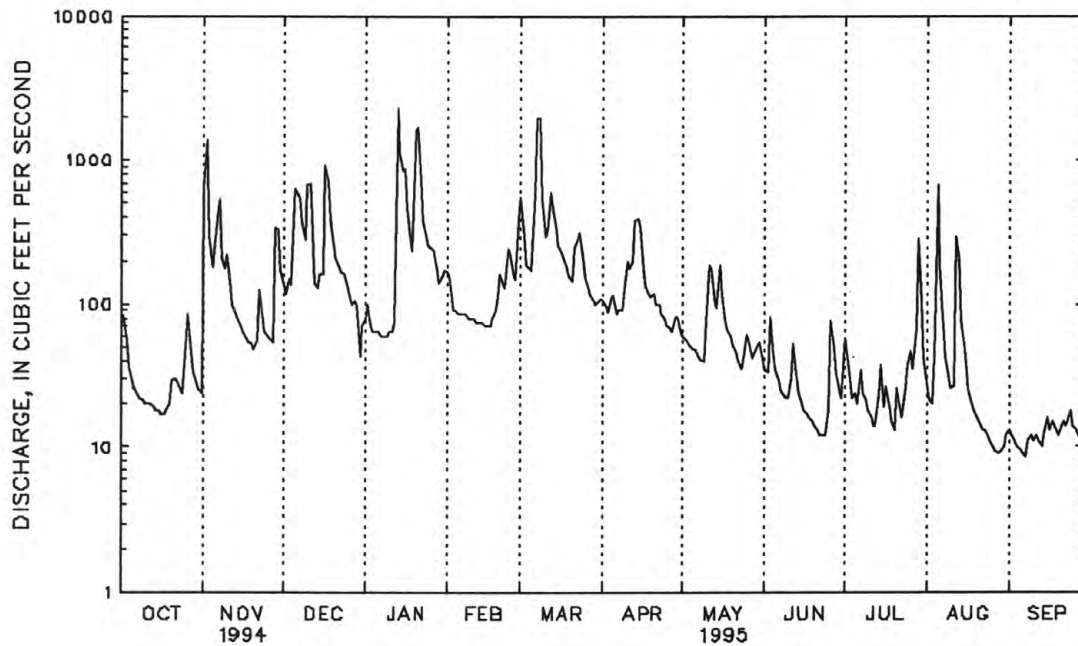
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1939 - 1995	
ANNUAL TOTAL	70428		54760.4		203	
ANNUAL MEAN	193		150		301	
HIGHEST ANNUAL MEAN					128	
LOWEST ANNUAL MEAN					1977	
HIGHEST DAILY MEAN	2600	Feb 21	2300	Jan 13	7650	Mar 7 1956
LOWEST DAILY MEAN	12	a	8.5	Sep 7	1.0	Sep 1 1964
ANNUAL SEVEN-DAY MINIMUM	14	Sep 19	10	Aug 24	2.6	Sep 13 1964
INSTANTANEOUS PEAK FLOW			4320	Mar 7	b11300	c
INSTANTANEOUS PEAK STAGE			d6.41	Feb 28	d14.34	Mar 21 1978
INSTANTANEOUS LOW FLOW			Unknown		.20	Sep 1 1964
ANNUAL RUNOFF (CFSM)	1.36		1.06		1.43	
ANNUAL RUNOFF (INCHES)	18.45		14.35		19.44	
10 PERCENT EXCEEDS	497		328		460	
50 PERCENT EXCEEDS	95		65		86	
90 PERCENT EXCEEDS	19		13		15	

a Sep. 24, 25.

b From rating curve extended above 3,200 ft³/s on basis of slope-area measurement at gage-height 7.07 ft.

c Mar. 1, 1955, Mar. 7, 1956.

d Ice jam.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ERIE

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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 20	1445	3,850	7.40	Mar. 7	1945	*4,100	*7.55

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	20	355	77	64	102	e420	e55	e32	14	17	9.8	7.2
2	29	818	62	83	92	e240	e55	e30	16	14	6.7	7.2
3	19	148	59	56	56	e145	e50	27	80	9.6	5.6	6.3
4	12	93	55	e54	e54	e130	e55	26	37	7.1	10	5.0
5	9.4	144	354	e54	45	e120	e70	23	23	7.4	868	2.4
6	8.1	291	343	e54	52	e550	e45	22	14	6.4	184	1.8
7	7.5	329	329	e50	e52	e1900	e45	20	13	11	71	1.7
8	6.6	130	215	e50	e52	1500	e50	15	6.2	8.2	32	1.8
9	5.7	117	175	e50	e50	370	e60	18	7.3	8.7	19	2.5
10	5.5	132	438	52	e50	229	e110	34	7.1	6.7	13	2.7
11	5.5	76	434	51	e50	282	e100	132	8.8	5.7	12	2.3
12	5.2	57	176	e220	e48	396	e150	114	10	5.0	17	2.2
13	5.2	47	101	1480	e48	285	e220	65	7.4	4.2	21	2.0
14	5.0	43	e90	418	e48	204	e240	55	6.1	4.7	12	2.0
15	4.8	39	94	327	e46	163	e200	162	5.2	4.5	9.1	2.7
16	4.5	33	98	549	e46	143	e80	72	4.5	4.1	6.8	2.5
17	4.6	30	822	279	e48	e130	e65	44	4.2	5.9	5.3	2.7
18	4.9	28	462	180	e55	e120	e60	38	3.8	5.4	4.5	3.7
19	5.4	27	252	146	e60	e110	e55	33	3.3	5.2	4.0	3.1
20	11	24	171	1550	e85	e100	e55	28	2.9	4.5	3.9	2.9
21	10	26	138	1120	e120	e95	e50	24	2.4	8.5	3.2	4.0
22	9.0	70	118	461	e110	e130	e50	21	2.3	7.1	2.9	4.2
23	7.5	44	106	237	e100	e160	e45	18	2.4	5.6	2.6	4.0
24	6.9	32	104	187	e220	e110	e40	19	2.5	12	2.5	4.0
25	9.9	33	88	169	e180	e90	e40	27	8.1	15	2.2	3.3
26	37	29	68	157	e125	e75	e36	23	30	15	2.0	2.9
27	23	21	62	143	e115	e70	e34	17	17	13	1.9	2.4
28	15	174	63	e100	e520	e65	e40	19	14	12	2.1	2.3
29	11	179	54	e90	---	e60	e50	26	10	125	2.3	2.1
30	9.7	105	26	89	---	e55	e35	25	8.8	36	1.9	1.9
31	9.7	---	41	e100	---	e55	---	21	---	15	3.2	---
TOTAL	327.6	3674	5675	8620	2629	8502	2240	1230	371.3	409.5	1341.5	95.8
MEAN	10.6	122	183	278	93.9	274	74.7	39.7	12.4	13.2	43.3	3.19
MAX	37	818	822	1550	520	1900	240	162	80	125	868	7.2
MIN	4.5	21	26	50	45	55	34	15	2.3	4.1	1.9	1.7
CFSM	.11	1.27	1.90	2.88	.97	2.85	.77	.41	.13	.14	.45	.03
IN.	.13	1.42	2.19	3.33	1.01	3.28	.86	.47	.14	.16	.52	.04

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

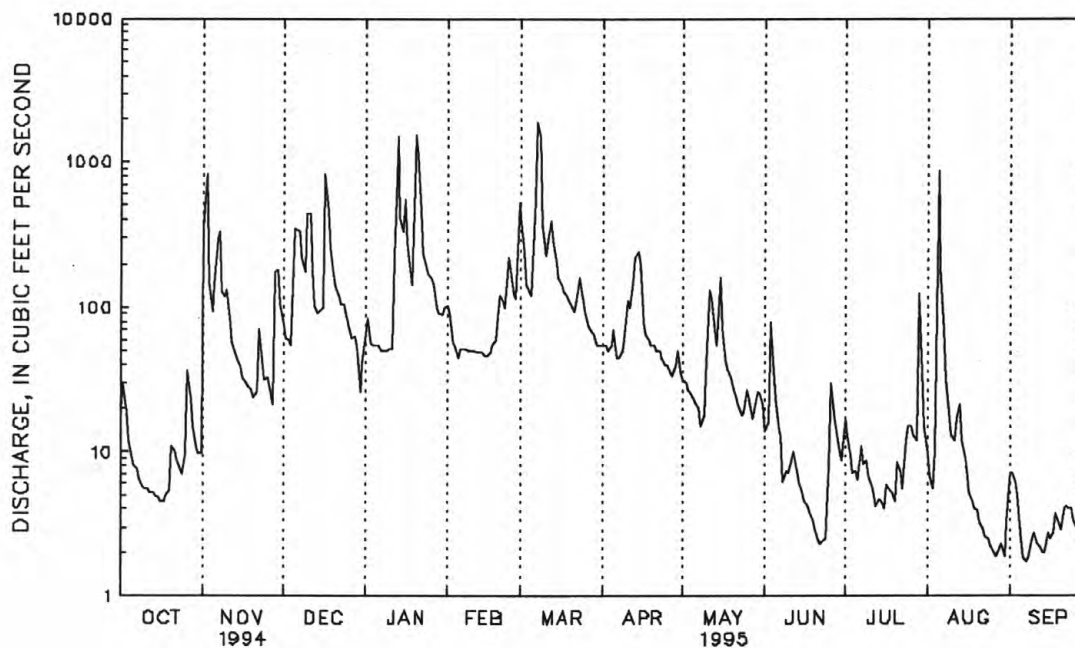
MEAN	58.2	126	189	164	206	348	249	104	52.4	22.5	30.5	47.0
MAX	252	601	505	386	457	680	623	330	338	163	323	572
(WY)	1987	1986	1978	1979	1976	1942	1940	1947	1989	1992	1977	1977
MIN	2.90	4.34	5.60	9.85	25.1	146	36.5	18.7	5.88	1.06	1.87	.80
(WY)	1967	1961	1961	1961	1963	1981	1946	1941	1955	1955	1939	1960

STREAMS TRIBUTARY TO LAKE ERIE
04215000 CAYUGA CREEK NEAR LANCASTER, NY--Continued

87

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1939 - 1995	
ANNUAL TOTAL	42870.4		35115.7		133	
ANNUAL MEAN	117		96.2		206	
HIGHEST ANNUAL MEAN					78.5	
LOWEST ANNUAL MEAN					1956	
HIGHEST DAILY MEAN	1900	Feb 21	1900	Mar 7	5830	Feb 24 1985
LOWEST DAILY MEAN	1.5	Sep 23	1.7	Sep 7	.10	Aug 9 1939
ANNUAL SEVEN-DAY MINIMUM	2.5	Sep 19	2.1	Aug 24	.19	Jul 11 1955
INSTANTANEOUS PEAK FLOW			4100	Mar 7	9440	Sep 14 1979
INSTANTANEOUS PEAK STAGE			7.55	Mar 7	a12.58	Mar 30 1960
INSTANTANEOUS LOW FLOW			1.6	b	c.00	d
ANNUAL RUNOFF (CFSM)	1.22		1.00		1.38	
ANNUAL RUNOFF (INCHES)	16.54		13.55		18.69	
10 PERCENT EXCEEDS	284		220		305	
50 PERCENT EXCEEDS	50		36		45	
90 PERCENT EXCEEDS	5.5		3.3		3.8	

- a Ice jam.
b Aug. 31, Sep. 6, 7.
c Practically no flow when stop logs were installed in the dam.
d Aug. 8, 9, 1939.



DAILY MEAN DISCHARGE FOR -- 1995 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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 7	2000	*4,780	8.35	No other peak greater than base discharge.			

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	94	1210	143	e92	e188	e690	119	74	42	38	26	10
2	177	1450	126	e114	e176	e370	109	69	43	33	21	9.2
3	74	299	150	e86	e116	e230	98	66	98	24	24	7.5
4	48	200	167	e73	e102	e200	123	62	55	20	68	6.8
5	38	302	845	e74	e97	e240	117	57	44	28	408	6.9
6	33	800	697	e74	e97	e675	91	55	36	19	142	8.1
7	30	854	656	e68	e96	e2600	102	52	33	32	56	8.4
8	26	262	392	e67	e95	e1950	98	50	30	26	34	12
9	26	257	350	e68	e91	603	159	49	28	21	25	13
10	24	282	915	e74	e90	339	245	76	27	18	21	13
11	23	148	766	e74	e89	384	188	266	47	16	25	12
12	23	111	322	e86	e86	614	263	224	51	14	409	11
13	22	95	189	e2900	e84	622	504	130	35	13	198	13
14	20	86	165	1440	e85	490	574	121	28	32	54	24
15	19	80	153	1210	e80	371	368	311	25	37	35	20
16	19	71	151	1110	e80	297	198	127	24	21	23	15
17	18	64	1110	520	e79	241	148	88	22	32	17	20
18	18	61	676	314	e92	191	126	79	20	24	14	14
19	23	58	367	245	e112	161	139	71	19	15	12	14
20	36	55	246	1790	e130	148	133	62	18	13	11	15
21	43	68	192	1610	e179	413	113	58	17	32	9.1	16
22	34	153	168	715	e160	350	109	50	16	16	8.0	15
23	28	85	157	401	e152	323	96	45	16	15	7.3	16
24	26	71	161	301	e270	235	88	54	16	25	6.7	17
25	85	64	137	264	e252	177	82	80	18	37	6.2	14
26	112	61	112	243	e182	143	77	61	31	49	5.9	12
27	60	63	e114	239	e175	126	77	50	41	35	6.0	12
28	44	473	e120	183	e600	113	105	51	27	69	5.9	11
29	36	333	e107	e165	---	103	89	62	21	412	5.9	10
30	32	179	e50	e180	---	114	76	58	25	91	5.8	10
31	31	---	e80	e196	---	123	---	48	---	39	7.8	---
TOTAL	1322	8295	9984	14976	4035	13636	4814	2706	953	1296	1697.6	385.9
MEAN	42.6	276	322	483	144	440	160	87.3	31.8	41.8	54.8	12.9
MAX	177	1450	1110	2900	600	2600	574	311	98	412	409	24
MIN	18	55	50	67	79	103	76	45	16	13	5.8	6.8
CFSM	.32	2.05	2.39	3.58	1.07	3.26	1.19	.65	.24	.31	.41	.10
IN.	.36	2.29	2.75	4.13	1.11	3.76	1.33	.75	.26	.36	.47	.11

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

MEAN	110	245	352	290	326	560	418	199	106	51.5	48.9	78.7
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

STREAMS TRIBUTARY TO LAKE ERIE
04215500 CAZENOVIA CREEK AT EBENEZER, NY--Continued

89

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	80828		64100.5		232	
ANNUAL MEAN	221		176		332	
HIGHEST ANNUAL MEAN					1977	
LOWEST ANNUAL MEAN					163	
HIGHEST DAILY MEAN	2550	Mar 24	2900	Jan 13	7560	Mar 7 1956
LOWEST DAILY MEAN	13	a	5.8	Aug 30	3.1	Jul 20 1955
ANNUAL SEVEN-DAY MINIMUM	15	Sep 19	6.1	Aug 24	3.5	Jul 17 1955
INSTANTANEOUS PEAK FLOW			4780	Mar 7	b13500	Mar 1 1955
INSTANTANEOUS PEAK STAGE			c10.78	Feb 28	d15.82	Mar 1 1955
INSTANTANEOUS LOW FLOW			5.2	f	2.6	Nov 7 1953
ANNUAL RUNOFF (CFSM)	1.64		1.30		1.72	
ANNUAL RUNOFF (INCHES)	22.27		17.66		23.32	
10 PERCENT EXCEEDS	588		396		545	
50 PERCENT EXCEEDS	105		76		96	
90 PERCENT EXCEEDS	22		14		15	

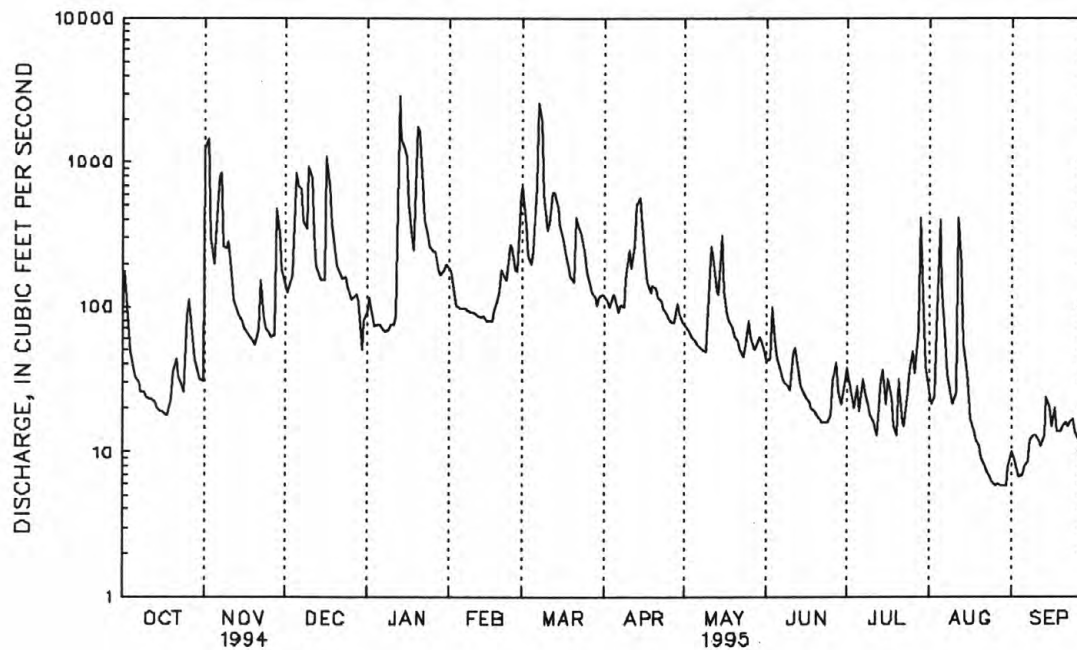
a Sep. 23-25.

b From rating curve extended above 7,700 ft³/s.

c Ice jam.

d Present datum.

f Aug. 27, 29-31.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

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

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

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.

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, 576.03 ft, Nov. 28; minimum elevation, 569.93 ft, Feb. 26.

ELEVATION (FEET IGLD), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	572.09	571.77	571.78	571.98	572.29	571.73	571.69	571.99	572.21	572.56	572.28	571.99
2	571.92	572.04	571.92	573.06	571.69	571.55	571.77	571.97	572.25	572.31	572.05	571.83
3	571.76	571.72	571.39	572.70	571.61	571.54	571.84	572.19	572.41	572.23	572.17	572.01
4	572.01	571.73	571.25	572.57	572.30	571.52	572.29	572.10	572.28	572.24	572.29	571.88
5	571.98	571.79	571.40	572.93	572.64	571.39	572.05	572.28	572.28	572.28	572.36	571.88
6	572.06	572.81	571.39	571.79	572.64	571.57	571.68	572.26	572.28	572.40	572.03	571.79
7	571.94	571.83	570.84	571.45	572.40	571.60	571.63	572.10	572.39	572.67	571.92	571.85
8	571.98	572.00	571.21	572.57	571.98	571.93	571.57	571.78	572.17	572.47	572.04	571.19
9	572.71	571.37	571.62	571.60	572.93	571.82	571.67	571.86	572.10	572.33	572.17	571.63
10	571.95	571.62	571.13	571.11	572.00	571.66	570.81	572.05	572.22	572.26	572.17	571.43
11	571.63	571.47	572.04	571.07	572.83	571.71	571.50	572.50	572.48	572.36	572.29	571.54
12	571.61	571.84	571.20	571.41	572.60	571.72	572.06	572.26	572.33	572.14	572.36	571.75
13	571.76	571.65	571.35	571.32	572.26	571.68	572.45	572.08	572.40	572.24	572.15	572.05
14	571.39	571.90	571.19	571.29	571.57	571.71	572.22	572.44	572.32	572.38	572.42	571.93
15	571.33	571.68	571.23	571.46	571.64	571.74	572.25	572.30	572.28	572.26	572.36	571.25
16	571.44	571.22	571.37	571.77	571.57	571.76	572.08	572.13	572.27	572.33	572.06	571.70
17	571.66	571.52	572.10	571.52	571.58	571.83	571.82	572.24	572.28	572.45	572.01	571.64
18	571.77	571.92	571.57	571.59	571.50	571.70	571.73	572.17	572.34	572.70	572.05	571.36
19	571.93	572.00	571.71	571.39	571.51	571.59	572.48	572.32	572.40	572.45	572.03	571.31
20	572.04	571.33	571.69	571.67	571.54	571.80	571.82	572.26	572.17	572.56	572.21	571.52
21	571.81	572.59	571.52	572.97	571.69	572.17	572.37	572.39	571.88	572.25	572.42	571.45
22	571.68	573.09	571.51	573.27	571.49	572.07	572.36	572.23	572.16	572.21	572.11	572.43
23	572.18	572.72	571.28	572.35	571.60	571.82	572.13	572.12	572.16	572.59	572.35	571.57
24	572.34	572.42	571.40	572.17	571.80	571.83	571.98	572.22	572.19	572.25	572.11	571.32
25	572.21	572.14	571.55	572.43	571.42	571.87	572.24	572.11	572.20	572.28	571.59	571.51
26	571.90	571.26	571.55	572.47	570.38	571.75	572.01	572.23	572.08	572.33	571.99	571.66
27	571.91	570.82	571.76	571.99	571.31	571.23	572.35	571.88	572.09	572.19	571.63	571.69
28	572.00	573.87	572.08	571.10	571.48	571.58	572.55	572.19	572.22	572.38	571.88	571.08
29	572.11	573.02	571.33	571.42	---	571.76	572.24	572.78	572.26	572.42	571.97	571.36
30	571.74	571.79	570.93	571.91	---	571.99	572.07	572.45	572.34	572.25	571.68	571.36
31	571.24	---	571.54	573.23	---	571.99	---	572.33	---	572.20	572.27	---
MEAN	571.87	571.96	571.48	571.99	571.87	571.73	571.99	572.20	572.25	572.35	572.11	571.63
MAX	572.71	573.87	572.10	573.27	572.93	572.17	572.55	572.78	572.48	572.70	572.42	572.43
MIN	571.24	570.82	570.84	571.07	570.38	571.23	570.81	571.78	571.88	572.14	571.59	571.08
CAL YR 1994	MEAN	572.11	MAX	573.87	MIN	570.03						
WTR YR 1995	MEAN	571.95	MAX	573.87	MIN	570.38						

ST. LAWRENCE RIVER MAIN STEM

91

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 mi².

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.--134 years, 206,000 ft³/s.

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	214000	203000	208000	214000	228000	209000	207000	217000	218000	217000	213000	206000
2	211000	217000	218000	239000	209000	207000	209000	216000	219000	211000	209000	204000
3	206000	205000	204000	237000	210000	205000	209000	219000	222000	210000	208000	208000
4	212000	207000	199000	226000	221000	207000	206000	221000	219000	210000	213000	204000
5	213000	212000	201000	237000	226000	201000	210000	224000	218000	212000	216000	206000
6	215000	229000	203000	215000	201000	208000	203000	225000	215000	215000	209000	201000
7	210000	212000	193000	203000	189000	209000	203000	219000	216000	220000	205000	206000
8	213000	213000	201000	228000	185000	223000	200000	214000	211000	215000	208000	186000
9	226000	200000	207000	209000	201000	218000	204000	212000	206000	213000	210000	200000
10	214000	203000	204000	198000	197000	213000	189000	219000	209000	213000	210000	195000
11	205000	202000	218000	193000	224000	212000	200000	228000	216000	214000	213000	197000
12	201000	212000	201000	203000	208000	213000	215000	225000	207000	210000	216000	200000
13	206000	207000	201000	205000	213000	210000	224000	218000	212000	214000	211000	209000
14	198000	210000	200000	206000	205000	211000	220000	226000	209000	216000	216000	206000
15	191000	208000	199000	210000	206000	211000	225000	224000	207000	214000	215000	191000
16	197000	197000	203000	221000	210000	212000	219000	222000	207000	215000	209000	200000
17	204000	203000	220000	216000	209000	211000	213000	222000	206000	218000	207000	201000
18	204000	210000	213000	213000	206000	210000	209000	220000	207000	220000	207000	192000
19	207000	216000	212000	206000	208000	209000	225000	224000	209000	218000	207000	193000
20	211000	203000	212000	218000	207000	205000	215000	222000	205000	218000	211000	193000
21	206000	221000	209000	246000	210000	210000	220000	227000	198000	214000	215000	195000
22	201000	240000	207000	259000	207000	202000	227000	219000	202000	213000	208000	212000
23	211000	234000	203000	235000	207000	203000	220000	220000	203000	222000	212000	201000
24	218000	221000	204000	225000	212000	205000	214000	220000	207000	214000	211000	193000
25	216000	222000	209000	230000	209000	207000	220000	219000	207000	215000	198000	196000
26	208000	204000	208000	229000	180000	209000	218000	220000	206000	216000	206000	199000
27	208000	190000	208000	220000	200000	199000	218000	214000	206000	213000	201000	202000
28	210000	252000	217000	201000	207000	199000	231000	216000	207000	213000	203000	189000
29	214000	245000	204000	204000	---	203000	221000	232000	212000	220000	207000	192000
30	207000	212000	192000	213000	---	207000	217000	223000	211000	212000	199000	193000
31	195000	---	206000	244000	---	206000	---	222000	---	210000	214000	---
TOTAL	6452000	6410000	6384000	6803000	5795000	6454000	6411000	6849000	6297000	6655000	6487000	5970000
MEAN	208100	213700	205900	219500	207000	208200	213700	220900	209900	214700	209300	199000
MAX	226000	252000	220000	259000	228000	223000	231000	232000	222000	222000	216000	212000
MIN	191000	190000	192000	193000	180000	199000	189000	212000	198000	210000	198000	186000

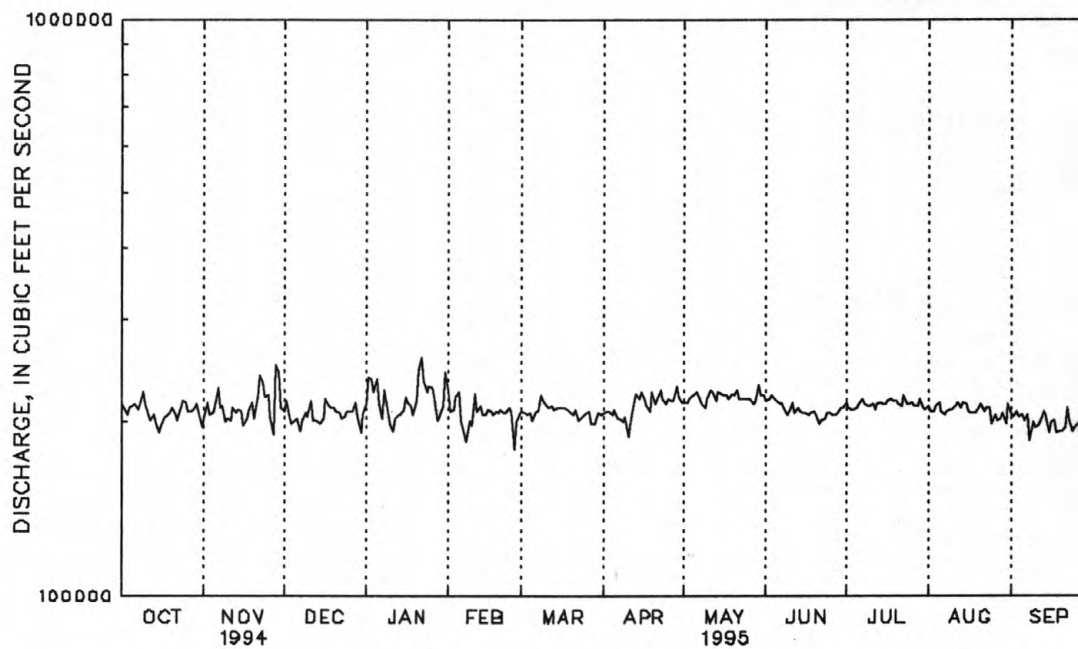
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1995, BY WATER YEAR (WY)

	MEAN	200200	200500	200900	194900	192200	198300	207600	216200	216000	211900	208300	204000
MAX	254000	248000	260900	254000	241600	255500	264200	264700	268400	265200	253500	243700	
(WY)	1987	1987	1986	1987	1987	1986	1985	1985	1986	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	1934

ST. LAWRENCE RIVER MAIN STEM
04216000 NIAGARA RIVER AT BUFFALO, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1926 - 1995	
ANNUAL TOTAL	78520000		76967000		204800	
ANNUAL MEAN	215100		210900		249600	
HIGHEST ANNUAL MEAN					155300	
LOWEST ANNUAL MEAN					a347000	
HIGHEST DAILY MEAN	252000	Nov 28	259000	Jan 22	204800	1986
LOWEST DAILY MEAN	158000	Jan 7	180000	Feb 26	249600	1934
ANNUAL SEVEN-DAY MINIMUM	185000	Jan 4	195000	Sep 24	155300	1934
10 PERCENT EXCEEDS	230000		223000		204800	Dec 2 1985
50 PERCENT EXCEEDS	215000		210000		249600	Jan 13 1964
90 PERCENT EXCEEDS	202000		200000		155300	Feb 6 1936

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



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

ST. LAWRENCE RIVER MAIN STEM

93

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 mi².

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, 564.81 ft, Oct. 28, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum recorded elevation, 567.68 ft, Apr. 4, but may have been higher during periods of no gage-height record; minimum recorded, 565.20 ft, Mar. 27, but may have been lower during periods of questionable or no gage-height record.

ELEVATION (FEET IGLD), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	566.33	566.51	566.58	566.72	566.63	566.53
2	---	---	---	---	---	---	566.34	566.47	566.55	566.52	566.48	566.45
3	---	---	---	---	---	---	566.24	566.73	566.71	566.55	566.51	566.58
4	---	---	---	---	---	---	566.93	566.49	566.60	566.42	566.67	566.53
5	---	---	---	---	---	---	566.87	566.61	566.58	566.42	566.75	566.51
6	---	---	---	---	---	---	566.42	566.63	566.55	566.58	566.56	566.41
7	---	---	---	---	---	---	566.37	566.53	566.66	566.79	566.45	566.58
8	---	---	---	---	---	---	566.29	566.32	566.57	566.75	566.57	565.92
9	---	---	---	---	---	---	566.40	566.28	566.47	566.66	566.59	566.28
10	---	---	---	---	---	566.33	565.81	566.49	566.55	566.63	566.60	566.16
11	---	---	---	---	---	566.28	566.23	566.75	566.78	566.61	566.69	566.22
12	---	---	---	---	---	566.30	566.56	566.61	566.66	566.58	566.80	566.31
13	---	---	---	---	---	566.34	566.91	566.57	566.70	566.59	566.61	566.56
14	---	---	---	---	---	566.29	566.81	566.72	566.60	566.70	566.81	566.54
15	---	---	---	---	---	566.28	566.84	566.73	566.56	566.61	566.75	566.03
16	---	---	---	---	---	566.27	566.59	566.58	566.53	566.65	566.55	566.20
17	---	---	---	---	---	566.30	566.39	566.55	566.48	566.76	566.54	566.35
18	---	---	---	---	---	566.13	566.27	566.51	566.52	566.95	566.53	566.09
19	---	---	---	---	---	565.87	566.84	566.66	566.55	566.77	566.48	566.09
20	---	---	---	---	---	566.14	566.45	566.59	566.40	566.82	566.63	566.17
21	---	---	---	---	---	566.40	566.68	566.70	566.15	566.75	566.82	566.19
22	---	---	---	---	---	566.44	566.84	566.64	566.34	566.69	566.62	566.78
23	---	---	---	---	---	566.00	566.67	566.52	566.38	566.95	566.71	566.34
24	---	---	---	---	---	566.11	566.50	566.60	566.39	566.69	566.71	566.15
25	---	---	---	---	---	566.12	566.65	566.46	566.36	566.71	566.24	566.19
26	---	---	---	---	---	565.98	566.54	566.54	566.28	566.72	566.52	566.28
27	---	---	---	---	---	565.60	566.72	566.33	566.31	566.65	566.29	566.33
28	---	---	---	---	---	565.97	566.94	566.55	566.33	566.69	566.40	565.93
29	---	---	---	---	---	566.01	566.68	566.94	566.45	566.84	566.52	566.04
30	---	---	---	---	---	566.29	566.54	566.78	566.51	566.67	566.34	566.06
31	---	---	---	---	---	566.62	---	566.69	---	566.63	566.73	---
MEAN	---	---	---	---	---	---	566.55	566.58	566.50	566.68	566.58	566.29
MAX	---	---	---	---	---	---	566.94	566.94	566.78	566.95	566.82	566.78
MIN	---	---	---	---	---	---	565.81	566.28	566.15	566.42	566.24	565.92

ST. LAWRENCE RIVER MAIN STEM

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 mi².

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, 568.34 ft, Oct. 19, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum recorded elevation, 576.39 ft, Nov. 28; minimum recorded, 569.21 ft, Dec. 7..

ELEVATION (FEET IGLD), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	572.14	571.78	571.81	571.93	572.38	571.78	571.76	572.09	572.27	572.62	572.31	572.01
2	571.98	572.12	572.00	572.99	571.73	571.59	571.86	572.07	572.27	572.34	572.11	571.86
3	571.78	571.79	571.42	572.70	571.67	571.59	571.91	572.31	572.48	572.28	572.16	572.06
4	572.03	571.80	571.29	572.53	572.32	571.57	572.31	572.23	572.31	572.25	572.33	571.90
5	572.01	571.86	571.41	572.91	572.65	571.44	572.15	572.41	572.34	572.28	572.39	571.94
6	572.12	572.81	571.42	571.80	572.69	571.62	571.73	572.39	572.33	572.48	572.07	571.81
7	571.97	571.90	570.83	571.40	572.44	571.62	571.72	572.23	572.45	572.67	571.93	571.94
8	572.04	572.03	571.23	572.53	572.00	571.99	571.64	571.92	572.24	572.50	572.09	571.12
9	572.72	571.42	571.62	571.58	572.97	571.86	571.73	571.93	572.14	572.36	572.20	571.66
10	572.01	571.64	571.12	571.09	572.03	571.70	570.91	572.18	572.26	572.33	572.20	571.45
11	571.70	571.51	572.06	571.04	572.84	571.76	571.53	572.58	572.56	572.37	572.29	571.56
12	571.63	571.87	571.21	571.41	572.65	571.78	572.09	572.37	572.36	572.18	572.41	571.73
13	571.81	571.68	571.36	571.38	572.32	571.73	572.54	572.19	572.45	572.32	572.17	572.08
14	571.46	571.95	571.19	571.36	571.64	571.77	572.27	572.53	572.37	572.43	572.44	572.00
15	571.35	571.72	571.23	571.51	571.69	571.81	572.34	572.41	572.33	572.30	572.38	571.25
16	571.46	571.26	571.38	571.81	571.63	571.82	572.16	572.27	572.33	572.34	572.09	571.70
17	571.71	571.54	572.10	571.59	571.64	571.88	571.92	572.34	572.33	572.53	572.07	571.72
18	571.79	571.95	571.57	571.63	571.55	571.77	571.78	572.23	572.39	572.71	572.07	571.36
19	571.97	572.05	571.70	571.45	571.57	571.65	572.59	572.41	572.46	572.47	572.06	571.37
20	572.10	571.36	571.70	571.72	571.60	571.85	571.94	572.34	572.24	572.56	572.26	571.49
21	571.83	572.59	571.53	573.00	571.74	572.23	572.37	572.51	571.91	572.33	572.47	571.48
22	571.71	573.06	571.52	573.36	571.55	572.13	572.49	572.29	572.18	572.26	572.12	572.39
23	572.19	572.75	571.28	572.44	571.63	571.87	572.25	572.18	572.17	572.61	572.37	571.63
24	572.37	572.43	571.37	572.23	571.85	571.87	572.05	572.29	572.21	572.28	572.21	571.38
25	572.25	572.20	571.55	572.48	571.47	571.94	572.32	572.18	572.20	572.32	571.60	571.52
26	571.95	571.31	571.55	572.51	570.43	571.84	572.13	572.29	572.08	572.35	572.03	571.67
27	571.93	570.81	571.77	572.06	571.34	571.31	572.41	571.96	572.11	572.23	571.69	571.75
28	572.06	573.81	572.08	571.17	571.51	571.66	572.68	572.23	572.18	572.36	571.89	571.14
29	572.15	573.05	571.33	571.46	---	571.83	572.37	572.84	572.30	572.48	572.02	571.36
30	571.79	571.80	570.89	571.96	---	572.07	572.16	572.53	572.35	572.28	571.71	571.39
31	571.27	---	571.54	573.25	---	572.06	---	572.41	---	572.23	572.34	---
MEAN	571.91	571.99	571.49	572.01	571.91	571.79	572.07	572.29	572.29	572.39	572.14	571.66
MAX	572.72	573.81	572.10	573.36	572.97	572.23	572.68	572.84	572.56	572.71	572.47	572.39
MIN	571.27	570.81	570.83	571.04	570.43	571.31	570.91	571.92	571.91	572.18	571.60	571.12
CAL YR 1994	MEAN 572.12		MAX 573.81		MIN 570.12							
WTR YR 1995	MEAN 572.00		MAX 573.81		MIN 570.43							

ST. LAWRENCE RIVER MAIN STEM

95

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 mi².

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, 563.34 ft, Dec. 3, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum recorded elevation, 568.17 ft, Nov. 28 but may have been higher during periods of missing gage-height record; minimum recorded, 564.26 ft, Dec. 7, but may have been lower during periods of missing gage-height record.

ELEVATION (FEET IGLD), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	565.74	565.43	565.49	---	---	565.45	565.56	565.60	565.74	565.81	565.85	565.83
2	565.68	565.74	565.63	---	---	565.37	565.54	565.55	565.70	565.65	565.68	565.78
3	565.52	565.38	565.14	---	---	565.41	565.41	565.86	565.84	565.69	565.72	565.89
4	565.71	565.45	565.10	---	---	565.35	566.12	565.63	565.74	565.56	565.88	565.88
5	565.71	565.45	565.25	---	---	565.24	566.12	565.73	565.72	565.53	565.96	565.84
6	565.76	566.07	565.31	---	---	565.43	565.66	565.76	565.69	565.69	565.79	565.70
7	565.67	565.62	564.86	---	---	565.35	565.59	565.67	565.78	565.89	565.70	565.85
8	565.70	565.63	565.14	---	---	565.79	565.51	565.48	565.70	565.88	565.81	565.23
9	566.15	565.29	565.35	---	566.39	565.63	565.60	565.44	565.61	565.83	565.82	565.57
10	565.73	565.47	564.98	---	565.73	565.50	565.06	565.65	565.69	565.80	565.83	565.47
11	565.49	565.31	565.74	---	566.72	565.47	565.43	565.89	565.90	565.76	565.91	565.52
12	565.42	565.50	565.12	565.27	566.35	565.49	565.72	565.75	565.77	565.76	566.01	565.61
13	565.53	565.31	565.20	565.29	566.41	565.56	566.01	565.74	565.81	565.75	565.87	565.84
14	565.28	565.56	565.05	565.21	565.76	565.50	565.95	565.87	565.70	565.86	566.03	565.80
15	565.36	565.47	565.12	565.33	565.60	565.50	565.97	565.90	565.66	565.78	565.99	565.35
16	565.49	565.16	565.20	565.69	565.45	565.47	565.72	565.75	565.62	565.83	565.79	565.48
17	565.40	565.30	565.75	565.48	565.47	565.53	565.52	565.70	565.56	565.90	565.80	565.64
18	565.42	565.52	565.50	565.43	565.36	565.36	565.39	565.67	565.60	566.09	565.78	565.39
19	565.56	565.73	565.60	565.27	565.30	565.08	565.92	565.81	565.61	565.92	565.75	565.41
20	565.66	565.23	---	565.56	565.34	565.35	565.57	565.74	565.47	565.96	565.90	565.48
21	565.43	565.71	---	566.30	565.51	565.65	565.77	565.85	565.26	565.92	566.07	565.51
22	565.24	566.36	---	566.51	565.57	565.74	565.93	565.82	565.43	565.90	565.89	566.02
23	565.64	566.36	---	565.94	565.29	565.24	565.75	565.70	565.50	566.11	565.96	565.68
24	565.78	565.83	---	565.82	565.63	565.34	565.58	565.75	565.52	565.86	565.98	565.50
25	565.73	565.83	---	565.93	565.36	565.36	565.74	565.60	565.49	565.89	565.55	565.51
26	565.51	565.17	---	565.92	564.77	565.22	565.63	565.68	565.39	565.91	565.81	565.60
27	565.46	564.72	---	565.68	565.28	564.84	565.77	565.49	565.42	565.85	565.59	565.65
28	565.57	566.61	---	---	565.18	565.18	566.02	565.73	565.45	565.89	565.68	565.28
29	565.59	566.54	---	---	---	565.21	565.77	566.08	565.56	566.06	565.81	565.37
30	565.43	565.59	---	---	---	565.49	565.61	565.93	565.62	565.91	565.66	565.42
31	565.13	---	---	---	---	565.86	---	565.86	---	565.86	566.02	---
MEAN	565.56	565.61	---	---	---	565.42	565.70	565.73	565.62	565.84	565.83	565.60
MAX	566.15	566.61	---	---	---	565.86	566.12	566.08	565.90	566.11	566.07	566.02
MIN	565.13	564.72	---	---	---	564.84	565.06	565.44	565.26	565.53	565.55	565.23

NIAGARA RIVER BASIN

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 mi².

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 ft³/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 ft³/s and maximum(*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 20	1345	*2,650	*7.36	No other peak greater than base discharge.			

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	34	463	58	57	90	200	66	38	18	28	12	5.2
2	45	625	54	e62	80	122	65	37	20	23	9.9	5.9
3	28	129	64	e44	e65	e95	57	35	24	16	11	5.8
4	23	88	64	e42	e65	88	68	32	23	13	21	4.7
5	20	83	235	e40	e60	e90	58	31	20	14	92	3.8
6	18	145	204	e40	e55	278	52	30	18	16	46	3.7
7	16	189	203	e38	e55	924	57	29	16	13	29	3.7
8	15	92	139	e38	e55	785	57	29	16	11	19	3.8
9	14	87	e120	e38	e55	280	84	28	16	11	14	5.1
10	14	88	e230	e40	e50	179	95	35	15	13	11	5.4
11	14	62	e210	e45	e50	224	93	113	32	11	12	4.4
12	14	51	e100	e180	e48	288	115	71	25	9.0	24	4.7
13	14	46	90	935	e48	251	178	51	19	7.8	33	5.3
14	14	43	81	414	e48	205	175	44	16	9.7	18	11
15	14	39	78	287	e46	170	135	60	14	9.2	14	8.0
16	14	36	75	243	e55	150	91	45	13	7.6	11	5.1
17	14	34	290	167	e70	140	74	38	12	8.4	9.2	4.9
18	14	33	222	131	e65	123	66	36	12	6.8	8.0	7.5
19	15	32	145	116	e75	105	70	33	11	6.8	6.2	6.4
20	21	30	110	1150	e100	94	65	30	11	6.0	5.4	5.8
21	22	40	94	752	e150	125	58	27	10	7.7	6.1	7.4
22	19	53	89	327	e110	134	55	24	9.5	8.7	5.6	9.3
23	17	37	86	207	107	138	52	23	8.6	10	4.2	14
24	16	34	87	162	165	112	49	25	14	15	3.7	9.6
25	23	e32	73	143	99	92	44	35	49	21	3.7	7.4
26	28	e30	63	132	89	82	42	29	33	18	3.7	6.1
27	23	28	57	120	97	74	41	23	67	15	3.7	6.0
28	20	120	59	e90	303	70	49	22	34	20	4.2	5.4
29	18	95	53	e90	---	63	43	29	24	87	4.4	5.2
30	17	68	29	e85	---	65	40	24	20	32	4.2	5.0
31	18	---	47	96	---	66	---	22	---	18	4.6	---
TOTAL	596	2932	3509	6311	2355	5812	2194	1128	620.1	492.7	453.8	185.6
MEAN	19.2	97.7	113	204	84.1	187	73.1	36.4	20.7	15.9	14.6	6.19
MAX	45	625	290	1150	303	924	178	113	67	87	92	14
MIN	14	28	29	38	46	63	40	22	8.6	6.0	3.7	3.7
CFSM	.25	1.27	1.47	2.65	1.09	2.44	.95	.47	.27	.21	.19	.08
IN.	.29	1.42	1.70	3.05	1.14	2.81	1.06	.55	.30	.24	.22	.09

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1995, BY WATER YEAR (WY)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	68.2	129	164	125	135	232	210	95.7	60.3	37.8	36.7	46.5						
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						

NIAGARA RIVER BASIN

97

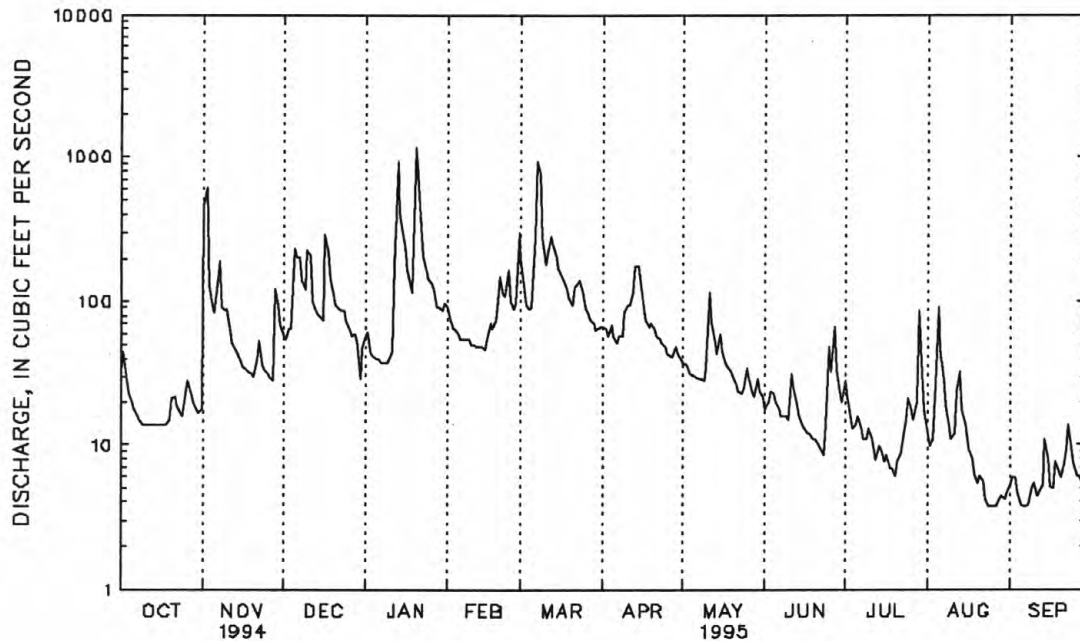
04216418 TONAWANDA CREEK AT ATTICA, NY--Continued

ANNUAL TOTAL	33040.1		26342.2			
ANNUAL MEAN	90.5		72.2		111	
HIGHEST ANNUAL MEAN					157	1978
LOWEST ANNUAL MEAN					72.2	1995
HIGHEST DAILY MEAN	1170	Mar 24	1150	Jan 20	2630	Feb 24 1985
LOWEST DAILY MEAN	7.1	Aug 9	3.7	a	3.7	a
ANNUAL SEVEN-DAY MINIMUM	8.4	Aug 7	3.9	Aug 23	3.9	Aug 23 1995
INSTANTANEOUS PEAK FLOW			2650	Jan 20	4700	Dec 29 1984
INSTANTANEOUS PEAK STAGE			7.36	Jan 20	b12.40	Feb 18 1979
INSTANTANEOUS LOW FLOW			3.1	c	3.1	c
ANNUAL RUNOFF (CFSM)	1.18		.94		1.45	
ANNUAL RUNOFF (INCHES)	15.98		12.74		19.70	
10 PERCENT EXCEEDS	223		155		250	
50 PERCENT EXCEEDS	39		38		60	
90 PERCENT EXCEEDS	13		6.6		14	

a Aug. 24-27, Sep. 6, 7, 1995.

b Ice jam.

c Aug. 26, Sep. 7, 1995.



DAILY MEAN DISCHARGE FOR — 1995 WATER YEAR

NIAGARA RIVER BASIN

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 mi².

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 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 21	1330	*2,770	*8.09	Mar. 8	1900	2,100	6.76

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	51	103	108	91	184	502	123	77	35	30	28	13
2	51	659	93	118	170	329	124	74	35	39	23	12
3	50	555	91	77	106	209	115	74	58	31	21	12
4	34	213	97	77	e105	195	118	68	49	26	22	11
5	28	164	129	e75	e100	187	137	63	42	25	62	9.9
6	25	156	430	e75	e100	340	108	59	35	30	172	8.5
7	22	320	335	e70	e100	715	112	51	31	27	67	7.7
8	20	218	309	e70	e100	1560	114	49	27	27	44	9.1
9	19	147	207	e70	e95	1290	128	47	27	27	31	11
10	17	160	390	77	e95	599	189	55	27	24	25	10
11	17	126	415	74	e95	422	182	128	27	22	23	11
12	16	98	295	88	e90	595	229	164	40	20	24	9.1
13	16	86	e150	542	e90	538	295	107	29	18	39	8.6
14	16	76	e160	940	e90	433	301	86	26	19	38	11
15	15	70	162	762	e85	358	314	96	24	19	27	16
16	16	65	147	484	e100	308	208	96	21	16	23	13
17	15	61	274	394	130	292	164	74	21	16	20	12
18	16	59	614	297	125	284	142	66	19	18	17	11
19	16	54	388	254	135	240	135	61	18	17	16	12
20	17	51	281	537	187	210	137	55	18	15	15	12
21	23	49	222	2340	277	205	122	51	18	14	14	12
22	26	81	192	1510	227	254	117	46	17	16	14	14
23	21	75	179	739	197	281	109	42	15	16	14	15
24	17	61	173	414	283	238	101	40	14	28	12	18
25	18	56	163	336	e240	190	96	47	41	33	11	16
26	27	55	137	298	e160	167	88	51	67	35	10	13
27	31	51	116	264	172	152	84	42	75	30	9.3	12
28	26	77	113	e200	367	140	90	39	68	27	9.2	11
29	22	213	113	181	---	130	98	44	44	78	9.5	10
30	21	134	68	178	---	121	84	47	31	113	9.9	9.6
31	20	---	78	191	---	125	---	40	---	43	12	---
TOTAL	729	4293	6629	11823	4205	11609	4364	2039	999	899	861.9	350.5
MEAN	23.5	143	214	381	150	374	145	65.8	33.3	29.0	27.8	11.7
MAX	51	659	614	2340	367	1560	314	164	75	113	172	18
MIN	15	49	68	70	85	121	84	39	14	14	9.2	7.7

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1995, BY WATER YEAR (WY)

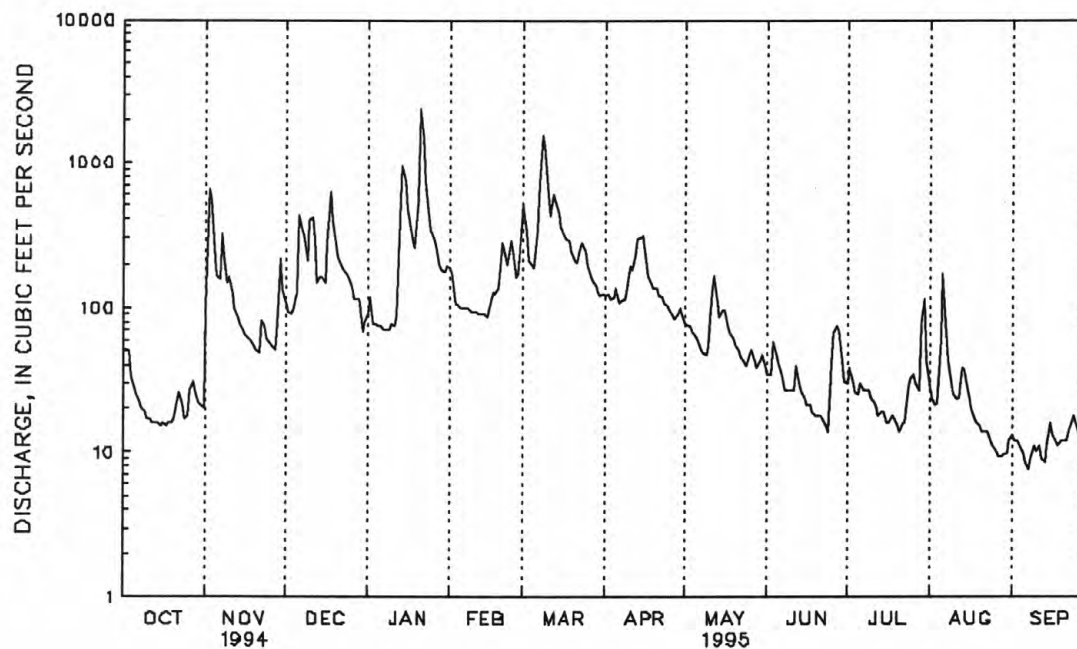
	MEAN	80.2	169	265	250	304	543	458	198	104	52.7	49.6	63.5
MAX	344	653	718	546	903	1206	1100	544	722	247	451	873	
(WY)	1946	1986	1978	1979	1976	1945	1947	1984	1989	1992	1977	1977	
MIN	9.03	15.3	13.6	17.5	50.9	244	82.1	65.8	20.1	6.17	7.91	5.63	
(WY)	1965	1961	1961	1961	1963	1965	1946	1995	1965	1955	1944	1955	

NIAGARA RIVER BASIN
04217000 TONAWANDA CREEK AT BATAVIA, NY--Continued

99

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1944 - 1995	
ANNUAL TOTAL	66976.9		48801.4		211	
ANNUAL MEAN	183		134		311	
HIGHEST ANNUAL MEAN					124	
LOWEST ANNUAL MEAN					6660	
HIGHEST DAILY MEAN	2100	Mar 25	2340	Jan 21		1976
LOWEST DAILY MEAN	9.9	Sep 23	7.7	Sep 7		1965
ANNUAL SEVEN-DAY MINIMUM	12	Sep 19	9.5	Sep 6		1965
INSTANTANEOUS PEAK FLOW			2770	Jan 21		1960
INSTANTANEOUS PEAK STAGE			8.09	Jan 21		1960
INSTANTANEOUS LOW FLOW			7.0	Sep 7		1947
10 PERCENT EXCEEDS	461		304			a
50 PERCENT EXCEEDS	80		70			
90 PERCENT EXCEEDS	16		14			

a Aug. 5-7, 1955.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

NIAGARA RIVER BASIN

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 mi².

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 ft³/s and maximum (*).

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 22	0500	*1,020	*5.00	Mar. 9	1200	902	4.81

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	e13	e30	57	23	53	118	36	22	13	4.7	5.6	3.9
2	e12	146	47	28	52	e130	37	20	11	4.1	3.7	2.4
3	e12	127	39	e25	e45	e130	36	18	12	4.4	3.4	2.0
4	e11	93	33	e23	42	e90	37	17	25	4.3	3.4	2.1
5	e10	69	58	e22	e38	69	44	15	24	5.6	5.7	3.3
6	e8.0	77	137	e22	e36	94	45	14	14	5.4	4.2	3.2
7	e7.0	100	171	e20	e34	240	42	14	10	5.2	33	3.4
8	e6.5	101	159	19	e32	666	41	14	7.9	4.0	29	3.7
9	e6.0	81	132	e19	e28	776	42	13	6.7	3.4	15	3.5
10	e5.5	69	153	e18	e26	603	50	16	5.1	4.8	7.4	2.4
11	e5.0	56	202	e18	e24	284	68	37	4.8	4.7	5.1	3.3
12	e5.0	42	e140	23	e24	266	73	59	4.8	5.0	3.1	3.4
13	e5.0	33	e120	150	e23	258	90	53	6.3	5.6	2.2	3.5
14	e4.8	29	99	258	e23	215	103	38	5.0	12	2.6	3.2
15	e4.8	25	56	311	e22	169	94	41	4.2	8.1	2.5	3.1
16	e4.8	21	44	324	e26	138	79	56	4.0	5.6	2.1	2.2
17	e4.8	19	124	250	32	126	57	45	3.8	7.2	1.9	5.5
18	e5.0	17	242	202	36	119	45	32	3.4	6.4	1.9	e4.0
19	e5.5	16	321	149	46	111	39	26	3.9	5.0	1.7	e3.4
20	e6.0	15	252	345	63	92	35	21	3.7	4.5	1.4	e3.8
21	e6.5	20	168	688	89	86	34	18	3.4	7.4	2.4	e4.2
22	e6.5	26	112	898	e100	92	30	16	3.4	4.6	2.3	e4.0
23	e6.0	32	81	503	107	100	28	13	4.0	12	2.2	e2.8
24	e6.5	29	66	287	106	97	29	13	4.2	11	2.5	e2.6
25	e8.0	26	56	195	e100	75	25	12	4.0	7.4	2.4	e4.0
26	e7.5	24	44	149	e105	58	22	12	5.6	7.8	2.0	e4.5
27	e7.0	23	41	113	e90	51	21	11	5.8	5.6	1.9	e3.8
28	e6.5	40	37	e90	94	45	21	12	5.6	5.0	2.6	e3.8
29	e7.5	74	34	e80	---	39	21	13	4.8	10	2.6	e3.5
30	e8.0	73	e30	e60	---	35	22	15	4.8	3.9	2.3	e2.4
31	e8.0	---	25	58	---	35	---	14	---	5.8	3.1	---
TOTAL	219.7	1533	3280	5370	1496	5407	1346	720	218.2	190.5	161.2	100.9
MEAN	7.09	51.1	106	173	53.4	174	44.9	23.2	7.27	6.15	5.20	3.36
MAX	13	146	321	898	107	776	103	59	25	12	33	5.5
MIN	4.8	15	25	18	22	35	21	11	3.4	3.4	1.4	2.0
CFSM	.12	.87	1.80	2.95	.91	2.97	.76	.39	.12	.10	.09	.06
IN.	.14	.97	2.08	3.40	.95	3.42	.85	.46	.14	.12	.10	.06

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1995, BY WATER YEAR (WY)

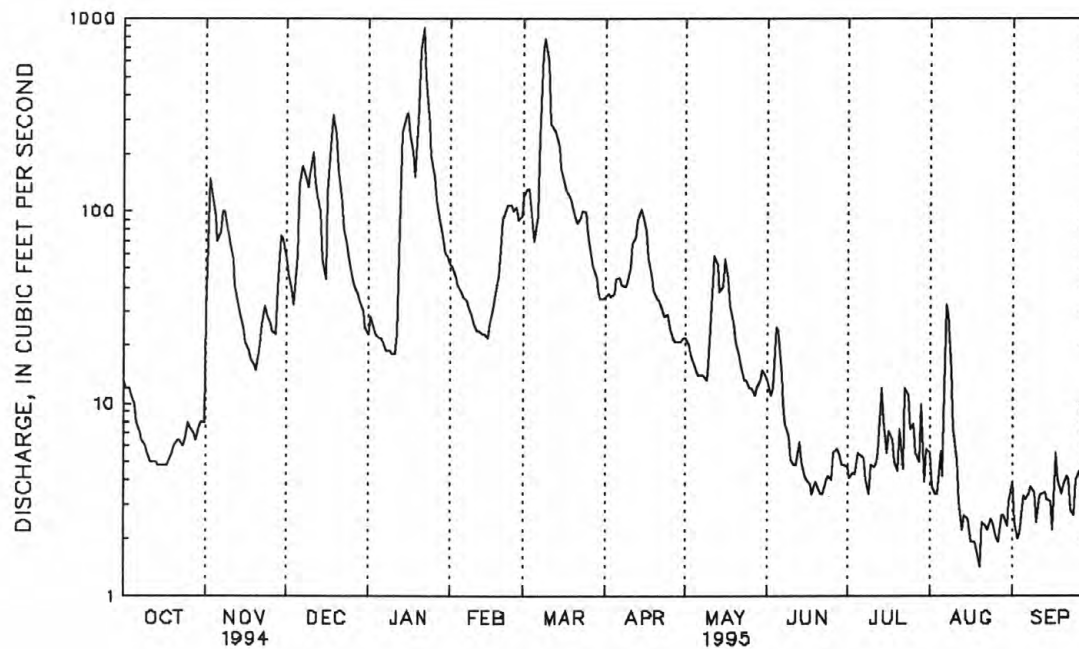
	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	24.3	71.9	109	87.2	108	140	135	67.3	36.7	14.6	15.0	15.9	
MAX	87.3	183	222	186	243	214	191	157	183	58.8	96.2	109	
(WY)	1987	1986	1984	1993	1985	1991	1992	1989	1989	1992	1992	1992	
MIN	5.33	6.63	15.0	30.5	29.0	88.6	44.9	22.5	7.27	4.54	2.18	2.88	
(WY)	1992	1992	1990	1994	1987	1983	1995	1985	1995	1983	1991	1991	

NIAGARA RIVER BASIN
04217750 MURDER CREEK NEAR AKRON, NY--Continued

101

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1983 - 1995	
ANNUAL TOTAL	23973.0		20042.5			
ANNUAL MEAN	65.7		54.9		69.3	
HIGHEST ANNUAL MEAN					81.7	
LOWEST ANNUAL MEAN					54.9	
HIGHEST DAILY MEAN	725	Mar 24	898	Jan 22	2710	Feb 25 1985
LOWEST DAILY MEAN	4.1	a	1.4	Aug 20	.86	Aug 24 1991
ANNUAL SEVEN-DAY MINIMUM	4.8	Sep 2	2.0	Aug 16	1.4	Aug 23 1991
INSTANTANEOUS PEAK FLOW			1020	Jan 22	3000	Feb 25 1985
INSTANTANEOUS PEAK STAGE			5.00	Jan 22	7.16	Feb 25 1985
INSTANTANEOUS LOW FLOW			1.1	Aug 20	.53	Aug 24 1991
ANNUAL RUNOFF (CFSM)	1.12		.93		1.18	
ANNUAL RUNOFF (INCHES)	15.17		12.68		16.02	
10 PERCENT EXCEEDS	154		131		170	
50 PERCENT EXCEEDS	30		21		35	
90 PERCENT EXCEEDS	6.0		3.4		4.5	

a Sep. 4, 5.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

NIAGARA RIVER BASIN

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 mi², includes 0.76 mi² 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 23	0900	*3,860	*11.49	Mar. 9	2400	2,890	9.45

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	69	72	292	194	e500	618	e300	e150	85	62	106	22
2	90	228	226	e210	e450	876	e300	e140	79	46	69	29
3	81	705	193	e190	e300	737	e280	e140	73	39	51	34
4	75	838	176	e180	e280	541	e280	e140	87	42	44	25
5	72	471	203	e180	e260	432	e320	e135	106	43	46	21
6	57	329	419	e180	e250	502	e270	e130	91	46	54	19
7	49	348	720	e170	e245	941	e260	e125	77	53	136	19
8	45	445	715	e170	e245	2180	e260	e120	65	47	156	18
9	41	449	634	e170	e240	2640	e300	121	56	45	106	19
10	37	339	603	e180	e240	e1400	e400	129	49	36	78	18
11	35	288	757	e180	e240	e1100	e400	182	46	36	58	18
12	34	256	824	186	e235	e1300	e550	268	49	34	47	20
13	33	202	781	628	e230	e1400	e640	348	52	33	41	20
14	33	174	616	1140	e230	e1100	e680	270	57	35	38	20
15	32	158	431	1550	e220	e950	e700	230	51	38	45	19
16	32	143	341	2070	e240	e800	e550	237	43	33	54	19
17	32	131	471	1660	e280	e700	e400	247	39	29	43	24
18	33	121	921	1100	e270	e650	e350	200	35	29	36	25
19	37	114	1180	768	323	e600	e340	163	32	27	31	26
20	39	108	1030	1080	356	e550	e350	141	30	25	28	25
21	43	106	733	2400	481	e500	e300	122	28	26	25	23
22	44	127	561	3130	e500	e600	e270	105	25	31	22	23
23	43	138	462	3740	561	e650	e240	93	24	31	21	24
24	44	156	403	2620	526	e550	e220	84	25	38	20	23
25	49	135	370	1330	537	e500	e200	83	25	42	19	24
26	50	120	336	854	542	e450	e180	83	27	41	20	23
27	47	113	287	684	439	e400	e160	84	47	56	20	24
28	46	138	257	e580	457	e350	e170	75	85	61	18	22
29	55	223	242	e510	---	e320	e180	83	116	57	17	19
30	57	336	185	e500	---	e300	e160	84	101	68	17	18
31	51	---	e180	e520	---	e300	---	81	---	131	18	---
TOTAL	1485	7511	15549	29054	9677	24937	10010	4593	1705	1360	1484	663
MEAN	47.9	250	502	937	346	804	334	148	56.8	43.9	47.9	22.1
MAX	90	838	1180	3740	561	2640	700	348	116	131	156	34
MIN	32	72	176	170	220	300	160	75	24	25	17	18
CFSM	.14	.72	1.44	2.69	.99	2.30	.96	.42	.16	.13	.14	.06
IN.	.16	.80	1.66	3.10	1.03	2.66	1.07	.49	.18	.14	.16	.07

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1995, BY WATER YEAR (WY)

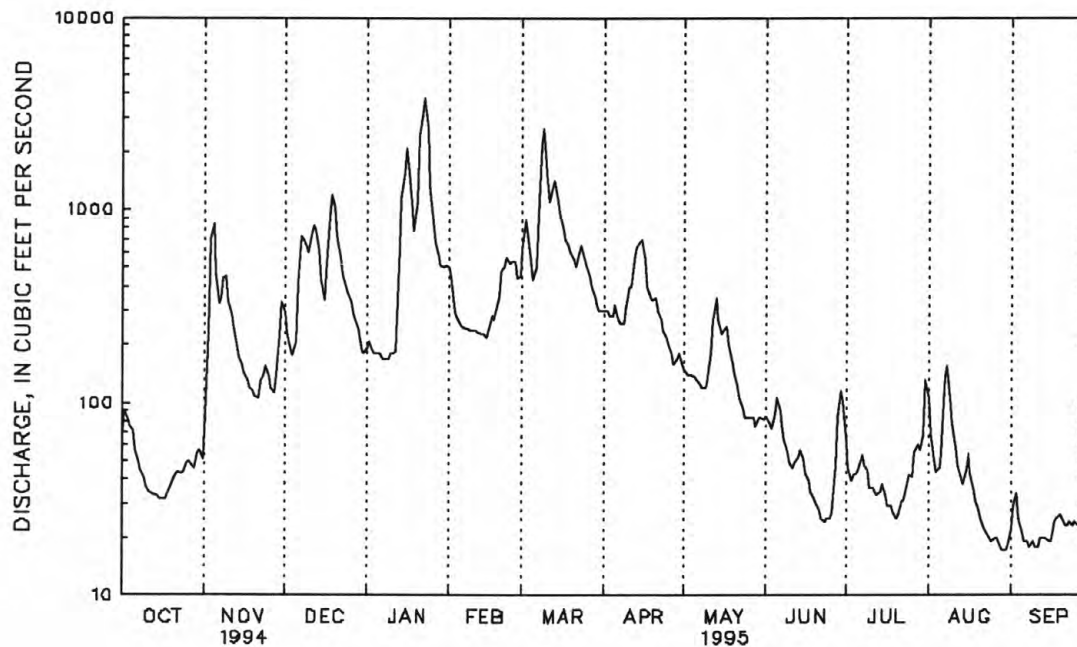
MEAN	139	309	491	478	609	963	925	386	198	91.9	89.3	96.4
MAX	642	1239	1116	1067	1363	1650	1533	1046	1372	463	601	613
(WY)	1987	1986	1987	1993	1981	1956	1960	1956	1989	1992	1992	1992
MIN	14.8	25.7	23.3	29.4	103	452	334	144	45.6	26.1	15.9	10.0
(WY)	1965	1961	1961	1961	1963	1981	1995	1993	1965	1991	1991	1991

NIAGARA RIVER BASIN
04218000 TONAWANDA CREEK AT RAPIDS, NY--Continued

103

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1955 - 1995	
ANNUAL TOTAL	144031		108028		397	
ANNUAL MEAN	395		296		556	1956
HIGHEST ANNUAL MEAN					255	1965
LOWEST ANNUAL MEAN					6130	Apr 1 1960
HIGHEST DAILY MEAN	3420	Mar 26	3740	Jan 23	4.8	Jul 28 1983
LOWEST DAILY MEAN	30	Sep 25	17	a	6.8	Sep 1 1991
ANNUAL SEVEN-DAY MINIMUM	33	Oct 12	18	Aug 25	6280	Apr 1 1960
INSTANTANEOUS PEAK FLOW			3860	Jan 23	16.96	Apr 1 1960
INSTANTANEOUS PEAK STAGE			11.49	Jan 23	4.5	Jul 28 1983
INSTANTANEOUS LOW FLOW			17	a	1.14	
ANNUAL RUNOFF (CFSM)	1.13		.85		15.45	
ANNUAL RUNOFF (INCHES)	15.35		11.51		1030	
10 PERCENT EXCEEDS	999		702		188	
50 PERCENT EXCEEDS	180		140		29	
90 PERCENT EXCEEDS	43		25			

a Aug. 29-31.



DAILY MEAN DISCHARGE FOR -- 1995 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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 21	1645	1.540	6.68	Mar. 8	2245	*1.730	*7.15

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	45	181	88	69	99	253	87	56	31	25	30	14
2	41	279	70	81	97	225	87	54	30	27	31	12
3	32	230	63	e85	e100	167	84	53	39	28	29	13
4	20	117	60	e75	e80	136	83	47	75	30	34	12
5	23	117	97	e70	e60	115	109	43	41	32	82	12
6	24	171	282	e70	e70	185	95	45	36	30	300	14
7	22	222	279	e65	e70	552	87	49	31	29	109	13
8	24	181	252	e65	e70	1350	89	42	25	23	68	13
9	21	122	184	e65	e65	979	91	35	26	25	42	13
10	16	116	280	66	e65	335	115	54	27	23	33	13
11	18	101	374	69	e65	256	139	110	23	22	35	13
12	19	74	307	96	e60	317	143	145	26	21	42	12
13	17	54	162	467	e60	310	180	110	23	21	27	13
14	17	52	125	713	e60	228	196	89	24	22	29	13
15	20	48	103	461	e58	175	172	87	24	19	27	14
16	15	43	97	588	e58	148	131	116	19	20	25	10
17	15	32	292	476	e60	152	101	69	16	22	22	17
18	22	37	644	263	e75	160	68	54	18	16	17	12
19	23	35	417	167	e85	147	75	49	19	14	15	9.0
20	25	33	241	472	e120	129	75	51	18	13	15	13
21	18	56	172	1300	e150	135	80	54	18	24	15	14
22	17	52	127	910	e150	159	71	44	19	17	13	12
23	18	61	119	387	e130	180	70	34	19	39	12	14
24	18	54	109	227	e150	149	66	37	21	40	13	15
25	33	43	103	184	e160	117	59	37	24	40	12	14
26	28	40	89	167	e140	101	57	32	29	33	13	11
27	26	44	81	149	e130	89	57	31	30	39	14	13
28	23	92	78	138	171	79	59	41	34	48	14	14
29	25	166	77	e120	---	75	59	40	28	83	14	14
30	29	126	66	e110	---	74	60	39	27	92	14	13
31	30	---	65	104	---	80	---	36	---	46	19	---
TOTAL	724	2979	5503	8279	2658	7557	2845	1783	820	963	1165	389.0
MEAN	23.4	99.3	178	267	94.9	244	94.8	57.5	27.3	31.1	37.6	13.0
MAX	45	279	644	1300	171	1350	196	145	75	92	300	17
MIN	15	32	60	65	58	74	57	31	16	13	12	9.0
CFSM	.29	1.22	2.18	3.27	1.16	2.99	1.16	.70	.33	.38	.46	.16
IN.	.33	1.36	2.51	3.77	1.21	3.45	1.30	.81	.37	.44	.53	.18

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1995, BY WATER YEAR (WY)

MEAN	67.3	140	206	150	175	279	209	108	73.0	41.4	56.0	68.6
MAX	175	342	441	315	377	519	310	258	275	144	397	425
(WY)	1987	1986	1978	1993	1990	1977	1994	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

NIAGARA RIVER BASIN

105

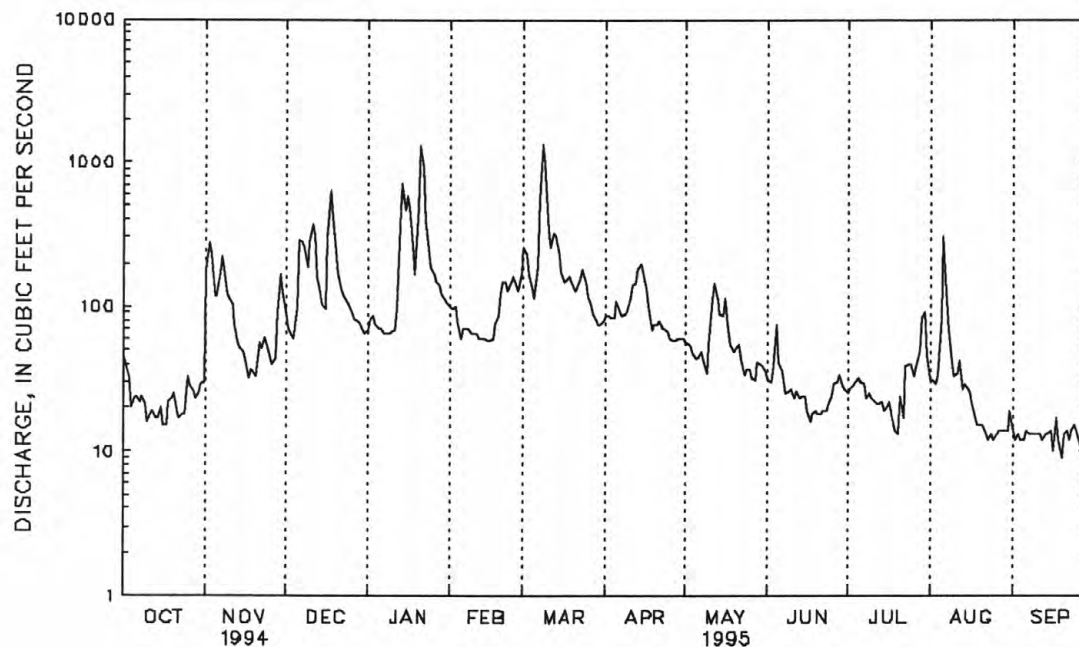
04218518 ELLICOTT CREEK BELOW WILLIAMSVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1973 - 1995	
ANNUAL TOTAL	48843		35665.0		131	
ANNUAL MEAN	134		97.7		177	1977
HIGHEST ANNUAL MEAN					97.7	1995
LOWEST ANNUAL MEAN					3280	Feb 25 1985
HIGHEST DAILY MEAN	1410	Feb 22	1350	Mar 8	2.7	Aug 15 1978
LOWEST DAILY MEAN	13	a	9.0	Sep 19	3.6	Jul 15 1978
ANNUAL SEVEN-DAY MINIMUM	14	Sep 15	12	Sep 16	3640	Feb 25 1985
INSTANTANEOUS PEAK FLOW			1730	Mar 8	11.19	Feb 25 1985
INSTANTANEOUS PEAK STAGE			7.15	Mar 8	c.00	Jul 27 1976
INSTANTANEOUS LOW FLOW			7.0	b	1.60	
ANNUAL RUNOFF (CFSM)	1.64		1.20		21.79	
ANNUAL RUNOFF (INCHES)	22.27		16.26		298	
10 PERCENT EXCEEDS	312		189		71	
50 PERCENT EXCEEDS	81		56		17	
90 PERCENT EXCEEDS	18		14			

a Aug. 10, Sep. 19, 20.

b Aug. 7, 16.

c Result of pipeline construction.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

NIAGARA RIVER BASIN

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 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 874 ft³/s, Dec. 3, 1969; no significant flow at times in many years.

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	196	191	---	---	---	---	---	151	226	285	261	257
2	193	220	---	---	---	---	---	167	218	285	284	269
3	191	215	---	---	---	---	---	169	216	304	285	275
4	191	218	---	---	---	---	---	170	239	296	271	282
5	197	212	---	---	---	---	---	171	213	271	267	271
6	192	203	---	---	---	---	---	174	212	278	265	263
7	211	197	---	---	---	---	---	179	218	284	258	271
8	210	204	---	---	---	---	---	174	215	274	272	270
9	196	195	---	---	---	---	---	176	216	288	280	261
10	195	179	---	---	---	---	---	178	222	287	267	263
11	194	149	---	---	---	---	---	173	224	279	282	274
12	188	114	---	---	---	---	---	177	225	282	276	274
13	202	89	---	---	---	---	---	187	217	282	284	266
14	189	46	---	---	---	---	---	185	217	275	270	279
15	195	---	---	---	---	---	---	185	217	283	270	284
16	205	---	---	---	---	---	---	194	221	292	268	273
17	195	---	---	---	---	---	---	193	244	289	279	274
18	187	---	---	---	---	---	---	207	233	290	269	271
19	184	---	---	---	---	---	---	213	224	285	276	270
20	195	---	---	---	---	---	---	225	240	287	289	266
21	179	---	---	---	---	---	---	234	247	292	291	280
22	182	---	---	---	---	---	---	219	247	277	284	273
23	181	---	---	---	---	---	---	216	247	279	286	278
24	178	---	---	---	---	---	---	228	251	283	270	262
25	186	---	---	---	---	---	---	218	244	281	276	267
26	181	---	---	---	---	---	106	222	256	284	301	271
27	176	---	---	---	---	---	115	246	276	278	285	272
28	178	---	---	---	---	---	92	228	276	291	271	248
29	187	---	---	---	---	---	96	235	270	292	270	246
30	174	---	---	---	---	---	97	204	277	269	256	244
31	174	---	---	---	---	---	---	216	---	262	263	---
TOTAL	5882	---	---	---	---	---	---	6114	7048	8784	8526	8054
MEAN	190	---	---	---	---	---	---	197	235	283	275	268
MAX	211	---	---	---	---	---	---	246	277	304	301	284
MIN	174	---	---	---	---	---	---	151	212	262	256	244

ST. LAWRENCE RIVER MAIN STEM

107

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY

(National stream-quality accounting network station)

WATER QUALITY RECORDS

LOCATION.--Lat 43°16'10", long 79°03'52", Niagara County, Hydrologic Unit 04120104, water samples collected about 2 mi upstream from Coast Guard wharf, at Fort Niagara and 1.5 mi south of Youngstown.

DRAINAGE AREA.--265,000 mi².

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

CHEMICAL DATA: 1971 (a), 1973-74 (b), 1975-82 (c), 1983-86 (b), 1987-89 (d), 1990-91 (c), 1992-95 (b).

MINOR ELEMENT DATA: 1971 (a), 1972 (b), 1987-89 (d), 1990-91 (c), 1992-95 (b).

ORGANIC DATA: OC--1973 (a), 1974-75 (b), 1978-80 (c), 1981 (b).

NUTRIENT DATA: 1971 (a), 1973-74 (b), 1975-82 (c), 1983-87 (b), 1988-89 (c), 1990-95 (b).

BIOLOGICAL DATA:

Bacteria--1973 (b), 1974 (d), 1975-82 (c), 1983-95 (b).

Phytoplankton--1973 (b), 1974 (d), 1975-77 (c), 1978-81 (c).

Periphyton--1974 (a), 1975-80 (b).

SEDIMENT DATA: 1975-77 (c), 1978 (b), 1979-82 (c), 1983-86 (b), 1987-89 (d), 1990-91 (c), 1992-95 (b).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September 1973 to June 1980.

WATER TEMPERATURE: September 1973 to June 1980.

REMARKS.--Published in 1971 as "at Youngstown." Discharge is the daily mean reported by Detroit District Corps of Engineers for the Niagara River at Queenstown.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

		DIS- CHARGE, IN CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	TUR- BID- ITY (NTU)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC											
14...	1100	200000	271	7.8	5.0	3.2	771	9.8	76	130	43
MAR											
22...	1100	202000	271	7.8	0.5	1.6	747	11.4	81	60	24
JUN											
20...	1100	205000	271	8.1	19.0	0.80	756	9.6	104	390	24
AUG											
10...	1045	210000	269	8.2	24.5	0.70	757	7.9	96	52	K6

DATE	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
DEC											
14...	110	32	8.2	9.3	1.4	89	25	25	<0.10	1.0	171
MAR											
22...	120	33	8.4	9.8	1.4	85	20	18	0.10	1.1	153
JUN											
20...	120	32	8.6	9.0	1.4	87	22	16	0.10	0.28	145
AUG											
10...	110	31	8.2	8.8	1.4	86	22	16	<0.10	0.46	151

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

ST. LAWRENCE RIVER MAIN STEM
04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)
DEC 14...	154	0.29	0.04	<0.01	<0.20	0.03	<0.01	<0.01	60	20
MAR 22...	175	0.30	0.03	0.01	0.20	0.02	<0.01	<0.01	<10	50
JUN 20...	136	0.25	0.04	<0.01	0.20	<0.01	<0.01	<0.01	<10	22
AUG 10...	132	0.16	0.04	<0.01	0.30	0.02	<0.01	<0.01	<10	23

DATE	COBALT, DIS- SOLVED (UG/L AS CO)	IRON, DIS- SOLVED (UG/L AS FE)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)
DEC 14...	<3	8	<4	<1	<10	1	<1	<1.0	160	<6
MAR 22...	<3	6	<4	1	<10	1	<1	<1.0	180	<6
JUN 20...	<3	<3	<4	<1	20	<1	<1	<1.0	190	<6
AUG 10...	<3	<3	<4	<1	20	2	<1	<1.0	160	<6

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	DEPTH AT SAMPLE LOC- ATION, TOTAL (FEET)	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
DEC 14...	1105	1000	37.5	3.0	271	7.8	5.0	10.1
14...	1110	1000	37.5	10.0	272	7.9	5.0	10.0
14...	1115	1000	37.5	20.0	265	7.8	5.0	10.0
14...	1120	1000	37.5	30.0	266	7.8	5.0	9.9
14...	1125	1700	44.0	3.0	271	7.9	5.0	9.6
14...	1130	1700	44.0	10.0	278	7.8	5.0	9.6
14...	1135	1700	44.0	20.0	257	7.8	5.0	9.5
14...	1140	1700	44.0	30.0	262	7.9	5.0	9.5

ST. LAWRENCE RIVER MAIN STEM
04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY--Continued

109

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK)	DEPTH AT SAMPLE LOC- ATION, TOTAL (FEET)	SAM- PLING DEPTH (FEET)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
MAR								
22...	1105	1000	42.5	3.0	273	7.8	0.5	11.6
22...	1110	1000	42.5	10.0	270	7.8	0.5	11.5
22...	1115	1000	42.5	25.0	274	7.8	0.5	11.5
22...	1120	1000	42.5	40.0	265	7.7	0.5	11.4
22...	1125	1700	46.0	3.0	271	7.8	0.5	11.2
22...	1130	1700	46.0	10.0	272	7.8	0.5	11.1
22...	1135	1700	46.0	25.0	272	7.7	0.5	11.1
22...	1140	1700	46.0	40.0	269	7.7	0.5	11.1
JUN								
20...	1105	1000	41.5	3.0	271	8.0	19.0	10.2
20...	1110	1000	41.5	10.0	273	8.1	19.0	9.4
20...	1115	1000	41.5	25.0	268	8.1	19.0	9.2
20...	1120	1000	41.5	40.0	277	8.1	19.0	9.2
20...	1125	1700	46.0	3.0	271	8.1	19.0	9.0
20...	1130	1700	46.0	10.0	271	8.1	19.0	9.1
20...	1135	1700	46.0	25.0	264	8.1	19.0	9.1
20...	1140	1700	46.0	40.0	278	8.1	19.0	9.2
AUG								
10...	1050	1000	43.5	3.0	270	8.3	24.5	8.1
10...	1055	1000	43.5	10.0	266	8.3	24.5	8.2
10...	1100	1000	43.5	25.0	268	8.3	24.5	8.2
10...	1105	1000	43.5	40.0	271	8.2	24.5	8.2
10...	1110	1700	46.5	3.0	267	8.2	24.5	7.8
10...	1115	1700	46.5	10.0	266	8.2	24.5	7.9
10...	1120	1700	46.5	25.0	272	8.2	24.5	8.1
10...	1125	1700	46.5	45.0	270	8.2	24.5	8.3

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC					
14...	1100	200000	8	4320	81
MAR					
22...	1100	202000	3	1640	98
JUN					
20...	1100	205000	5	2770	82
AUG					
10...	1045	210000	2	1130	89

STREAMS TRIBUTARY TO LAKE ONTARIO

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 mi².

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 ft³/s, May 17, 1974, from rating curve extended above 15 ft³/s on basis of contracted-opening measurement of peak flow.

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	2.0	19	5.8	e8.0	11	e20	6.7	e3.7	3.8	5.1	2.7	4.7
2	2.1	21	5.6	e7.0	e9.6	e15	6.3	e3.6	6.1	4.1	3.2	3.6
3	1.9	6.7	5.4	e6.0	e8.0	e13	6.2	e3.5	7.1	3.7	5.7	3.5
4	1.7	4.2	5.4	e5.0	e7.0	e9.0	7.3	e3.5	5.5	3.7	6.1	3.5
5	1.8	3.8	16	e5.6	e6.4	e10	6.2	e3.4	4.6	4.0	4.6	3.1
6	1.6	4.3	14	e5.0	e6.2	e20	5.7	e3.6	4.1	4.4	4.1	4.0
7	1.6	4.5	12	e4.6	e5.9	e40	5.2	e3.8	3.1	3.3	3.9	3.9
8	1.7	3.8	12	e5.0	e5.6	e50	4.9	e3.6	3.7	3.5	3.7	4.6
9	1.7	8.2	10	e4.2	e5.4	e30	5.9	e3.4	3.5	3.5	3.4	4.3
10	1.7	11	e14	e4.0	e5.2	e22	7.1	e6.0	3.3	3.5	3.1	3.7
11	1.6	9.7	e17	e3.6	e5.0	25	5.9	10	3.5	3.0	3.6	3.8
12	1.6	8.8	e16	e6.0	e4.8	29	6.1	7.0	3.4	3.4	3.8	3.6
13	1.6	8.6	e12	e15	e4.7	22	9.1	5.9	2.5	2.9	3.8	4.4
14	1.7	8.7	e10	12	e4.6	17	7.0	6.1	3.0	3.4	3.6	3.9
15	1.7	12	e9.0	11	e4.4	14	6.1	7.0	2.2	3.5	3.0	3.7
16	1.9	11	8.5	15	e5.0	14	5.0	e5.4	2.8	3.6	3.5	3.7
17	e2.1	9.9	29	15	e6.0	13	4.4	e4.8	4.1	4.9	3.0	4.1
18	e1.9	8.8	25	11	e7.5	12	4.1	e4.5	4.0	3.4	3.4	4.1
19	e3.0	8.0	18	10	e9.0	11	4.2	e4.7	3.5	3.5	3.3	3.9
20	e2.4	6.9	14	98	e13	10	3.8	e4.5	3.5	3.0	3.4	4.0
21	e2.0	7.9	12	89	e15	10	4.2	e4.7	3.6	4.9	3.1	4.3
22	1.8	8.1	11	42	e14	10	4.2	e4.8	3.8	3.6	3.1	5.4
23	1.7	6.5	10	23	e13	9.7	3.9	e4.1	3.4	3.7	3.1	4.5
24	1.7	5.7	9.4	17	e18	8.8	3.8	e4.6	4.0	3.8	3.0	4.1
25	1.6	5.6	8.8	15	e10	8.2	3.9	e5.4	3.8	5.0	3.3	4.2
26	1.7	5.4	8.0	e14	e9.0	7.9	3.9	e4.8	4.9	4.7	3.4	4.1
27	1.6	6.8	7.7	e13	e11	7.4	4.2	e4.4	4.3	3.8	3.6	4.1
28	1.6	9.4	7.8	e12	e30	6.9	4.8	e4.9	5.3	3.6	3.5	4.1
29	1.7	7.2	e6.6	e9.0	---	6.6	4.1	e5.2	4.1	4.8	3.0	4.1
30	1.9	6.2	e5.4	e9.0	---	6.9	e3.9	e4.6	3.8	3.5	3.3	4.0
31	2.0	---	e5.6	e10	---	7.0	---	e4.2	---	3.5	5.2	---
TOTAL	56.6	247.7	351.0	504.0	254.3	485.4	158.1	149.7	118.3	118.3	112.5	121.0
MEAN	1.83	8.26	11.3	16.3	9.08	15.7	5.27	4.83	3.94	3.82	3.63	4.03
MAX	3.0	21	29	98	30	50	9.1	10	7.1	5.1	6.1	5.4
MIN	1.6	3.8	5.4	3.6	4.4	6.6	3.8	3.4	2.2	2.9	2.7	3.1
CFSM	.16	.71	.97	1.39	.78	1.34	.45	.41	.34	.33	.31	.34
IN.	.18	.79	1.12	1.60	.81	1.54	.50	.48	.38	.38	.36	.38

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

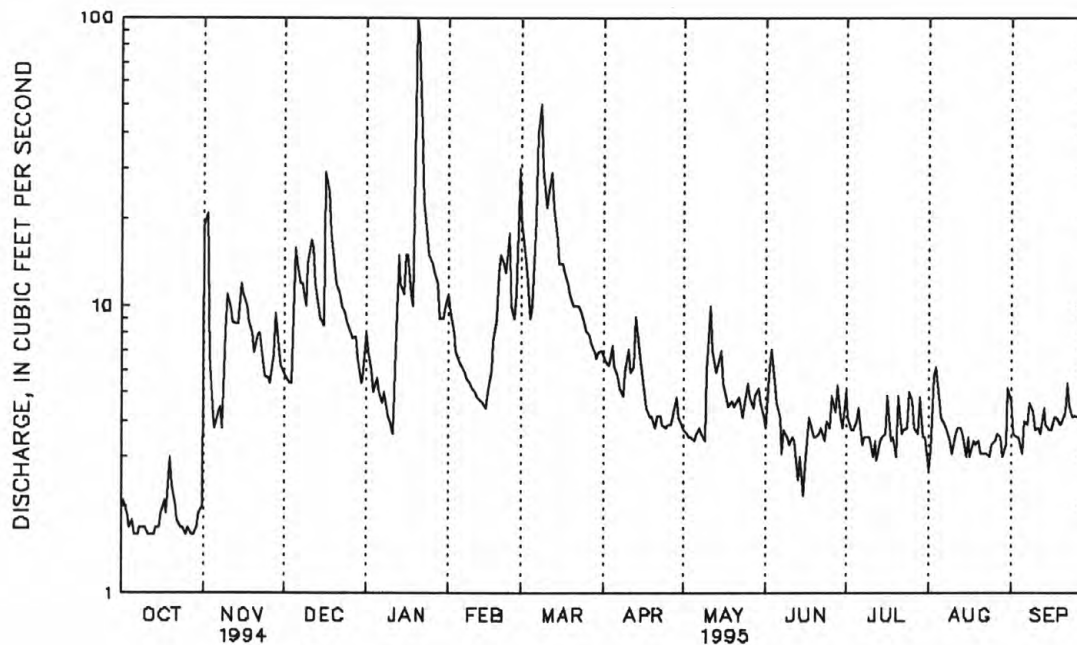
MEAN	5.98	10.4	12.4	15.8	19.0	27.7	24.9	11.7	4.23	3.59	3.64	3.05
MAX	14.7	18.8	23.1	25.0	38.9	40.7	31.7	27.1	5.12	6.31	7.43	5.33
(WY)	1990	1993	1991	1993	1990	1993	1991	1990	1990	1992	1992	1992
MIN	1.83	2.49	3.65	7.52	7.82	15.7	5.27	4.77	3.06	1.96	1.60	1.10
(WY)	1995	1992	1992	1994	1993	1995	1995	1993	1991	1993	1993	1989

STREAMS TRIBUTARY TO LAKE ONTARIO
0422026250 NORTHRUP CREEK AT NORTH GREECE, NY--Continued

111

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1989 - 1995	
ANNUAL TOTAL	4202.1		2676.9			
ANNUAL MEAN	11.5		7.33		11.8	
HIGHEST ANNUAL MEAN					15.0	1990
LOWEST ANNUAL MEAN					7.33	1995
HIGHEST DAILY MEAN	216	Feb 21	98	Jan 20	420	Apr 22 1991
LOWEST DAILY MEAN	1.3	Sep 3	1.6	a	.89	Aug 18 1989
ANNUAL SEVEN-DAY MINIMUM	1.4	Sep 1	1.6	Oct 6	1.0	Aug 18 1989
INSTANTANEOUS PEAK FLOW			201	Jan 20	573	Apr 22 1991
INSTANTANEOUS PEAK STAGE			2.53	Jan 20	3.89	Apr 22 1991
INSTANTANEOUS LOW FLOW			1.1	Jun 15	.39	Aug 19 1993
ANNUAL RUNOFF (CFSM)	.98		.63		1.01	
ANNUAL RUNOFF (INCHES)	13.36		8.51		13.76	
10 PERCENT EXCEEDS	24		14		22	
50 PERCENT EXCEEDS	5.0		4.8		5.6	
90 PERCENT EXCEEDS	1.7		3.0		2.0	

a Oct. 6, 7, 11, 12, 13, 25, 27, 28.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
0422026250 NORTHROP CREEK AT NORTH GREECE, NY--Continued
WATER-QUALITY RECORDS

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

CHEMICAL DATA: 1989-95 (e).

NUTRIENT DATA: 1989-95 (e).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1994 to September 1995

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 CURRENT PERIOD.--

WATER TEMPERATURES: Maximum, 27.0°C, July 15; minimum, 0.0°C, on many days during winter period.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	11.5	10.5	11.0	3.5	2.0	3.0	1.5	.0	.5
2	---	---	---	10.5	8.5	9.5	4.5	2.5	3.5	1.5	.0	.5
3	---	---	---	10.0	7.5	8.5	4.5	2.5	3.5	.0	.0	.0
4	---	---	---	13.5	10.0	11.5	7.0	4.5	6.0	.0	.0	.0
5	---	---	---	14.0	13.5	13.5	8.5	7.0	8.0	.0	.0	.0
6	---	---	---	14.0	11.0	13.0	8.5	6.5	8.0	.0	.0	.0
7	---	---	---	11.0	8.5	9.5	6.5	2.0	4.0	.0	.0	.0
8	---	---	---	11.0	8.0	9.5	2.0	.5	1.5	.0	.0	.0
9	---	---	---	11.5	10.5	11.0	1.5	.0	.5	.0	.0	.0
10	---	---	---	10.5	7.5	8.5	2.5	1.5	2.0	.0	.0	.0
11	---	---	---	7.5	6.0	7.0	2.0	.0	1.5	.0	.0	.0
12	---	---	---	8.5	5.0	6.5	.0	.0	.0	.0	.0	.0
13	---	---	---	9.5	8.5	9.0	.0	.0	.0	.0	.0	.0
14	---	---	---	12.5	9.5	11.0	.0	.0	.0	7.5	.0	5.0
15	---	---	---	12.5	8.5	11.0	1.0	.0	.0	9.5	7.5	8.5
16	---	---	---	8.5	7.0	8.0	2.0	1.0	1.5	7.5	5.0	6.5
17	---	---	---	7.5	5.0	6.5	2.0	1.0	2.0	5.0	3.5	4.5
18	---	---	---	10.5	7.0	8.5	3.5	2.0	2.5	5.0	3.0	4.0
19	---	---	---	10.0	7.0	8.5	3.5	3.0	3.0	5.0	3.5	4.0
20	---	---	---	7.0	5.5	6.5	3.5	3.0	3.0	5.0	4.5	5.0
21	---	---	---	9.0	6.5	7.5	3.5	2.0	3.0	5.0	4.0	4.5
22	12.5	10.0	11.5	8.5	4.0	6.5	3.0	1.5	2.5	4.0	2.0	3.0
23	12.5	10.0	11.0	4.0	1.0	2.5	3.0	1.5	2.5	2.0	1.0	1.5
24	11.5	9.5	10.5	2.5	.5	1.5	3.5	2.5	3.0	2.0	1.5	1.5
25	10.5	9.0	9.5	4.0	2.5	3.0	2.5	1.5	2.0	2.5	1.5	2.0
26	9.5	7.5	8.5	3.0	.5	2.0	2.0	.5	1.5	2.0	.5	1.0
27	9.5	7.5	8.5	1.0	.0	.5	2.5	.5	1.5	1.0	.0	.5
28	10.0	7.0	8.0	5.0	1.0	3.5	3.0	1.5	2.5	.0	.0	.0
29	11.0	8.0	9.5	4.5	4.0	4.5	3.0	.0	1.0	.0	.0	.0
30	12.5	10.0	11.0	4.5	3.5	4.0	.0	.0	.0	.0	.0	.0
31	11.5	10.5	11.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	---	---	---	14.0	.0	7.4	8.5	.0	2.4	9.5	.0	1.7

STREAMS TRIBUTARY TO LAKE ONTARIO
0422026250 NORTHROP CREEK AT NORTH GREECE, NY--Continued

113

WATER-QUALITY RECORDS

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.5	.0	1.0	.0	.0	.0	8.0	2.5	5.0	16.5	8.0	12.0
2	1.0	.0	.0	.0	.0	.0	9.0	4.0	6.0	14.5	10.0	12.0
3	.0	.0	.0	.0	.0	.0	7.5	4.5	6.0	15.5	9.5	12.5
4	.0	.0	.0	.0	.0	.0	7.0	3.0	5.5	15.5	10.0	12.5
5	.0	.0	.0	.0	.0	.0	3.0	.0	1.5	18.0	11.5	14.0
6	.0	.0	.0	1.5	.0	.0	2.5	1.0	1.5	17.0	12.0	14.0
7	.0	.0	.0	3.0	.5	2.0	6.5	2.0	3.5	16.5	10.5	13.0
8	.0	.0	.0	3.0	.0	1.5	5.5	3.0	4.0	15.5	9.5	12.5
9	.0	.0	.0	1.0	.0	.0	5.0	3.0	4.5	13.5	10.5	12.0
10	.0	.0	.0	.5	.0	.0	6.0	1.5	3.5	19.0	11.5	15.0
11	.0	.0	.0	4.0	.5	2.0	10.0	2.5	6.0	16.5	14.5	15.5
12	.0	.0	.0	7.0	1.5	4.0	10.0	9.0	9.5	15.5	13.5	14.5
13	.0	.0	.0	9.0	4.0	6.5	9.0	7.0	8.0	19.0	12.5	15.5
14	.0	.0	.0	10.0	5.5	7.5	7.5	6.0	6.5	19.5	15.0	16.5
15	.0	.0	.0	11.5	7.0	9.0	9.5	3.5	6.5	19.0	15.0	17.0
16	.0	.0	.0	12.0	8.5	10.5	10.5	4.5	7.0	19.0	14.0	16.5
17	.0	.0	.0	10.5	5.5	8.0	10.0	5.5	8.0	17.0	15.0	16.0
18	.0	.0	.0	8.0	4.0	5.5	9.0	5.5	7.5	15.0	13.0	14.0
19	.0	.0	.0	7.0	4.0	6.0	14.5	9.0	11.0	17.5	12.0	14.5
20	.0	.0	.0	11.0	7.0	9.0	12.5	8.5	10.5	18.5	13.0	15.5
21	.0	.0	.0	10.0	7.5	9.5	13.5	8.5	11.0	19.0	15.0	16.5
22	.0	.0	.0	7.5	6.0	7.0	12.0	8.0	10.0	19.0	13.5	16.0
23	.0	.0	.0	7.0	5.0	6.0	12.0	6.0	9.0	20.0	13.5	16.5
24	.0	.0	.0	7.0	3.5	5.0	13.0	7.0	9.5	17.5	14.5	16.5
25	.0	.0	.0	7.5	3.0	5.0	12.5	7.0	9.5	16.0	14.0	15.0
26	.0	.0	.0	9.0	4.0	6.5	12.5	9.0	10.5	19.0	14.5	16.5
27	.0	.0	.0	9.0	4.5	6.5	14.5	9.0	11.0	19.0	14.5	16.5
28	---	---	---	9.5	4.5	7.0	13.0	9.5	11.0	16.0	14.5	15.5
29	---	---	---	10.0	4.5	7.0	12.0	9.0	10.5	19.0	14.5	16.5
30	---	---	---	8.5	6.0	7.5	13.0	7.5	10.0	20.0	15.5	17.5
31	---	---	---	6.5	4.5	5.5	---	---	---	21.0	16.5	18.5
MONTH	---	---	---	12.0	.0	4.6	14.5	.0	7.4	21.0	8.0	15.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	20.0	17.5	18.5	23.0	21.0	21.5	25.5	21.5	23.5	21.0	19.0	20.0
2	20.0	18.0	19.0	21.0	18.0	19.0	24.0	21.5	22.5	19.0	17.5	18.0
3	21.5	19.0	19.5	20.0	16.5	18.0	23.5	21.0	22.0	18.5	16.0	17.0
4	21.0	18.0	19.0	21.5	17.0	19.0	24.0	23.0	23.5	20.0	17.5	18.5
5	20.5	16.5	18.5	23.5	21.0	22.0	23.5	22.5	23.0	20.5	17.5	19.0
6	22.5	18.0	20.0	24.0	22.0	23.0	22.5	21.5	22.0	21.5	19.0	20.0
7	25.0	19.5	21.5	23.0	21.0	22.0	22.5	20.0	21.0	20.5	18.0	20.0
8	22.0	15.0	17.5	21.0	17.5	19.0	23.0	20.0	21.0	18.0	16.5	17.0
9	18.5	13.5	15.5	18.5	17.0	17.5	22.5	19.0	20.5	17.5	16.0	16.5
10	19.0	15.0	16.5	21.0	17.5	19.0	23.0	20.0	21.5	16.0	13.5	15.0
11	21.0	18.0	19.0	22.5	19.0	20.0	24.0	22.0	22.5	15.0	12.0	13.5
12	19.0	16.5	17.5	22.0	19.0	20.5	24.5	22.5	23.5	17.5	14.0	15.5
13	20.5	15.0	17.0	25.0	19.5	22.0	23.0	20.5	22.0	20.5	17.5	19.0
14	21.0	16.5	18.0	26.5	22.0	24.0	23.5	21.0	22.5	20.0	17.0	18.5
15	21.0	15.5	17.5	27.0	24.5	25.5	26.5	23.0	24.5	17.0	14.0	15.5
16	20.5	15.0	17.5	25.0	23.5	24.0	25.0	23.0	24.0	16.5	13.5	15.0
17	21.0	16.5	18.5	25.5	23.0	24.0	24.0	21.0	22.5	17.0	16.0	16.5
18	23.5	19.5	21.0	24.0	22.0	23.0	24.5	21.5	23.0	16.0	13.5	15.0
19	26.5	21.0	23.0	23.5	20.5	21.5	24.5	21.5	23.0	14.5	12.0	13.0
20	25.5	21.5	23.5	22.0	20.5	21.5	25.0	22.5	23.5	15.5	14.0	14.5
21	23.0	19.5	21.0	23.0	21.0	21.5	24.5	23.0	23.5	16.5	15.5	16.0
22	23.0	19.0	21.0	23.5	19.5	21.5	23.0	20.0	21.0	16.0	14.0	15.5
23	24.0	20.5	22.0	24.0	22.5	23.0	21.0	18.5	19.5	14.0	11.5	12.5
24	23.5	20.5	21.5	23.0	21.5	22.0	21.0	19.0	20.5	12.5	10.5	11.5
25	24.0	21.0	22.0	24.0	21.0	22.5	19.0	17.0	18.0	13.5	11.0	12.0
26	24.0	22.0	22.5	25.0	23.0	24.0	19.5	17.0	18.0	14.5	12.5	13.5
27	22.5	21.0	22.0	24.5	22.5	23.5	20.0	18.0	19.0	15.5	13.5	14.5
28	22.0	19.5	21.0	25.5	22.0	23.5	19.5	16.5	18.0	15.0	12.5	14.0
29	23.0	20.5	21.5	26.0	23.5	24.5	21.5	18.0	19.5	14.0	11.0	12.5
30	23.0	21.5	22.0	24.5	21.5	23.0	20.0	18.5	19.0	16.0	13.5	14.5
31	---	---	---	24.5	20.5	22.5	21.5	18.0	19.5	---	---	---
MONTH	26.5	13.5	19.8	27.0	16.5	21.9	26.5	16.5	21.5	21.5	10.5	15.8

STREAMS TRIBUTARY TO LAKE ONTARIO
0422026250 NORTHRUP CREEK AT NORTH GREECE, NY--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	RESIDUE VOLATILE, SUS- PENDE (MG/L)
OCT							
19-19	1000	1800	3.0	4.9	642	--	--
19-20	1900	0900	2.7	3.2	640	--	--
20-22	0955	0055	2.1	1.9	614	--	--
OCT 31-							
NOV 02	2255	0655	21	60	493	207	53
02-03	0755	0855	13	38	614	100	18
03-07	0945	0845	4.4	3.2	--	--	--
07-08	1045	1845	3.7	3.6	750	--	--
08-10	1945	0845	8.7	6.7	706	--	--
27-28	0840	0840	7.2	15	700	--	--
DEC							
04-05	1645	0745	5.7	3.6	682	--	--
05-05	1025	2125	24	65	514	206	35
05-08	2225	0925	13	20	720	--	--
08-09	0940	1640	9.9	5.3	911	--	--
09-12	1740	0840	15	16	928	--	--
12-15	1025	0925	10	7.1	964	--	--
15-16	0950	1250	8.9	5.5	846	--	--
16-18	1350	0050	30	27	771	--	--
18-19	0150	0850	23	17	772	--	--
19-23	0955	0755	13	4.3	820	--	--
23-27	0845	0745	8.8	3.3	--	--	--
JAN							
03...	0945	--	6.0	3.0	827	--	--
15-17	2225	0825	15	63	826	--	--
17-19	0905	0920	12	3.2	845	--	--
20-20	0535	2035	117	240	556	>667	139
20-23	2135	0835	64	45	566	168	25
23-26	0945	0845	17	8.3	746	--	--
FEB							
09-13	1045	0845	5.0	4.0	--	--	--
19-21	0925	0825	12	5.7	1070	--	--
21-23	1025	0825	17	5.4	1010	--	--
23-24	0920	0620	14	4.3	927	--	--
24-25	0720	0820	15	3.5	974	--	--
27-28	1005	1505	16	6.0	1220	--	--
FEB 28-							
MAR 02	1605	0905	20	5.8	1250	--	--
05-06	1325	0525	13	18	990	--	--
06-08	0925	0025	32	70	642	284	28
08-09	0325	0825	44	60	665	280	27
09-13	0950	0850	28	12	852	--	--
13-16	0935	0835	16	3.5	766	--	--
16-20	0925	0825	12	2.0	810	--	--
APR							
12-13	1240	0840	8.1	2.5	886	--	--
13-17	0915	0815	6.3	1.8	885	--	--
27-28	0910	2010	4.6	2.0	808	--	--
APR 28-							
MAY 01	2110	0710	4.2	1.0	840	--	--
08-09	0950	2350	3.5	2.8	693	--	--
10-11	0050	0850	7.3	14	657	--	--
22-23	0945	2045	4.4	3.7	--	--	--
23-25	2245	0445	4.7	4.4	--	--	--
25-26	0545	0845	5.2	5.8	--	--	--
28-29	1015	0115	4.9	2.3	577	--	--
29-30	0215	0915	5.0	2.6	587	--	--
JUN							
02-03	1005	0505	8.0	21	599	--	--
03-05	0605	0905	5.6	16	630	--	--
25-26	1735	0835	4.6	4.7	462	--	--
26-28	1110	0110	4.3	3.8	--	--	--
28-28	0210	1410	5.6	6.0	--	--	--
28-29	1715	0910	4.5	6.7	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

115

0422026250 NORTHRUP CREEK AT NORTH GREECE, NY--Continued
 WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- ORTHO, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT							
19-19	<0.01	0.80	2.0	0.780	0.725	77	56
19-20	<0.01	1.1	1.8	0.800	0.760	78	57
20-22	<0.01	0.76	1.4	0.780	0.740	70	52
OCT 31-							
NOV 02	<0.01	0.65	1.0	1.10	0.480	58	51
02-03	0.09	0.90	0.74	0.570	0.250	71	71
03-07	0.05	0.0	1.3	0.440	0.380	93	68
07-08	0.01	0.87	1.4	0.490	0.480	92	68
08-10	0.02	0.80	1.3	0.450	0.430	82	72
27-28	1.00	1.8	1.8	0.500	0.250	79	69
DEC							
04-05	0.24	0.98	1.8	0.210	0.160	83	62
05-05	0.19	0.92	1.3	0.630	0.165	66	46
05-08	0.21	1.0	1.3	0.335	0.180	96	60
08-09	0.21	0.93	1.5	0.200	0.140	150	68
09-12	0.12	1.1	1.5	0.270	0.140	160	66
12-15	0.36	2.0	2.0	0.260	0.175	140	66
15-16	0.19	1.0	2.2	0.260	0.195	120	65
16-18	0.12	0.64	1.8	0.320	0.165	110	57
18-19	0.12	0.70	1.7	0.230	0.115	110	58
19-23	0.06	1.0	2.0	0.170	0.140	110	65
23-27	0.05	0.80	2.0	0.220	0.165	100	68
JAN							
03...	0.49	1.1	2.0	0.290	0.245	100	71
15-17	0.12	1.2	1.7	0.220	0.155	120	68
17-19	0.07	1.0	1.7	0.215	0.155	120	68
20-20	0.04	1.3	1.3	1.85	0.100	71	45
20-23	0.03	1.6	1.4	0.400	0.070	70	46
23-26	0.06	0.80	1.9	0.160	0.088	100	56
FEB							
09-13	0.15	0.97	3.0	0.220	0.175	97	76
19-21	0.13	1.0	2.2	0.170	0.120	180	66
21-23	0.05	1.1	1.9	0.160	0.094	160	64
23-24	0.00	0.80	2.1	0.140	0.096	140	64
24-25	0.00	1.0	1.9	0.130	0.083	150	64
27-28	0.10	0.89	2.2	0.150	0.094	230	60
FEB 28-							
MAR 02	0.06	0.89	1.8	0.130	0.076	240	56
05-06	0.04	1.0	2.1	0.220	0.082	160	57
06-08	0.08	1.0	1.3	0.420	0.050	100	38
08-09	0.05	0.98	1.3	0.370	0.057	100	40
09-13	0.02	1.1	1.7	0.130	0.051	150	50
13-16	<0.01	0.74	1.5	0.075	0.031	120	50
16-20	<0.01	0.89	1.6	0.100	0.038	130	53
APR							
12-13	<0.01	1.1	2.2	0.220	0.170	120	55
13-17	<0.01	0.94	2.0	0.190	0.150	130	55
27-28	0.01	1.4	2.9	0.370	0.340	110	52
APR 28-							
MAY 01	<0.01	1.4	3.0	0.400	0.340	110	53
08-09	0.01	1.0	2.7	0.520	<0.002	85	63
10-11	0.03	0.92	2.3	<0.002	0.405	82	53
22-23	0.15	0.0	2.8	0.750	0.660	100	57
23-25	0.11	0.0	2.9	0.810	0.715	98	56
25-26	0.07	0.0	2.9	0.800	0.675	88	55
28-29	0.11	1.4	1.8	0.660	0.535	73	45
29-30	0.07	1.2	2.6	0.770	0.650	72	47
JUN							
02-03	0.08	1.0	3.9	0.970	0.650	74	51
03-05	0.07	0.81	3.2	0.850	0.600	82	50
25-26	<0.01	0.79	0.26	0.790	0.570	44	45
26-28	0.04	0.74	0.77	0.840	0.685	45	42
28-28	0.01	0.70	1.3	0.830	0.700	44	46
28-29	1.10	1.2	1.1	0.700	0.580	41	42

STREAMS TRIBUTARY TO LAKE ONTARIO
0422026250 NORTHRUP CREEK AT NORTH GREECE, NY--Continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	RESIDUE VOLA- TILE, SUS- PENDED (MG/L)
JUN 29-							
JUL 03	0945	0845	4.2	4.3	462	--	--
16-17	1705	0805	3.9	7.5	440	--	--
17-19	0910	0210	4.0	10	417	--	--
19-20	0310	0810	3.4	6.8	437	--	--
20-24	0920	0820	3.8	7.1	429	--	--
25-26	1625	0325	6.9	16	442	--	--
26-27	0425	0725	4.4	12	413	--	--
27-31	0800	0700	3.9	7.4	451	--	--
AUG							
03-04	0855	0355	7.4	32	415	92	17
04-07	0055	0755	4.8	12	500	--	--
24-28	0945	0815	3.3	5.8	418	--	--
AUG 31-							
SEP 01	1250	0750	6.9	80	359	--	--

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
JUN 29-							
JUL 03	0.03	1.4	1.4	0.720	0.049	47	45
16-17	<0.01	0.84	0.60	0.770	<0.002	40	46
17-19	0.01	1.0	1.1	0.660	<0.002	41	44
19-20	0.01	1.2	1.2	0.710	<0.002	42	44
20-24	0.21	1.0	1.3	0.670	<0.002	40	44
25-26	0.16	1.1	2.0	0.660	0.210	41	46
26-27	0.02	0.78	1.7	0.580	0.190	41	42
27-31	0.02	1.2	1.5	0.600	<0.002	45	50
AUG							
03-04	<0.01	0.60	1.5	0.750	0.460	39	45
04-07	0.01	0.59	1.4	0.510	0.400	52	61
24-28	0.01	0.50	1.7	0.340	0.270	36	48
AUG 31-							
SEP 01	0.04	1.0	1.9	0.610	0.230	31	42

STREAMS TRIBUTARY TO LAKE ONTARIO

117

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 mi².

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 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 20	1600	*5,710	*9.29	No other peak greater than base discharge.			

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	131	1540	571	202	341	e450	223	191	111	54	27	17
2	224	1970	506	200	e310	e320	209	180	104	54	26	17
3	121	736	453	e130	e230	e260	192	169	160	45	24	16
4	100	534	409	e120	e220	e250	485	156	122	40	26	15
5	91	441	1150	e110	e200	e250	385	150	99	42	66	14
6	86	395	876	e105	e170	324	333	141	87	43	63	14
7	80	417	1160	e100	e160	798	354	132	82	52	41	13
8	74	345	1010	e95	e155	1390	591	121	134	48	33	14
9	72	331	777	e95	e150	e900	1250	115	100	42	29	16
10	72	727	787	e90	e145	e700	1350	114	83	38	27	18
11	66	470	735	e90	e140	e740	1010	187	85	46	27	17
12	61	406	563	e150	e135	1000	934	195	88	40	54	14
13	61	380	e460	e300	e130	982	1080	153	94	32	36	15
14	61	348	e430	335	e160	816	919	145	74	30	30	28
15	59	322	420	425	e170	741	754	277	66	29	30	30
16	56	290	391	594	e180	679	625	184	58	27	43	21
17	56	265	383	424	e155	603	545	167	53	32	29	18
18	55	243	401	368	128	521	491	184	50	51	24	17
19	56	228	390	356	135	462	589	196	48	37	22	17
20	56	208	346	3170	e150	421	473	184	46	30	22	17
21	56	467	314	2860	e190	470	423	157	44	31	20	18
22	56	510	305	1500	e170	473	407	143	52	31	17	24
23	56	356	301	1060	e165	421	362	131	48	31	17	32
24	53	331	293	850	e280	360	327	136	46	36	16	28
25	51	331	285	706	e200	309	299	223	43	35	16	23
26	51	333	257	604	e180	291	273	162	43	30	15	20
27	51	281	228	529	e160	271	251	138	48	55	15	20
28	51	1210	228	e450	e300	258	244	123	60	70	15	18
29	49	954	e215	e380	---	238	223	177	50	43	16	17
30	46	647	e160	e380	---	238	201	168	48	35	15	17
31	63	---	e200	e370	---	239	---	131	---	30	15	---
TOTAL	2221	16016	15004	17148	5209	16175	15802	5030	2226	1239	856	565
MEAN	71.6	534	484	553	186	522	527	162	74.2	40.0	27.6	18.8
MAX	224	1970	1160	3170	341	1390	1350	277	160	70	66	32
MIN	46	208	160	90	128	238	192	114	43	27	15	13
CFSM	.25	1.85	1.68	1.92	.65	1.81	1.83	.56	.26	.14	.10	.07
IN.	.29	2.07	1.94	2.21	.67	2.09	2.04	.65	.29	.16	.11	.07

e Estimated

STREAMS TRIBUTARY TO LAKE ONTARIO
04221000 GENESEE RIVER AT WELLSVILLE, NY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1995, BY WATER YEAR (WY)

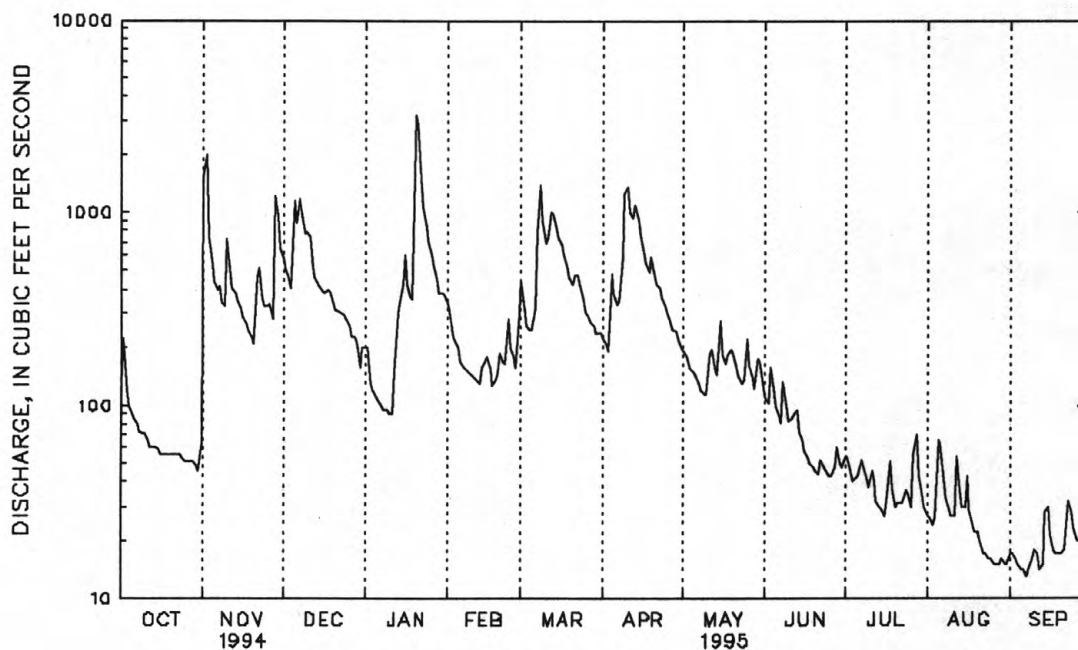
MEAN	226	343	465	341	450	777	870	442	282	163	128	177
MAX	784	773	1016	919	1443	1689	1925	1115	1262	656	666	1246
(WY)	1991	1993	1973	1979	1976	1956	1958	1989	1989	1977	1994	1977
MIN	25.0	37.3	104	52.1	94.4	320	361	113	45.3	27.5	25.0	18.8
(WY)	1958	1958	1990	1981	1958	1981	1976	1985	1991	1993	1957	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1955 - 1958 1973 - 1995
--------------------	------------------------	---------------------	--

ANNUAL TOTAL	182707	97491	
ANNUAL MEAN	501	267	388
HIGHEST ANNUAL MEAN			564
LOWEST ANNUAL MEAN			261
HIGHEST DAILY MEAN	4870	Jun 14	3170
LOWEST DAILY MEAN	39	Aug 11	13
ANNUAL SEVEN-DAY MINIMUM	46	Aug 6	15
INSTANTANEOUS PEAK FLOW		5710	Jan 20
INSTANTANEOUS PEAK STAGE		9.29	Jan 20
ANNUAL RUNOFF (CFSM)	1.74	.93	13.60
ANNUAL RUNOFF (INCHES)	23.60	12.59	1.35
10 PERCENT EXCEEDS	1360	660	18.30
50 PERCENT EXCEEDS	265	153	878
90 PERCENT EXCEEDS	64	22	205
			41

a Sep. 2, 3, 1991.

b Mar. 8, 1956, from graph based on stage readings, and Oct. 28, 1981.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO

119

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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Nov. 2	0715	15,500	15.74	Jan. 20	2300	*17,400	*16.37

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	545	5440	1540	936	e1000	2330	667	463	304	400	e120	e60
2	1200	10700	1460	1040	e850	1600	619	441	285	253	e115	e65
3	774	3350	1480	846	e660	1070	573	420	323	208	e110	e60
4	456	1890	1280	e750	e650	e920	766	399	345	e170	e120	e60
5	392	1430	2920	e650	e620	908	1280	377	298	e155	e200	e55
6	388	1200	3940	e600	e590	1260	904	357	265	e160	283	e55
7	313	1540	3400	e580	e560	3300	892	340	244	e180	243	e55
8	268	1240	3770	e560	e540	6020	888	323	234	e160	188	e55
9	246	1030	2400	e560	e520	3240	2050	311	266	e155	e120	e55
10	242	1610	2870	e540	e500	e1950	3320	329	252	e150	e110	e60
11	234	1580	2810	e520	e470	e1800	2300	470	287	e160	e110	e55
12	218	1370	2070	e500	e450	2870	2710	549	271	e150	e620	e55
13	208	1210	e1350	e700	e440	3410	2990	463	248	e135	443	e58
14	205	1130	e1300	e2000	e460	2500	2600	397	241	e130	273	e80
15	401	1060	1260	2400	e480	2000	2070	460	215	e125	218	e105
16	829	920	1170	2850	e460	1780	1590	541	e195	e120	e180	e80
17	826	694	1200	2200	e430	1600	1320	421	e190	e160	e160	e70
18	821	717	1550	1560	e400	1370	1160	393	e180	e150	e130	e70
19	637	842	1400	1340	e390	1200	1140	400	e170	e140	e110	e70
20	216	805	1240	7640	e420	1110	1200	395	e165	e130	e100	e75
21	330	851	1090	11700	e450	1180	1010	363	e160	e130	e90	e95
22	659	1580	1030	5210	e410	1430	995	323	e180	e130	e80	e105
23	589	1140	1120	3290	e430	1330	901	302	e170	e135	e70	e120
24	429	843	1350	2500	e900	1150	801	301	e160	e260	e60	e110
25	391	889	1290	2020	e800	980	727	364	e170	320	e60	e90
26	464	1140	1160	1750	e700	864	666	420	e180	197	e60	e85
27	628	1030	1040	1500	e650	787	618	346	e200	e160	e60	e80
28	522	2500	1050	e1300	e1100	729	578	315	e180	e150	e60	e75
29	418	3890	1020	e1050	---	674	541	327	e170	e370	e60	e70
30	418	2040	e750	e900	---	660	491	394	271	295	e60	e65
31	432	---	e800	e950	---	684	---	351	---	e180	e60	---
TOTAL	14699	55661	52110	60942	16330	52706	38367	12055	6819	5718	4673	2193
MEAN	474	1855	1681	1966	583	1700	1279	389	227	184	151	73.1
MAX	1200	10700	3940	11700	1100	6020	3320	549	345	400	620	120
MIN	205	694	750	500	390	660	491	301	160	120	60	55

e Estimated

STREAMS TRIBUTARY TO LAKE ONTARIO
04223000 GENESEE RIVER AT PORTAGEVILLE, NY--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 1995, BY WATER YEAR (WY)

MEAN	624	1064	1334	1367	1436	2923	2794	1494	884	443	324	413
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

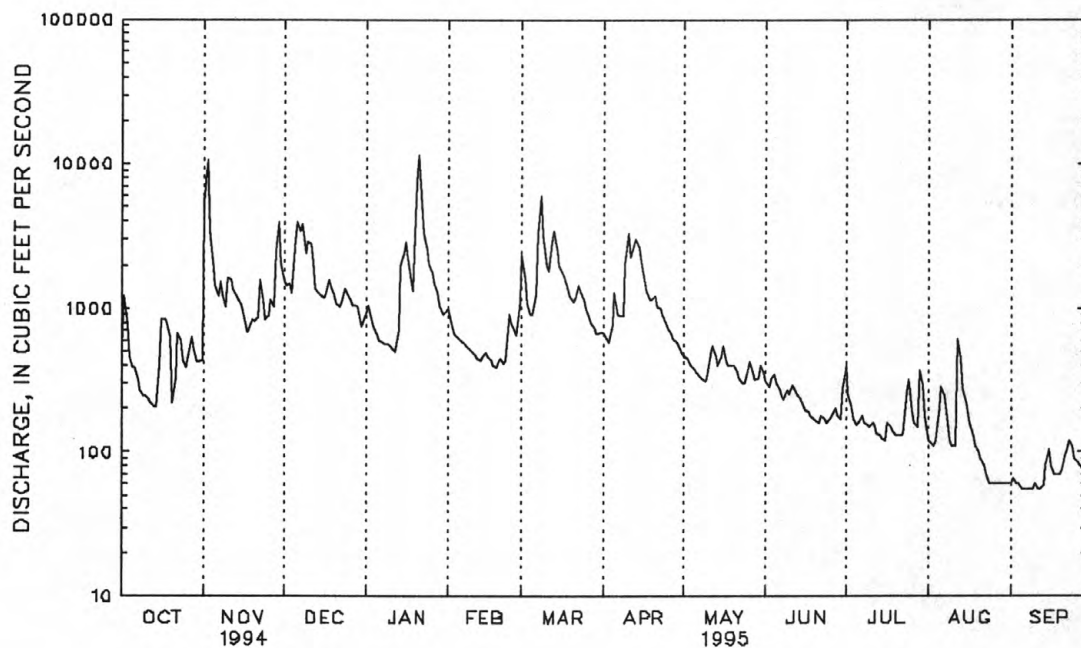
FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1908 - 1995

ANNUAL TOTAL	539262		322273									
ANNUAL MEAN	1477		883							1257		
HIGHEST ANNUAL MEAN										2038		1916
LOWEST ANNUAL MEAN										766		1962
HIGHEST DAILY MEAN	17800	Mar 25	11700	Jan 21						72000	Jun 23	1972
LOWEST DAILY MEAN	170	Sep 23	55	c						20	Oct 5	1913
ANNUAL SEVEN-DAY MINIMUM	181	Sep 19	56	Sep 5						34	Jul 25	1934
INSTANTANEOUS PEAK FLOW			17400	Jan 20						a900000	Jun 23	1972
INSTANTANEOUS PEAK STAGE			16.37	Jan 20						b35.25	Jun 23	1972
INSTANTANEOUS LOW FLOW			55	c						18	d	
10 PERCENT EXCEEDS	3760		2030							2890		
50 PERCENT EXCEEDS	805		480							600		
90 PERCENT EXCEEDS	238		93							132		

- a About, from rating curve extended above 25,000 ft³/s on basis of contracted-opening measurement of 71,000 ft³/s, at highway bridge 0.4 mi upstream and contracted-opening measurement of 98,200 ft³/s, 0.7 mi downstream from gage.
- b From high-water mark, site and datum then in use.
- c Sep. 5, 6, 7, 8, 9, 11, 12.
- d Oct. 5, 17, 1913.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO

121

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 mi².

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, 654.55 ft, Jan. 23, 24, contents, 68,020 acre-ft; minimum, 584.87 ft, Sep. 7, contents 586 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	589.55	599.27	611.64	592.38	600.61	605.55	591.21	587.73	586.59	597.89	589.30	587.24
2	592.63	631.38	605.82	593.08	592.44	604.37	590.61	587.55	586.37	592.91	588.76	587.10
3	592.16	640.36	598.13	592.12	590.84	593.80	589.92	587.40	586.43	591.04	588.45	587.06
4	589.42	640.12	594.85	591.15	590.95	592.50	590.49	587.34	586.74	590.23	588.29	587.04
5	588.66	637.63	597.10	589.76	590.18	592.61	597.62	587.24	586.50	589.92	588.51	587.03
6	588.64	634.44	614.39	589.24	587.84	593.31	593.76	587.11	586.34	590.52	591.08	586.66
7	588.19	631.18	617.10	590.59	588.38	603.86	593.26	587.07	586.28	590.68	591.10	585.33
8	587.71	626.67	620.54	590.45	589.68	620.70	593.45	587.04	586.25	590.00	590.14	585.05
9	587.50	621.80	621.07	590.37	589.81	626.85	597.67	587.03	586.25	589.72	589.33	585.08
10	587.37	616.30	620.10	592.66	590.05	624.94	608.43	586.94	586.50	589.56	588.84	585.07
11	589.46	612.39	620.13	599.97	590.44	620.89	610.41	587.31	587.22	589.48	588.50	585.08
12	597.19	606.61	619.48	593.07	589.79	618.44	609.98	588.57	586.64	589.51	589.87	585.06
13	593.73	596.44	615.58	600.15	589.13	619.01	610.83	587.82	586.62	589.15	596.78	585.09
14	590.40	594.01	609.29	611.49	589.32	618.79	611.84	587.18	586.56	589.15	591.97	585.54
15	587.36	593.45	599.70	613.94	589.22	616.07	611.69	587.07	586.46	589.15	590.74	585.63
16	591.00	592.83	594.06	615.78	589.39	611.73	604.75	588.91	586.39	588.79	589.92	585.55
17	591.30	591.13	593.92	617.89	589.74	605.77	594.91	587.38	586.33	589.05	589.59	585.51
18	591.28	590.79	595.14	616.90	590.30	595.90	593.82	587.06	586.30	588.78	589.37	585.61
19	591.12	591.91	594.98	614.35	590.93	594.21	593.74	587.00	586.27	588.28	588.88	585.59
20	587.79	591.72	594.51	616.19	591.96	593.69	593.90	587.00	586.25	588.29	588.48	585.52
21	587.12	591.59	593.83	641.46	592.56	593.77	593.29	586.87	586.25	588.39	588.21	585.51
22	589.90	596.63	593.38	651.46	594.16	595.19	593.00	586.53	586.23	588.22	587.97	585.62
23	590.28	594.13	593.38	654.32	592.69	594.94	592.47	586.38	586.20	588.23	587.73	585.79
24	588.94	591.94	594.24	654.55	593.41	594.19	591.40	586.37	586.17	588.90	587.53	585.80
25	588.49	591.60	594.03	652.76	595.12	593.64	590.48	586.41	586.27	593.85	586.86	585.75
26	588.43	593.45	593.78	649.35	593.52	592.72	589.83	587.13	588.37	591.16	585.95	585.79
27	589.92	593.18	593.31	644.86	592.73	592.05	589.39	586.86	592.76	590.01	586.48	585.72
28	590.00	595.49	593.35	638.99	595.60	591.47	588.99	586.55	591.60	589.59	587.28	585.62
29	588.45	613.35	593.67	632.21	---	591.10	588.53	586.54	590.52	590.97	587.26	585.53
30	588.59	615.26	592.63	623.76	---	590.82	588.00	586.90	590.39	593.18	587.33	585.50
31	588.60	---	592.03	613.86	---	591.15	---	587.09	---	590.40	587.27	---
MEAN	589.72	607.23	602.10	615.13	591.46	602.39	596.26	587.14	587.13	590.16	588.96	585.78
MAX	597.19	640.36	621.07	654.55	600.61	626.85	611.84	588.91	592.76	597.89	596.78	587.24
MIN	587.12	590.79	592.03	589.24	587.84	590.82	588.00	586.37	586.17	588.22	585.95	585.05

CAL YR 1994 MEAN 612.31 MAX 700.00 MIN 585.73

WTR YR 1995 MEAN 595.33 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 mi².

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 1,000 ft³/s and maximum (*):

Discharge				Gage Height			
Date	Time	(ft ³ /s)	(ft)	Date	Time	(ft ³ /s)	(ft)
Nov. 2	0415	1,720	3.29	Jan. 20	1315	*2,220	*3.81

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	477	80	56	77	159	55	40	19	e55	9.3	e6.8
2	46	1020	66	63	70	106	51	38	19	e38	8.9	e6.8
3	29	252	56	e40	55	73	48	37	22	e25	8.8	e6.7
4	24	138	52	e35	e60	68	89	35	20	e17	8.6	e6.7
5	22	93	263	e30	58	67	74	33	e18	e18	18	e6.7
6	22	71	225	e29	e58	144	57	32	e17	e24	21	e6.7
7	21	69	230	e28	e56	374	60	31	e16	e22	13	e6.7
8	20	51	185	e29	e54	555	60	29	e15	e18	11	e6.7
9	20	50	135	e30	e52	327	100	29	e16	e16	9.6	e7.2
10	20	83	205	e31	e50	228	114	32	e17	e14	9.1	e6.9
11	21	58	198	e32	e50	234	134	52	21	e12	9.1	e6.8
12	19	50	125	e50	e50	371	203	44	20	e11	30	e6.8
13	18	48	97	143	e48	364	249	37	18	8.9	29	e7.0
14	17	45	99	120	e48	294	234	36	e16	10	18	e6.9
15	18	44	85	117	e46	231	172	48	e15	9.3	15	e6.8
16	16	42	76	147	e46	195	125	40	e14	9.0	13	e6.8
17	17	41	86	108	e44	163	99	35	e13	8.7	12	e6.9
18	17	40	109	82	42	135	85	34	e13	8.6	10	e7.0
19	18	41	105	71	43	114	87	32	e13	8.0	9.4	e6.9
20	16	40	92	992	60	104	81	30	e12	7.9	8.7	e6.8
21	17	56	81	929	95	118	73	27	e12	8.1	e8.0	e7.0
22	17	e74	82	450	65	125	80	25	e12	8.0	e7.7	e7.2
23	17	e45	85	293	60	124	69	24	e11	8.3	e7.5	e7.0
24	16	40	85	226	152	100	62	25	e11	16	e7.2	e6.8
25	18	41	75	181	69	83	56	31	e11	26	e6.9	e6.8
26	18	48	64	146	56	76	53	27	e60	14	e6.7	e6.6
27	18	43	55	118	55	69	49	24	e45	12	e6.9	e6.6
28	19	217	58	101	199	64	48	23	e32	11	e7.1	e6.7
29	19	189	55	92	---	59	44	24	e20	13	e7.1	e6.8
30	18	106	40	104	---	60	41	23	e30	12	e6.9	e6.8
31	23	---	56	103	---	59	---	20	---	10	e6.8	---
TOTAL	632	3612	3305	4976	1818	5243	2752	997	578	478.8	350.3	204.9
MEAN	20.4	120	107	161	64.9	169	91.7	32.2	19.3	15.4	11.3	6.83
MAX	46	1020	263	992	199	555	249	52	60	55	30	7.2
MIN	16	40	40	28	42	59	41	20	11	7.9	6.7	6.6
CFSM	.23	1.35	1.20	1.81	.73	1.90	1.03	.36	.22	.17	.13	.08
IN.	.26	1.51	1.38	2.08	.76	2.19	1.15	.42	.24	.20	.15	.09

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1995, BY WATER YEAR (WY)

MEAN	53.7	88.8	111	91.3	132	207	207	109	68.5	37.8	31.0	44.0
MAX	175	194	252	217	432	419	519	292	270	128	77.1	331
(WY)	1991	1993	1978	1975	1976	1979	1993	1984	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

STREAMS TRIBUTARY TO LAKE ONTARIO
04224775 CANASERAGA CREEK ABOVE DANSVILLE, NY--Continued

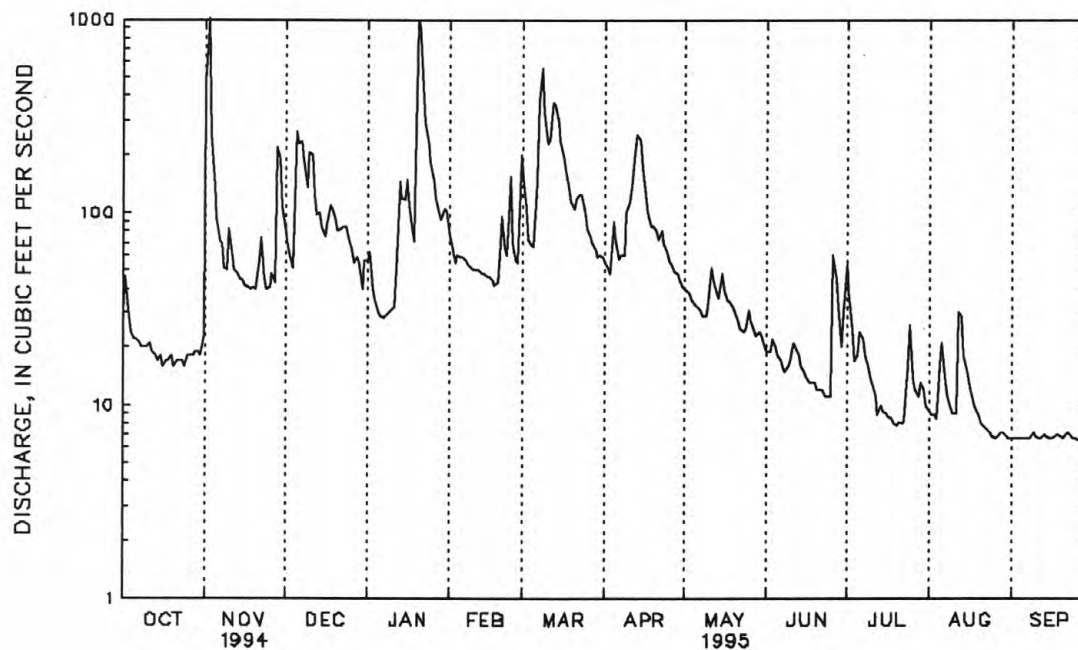
123

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1974 - 1995	
ANNUAL TOTAL	40558		24947.0		97.7	
ANNUAL MEAN	111		68.3		135	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					1985	
HIGHEST DAILY MEAN	1100	Mar 24	1020	Nov 2	1980	Sep 20 1977
LOWEST DAILY MEAN	14	a	6.6	b	6.6	Sep 26 1995
ANNUAL SEVEN-DAY MINIMUM	14	Aug 6	6.7	Sep 2	6.7	Sep 2 1995
INSTANTANEOUS PEAK FLOW			2220	Jan 20	c4050	Jun 20 1989
INSTANTANEOUS PEAK STAGE			3.81	Jan 20	5.70	Jun 20 1989
ANNUAL RUNOFF (CFSM)	1.25		.77		1.10	
ANNUAL RUNOFF (INCHES)	16.97		10.44		14.94	
10 PERCENT EXCEEDS	256		146		217	
50 PERCENT EXCEEDS	48		38		52	
90 PERCENT EXCEEDS	17		7.2		13	

a Aug. 8-12, Sept. 21, 22, 25.

b Sept. 26, 27.

c From rating curve extended above 1,400 ft³/s.



DAILY MEAN DISCHARGE FOR — 1995 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 mi².

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 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 20	1830	*3,260	*10.42	No other peak greater than base discharge			

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	77	474	204	179	324	542	181	135	65	334	40	33
2	110	1950	182	198	263	350	173	131	62	179	37	30
3	83	761	165	137	e170	235	165	126	79	100	36	28
4	65	355	151	118	e180	232	186	122	76	69	38	28
5	56	236	404	89	e160	227	216	119	65	79	40	28
6	54	175	650	e80	e150	319	178	117	59	150	87	29
7	50	163	525	e78	e160	729	182	113	54	137	54	26
8	47	131	504	e76	e160	1320	183	105	50	74	41	26
9	45	106	350	e78	e155	872	232	100	53	72	36	28
10	45	170	524	e82	e150	545	297	113	57	56	33	30
11	45	143	597	e110	e145	625	260	162	111	50	32	28
12	45	128	388	e130	e140	1000	380	158	71	49	100	26
13	53	129	253	e450	e140	992	466	130	59	41	149	26
14	45	122	293	431	e135	700	421	121	50	47	71	31
15	43	112	269	375	e140	579	380	133	47	43	55	28
16	43	106	234	451	157	480	305	129	45	43	46	26
17	43	101	284	410	145	420	272	114	44	46	41	26
18	44	96	403	330	143	363	243	110	43	40	36	32
19	45	93	361	290	164	319	238	105	42	35	33	28
20	48	90	338	1760	209	299	231	99	41	32	31	27
21	46	102	305	2780	297	307	215	99	39	32	30	28
22	47	202	279	1760	209	336	218	85	38	34	28	32
23	45	165	246	1200	217	328	197	80	38	35	27	42
24	45	150	242	796	363	289	180	81	39	76	27	33
25	46	121	227	576	248	284	169	100	85	209	26	29
26	46	134	210	445	217	262	160	93	401	113	26	29
27	46	116	179	344	198	243	156	84	224	67	26	27
28	45	273	187	245	701	212	157	78	154	54	28	26
29	45	526	175	241	---	190	146	84	98	78	27	26
30	46	270	103	264	---	190	138	79	253	64	27	25
31	49	---	150	343	---	189	---	73	---	46	27	---
TOTAL	1592	7700	9382	14846	5840	13978	6925	3378	2542	2484	1335	861
MEAN	51.4	257	303	479	209	451	231	109	84.7	80.1	43.1	28.7
MAX	110	1950	650	2780	701	1320	466	162	401	334	149	42
MIN	43	90	103	76	135	189	138	73	38	32	26	25
CFSM	.15	.77	.90	1.43	.62	1.35	.69	.33	.25	.24	.13	.09
IN.	.18	.86	1.04	1.65	.65	1.55	.77	.38	.28	.28	.15	.10

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1995, BY WATER YEAR (WY)

	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
MEAN	146	221	308	284	403	664	665	329	204	105	85.1	109
MAX	601	647	906	886	1452	1575	1537	1009	913	454	297	1162
(WY)	1978	1993	1978	1979	1976	1979	1993	1984	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

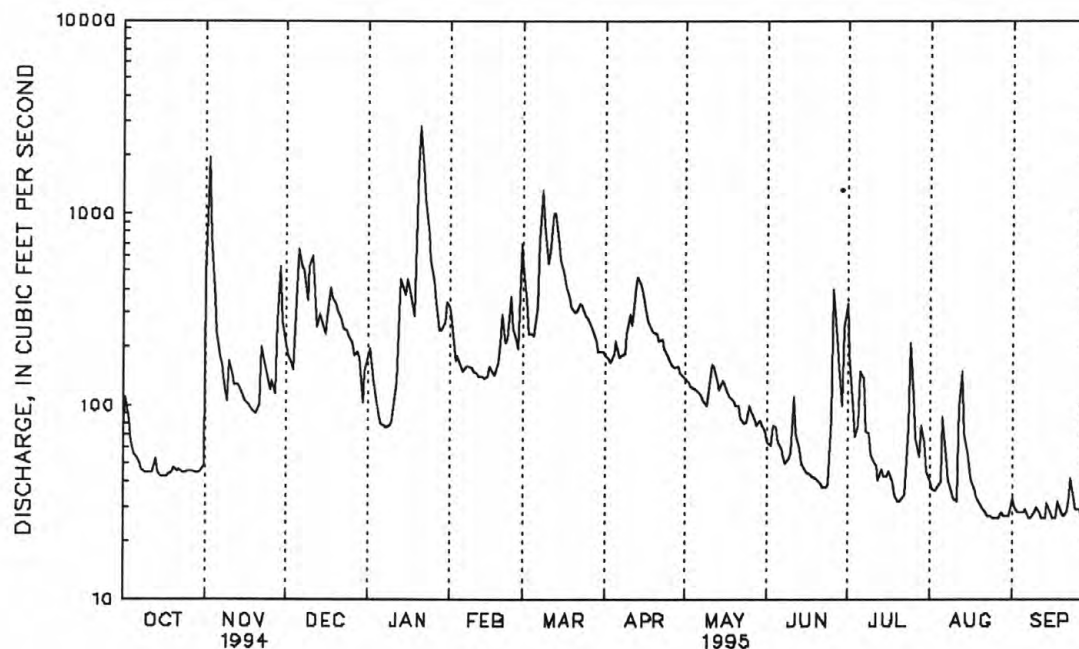
STREAMS TRIBUTARY TO LAKE ONTARIO
04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY--continued

125

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1959 - 1995	
ANNUAL TOTAL	110775		70863		294	
ANNUAL MEAN	303		194		461	
HIGHEST ANNUAL MEAN					137	
LOWEST ANNUAL MEAN					4970	
HIGHEST DAILY MEAN	3010	Mar 25	2780	Jan 21	8.5	Mar 4 1976
LOWEST DAILY MEAN	42	Aug 9	25	Sep 30	15	Aug 18 1970
ANNUAL SEVEN-DAY MINIMUM	44	Aug 7	27	Aug 23	5270	Jul 26 1965
INSTANTANEOUS PEAK FLOW			3260	Jan 20	a13.33	Mar 4 1976
INSTANTANEOUS PEAK STAGE			10.42	Jan 20	b4.3	Aug 19 1970
INSTANTANEOUS LOW FLOW			23	Sep 30	.88	
ANNUAL RUNOFF (CFSM)	.91		.58		11.92	
ANNUAL RUNOFF (INCHES)	12.30		7.87		700	
10 PERCENT EXCEEDS	797		403		145	
50 PERCENT EXCEEDS	132		121		38	
90 PERCENT EXCEEDS	47		31			

a Maximum gage height, 23.62 ft, present datum, May 17, 1916 (backwater from Genesee River).

b Result of temporary regulation.



DAILY MEAN DISCHARGE FOR — 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
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 mi².

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	646	1610	2730	e1050	2370	2550	930	708	458	1010	223	73
2	1110	4110	2490	e1100	1320	2390	889	681	403	654	172	83
3	1100	3370	2080	e1000	e1050	1590	835	651	422	401	157	91
4	617	3500	1520	e800	e980	1280	848	625	485	305	119	91
5	472	3790	1920	e700	e900	1230	1380	595	457	257	134	128
6	457	3640	3150	e660	e860	1330	1170	568	384	395	322	96
7	402	3510	3170	e680	e840	2330	1070	543	329	423	324	90
8	329	3370	3260	e700	e820	3620	1100	510	302	289	253	82
9	300	3190	3170	e650	e800	3640	1440	487	307	250	215	66
10	283	3030	3280	e580	e780	3610	2280	509	358	240	153	78
11	272	2860	3350	e560	e760	3510	2520	648	508	220	145	130
12	139	2610	3150	e700	e740	3790	2680	798	435	247	193	85
13	383	1910	2900	e1700	e720	3840	2780	735	352	199	761	73
14	250	1380	2700	2410	e720	3540	2830	645	312	180	426	111
15	236	1290	2290	2480	e710	3310	2780	626	287	172	315	119
16	734	1190	1670	2610	e710	3030	2500	763	249	134	219	73
17	867	882	1510	2650	e720	2700	1770	672	228	173	230	85
18	869	776	2040	2550	e730	1960	1440	603	219	189	197	148
19	867	923	1910	2450	e730	1550	1350	591	197	175	144	79
20	406	932	1740	3500	e740	1430	1430	583	171	102	146	125
21	260	897	1540	4210	e850	1400	1280	562	178	169	165	105
22	575	1550	1420	3400	e760	1670	1230	506	179	108	134	107
23	703	1680	1350	3380	e840	1650	1170	454	164	143	123	84
24	518	1090	1600	4020	e900	1470	1070	436	164	201	109	118
25	443	945	1620	4590	e780	1320	985	492	210	551	92	127
26	426	1230	1470	5060	e800	1190	922	594	668	396	98	137
27	614	1240	1340	5620	e1000	1110	872	545	595	246	98	116
28	653	1430	1310	5660	e1800	1030	833	473	500	245	105	111
29	450	2970	1400	5240	---	960	794	465	362	238	104	100
30	448	2890	1180	4540	---	927	749	504	341	476	80	66
31	455	---	e1100	3430	---	934	---	546	---	290	115	---
TOTAL	16284	63795	65360	78680	25730	65891	43927	18118	10224	9078	6071	2977
MEAN	525	2126	2108	2538	919	2126	1464	584	341	293	196	99.2
MAX	1110	4110	3350	5660	2370	3840	2830	798	668	1010	761	148
MIN	139	776	1100	560	710	927	749	436	164	102	80	66

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1995, BY WATER YEAR (WY)

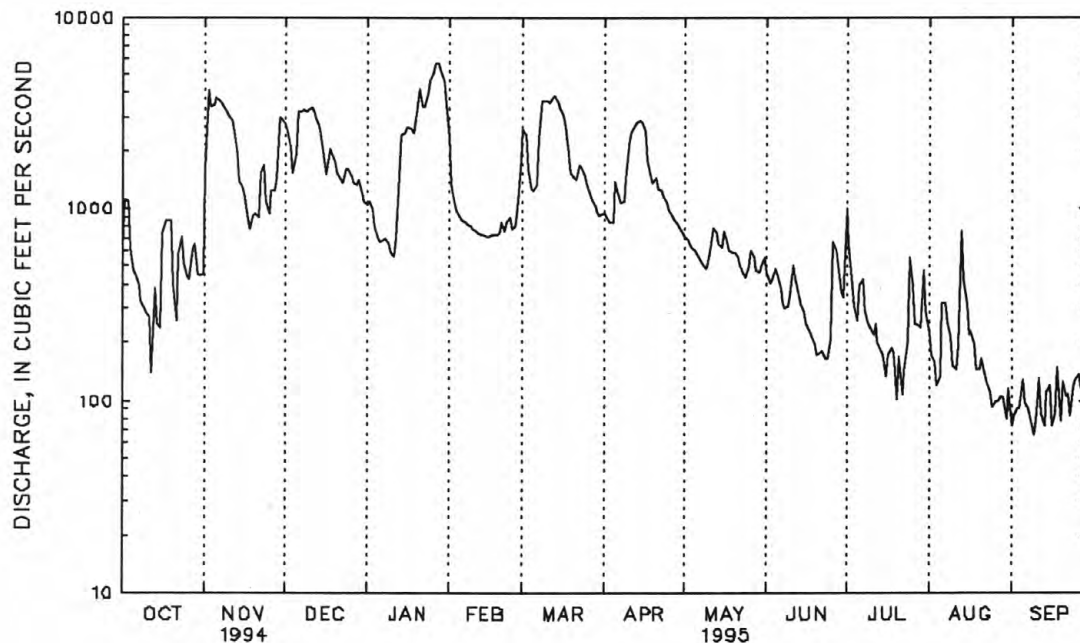
	MEAN	818	1310	1739	1806	1864	3932	3917	2082	1128	652	431	471
MAX	4743	5447	6319	5903	5194	10010	9914	6545	4305	6801	2205	4130	
(WY)	1978	1928	1928	1913	1925	1936	1940	1919	1989	1972	1977	1977	
MIN	107	152	230	135	356	1289	636	410	146	84.3	82.8	99.2	
(WY)	1961	1965	1909	1961	1920	1937	1946	1934	1934	1934	1934	1995	

STREAMS TRIBUTARY TO LAKE ONTARIO
04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY--Continued

127

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1903 - 1995	
ANNUAL TOTAL	715493		406135		1680	
ANNUAL MEAN	1960		1113		972	
HIGHEST ANNUAL MEAN					2641	
LOWEST ANNUAL MEAN					972	
HIGHEST DAILY MEAN	8960	Apr 12	5660	Jan 28	45700	May 17 1916
LOWEST DAILY MEAN	139	Oct 12	66	a	15	Oct 9 1980
ANNUAL SEVEN-DAY MINIMUM	199	Aug 7	86	Sep 7	54	Sep 2 1934
INSTANTANEOUS PEAK FLOW			5910	Jan 27	55100	May 17 1916
INSTANTANEOUS PEAK STAGE			11.28	Jan 28	b25.80	Mar 13 1920
INSTANTANEOUS LOW FLOW			61	c	12	Jul 23 1955
10 PERCENT EXCEEDS	5040		3030		4300	
50 PERCENT EXCEEDS	1100		710		810	
90 PERCENT EXCEEDS	283		124		189	

a Sep. 9, 30.
b Ice jam.
c Sep. 13, 26.



DAILY MEAN DISCHARGE FOR -- 1995 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 mi².

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 mi². Daily average of about 2 ft³/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, 818.73 ft, Apr.21, 27; minimum, 816.91 ft, Feb. 23.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	817.86	817.43	817.63	817.47	817.43	817.21	818.20	818.66	818.55	818.44	818.34	817.84
2	817.84	817.63	817.61	817.47	817.43	817.22	818.21	818.66	818.54	818.44	818.32	817.82
3	817.80	817.68	817.62	817.47	817.43	817.20	818.22	818.65	818.55	818.42	818.31	817.80
4	817.77	817.70	817.62	817.47	817.43	817.18	818.24	818.64	818.54	818.41	818.31	817.78
5	817.74	817.73	817.70	817.46	817.45	817.15	818.24	818.63	818.52	818.43	818.32	817.76
6	817.71	817.76	817.78	817.44	817.44	817.16	818.25	818.61	818.50	818.46	818.31	817.75
7	817.69	817.77	817.86	817.44	817.43	817.22	818.26	818.60	818.49	818.45	818.30	817.74
8	817.66	817.78	817.91	817.44	817.42	817.37	818.27	818.59	818.47	818.43	818.27	817.71
9	817.64	817.79	817.91	817.42	817.41	817.47	818.31	818.58	818.44	818.41	818.25	817.70
10	817.60	817.80	817.93	817.42	817.40	817.49	818.35	818.61	818.43	818.39	818.23	817.68
11	817.56	817.79	817.97	817.40	817.38	817.51	818.38	818.65	818.50	818.38	818.22	817.65
12	817.53	817.80	817.97	817.38	817.34	817.57	818.41	818.66	818.49	818.38	818.23	817.63
13	817.50	817.80	817.96	817.38	817.29	817.62	818.47	818.66	818.47	818.37	818.22	817.63
14	817.48	817.80	817.94	817.39	817.25	817.67	818.51	818.67	818.45	818.40	818.21	817.66
15	817.46	817.80	817.93	817.40	817.20	817.72	818.55	818.66	818.43	818.39	818.20	817.64
16	817.44	817.80	817.92	817.42	817.16	817.76	818.57	818.66	818.42	818.39	818.19	817.62
17	817.43	817.80	817.90	817.44	817.10	817.81	818.59	818.66	818.41	818.40	818.17	817.61
18	817.41	817.80	817.89	817.45	817.05	817.86	818.62	818.65	818.40	818.39	818.15	817.60
19	817.41	817.79	817.87	817.45	817.01	817.89	818.65	818.64	818.38	818.36	818.13	817.58
20	817.42	817.78	817.83	817.61	816.98	817.92	818.67	818.64	818.37	818.34	818.11	817.57
21	817.42	817.79	817.79	817.88	816.97	817.97	818.69	818.63	818.35	818.33	818.08	817.57
22	817.41	817.79	817.72	817.92	816.95	818.02	818.69	818.61	818.34	818.31	818.05	817.59
23	817.40	817.78	817.64	817.85	816.93	818.08	818.69	818.60	818.33	818.31	818.02	817.59
24	817.39	817.77	817.55	817.78	816.96	818.08	818.68	818.60	818.32	818.33	817.99	817.56
25	817.38	817.76	817.49	817.69	816.98	818.09	818.68	818.61	818.32	818.35	817.95	817.55
26	817.37	817.75	817.48	817.62	817.00	818.11	818.68	818.60	818.35	818.35	817.93	817.54
27	817.35	817.75	817.48	817.52	817.03	818.12	818.68	818.59	818.37	818.35	817.91	817.52
28	817.34	817.78	817.48	817.43	817.13	818.13	818.68	818.59	818.36	818.35	817.89	817.51
29	817.32	817.73	817.47	817.41	---	818.14	818.68	818.59	818.34	818.38	817.88	817.49
30	817.30	817.68	817.46	817.42	---	818.17	818.67	818.57	818.36	818.37	817.86	817.48
31	817.30	---	817.46	817.42	---	818.19	---	818.56	---	818.35	817.84	---
MEAN	817.51	817.75	817.73	817.51	817.21	817.71	818.49	818.62	818.43	818.38	818.14	817.64
MAX	817.86	817.80	817.97	817.92	817.45	818.19	818.69	818.67	818.55	818.46	818.34	817.84
MIN	817.30	817.43	817.46	817.38	816.93	817.15	818.20	818.56	818.32	818.31	817.84	817.44

CAL YR 1994 MEAN 817.95 MAX 819.00 MIN 816.73

WTR YR 1995	MEAN 817.93	MAX 818.69	MIN 816.93
-------------	-------------	------------	------------

129

DRAINAGE AREA.--1.673 mi².

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.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	916	726	2940	e1200	3490	2220	1050	787	530	879	260	121
2	766	3170	2670	e1250	2260	2840	1020	748	471	983	224	104
3	1290	3850	2360	e1200	e1400	2620	961	715	442	557	187	96
4	971	3450	1840	e1000	e1200	1760	916	685	480	399	187	106
5	639	3730	1650	e900	e1100	1550	1110	657	504	344	148	108
6	537	3750	2760	e820	e1050	1690	1560	626	457	348	181	133
7	530	3600	3230	e780	e980	2470	1250	592	404	464	309	116
8	456	3480	3340	e820	e950	4050	1220	560	368	407	289	108
9	411	3310	3360	e780	e920	4530	1290	534	350	326	239	104
10	385	3140	3390	e740	e890	4410	2160	533	367	301	216	85
11	373	2980	3590	e680	e860	4290	2830	601	456	286	161	84
12	335	2770	3540	e900	e850	4600	3020	784	478	270	168	130
13	329	2410	3200	e1800	e840	4700	3170	832	426	277	417	113
14	393	1660	2950	2770	e830	4410	3250	738	374	233	594	98
15	326	1430	2680	2760	e840	4070	3280	664	351	237	348	125
16	403	1330	2080	2680	e840	3770	3090	706	330	198	291	122
17	892	1160	1780	2800	e850	3490	2590	778	300	187	214	105
18	932	938	2100	2740	e860	3010	1830	663	288	206	233	95
19	941	928	2320	2620	e880	2170	1600	618	280	204	190	150
20	822	1030	2130	3440	e890	1850	1570	611	260	182	166	109
21	407	1010	1920	6330	e940	1710	1560	600	236	140	163	125
22	369	1160	1780	5390	e1000	1830	1410	559	250	181	178	128
23	731	1850	1680	4130	e880	2040	1360	510	248	135	149	126
24	722	1440	1730	4260	e940	1920	1250	474	239	173	137	112
25	553	1110	1890	4650	e1000	1690	1130	476	251	291	124	127
26	495	1140	1680	5100	e950	1490	1040	542	745	487	110	139
27	530	1370	1520	5570	e980	1350	977	614	677	336	114	148
28	719	1300	1410	5960	e1400	1240	934	541	615	235	114	133
29	675	2350	1450	5720	---	1130	887	501	481	249	120	122
30	510	3030	1360	5250	---	1070	838	499	379	317	122	119
31	520	---	e1250	4450	---	1040	---	558	---	378	102	---
TOTAL	18878	64602	71580	89490	30870	81010	50153	19306	12037	10210	6455	3491
MEAN	609	2153	2309	2887	1102	2613	1672	623	401	329	208	116
MAX	1290	3850	3590	6330	3490	4700	3280	832	745	983	594	150
MIN	326	726	1250	680	830	1040	838	474	236	135	102	85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1995, BY WATER YEAR (WY)

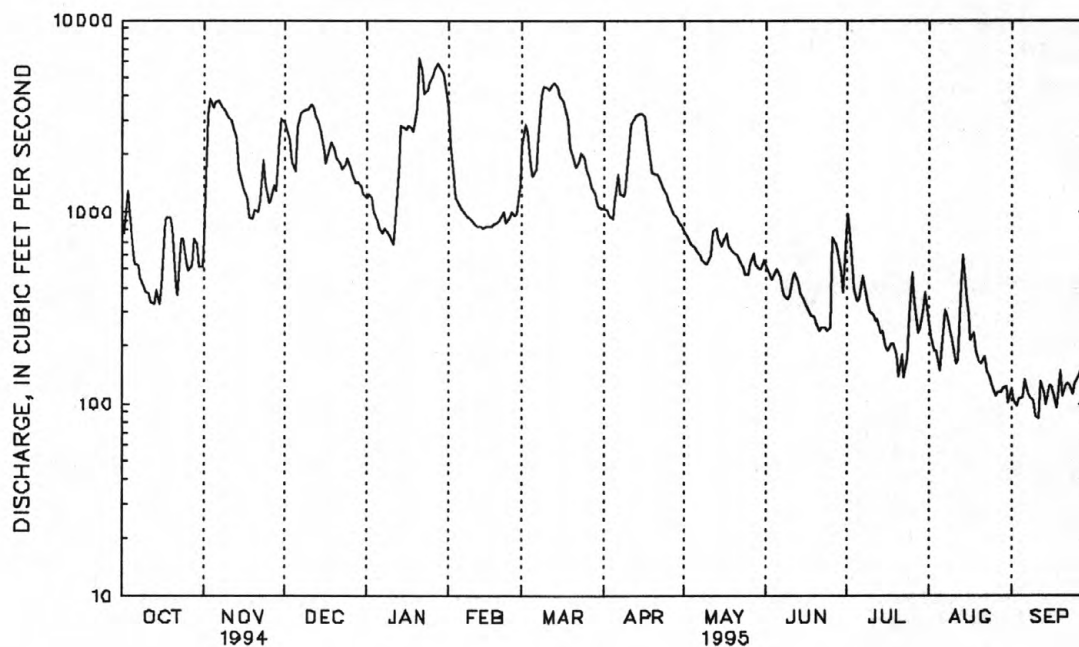
MEAN	1023	1588	2275	1955	2234	4124	4633	2287	1329	832	523	607
MAX	5146	3637	5942	4781	6036	8916	7846	5761	4906	7032	2408	4569
(WY)	1978	1971	1973	1979	1990	1956	1993	1984	1989	1972	1992	1977
MIN	145	182	325	155	397	1813	1672	613	334	172	142	111
(WY)	1964	1965	1961	1961	1958	1960	1995	1985	1991	1962	1965	1955

STREAMS TRIBUTARY TO LAKE ONTARIO
04228500 GENESEE RIVER AT AVON, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1955 - 1995	
ANNUAL TOTAL	774806		458082		1949	
ANNUAL MEAN	2123		1255		2846	1978
HIGHEST ANNUAL MEAN					1130	1965
LOWEST ANNUAL MEAN					16200	Jun 25 1972
HIGHEST DAILY MEAN	9940	Apr 13	6330	Jan 21	49	Oct 10 1980
LOWEST DAILY MEAN	219	Aug 13	84	Sep 11	88	Aug 1 1955
ANNUAL SEVEN-DAY MINIMUM	250	Aug 8	103	Sep 8	16500	Jun 25 1972
INSTANTANEOUS PEAK FLOW			6500	Jan 21	40.67	Jun 25 1972
INSTANTANEOUS PEAK STAGE			29.40	Jan 21	47	b
INSTANTANEOUS LOW FLOW			81	a	5310	
10 PERCENT EXCEEDS	6000		3260		1090	
50 PERCENT EXCEEDS	1250		830		215	
90 PERCENT EXCEEDS	358		138			

a Sep. 10, 11.

b Oct. 10, 11, 1980.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO

131

04228845 HONEOYE LAKE NEAR HONEOYE, NY

LOCATION.--Lat 42°45'44", long 77°30'26", Ontario County, Hydrologic Unit 04130003, on east shore of Honeoye Lake, at Trident Marina on East Lake Road, 1.9 mi south of U.S. Highway 20A, and 2.0 mi southeast of Honeoye.

DRAINAGE AREA.--41.0 mi².

PERIOD OF RECORD.--July to December 1963. Occasional readings January to August 1964. October 1964 to March 1995 (discontinued).

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

GAGE.--Water-stage recorder. Datum of gage is sea level. To convert elevations to adjustment of 1988, subtract 0.48 ft. July 10, 1963 to Sept. 28, 1967, nonrecording gage and Sept. 29, 1967 to Sept. 30, 1969, recording gage at datum 800.35 ft higher. Oct. 1, 1969 to Sept. 30, 1975, at datum 800.00 ft higher.

REMARKS.--Area of water surface, 2.71 mi².

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 806.91 ft, June 23, 1972; minimum observed, 802.15 ft present datum, Oct. 5, 1965, Oct. 1, 2, 1970.

EXTREMES FOR CURRENT PERIOD.--October 1994 to March 1995: Maximum elevation, 804.23 ft, Jan. 21, 22; minimum, 803.13 ft, Oct 30.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1994 TO MARCH 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	803.32	803.41	803.48	803.62	803.71	803.56	---	---	---	---	---	---
2	803.32	803.56	803.47	803.63	803.68	803.57	---	---	---	---	---	---
3	803.30	803.55	803.46	803.63	803.65	803.55	---	---	---	---	---	---
4	803.29	803.59	803.48	803.61	803.62	803.54	---	---	---	---	---	---
5	803.29	803.62	803.62	803.60	803.61	803.53	---	---	---	---	---	---
6	803.27	803.66	803.64	803.58	803.58	803.55	---	---	---	---	---	---
7	803.27	803.66	803.71	803.58	803.55	803.65	---	---	---	---	---	---
8	803.27	803.66	803.71	803.58	803.53	803.84	---	---	---	---	---	---
9	803.26	803.66	803.78	803.56	803.50	803.92	---	---	---	---	---	---
10	803.25	803.66	803.93	803.55	803.48	803.92	---	---	---	---	---	---
11	803.24	803.64	803.79	803.54	803.46	803.91	---	---	---	---	---	---
12	803.23	803.64	803.70	803.55	803.44	803.94	---	---	---	---	---	---
13	803.23	803.64	803.70	803.62	803.42	803.95	---	---	---	---	---	---
14	803.22	803.64	803.73	803.67	803.41	803.94	---	---	---	---	---	---
15	803.21	803.62	803.76	803.70	803.39	803.91	---	---	---	---	---	---
16	803.21	803.61	803.77	803.70	803.38	803.88	---	---	---	---	---	---
17	803.21	803.60	803.69	803.71	803.37	803.85	---	---	---	---	---	---
18	803.20	803.61	803.68	803.70	803.36	803.82	---	---	---	---	---	---
19	803.21	803.58	803.70	803.69	803.35	803.79	---	---	---	---	---	---
20	803.22	803.57	803.72	803.86	803.36	803.77	---	---	---	---	---	---
21	803.21	803.61	803.72	804.15	803.39	803.74	---	---	---	---	---	---
22	803.20	803.56	803.72	804.21	803.40	803.73	---	---	---	---	---	---
23	803.20	803.52	803.72	804.17	803.40	803.71	---	---	---	---	---	---
24	803.19	803.51	803.68	804.11	803.42	803.69	---	---	---	---	---	---
25	803.19	803.49	803.64	804.05	803.43	803.66	---	---	---	---	---	---
26	803.18	803.47	803.64	804.01	803.42	803.63	---	---	---	---	---	---
27	803.18	803.48	803.65	803.94	803.43	803.60	---	---	---	---	---	---
28	803.17	803.51	803.66	803.88	803.52	803.58	---	---	---	---	---	---
29	803.15	803.48	803.65	803.83	---	803.56	---	---	---	---	---	---
30	803.14	803.47	803.63	803.78	---	803.55	---	---	---	---	---	---
31	803.16	---	803.62	803.74	---	803.54	---	---	---	---	---	---
MEAN	803.23	803.58	803.67	803.76	803.47	803.72	---	---	---	---	---	---
MAX	803.32	803.66	803.93	804.21	803.71	803.95	---	---	---	---	---	---
MIN	803.14	803.41	803.46	803.54	803.35	803.53	---	---	---	---	---	---

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.

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 (see station 04228845). 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 ft³/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 ft³/s, from rating curve extended above 2,700 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)		Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 21	1400	*1.080	*3.25					

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

MEAN	41.7	76.6	131	124	161	297	331	168	78.0	32.3	24.0	22.6
MAX	443	345	493	369	664	685	1146	500	344	377	336	538
(WY)	1978	1978	1946	1979	1976	1976	1993	1984	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

STREAMS TRIBUTARY TO LAKE ONTARIO
04229500 HONEOYE CREEK AT HONEOYE FALLS, NY--Continued

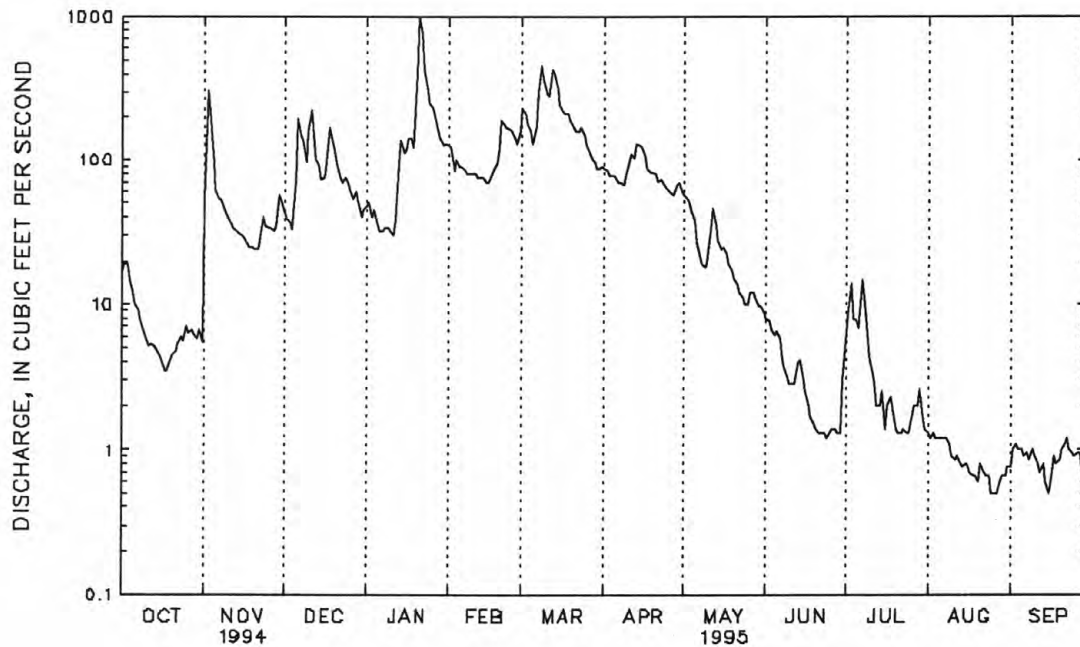
133

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1946 - 1995	
ANNUAL TOTAL	38325.0		23297.60		124	
ANNUAL MEAN	105		63.8		238	1993
HIGHEST ANNUAL MEAN					46.4	1965
LOWEST ANNUAL MEAN					3820	Apr 2 1993
HIGHEST DAILY MEAN	1210	Mar 24	997	Jan 21	.10	Aug 24 1949
LOWEST DAILY MEAN	1.8	Aug 12	.50	a	.13	Aug 22 1949
ANNUAL SEVEN-DAY MINIMUM	2.5	Jul 21	.58	Aug 23	b4630	Mar 28 1950
INSTANTANEOUS PEAK FLOW			1080	Jan 21	c6.42	Mar 28 1950
INSTANTANEOUS PEAK STAGE			3.25	Jan 21	.06	Aug 28 1949
INSTANTANEOUS LOW FLOW			Unknown			
10 PERCENT EXCEEDS	280		162		322	
50 PERCENT EXCEEDS	35		29		52	
90 PERCENT EXCEEDS	5.2		.90		2.4	

a Aug. 25, 26, 27, Sep. 15.

b From rating curve extended above 2,700 ft³/s.

c Datum then in use.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

DRAINAGE AREA.--39.1 mi².

REVISED RECORDS.--WSP 2112; WDR NY-82-3: Drainage area.

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 ft³/s and maximum(*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Nov. 2	0030	696	3.68	Jan. 20	1245	*1,610	*5.72

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	17	216	25	e28	54	92	28	19	8.5	37	4.8	2.8
2	17	290	26	e26	50	65	25	19	14	14	4.2	2.7
3	10	59	30	e20	e46	e65	24	18	16	9.1	7.0	2.5
4	8.6	39	26	e22	e42	e55	36	16	12	7.2	8.0	2.4
5	7.9	30	116	e20	e38	55	29	16	9.3	12	43	2.3
6	7.2	49	79	e19	e36	130	25	15	7.9	13	15	2.2
7	6.1	70	78	e18	e34	336	27	14	7.1	8.1	9.5	2.3
8	5.5	36	59	e17	e32	310	28	14	6.8	6.3	6.3	2.5
9	5.3	36	60	e16	e30	123	45	14	7.3	6.2	5.0	3.6
10	5.7	33	88	e16	e29	98	46	24	8.2	5.5	4.4	3.0
11	5.4	24	97	e16	e28	115	47	51	40	5.0	4.7	2.6
12	5.3	21	e55	e60	e27	141	56	27	12	4.8	11	2.4
13	5.2	19	e46	e150	e26	117	76	22	9.0	4.6	7.6	4.2
14	5.0	19	e36	e140	e26	95	66	19	7.3	5.2	5.1	5.5
15	4.9	17	36	133	e40	82	50	23	6.4	4.3	4.3	3.4
16	4.9	16	34	116	35	75	33	18	5.8	3.9	3.8	3.1
17	4.9	15	90	80	34	69	25	16	5.5	4.2	3.3	3.3
18	4.9	15	91	64	30	61	24	15	5.0	4.3	3.1	3.7
19	5.1	14	64	57	40	55	40	14	4.6	3.7	2.9	3.1
20	6.3	14	52	717	62	52	30	13	4.3	3.5	2.8	3.2
21	6.2	24	46	419	70	61	27	12	4.0	3.7	2.7	3.6
22	5.6	25	47	180	56	64	26	11	4.0	3.7	2.4	4.7
23	5.5	18	47	117	51	66	25	10	4.2	7.2	2.6	5.0
24	5.3	16	48	93	71	54	24	14	5.2	17	2.6	3.7
25	6.0	17	40	83	53	44	23	17	15	12	2.4	3.8
26	7.0	17	33	77	56	40	22	13	63	8.0	2.4	3.9
27	6.0	16	30	70	56	38	22	11	46	8.3	2.4	4.0
28	5.6	61	32	62	139	34	26	12	20	9.3	3.0	3.0
29	5.3	44	30	e60	---	29	22	15	11	36	2.6	2.9
30	5.3	30	e25	e55	---	31	20	12	31	10	2.5	2.9
31	6.9	---	22	57	---	29	---	9.8	---	6.3	2.3	---
TOTAL	206.9	1300	1588	3008	1291	2681	997	523.8	400.4	283.4	183.7	98.3
MEAN	6.67	43.3	51.2	97.0	46.1	86.5	33.2	16.9	13.3	9.14	5.93	3.28
MAX	17	290	116	717	139	336	76	51	63	37	43	5.5
MIN	4.9	14	22	16	26	29	20	9.8	4.0	3.5	2.3	2.2
CFSM	.17	1.11	1.31	2.48	1.18	2.21	.85	.43	.34	.23	.15	.08
IN.	.20	1.24	1.51	2.86	1.23	2.55	.95	.50	.38	.27	.17	.09

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

MEAN	23.6	49.9	69.4	62.4	72.8	126	111	49.0	30.4	16.8	13.8	18.5
MAX	76.7	131	130	234	235	228	183	129	165	116	86.8	166
(WY)	1978	1986	1978	1979	1976	1979	1993	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

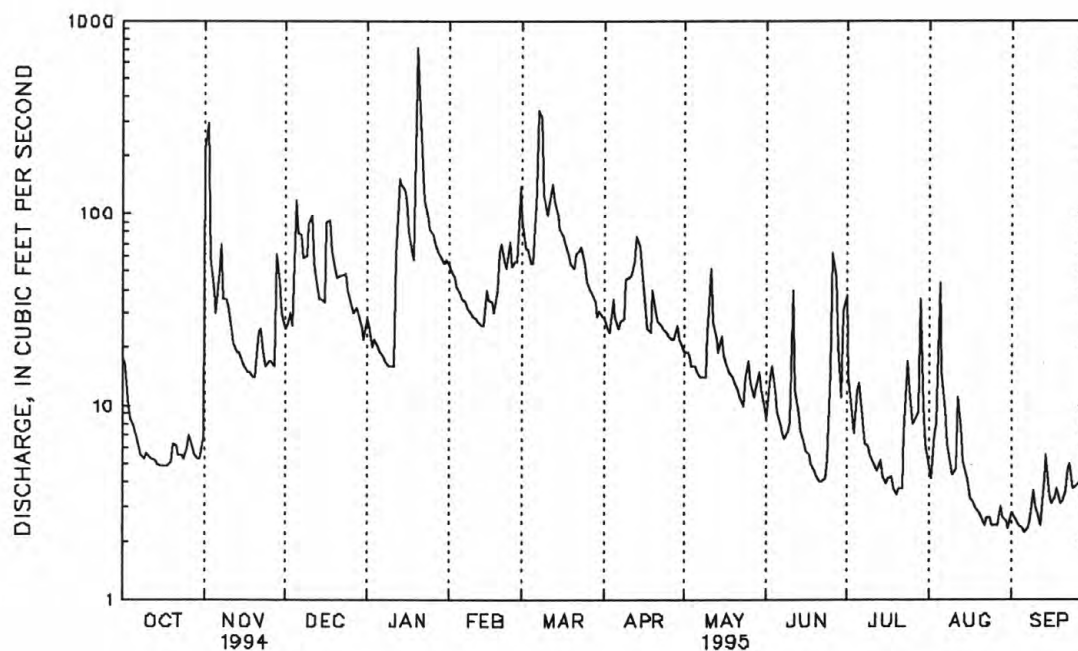
STREAMS TRIBUTARY TO LAKE ONTARIO
04230380 OATKA CREEK AT WARSAW, NY--continued

135

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1964 - 1995	
ANNUAL TOTAL	18149.6		12561.5			
ANNUAL MEAN	49.7		34.4		53.7	
HIGHEST ANNUAL MEAN					73.8	
LOWEST ANNUAL MEAN					29.6	
HIGHEST DAILY MEAN	780	Mar 24	717	Jan 20	1600	Jan 26 1979
LOWEST DAILY MEAN	3.7	Sep 21	2.2	Sep 6	1.0	Aug 1 1965
ANNUAL SEVEN-DAY MINIMUM	4.0	Sep 19	2.4	Sep 2	1.4	Jul 26 1965
INSTANTANEOUS PEAK FLOW			1610	Jan 20	a4010	Jun 23 1972
INSTANTANEOUS PEAK STAGE			5.72	Jan 20	9.75	Jun 23 1972
INSTANTANEOUS LOW FLOW			2.2	b	.90	Aug 1 1965
ANNUAL RUNOFF (CFSM)	1.27		.88		1.37	
ANNUAL RUNOFF (INCHES)	17.27		11.95		18.67	
10 PERCENT EXCEEDS	106		70		121	
50 PERCENT EXCEEDS	22		18		28	
90 PERCENT EXCEEDS	5.2		3.6		4.8	

a From rating curve extended above 1,770 ft³/s on basis of slope-area measurement of peak discharge.

b Aug. 26, 27, 30, 31, Sept. 4, 5-8, 12, 13.



DAILY MEAN DISCHARGE FOR — 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 22	1230	*1,670	*5.69	No other peak greater than base discharge.			

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	41	57	104	123	255	371	162	115	63	60	45	33
2	47	174	93	124	241	355	159	111	67	51	41	32
3	42	297	87	114	181	e260	154	110	69	63	42	30
4	41	327	85	e95	e170	e220	153	107	64	53	43	30
5	41	197	107	e100	e160	224	151	104	65	53	40	29
6	39	122	181	99	e150	291	150	102	62	92	40	28
7	38	110	276	108	e145	503	141	102	60	65	58	28
8	38	150	232	106	e140	831	143	102	57	57	56	28
9	37	130	212	105	e135	750	149	102	56	53	46	28
10	37	111	198	98	e130	707	169	107	56	49	41	28
11	36	104	288	93	e125	492	195	123	53	46	39	28
12	36	94	e290	99	e120	520	195	165	52	45	39	27
13	36	84	e180	169	e120	538	219	150	56	43	38	26
14	37	80	160	385	e120	475	243	129	56	42	37	29
15	36	75	177	490	e120	413	230	119	50	46	36	28
16	35	72	148	491	129	368	206	112	49	43	36	26
17	35	70	174	386	135	349	172	110	47	46	35	26
18	35	68	342	293	140	336	156	102	46	44	35	26
19	36	65	391	240	146	311	149	100	44	46	34	26
20	36	63	309	510	179	290	148	96	43	45	34	26
21	36	69	256	1230	256	275	153	89	43	43	34	26
22	35	68	227	1560	263	267	143	81	42	42	34	27
23	34	77	214	1010	234	281	142	80	42	43	33	28
24	34	78	205	607	241	277	140	78	42	42	33	27
25	34	71	198	432	261	246	134	75	41	50	33	26
26	33	67	181	376	214	216	127	73	53	50	33	26
27	33	65	158	341	198	200	122	74	46	45	33	26
28	33	78	146	e290	263	187	121	71	60	44	33	26
29	32	87	144	e250	---	178	122	71	69	50	32	26
30	33	127	119	e250	---	169	121	67	60	44	30	26
31	33	---	117	267	---	165	---	65	---	42	31	---
TOTAL	1129	3237	5999	10841	4971	11065	4769	3092	1613	1537	1174	826
MEAN	36.4	108	194	350	178	357	159	99.7	53.8	49.6	37.9	27.5
MAX	47	327	391	1560	263	831	243	165	69	92	58	33
MIN	32	57	85	93	120	165	121	65	41	42	30	26
CFSM	.18	.54	.97	1.75	.89	1.78	.79	.50	.27	.25	.19	.14
IN.	.21	.60	1.12	2.02	.92	2.06	.89	.58	.30	.29	.22	.15

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

MEAN	75.0	137	224	223	289	556	508	242	132	72.4	58.6	61.3
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

STREAMS TRIBUTARY TO LAKE ONTARIO
04230500 OATKA CREEK AT GARBUTT, NY-- Continued

137

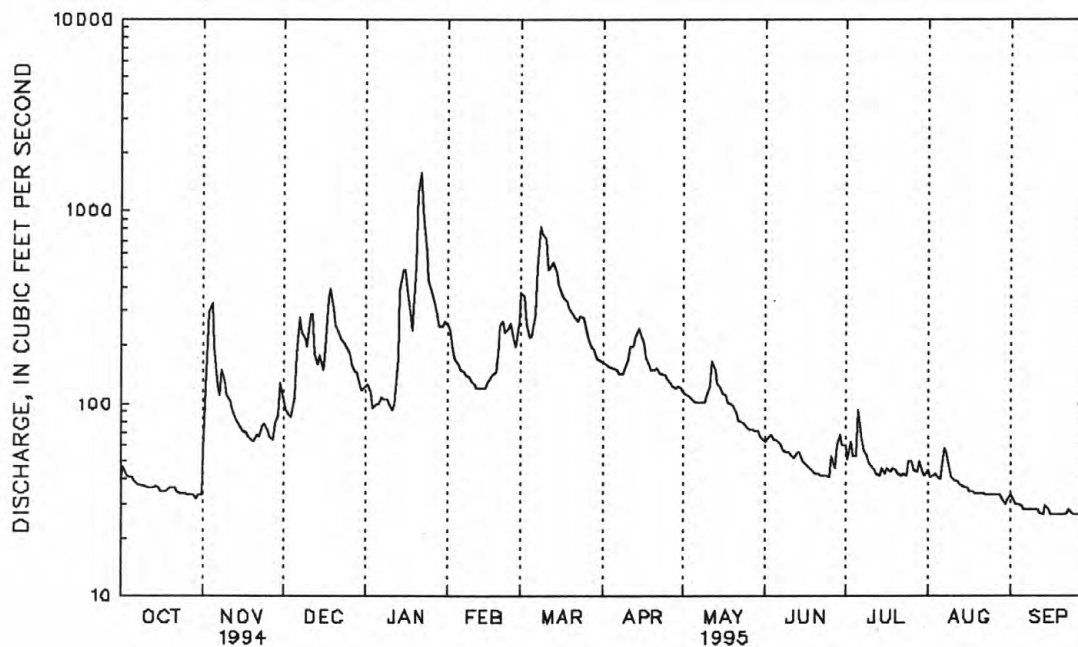
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1946 - 1995	
ANNUAL TOTAL	69936		50253		214	
ANNUAL MEAN	192		138		371	
HIGHEST ANNUAL MEAN					117	
LOWEST ANNUAL MEAN					1978	
HIGHEST DAILY MEAN	1970	Mar 25	1560	Jan 22	6500	Mar 31 1960
LOWEST DAILY MEAN	32	Oct 29	26	a	13	b
ANNUAL SEVEN-DAY MINIMUM	33	Oct 25	26	Sep 16	14	Oct 26 1966
INSTANTANEOUS PEAK FLOW			1670	Jan 22	7050	Mar 31 1960
INSTANTANEOUS PEAK STAGE			5.69	Jan 22	8.64	Mar 31 1960
INSTANTANEOUS LOW FLOW			26	c	3.3	d
ANNUAL RUNOFF (CFSM)	.96		.69		1.07	
ANNUAL RUNOFF (INCHES)	13.01		9.35		14.57	
10 PERCENT EXCEEDS	505		290		514	
50 PERCENT EXCEEDS	84		89		107	
90 PERCENT EXCEEDS	38		33		30	

a Sep. 13, 16-21, 25-30.

b Oct. 30, 31, Nov. 1, 1966.

c Sep. 12, 13, 15-21, 22, 24-30.

d Sep. 11, 12, 1958.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO

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 mi².

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, 15.26 ft, Jan. 21; minimum, 9.25 ft, Apr. 26.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.69	11.03	11.35	10.91	12.26	11.33	10.70	10.93	10.91	10.97	10.92	10.66
2	10.61	11.95	11.43	10.89	11.72	11.55	10.75	11.00	10.92	10.89	10.88	10.62
3	10.83	12.62	11.39	10.96	11.42	11.29	10.64	10.85	10.87	10.84	10.73	10.60
4	11.07	12.09	10.92	10.66	11.41	11.10	10.68	10.91	10.91	10.81	10.74	10.66
5	10.86	12.13	11.01	10.81	11.23	10.91	10.50	10.91	10.98	10.94	10.97	10.76
6	10.88	12.11	11.21	11.00	10.95	10.91	11.03	11.01	10.93	10.89	10.90	10.85
7	10.96	11.86	11.73	10.88	10.81	11.58	10.62	10.92	10.87	10.88	10.92	10.89
8	10.94	11.61	11.66	10.93	10.88	12.89	10.57	10.88	10.82	10.91	10.90	10.89
9	10.79	11.51	11.76	10.92	10.76	13.36	10.53	10.87	10.78	10.94	10.87	10.97
10	10.74	11.55	11.67	10.89	10.72	13.38	11.13	10.91	10.88	10.91	11.01	10.91
11	10.89	11.36	12.00	10.84	11.19	13.12	11.57	10.88	10.94	10.88	10.99	10.89
12	10.97	11.34	12.08	10.89	11.05	13.22	11.53	11.01	10.97	10.85	10.90	10.90
13	10.95	11.50	11.83	11.50	10.77	13.44	11.37	11.00	10.93	10.82	10.87	10.98
14	11.12	10.75	11.56	11.80	10.82	13.22	11.51	10.99	10.98	10.78	11.01	10.97
15	11.12	10.85	11.44	12.01	10.80	12.89	11.54	10.98	10.99	10.82	10.89	10.88
16	11.06	10.98	11.28	11.79	10.86	12.63	11.39	11.06	10.94	10.88	10.81	10.81
17	11.03	10.57	11.00	11.91	10.89	12.41	11.10	10.92	10.89	10.86	10.74	10.92
18	11.12	10.66	11.38	11.76	10.78	12.14	10.44	10.94	11.00	10.84	10.83	10.99
19	11.05	10.90	11.55	11.66	10.63	11.46	10.13	10.90	11.01	10.90	10.86	10.94
20	11.04	11.16	11.17	12.09	10.75	11.22	10.32	10.92	10.88	10.84	10.86	11.00
21	10.90	10.83	11.29	14.82	10.92	10.92	10.82	10.91	10.84	10.76	10.88	11.02
22	10.86	11.01	11.21	14.93	10.84	11.01	10.62	10.87	10.87	10.76	10.86	10.96
23	11.03	11.30	11.03	13.74	10.81	11.35	10.57	10.97	10.99	10.82	10.86	10.92
24	11.09	10.91	11.45	13.05	10.72	11.23	10.53	10.95	10.98	10.80	10.83	11.00
25	11.03	11.06	11.50	13.02	11.22	10.94	9.89	10.87	10.92	10.88	10.82	10.93
26	11.04	11.00	11.26	13.13	10.98	10.69	9.46	11.04	11.02	10.97	10.84	10.95
27	11.04	11.07	11.23	13.39	10.91	10.87	10.03	11.02	10.91	10.91	10.88	10.90
28	11.05	11.01	10.72	13.63	10.98	10.75	10.05	10.96	10.94	10.96	10.97	10.84
29	11.08	11.30	10.83	13.49	---	10.70	10.55	10.89	11.01	10.87	10.77	10.90
30	11.04	11.67	10.87	13.16	---	10.72	10.78	10.80	10.98	10.90	10.72	10.94
31	11.05	---	10.50	12.88	---	10.63	---	10.79	---	11.03	10.72	---
MEAN	10.97	11.32	11.33	12.08	11.00	11.74	10.71	10.93	10.93	10.87	10.86	10.88
MAX	11.12	12.62	12.08	14.93	12.26	13.44	11.57	11.06	11.02	11.03	11.01	11.02
MIN	10.61	10.57	10.50	10.66	10.63	10.63	9.46	10.79	10.78	10.76	10.72	10.60

CAL YR 1994 MEAN 11.67 MAX 16.92 MIN 10.26

WTR YR 1995 MEAN 11.14 MAX 14.93 MIN 9.46

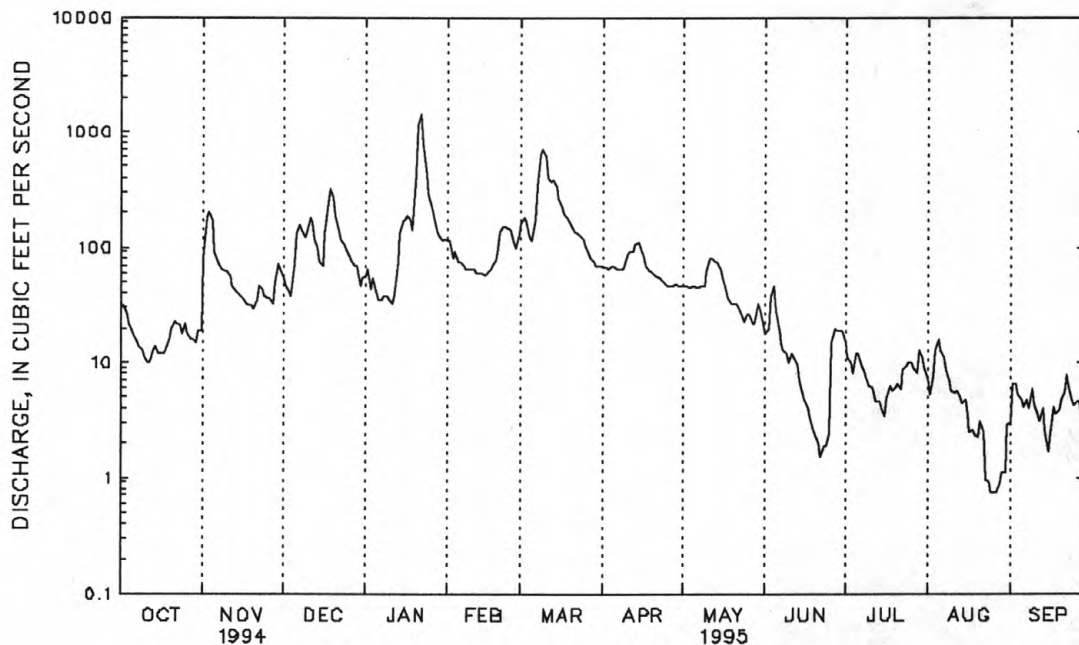
139

MEAN	37.8	75.4	125	122	181	335	256	122	59.4	25.4	21.4	25.3
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

STREAMS TRIBUTARY TO LAKE ONTARIO
04231000 BLACK CREEK AT CHURCHVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1946 - 1995	
ANNUAL TOTAL	39434.4		26700.31		115	
ANNUAL MEAN	108		73.2		207	
HIGHEST ANNUAL MEAN					52.3	
LOWEST ANNUAL MEAN					1978	
HIGHEST DAILY MEAN	1360	Mar 24	1420	Jan 22	4120	Mar 31 1960
LOWEST DAILY MEAN	4.9	Jul 29	.75	a	.30	Aug 5 1959
ANNUAL SEVEN-DAY MINIMUM	5.8	Jul 26	.87	Aug 23	.47	Aug 3 1959
INSTANTANEOUS PEAK FLOW			1600	Jan 22	4880	Mar 31 1960
INSTANTANEOUS PEAK STAGE			6.68	Jan 22	9.44	Mar 31 1960
INSTANTANEOUS LOW FLOW			.75	a	.22	Aug 19 1970
ANNUAL RUNOFF (CFSM)	.83		.56		.89	
ANNUAL RUNOFF (INCHES)	11.28		7.64		12.03	
10 PERCENT EXCEEDS	262		161		287	
50 PERCENT EXCEEDS	40		38		47	
90 PERCENT EXCEEDS	12		3.9		6.6	

a Aug. 25, 26, 27.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
04232000 GENESEE RIVER AT ROCHESTER, NY

141

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 mi².

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 except those for periods of estimated daily discharges, which are poor. 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 ft³/s.

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	1490	1520	3150	1530	4400	3020	1520	1620	e890	e1260	e480	e330
2	1340	3250	2800	1530	3210	3740	1500	1490	e940	e1490	e440	e310
3	1680	5070	2590	1650	1920	3360	1440	1460	e1080	e1040	e410	e300
4	1520	4650	2140	1280	1730	2490	1440	1320	e900	e700	e410	e310
5	1290	4540	2020	e720	1540	2090	1350	1350	e980	e620	e380	e310
6	1040	4550	2950	923	1240	2540	1950	1230	e980	e800	e400	e340
7	e980	4060	4020	1000	1170	3530	1790	1200	e900	e800	e550	e320
8	851	3740	4130	1150	1230	6190	1680	1180	e670	e690	e520	e310
9	1010	3590	4150	1270	1310	6990	1640	1090	e740	e600	e460	e310
10	885	3380	4170	1170	1380	6890	2340	1230	e640	e520	e430	e290
11	e700	3120	4450	1020	1330	6580	3400	1420	e680	e510	e380	e290
12	931	2940	4370	1070	1420	6740	3710	1490	e860	e490	e380	e330
13	e710	2680	3740	1510	1280	6900	3840	1660	e750	e500	e630	e310
14	839	2020	3490	2710	1150	6420	4060	1450	e650	e440	e800	e300
15	e720	1620	3180	3700	1120	5780	4030	1420	e600	e310	e560	e320
16	787	1470	2670	3470	1170	5240	3900	1340	e730	e270	e500	e320
17	1400	1380	2360	3510	1280	4800	3350	1520	e520	e280	e420	e300
18	1350	1140	2760	3370	1270	4420	2430	e1250	e490	e280	e440	e280
19	1330	848	3390	3150	1350	3270	2090	e1220	e480	e420	e400	e260
20	1310	1360	3130	4140	1540	2850	1820	e1130	e450	e350	e370	e270
21	1030	988	2690	9680	1960	2600	2030	e1190	e440	e420	e370	e240
22	816	1230	2520	10000	2090	2520	1770	e1080	e440	e290	e380	e570
23	1040	1850	2200	8150	2140	2790	1750	e920	e440	e330	e350	e320
24	1250	1800	2230	6380	2000	2740	1010	e1020	e440	e400	e340	e330
25	1120	1290	2450	6070	2040	2470	e740	e860	e450	e520	e330	e410
26	1020	1210	2250	6110	2030	2190	e600	e970	e1000	e720	e310	e390
27	e960	1460	2050	6370	1820	1940	1340	e1140	e1220	e560	e320	e430
28	1080	1500	1920	6640	2120	1750	1650	e1040	e970	e460	e320	e480
29	1090	1930	1720	6620	---	1680	1750	e1100	e970	e480	e320	e300
30	967	3020	1820	6050	---	1580	1640	e1040	e650	e540	e320	e380
31	978	---	1380	5340	---	1520	---	e1010	---	e600	e310	---
TOTAL	33514	73206	88890	117283	48240	117620	63560	38440	21950	17690	13030	9960
MEAN	1081	2440	2867	3783	1723	3794	2119	1240	732	571	420	332
MAX	1680	5070	4450	10000	4400	6990	4060	1660	1220	1490	800	570
MIN	700	848	1380	720	1120	1520	600	860	440	270	310	240

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1995, BY WATER YEAR (WY)

MEAN	1442	2133	2772	2829	3177	6238	6022	3500	2063	1313	982	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

STREAMS TRIBUTARY TO LAKE ONTARIO
04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1904 - 1918 1920 - 1995	
ANNUAL TOTAL	1065916		643383		2794	
ANNUAL MEAN	2920		1763		4426	
HIGHEST ANNUAL MEAN					1666	
LOWEST ANNUAL MEAN					46300	
HIGHEST DAILY MEAN	14000	Apr 14	10000	Jan 22	46300	Mar 31 1916
LOWEST DAILY MEAN	520	a	240	Sep 21	91	b
ANNUAL SEVEN-DAY MINIMUM	570	Jul 23	284	Sep 15	104	Jan 26 1961
INSTANTANEOUS PEAK FLOW			12500	Jan 21	c48300	Mar 30 1916
INSTANTANEOUS PEAK STAGE			12.38	Jan 21	d17.08	Apr 2 1940
INSTANTANEOUS LOW FLOW			Unknown		f	
10 PERCENT EXCEEDS	7630		4020		6750	
50 PERCENT EXCEEDS	1900		1260		1560	
90 PERCENT EXCEEDS	720		336		580	

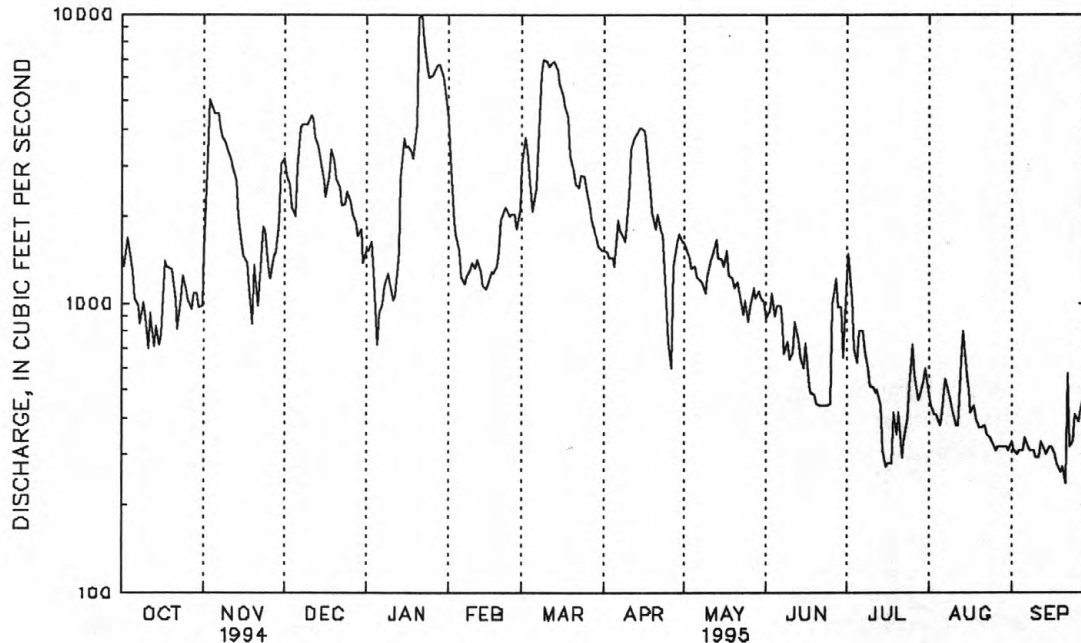
a July 24, Aug. 11, 12.

b Jan. 9, 29, Feb. 1, 8, 1961.

c Site then in use; maximum at present site, 34,400 ft³/s, Mar. 19, 1942.

d Datum then in use.

f Minimum discharge, less than 10 ft³/s, occurred during low-water periods in some years when powerplant was shut down.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO

143

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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 21	0445	*315	*7.36	No other peak greater than base discharge.			

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	e21	84	22	24	e31	57	28	23	14	23	9.5	8.9
2	e24	119	21	27	e28	41	27	22	18	20	9.5	9.0
3	e23	54	20	e20	e27	e33	27	22	20	13	10	8.8
4	e22	36	20	e17	e26	e28	27	21	17	12	11	8.6
5	e21	33	58	e21	e25	e26	27	20	15	19	12	8.4
6	e22	34	76	e20	e25	e68	26	19	14	24	12	8.5
7	e21	33	57	e16	e24	e83	25	19	13	18	12	8.3
8	e21	30	53	19	e24	e106	25	19	13	15	10	9.4
9	e20	28	e37	19	e23	e63	29	19	13	14	9.6	11
10	e20	27	e70	e16	e23	e47	35	25	13	13	9.1	e9.0
11	e19	24	e80	17	e22	54	34	38	13	12	9.2	e8.5
12	e18	23	e44	20	e22	101	31	30	12	12	9.7	e8.2
13	19	23	e32	36	e21	73	40	24	12	11	9.5	e10
14	19	22	27	35	e21	51	35	22	11	11	9.0	e12
15	19	22	27	38	e18	43	32	21	11	14	9.0	11
16	18	22	28	44	23	40	28	20	11	14	8.7	9.6
17	17	20	46	47	24	51	26	19	11	14	8.3	9.6
18	17	20	68	39	24	46	26	19	10	17	8.1	9.9
19	18	20	53	32	e26	37	26	19	9.9	19	7.9	9.4
20	20	20	42	103	e30	35	26	18	9.7	13	7.8	9.8
21	20	21	35	223	e36	36	24	18	9.5	12	7.7	11
22	20	22	31	96	33	41	24	17	9.5	12	7.6	15
23	19	20	29	54	32	44	24	16	9.5	11	7.7	14
24	19	19	29	43	40	39	23	17	9.6	13	7.5	11
25	19	20	28	41	e27	35	22	18	9.8	14	7.5	10
26	18	19	25	40	e26	34	22	17	12	13	7.7	10
27	18	18	23	e36	e25	33	23	16	12	12	8.3	10
28	18	27	25	e28	e72	32	31	17	12	12	8.5	9.7
29	18	28	24	e28	---	29	26	19	11	13	8.8	9.6
30	18	23	e18	e28	---	30	24	17	14	12	8.4	9.4
31	19	---	20	30	---	30	---	16	---	9.8	8.4	---
TOTAL	605	911	1168	1257	778	1466	823	627	369.5	441.8	280.0	297.6
MEAN	19.5	30.4	37.7	40.5	27.8	47.3	27.4	20.2	12.3	14.3	9.03	9.92
MAX	24	119	80	223	72	106	40	38	20	24	12	15
MIN	17	18	18	16	18	26	22	16	9.5	9.8	7.5	8.2
CF&M	.50	.77	.96	1.03	.71	1.21	.70	.52	.31	.36	.23	.25
IN.	.57	.86	1.11	1.19	.74	1.39	.78	.60	.35	.42	.27	.28

e Estimated

STREAMS TRIBUTARY TO LAKE ONTARIO

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY,--continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

MEAN	23.5	37.5	40.1	41.7	33.5	74.6	77.7	36.1	21.8	22.3	23.5	19.8
MAX	39.5	67.5	66.1	74.6	42.5	98.0	143	46.4	26.9	52.5	58.0	35.8
(WY)	1993	1993	1993	1993	1994	1993	1993	1994	1993	1992	1992	1992
MIN	14.1	17.6	24.4	25.4	27.8	47.3	27.4	20.2	12.3	13.4	9.03	9.92
(WY)	1992	1992	1992	1994	1995	1995	1995	1995	1995	1991	1995	1995

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

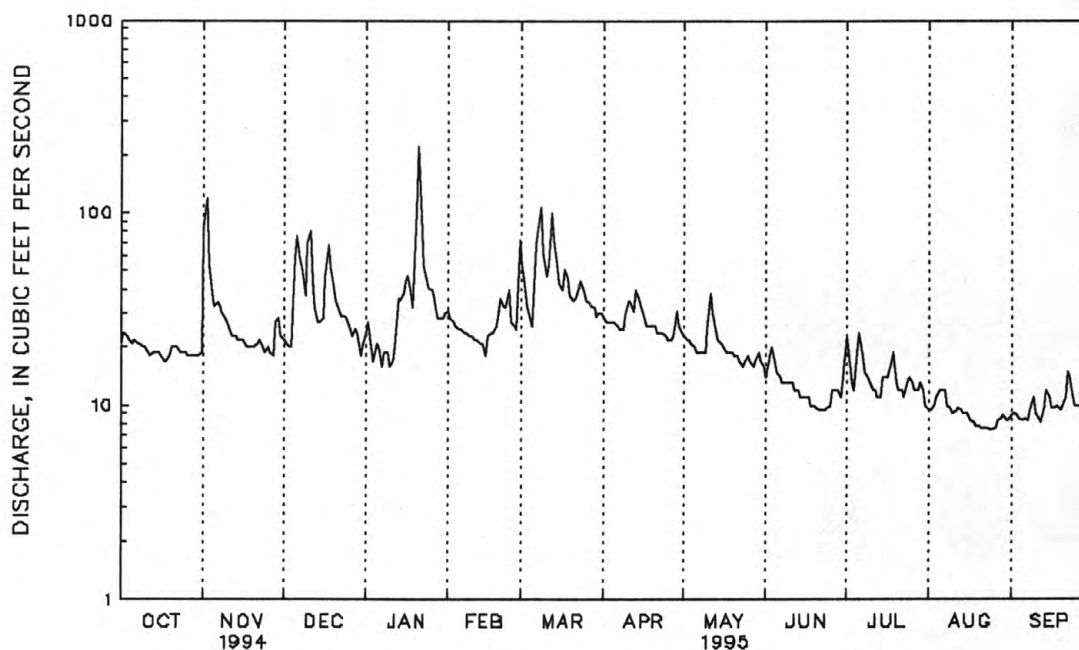
FOR 1995 WATER YEAR

WATER YEARS 1991 - 1995

ANNUAL TOTAL	13810			9023.9								
ANNUAL MEAN	37.8			24.7						38.3		
HIGHEST ANNUAL MEAN										53.5		1993
LOWEST ANNUAL MEAN										24.7		1995
HIGHEST DAILY MEAN	311	Mar 22		223	Jan 21					553	Apr 2	1993
LOWEST DAILY MEAN	12	a		7.5	b					7.5	Aug 24	1995
ANNUAL SEVEN-DAY MINIMUM	12	Jul 19		7.6	Aug 20					7.6	Aug 20	1995
INSTANTANEOUS PEAK FLOW				315	Jan 21					588	Apr 2	1993
INSTANTANEOUS PEAK STAGE				7.36	Jan 21					9.36	Apr 2	1993
INSTANTANEOUS LOW FLOW				6.8	Aug 21					6.8	Aug 21	1995
ANNUAL RUNOFF (CFSM)	.97			.63						.98		
ANNUAL RUNOFF (INCHES)	13.11			8.56						13.26		
10 PERCENT EXCEEDS	74			41						68		
50 PERCENT EXCEEDS	24			20						24		
90 PERCENT EXCEEDS	15			9.5						12		

a July 21-25, Aug. 1.

b Aug. 24, 25.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO

145

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY,--continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1991 to current year.

CHEMICAL DATA: 1991-95 (e).

NUTRIENT DATA: 1991-95 (e).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: February 1995 to September 1995.

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 CURRENT PERIOD.--

WATER TEMPERATURES: Maximum, 22.5°C, July 15; minimum 0.0°C, many days during winter period.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	2.5	2.0	2.5	2.5	.5	1.5	8.0	4.0	6.0	13.5	7.5	10.5
2	2.5	.0	1.5	2.0	.0	1.0	8.5	4.0	6.5	12.0	9.0	10.5
3	1.0	.0	.0	2.0	.0	.5	8.0	4.5	6.0	13.5	9.0	11.5
4	1.5	.0	1.0	3.0	.0	1.0	7.5	4.5	6.5	13.5	9.0	11.5
5	.5	.0	.0	3.0	.5	2.0	4.5	2.0	3.0	15.0	10.5	13.0
6	.0	.0	.0	3.0	2.0	2.5	4.0	2.0	3.0	15.5	11.0	13.5
7	.0	.0	.0	4.5	1.5	3.0	5.5	3.5	4.0	14.0	9.5	12.0
8	.0	.0	.0	4.0	.5	2.5	5.5	3.0	4.0	13.0	8.5	11.5
9	.0	.0	.0	1.5	.0	.5	5.5	3.5	4.5	12.5	10.0	11.5
10	2.0	.0	1.0	1.5	.0	.5	5.5	2.0	4.0	16.5	11.0	13.5
11	1.5	.0	1.0	4.5	.5	2.5	9.0	3.0	6.0	16.0	13.0	14.0
12	.5	.0	.0	6.0	1.0	3.5	9.0	8.0	8.5	14.5	13.0	13.5
13	.5	.0	.5	8.0	4.5	6.0	8.5	7.5	8.0	16.5	11.5	14.0
14	.5	.5	.5	9.0	5.0	7.0	7.5	6.5	7.0	16.0	13.5	14.5
15	1.5	.0	.5	10.5	6.0	8.0	9.0	4.5	7.0	16.5	13.5	15.0
16	2.5	1.5	2.0	11.0	7.5	9.0	10.0	5.0	7.5	16.5	12.5	15.0
17	2.5	1.0	2.0	9.5	6.5	8.0	10.0	5.5	8.0	16.0	13.5	14.5
18	3.5	1.5	2.5	6.5	4.5	5.5	10.0	6.0	8.5	14.0	12.5	13.0
19	3.5	1.5	2.5	7.0	4.0	5.5	13.5	9.5	11.5	15.5	11.5	13.5
20	3.0	1.5	2.5	10.0	6.5	8.5	12.0	9.0	11.0	16.0	12.0	14.5
21	2.5	1.5	2.0	9.5	7.5	9.0	12.0	9.5	11.0	17.5	14.0	15.5
22	2.0	.5	1.5	7.5	6.0	6.5	12.0	8.5	10.0	16.0	13.0	15.0
23	3.0	2.0	2.5	6.0	5.0	5.5	11.0	6.5	9.0	16.0	12.5	14.5
24	3.0	1.5	2.5	6.5	3.5	5.0	12.0	7.0	9.5	15.5	13.5	15.0
25	1.5	.5	1.0	7.0	3.0	5.0	11.5	7.0	9.5	14.5	12.5	13.5
26	1.5	.5	.5	8.5	4.0	6.5	12.0	9.0	10.5	17.0	13.5	15.0
27	2.0	.5	1.0	8.5	5.0	7.0	12.5	9.0	11.0	16.5	13.5	15.0
28	2.0	.5	1.0	9.0	5.0	7.0	14.0	10.0	12.0	15.5	13.0	14.0
29	---	---	---	9.0	4.5	7.0	12.0	9.5	11.0	16.5	13.0	14.5
30	---	---	---	8.0	6.5	7.5	10.5	8.0	9.5	17.5	14.5	16.0
31	---	---	---	7.0	5.5	6.5	---	---	---	18.0	14.5	16.5
MONTH	3.5	.0	1.1	11.0	.0	4.9	14.0	2.0	7.8	18.0	7.5	13.7

STREAMS TRIBUTARY TO LAKE ONTARIO

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY,--continued

WATER-QUALITY RECORDS

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	17.0	15.0	16.0	18.5	17.0	17.5	20.5	18.0	19.0	17.0	16.0	16.5
2	17.0	15.5	16.0	18.0	17.0	17.5	20.0	18.5	19.0	16.0	15.0	15.5
3	19.5	16.0	17.5	17.5	15.0	16.5	19.5	17.5	18.5	15.0	14.0	14.5
4	18.5	16.0	17.5	18.0	15.5	17.0	19.0	18.0	18.5	16.0	14.5	15.0
5	17.5	14.0	16.0	19.0	17.0	18.0	18.5	18.0	18.0	16.5	14.5	15.5
6	18.5	15.0	17.0	20.0	17.5	19.0	18.0	17.0	17.5	17.5	15.5	16.5
7	19.0	16.5	18.0	20.0	18.0	19.0	19.0	17.0	18.0	16.5	16.0	16.5
8	18.5	14.0	16.5	19.0	16.0	17.0	18.5	17.0	18.0	16.0	14.5	15.0
9	16.5	12.0	14.0	17.0	15.0	16.0	19.0	16.5	17.5	15.0	14.0	14.5
10	17.5	14.5	16.0	18.0	15.0	16.5	18.0	16.5	17.5	14.0	13.0	13.5
11	19.5	16.0	17.5	18.5	16.0	17.0	18.5	17.0	17.5	13.0	11.5	12.5
12	17.5	15.0	16.0	19.0	16.0	17.5	19.0	17.5	18.0	14.0	12.0	13.0
13	17.0	13.0	15.0	20.0	16.5	18.0	19.0	17.0	18.0	16.0	13.5	15.0
14	17.5	14.5	16.0	21.5	18.5	20.0	19.0	17.5	18.0	16.0	15.0	15.5
15	17.0	14.0	15.5	22.5	19.5	21.0	20.5	18.0	19.0	15.0	13.5	14.5
16	17.0	13.5	15.5	21.5	19.5	20.5	21.0	19.0	20.0	14.0	12.5	13.5
17	17.5	14.0	16.0	21.5	19.0	20.0	20.0	18.0	19.0	14.5	14.0	14.0
18	19.5	16.0	17.5	20.5	18.5	19.5	20.0	17.5	18.5	14.5	13.0	14.0
19	21.0	17.0	19.0	19.5	17.5	19.0	19.5	17.5	18.5	13.0	11.5	12.0
20	21.0	18.5	19.5	19.0	17.0	18.0	19.5	18.0	18.5	13.0	12.0	12.5
21	19.5	17.0	18.0	19.5	17.5	18.0	20.0	18.0	19.0	14.0	13.0	13.5
22	19.5	16.5	18.0	18.5	16.5	17.5	19.5	17.5	18.5	13.5	13.0	13.5
23	19.5	17.5	18.5	19.0	17.5	18.0	18.0	16.0	17.0	13.0	11.5	12.0
24	18.5	17.5	18.0	18.5	17.0	17.5	18.5	17.0	17.5	11.5	10.0	11.0
25	18.5	17.0	18.0	19.0	16.5	18.0	17.5	15.5	16.5	11.5	10.5	11.0
26	19.0	17.5	18.0	21.0	18.0	19.5	16.0	15.0	15.5	12.5	11.5	12.0
27	18.0	17.5	18.0	20.0	18.5	19.0	15.5	15.0	15.5	13.5	12.0	12.5
28	18.5	16.5	17.5	20.0	17.5	19.0	16.0	14.0	15.0	13.0	12.0	12.5
29	18.5	17.0	18.0	21.5	19.0	20.0	17.5	15.0	16.0	12.0	10.5	11.5
30	18.5	17.5	18.0	21.0	18.5	20.0	17.5	15.5	16.5	13.0	11.5	12.0
31	---	---	---	20.5	17.5	19.0	17.0	15.5	16.0	---	---	---
MONTH	21.0	12.0	17.1	22.5	15.0	18.4	21.0	14.0	17.7	17.5	10.0	13.7

STREAMS TRIBUTARY TO LAKE ONTARIO

147

04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY,--continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	RESIDUE VOLATILE, TILE, SUS- PENDE (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT							
19-20	1705	1005	20	4.3	--	--	--
20-21	1155	1855	20	2.0	--	--	--
NOV							
01-02	0005	0205	89	70	244	50	<0.01
02-03	0305	1105	99	60	171	39	<0.01
03-07	1130	1030	36	8.2	--	--	<0.01
28...	1240	--	32	2.7	--	--	--
DEC							
05-05	0045	1045	29	15	--	--	--
05-06	1135	0135	87	37	160	26	--
06-08	0235	0635	64	34	71	12	--
08-09	1120	1420	42	12	--	--	--
16-18	2210	0510	50	7.9	--	--	--
18-19	0610	0910	62	20	--	--	--
19-23	1015	0915	37	7.7	--	--	--
30-31	0920	1620	19	4.5	--	--	0.01
JAN							
17...	1145	--	48	5.0	--	--	--
23-26	1030	0930	43	6.4	--	--	--
FEB							
09-13	1100	1000	22	2.3	--	--	<0.01
19-21	1335	0835	30	4.6	--	--	--
21-23	1130	0130	34	7.2	--	--	<0.01
27-28	1145	1945	54	26	--	--	--
FEB 28-							
MAR 02	2045	0845	53	24	--	--	--
05-06	0940	0840	42	12	--	--	<0.01
06-08	1225	1525	86	80	184	24	<0.01
09...	1040	--	63	12	--	--	<0.01
10-13	1155	0955	72	50	121	12	<0.01
13-16	1100	0900	49	11	--	--	<0.01
16-20	1010	0910	43	5.7	--	--	<0.01
APR							
13-14	1210	1010	38	18	--	--	--
27-28	1945	2245	30	18	--	--	--
APR 28-							
MAY 01	2345	1045	25	75	--	--	--
01-04	1155	1055	22	5.5	--	--	--
08-09	1255	2355	19	4.7	--	--	<0.01
10-11	0055	1155	28	18	--	--	<0.01
11-15	1250	1150	27	17	--	--	<0.01
15-18	1300	1100	20	13	--	--	<0.01
JUN							
02-03	1330	0430	24	200	435	58	--
26-27	1340	0040	14	23	--	--	--
27-29	0140	1140	12	13	--	--	--
JUN 29-							
JUL 03	1225	0925	17	33	109	18	--
03-05	0950	1750	12	15	43	8	--
05-06	1850	0850	31	480	940	95	--
06-10	1310	1110	16	50	122	21	--
10-13	1210	1110	12	22	--	--	--
16-17	2015	1115	14	26	--	--	--
17-19	1220	0220	17	85	189	31	--
19-20	0320	1120	15	130	236	42	--
20-24	1155	1055	12	16	--	--	--
AUG							
21-24	1355	1155	7.6	5.5	--	--	<0.01
SEP							
14-14	0355	1155	12	6.8	--	--	--
14-18	1205	1105	10	5.3	--	--	--
22-22	0845	2045	17	10	--	--	--
23-25	0045	1145	12	6.7	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO
04232034 IRONDEQUOIT CREEK AT RAILROAD MILLS NEAR FISHERS, NY,--continued
WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT						
19-20	--	--	0.035	0.004	65	280
20-21	--	--	0.025	0.009	69	280
NOV						
01-02	0.52	0.66	0.270	0.011	110	180
02-03	0.69	0.88	0.240	0.016	50	120
03-07	0.91	1.00	0.090	0.038	93	83
28...	--	--	0.025	0.005	130	200
DEC						
05-05	--	--	0.065	0.005	73	270
05-06	--	--	0.180	0.008	66	160
06-08	--	--	0.130	0.009	64	140
08-09	--	--	0.050	0.013	70	160
16-18	--	--	0.040	0.006	73	180
18-19	--	--	0.065	0.012	55	130
19-23	--	--	0.035	0.008	60	170
30-31	0.18	1.40	0.020	0.004	66	240
JAN						
17...	--	--	0.045	0.004	72	150
23-26	--	--	0.035	0.006	60	150
FEB						
09-13	0.32	1.40	0.015	0.003	72	220
19-21	--	--	0.025	<0.002	80	180
21-23	0.50	1.10	0.045	0.002	92	160
27-28	--	--	0.100	0.004	110	160
FEB 28-						
MAR 02	--	--	0.090	0.004	74	120
05-06	0.54	1.10	0.030	0.004	85	180
06-08	0.54	0.94	0.210	0.005	59	100
09...	0.65	1.10	0.050	0.005	72	120
10-13	0.88	0.97	0.160	0.004	70	120
13-16	0.50	0.73	0.045	0.002	60	140
16-20	0.76	0.79	0.040	0.002	69	160
APR						
13-14	--	--	0.085	0.003	70	190
27-28	--	--	0.065	0.002	67	220
APR 28-						
MAY 01	--	--	0.045	0.002	66	220
01-04	--	--	0.030	0.003	68	250
08-09	0.48	1.10	0.045	0.003	69	270
10-11	0.54	1.00	0.110	0.002	69	250
11-15	0.45	0.86	0.070	0.002	68	210
15-18	0.60	1.00	0.068	0.003	69	250
JUN						
02-03	--	--	0.460	0.004	69	270
26-27	--	--	0.070	0.003	68	310
27-29	--	--	0.050	<0.002	69	320
JUN 29-						
JUL 03	--	--	0.160	0.005	70	290
03-05	--	--	0.080	0.006	71	300
05-06	--	--	0.850	0.027	59	190
06-10	--	--	0.150	0.012	67	270
10-13	--	--	0.110	0.009	75	310
16-17	--	--	0.100	0.007	66	290
17-19	--	--	0.180	0.008	68	300
19-20	--	--	0.320	0.010	69	290
20-24	--	--	0.080	0.008	73	320
AUG						
21-24	0.35	1.10	0.035	0.005	77	310
SEP						
14-14	--	--	0.035	0.004	67	360
14-18	--	--	0.035	0.006	70	360
22-22	--	--	0.060	0.006	68	330
23-25	--	--	0.040	0.005	68	350

STREAMS TRIBUTARY TO LAKE ONTARIO

149

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 mi².

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	59	2.0	3.5	e4.0	10	2.6	1.9	e1.8	7.4	e3.4	5.3
2	4.1	53	1.8	2.9	e4.4	7.0	2.3	1.8	e12	4.6	e3.4	3.2
3	3.6	13	1.7	2.3	e3.0	e6.0	2.6	1.8	4.5	4.1	13	2.0
4	3.5	11	1.6	2.2	e2.8	e5.0	3.5	1.6	2.5	3.6	5.4	1.7
5	4.0	10	21	2.0	e2.6	6.3	2.4	1.6	2.2	16	4.5	1.9
6	3.5	14	11	1.8	e2.5	24	2.3	1.5	1.9	20	7.2	e1.8
7	3.3	16	12	1.8	e2.4	27	2.4	1.4	1.7	9.2	5.4	e2.0
8	3.3	11	9.2	1.6	e2.3	30	2.5	1.4	1.6	6.2	4.5	e2.1
9	3.4	11	13	1.5	e2.2	16	4.9	1.3	1.5	5.2	3.7	e2.6
10	3.4	8.6	20	1.4	e2.2	14	4.8	e7.0	1.5	4.7	e3.0	e2.1
11	3.3	7.4	24	1.4	e2.2	16	4.4	e12	1.7	4.6	e3.0	e1.8
12	3.3	6.7	8.7	3.0	e2.1	19	e7.0	e8.0	1.3	4.1	3.7	e1.6
13	3.3	5.6	4.9	4.2	e2.1	11	e9.5	e5.0	1.2	3.7	3.2	e2.4
14	3.2	5.0	3.9	4.1	e2.0	8.3	e7.0	e4.0	e1.0	3.5	3.2	e3.8
15	3.2	4.2	3.8	4.7	e2.0	7.4	e4.6	e4.4	1.5	5.2	3.5	e2.4
16	3.2	3.7	4.1	5.5	e2.2	7.2	3.2	3.6	1.5	3.8	3.6	e2.0
17	3.3	3.5	19	5.3	e2.4	7.4	2.7	e3.2	1.5	4.0	e3.0	e2.4
18	3.3	3.5	16	4.6	e2.6	5.7	2.5	e2.7	1.5	e9.8	e1.6	e2.1
19	5.9	3.2	11	4.0	e4.6	5.0	2.7	2.0	1.3	e18	e1.4	e2.0
20	4.4	3.1	7.5	44	e6.0	4.7	2.2	1.7	1.3	e9.0	e1.3	e2.2
21	3.8	5.2	6.0	46	e7.0	5.0	2.3	e3.2	1.3	5.1	e1.4	e2.1
22	3.5	4.1	5.0	20	6.5	5.8	2.1	1.5	e1.1	4.0	e1.4	e2.0
23	3.4	3.8	4.5	9.9	5.6	4.8	1.8	1.5	e1.5	9.2	e1.3	e2.0
24	e3.4	3.7	4.3	7.4	7.6	4.1	1.8	e4.0	e2.0	6.6	e1.2	e2.0
25	e3.4	3.5	3.9	6.6	e4.4	3.5	1.7	e3.4	2.9	5.1	e1.2	e1.9
26	e3.3	3.3	3.4	6.4	e4.4	3.1	1.6	2.3	17	5.9	e1.3	e1.9
27	e3.3	3.9	3.0	5.9	8.3	3.0	3.3	1.4	4.9	4.3	e1.3	e1.9
28	e3.3	7.6	3.1	5.0	20	2.8	e4.4	e5.0	3.6	4.1	e1.4	e1.8
29	e3.2	3.0	2.6	4.6	---	2.6	2.5	e6.0	3.8	7.2	e1.4	e1.8
30	e3.2	2.3	2.2	e4.0	---	3.1	2.1	e5.0	4.5	e4.0	e1.3	e1.8
31	e6.4	---	2.3	e3.6	---	2.9	---	e3.0	---	e3.4	e8.0	---
TOTAL	113.6	292.9	236.5	221.2	120.4	277.7	99.7	104.2	87.6	205.6	102.2	66.6
MEAN	3.66	9.76	7.63	7.14	4.30	8.96	3.32	3.36	2.92	6.63	3.30	2.22
MAX	6.4	59	24	46	20	30	9.5	12	17	20	13	5.3
MIN	3.2	2.3	1.6	1.4	2.0	2.6	1.6	1.3	1.0	3.4	1.2	1.6
CFSM	.53	1.40	1.10	1.03	.62	1.29	.48	.48	.42	.95	.47	.32
IN.	.61	1.57	1.26	1.18	.64	1.48	.53	.56	.47	1.10	.55	.36

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

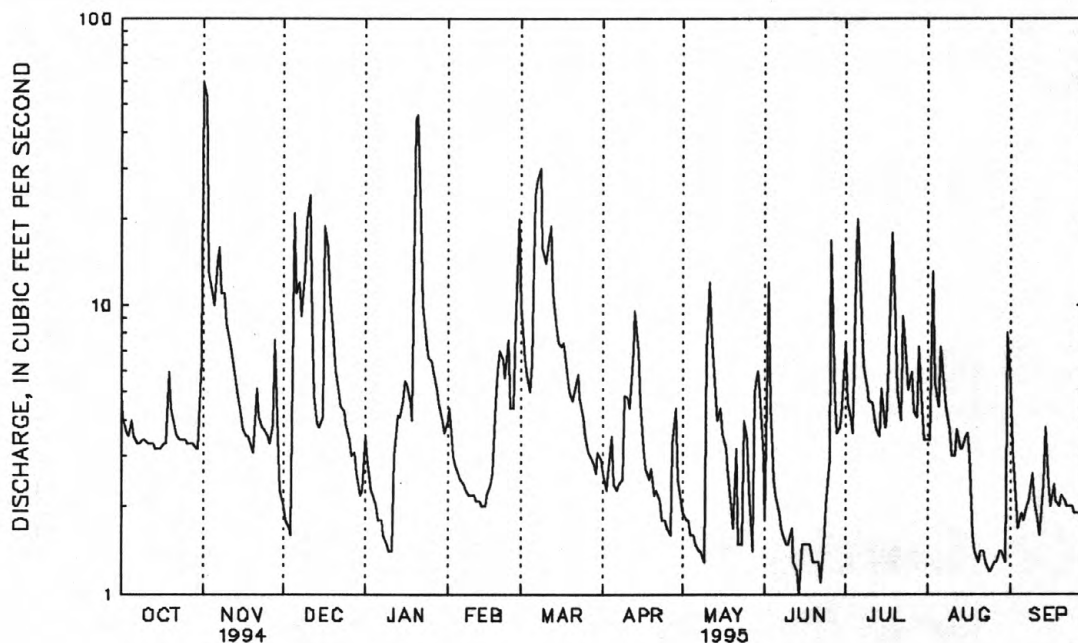
	1990	1991	1992	1993	1994	1995
MEAN	5.31	8.43	9.83	7.79	7.13	20.1
MAX	10.3	13.3	18.1	13.4	12.0	26.7
(WY)	1991	1993	1991	1993	1994	1991
MIN	3.38	2.23	2.97	3.57	3.60	8.96
(WY)	1993	1992	1992	1992	1993	1995

STREAMS TRIBUTARY TO LAKE ONTARIO
0423204920 EAST BRANCH ALLEN CREEK AT PITTSFORD, NY--continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1990 - 1995	
ANNUAL TOTAL	3250.6		1928.2			
ANNUAL MEAN	8.91		5.28		8.69	
HIGHEST ANNUAL MEAN					10.1	
LOWEST ANNUAL MEAN					5.28	
HIGHEST DAILY MEAN	104	Apr 13	59	Nov 1	230	Mar 4 1991
LOWEST DAILY MEAN	1.4	Jan 15	1.0	Jun 14	.85	May 30 1993
ANNUAL SEVEN-DAY MINIMUM	1.6	Jan 15	1.3	Aug 20	1.2	Nov 17 1991
INSTANTANEOUS PEAK FLOW			120	Nov 1	319	Aug 27 1992
INSTANTANEOUS PEAK STAGE			4.20	Nov 1	7.18	Aug 27 1992
INSTANTANEOUS LOW FLOW			Unknown		a.81	b
ANNUAL RUNOFF (CFSM)	1.28		.76		1.25	
ANNUAL RUNOFF (INCHES)	17.37		10.31		16.97	
10 PERCENT EXCEEDS	18		10		16	
50 PERCENT EXCEEDS	4.7		3.5		4.3	
90 PERCENT EXCEEDS	2.3		1.6		1.9	

a May have been lower during period of variable backwater, May - September 1995.

b May 30, 31, 1993.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
0423204920 EAST BRANCH ALLEN CREEK AT PITTSFORD, NY--continued
WATER-QUALITY RECORDS

151

PERIOD OF RECORD.--1990 to current year.

CHEMICAL DATA: 1990-95 (e).

NUTRIENT DATA: 1990-95 (e).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1994 to September 1995

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 CURRENT PERIOD.--

WATER TEMPERATURES: Maximum, 27.0°C, July 14, 15, Aug. 3; minimum, 0.0°C, on many days during winter period.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	---	---	---	4.5	3.0	3.5	2.5	1.0	1.5
2	---	---	---	---	---	---	5.5	3.0	4.0	2.0	.0	1.0
3	---	---	---	---	---	---	5.0	3.0	4.0	.5	.5	.5
4	---	---	---	---	---	---	7.5	5.0	6.5	.5	.0	.0
5	---	---	---	---	---	---	9.0	7.5	8.5	.5	.0	.5
6	---	---	---	---	---	---	8.5	7.0	8.5	.5	.0	.5
7	---	---	---	---	---	---	7.0	3.5	4.5	.5	.5	.5
8	---	---	---	---	---	---	3.5	1.5	2.5	1.0	.0	.5
9	---	---	---	---	---	---	3.5	1.0	2.0	.5	.0	.5
10	---	---	---	10.0	8.0	9.0	3.5	2.5	3.0	.5	.0	.5
11	---	---	---	8.5	6.5	7.5	3.5	1.0	3.0	1.0	.0	.5
12	---	---	---	8.0	5.0	6.5	1.0	.0	.5	2.5	.5	1.0
13	---	---	---	9.0	8.0	8.5	.5	.0	.5	3.0	1.0	1.5
14	---	---	---	11.5	8.5	10.0	1.5	.5	1.0	7.5	1.5	4.5
15	---	---	---	11.5	8.5	10.5	3.0	1.5	2.5	9.5	7.5	8.5
16	---	---	---	9.0	6.5	8.0	3.0	1.5	2.5	8.0	5.0	6.5
17	---	---	---	7.5	5.0	6.5	3.5	2.5	3.0	5.0	3.5	4.0
18	---	---	---	10.0	6.5	8.5	4.0	3.0	3.5	5.0	3.0	4.0
19	---	---	---	9.0	7.0	8.0	3.5	3.0	3.5	5.0	3.0	4.0
20	---	---	---	7.5	5.5	6.5	4.0	3.0	3.5	5.5	4.5	5.5
21	---	---	---	9.5	7.0	8.0	4.0	2.0	3.0	5.5	4.0	5.0
22	---	---	---	8.5	4.0	6.5	3.5	1.5	2.5	4.0	2.5	3.0
23	---	---	---	4.0	2.0	3.0	4.0	2.0	3.0	2.5	1.0	2.0
24	---	---	---	3.5	1.5	2.5	4.0	3.5	3.5	2.5	2.0	2.0
25	---	---	---	5.0	3.0	4.0	3.5	2.0	2.5	3.0	2.0	2.5
26	---	---	---	3.0	1.0	2.5	2.5	1.0	1.5	2.5	1.0	1.5
27	---	---	---	3.0	.0	1.5	2.5	.5	1.5	2.0	.5	1.0
28	---	---	---	7.0	2.5	4.5	3.5	1.5	2.5	.5	.0	.5
29	---	---	---	5.0	4.5	5.0	3.0	.0	1.5	1.0	.0	.5
30	---	---	---	5.0	4.0	4.5	.5	.0	.5	.5	.0	.5
31	---	---	---	---	---	---	1.5	.5	1.0	1.5	.5	1.0
MONTH	---	---	---	---	---	---	9.0	.0	3.0	9.5	.0	2.1

STREAMS TRIBUTARY TO LAKE ONTARIO
0423204920 EAST BRANCH ALLEN CREEK AT PITTSFORD, NY--continued

WATER-QUALITY RECORDS

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.0	1.0	1.5	2.5	.5	1.0	8.5	2.5	5.0	16.0	7.0	11.0
2	1.5	.0	1.0	1.0	.0	.5	10.0	3.0	6.0	13.5	9.0	11.0
3	.5	.0	.5	.5	.0	.5	8.0	3.0	5.5	16.0	9.0	12.0
4	.5	.0	.5	1.0	.0	.5	7.0	2.0	5.5	16.5	9.0	12.5
5	.0	.0	.0	2.0	.0	1.0	3.0	.5	1.5	18.0	11.0	13.5
6	.0	.0	.0	2.5	1.5	2.0	3.5	.5	2.0	17.5	11.0	13.5
7	.5	.0	.0	4.5	1.5	3.0	6.5	2.0	3.5	17.5	9.0	12.5
8	.5	.0	.0	4.5	.5	2.0	5.0	2.0	3.5	16.5	8.5	12.0
9	.5	.0	.0	2.0	.0	.5	4.5	2.5	4.0	14.0	9.5	12.0
10	.5	.0	.5	1.5	.0	.5	6.5	1.0	3.5	19.5	11.5	14.5
11	.5	.0	.5	5.0	.5	2.5	10.0	2.0	6.0	15.5	13.5	14.0
12	.5	.0	.0	7.5	1.5	4.5	9.5	8.0	9.0	15.0	13.0	13.5
13	.5	.0	.0	9.0	3.0	6.0	8.5	6.5	7.5	19.0	11.5	15.0
14	.5	.0	.0	9.5	4.0	7.0	7.0	5.5	6.5	19.0	14.0	15.5
15	.5	.0	.0	11.0	5.5	8.0	10.0	3.5	6.5	19.5	14.0	16.0
16	1.0	.0	.5	11.5	7.0	9.0	11.0	4.0	7.5	19.5	13.0	16.0
17	1.0	.0	.5	9.0	5.0	7.5	11.5	4.5	8.0	16.5	14.0	15.0
18	1.5	.0	.5	7.0	3.5	5.0	10.5	5.0	8.0	15.0	12.5	13.5
19	1.5	.0	.5	7.5	3.0	5.5	15.0	9.5	11.5	18.5	11.5	14.5
20	1.5	.0	.5	11.0	6.5	8.5	13.0	8.5	10.5	19.5	12.0	15.5
21	1.5	.0	1.0	9.5	7.0	8.5	13.0	9.0	10.5	20.5	14.5	16.5
22	1.0	.0	.5	7.0	5.5	6.5	11.5	7.5	9.5	19.0	13.0	15.5
23	2.5	.5	1.5	6.5	4.5	5.5	13.5	6.0	9.0	19.5	12.0	15.5
24	2.0	.0	1.0	7.0	3.0	4.5	14.0	7.0	10.0	16.5	14.0	15.5
25	.5	.0	.0	8.5	2.0	5.0	14.0	6.5	10.0	17.5	13.5	15.0
26	1.5	.0	.5	10.0	3.0	6.5	13.5	8.5	10.5	20.0	14.0	16.5
27	1.0	.0	.5	9.5	4.0	6.5	15.0	9.0	11.5	19.5	13.5	16.0
28	.5	.0	.5	10.0	3.5	6.5	15.5	9.5	12.0	16.5	14.0	15.0
29	---	---	---	10.0	3.5	6.5	12.0	9.5	10.5	19.0	14.0	16.0
30	---	---	---	7.5	5.5	7.0	12.0	7.0	9.5	20.0	15.0	17.0
31	---	---	---	7.0	4.5	5.5	---	---	---	21.5	15.5	18.0
MONTH	2.5	.0	.4	11.5	.0	4.6	15.5	.5	7.5	21.5	7.0	14.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	20.0	16.5	18.5	24.0	21.5	22.0	27.0	22.5	24.5	22.0	19.5	21.0
2	22.5	18.5	19.0	21.5	19.5	20.5	25.5	23.5	24.5	21.0	19.0	20.0
3	21.5	18.5	20.0	22.5	18.0	20.0	27.0	23.0	23.5	21.0	17.5	19.0
4	21.5	18.0	19.5	24.0	18.5	21.0	25.5	23.0	24.0	21.5	19.0	20.0
5	22.0	16.5	19.0	25.5	22.0	22.5	24.0	23.0	23.5	22.5	18.5	20.5
6	23.0	17.5	20.5	26.0	21.5	22.5	23.5	22.0	23.0	23.0	20.0	21.5
7	23.5	19.5	21.5	23.5	21.5	22.5	24.5	21.5	23.0	22.0	19.5	21.0
8	22.0	16.5	18.5	21.5	19.0	20.0	24.0	21.0	22.5	19.5	17.5	18.5
9	20.5	15.0	17.5	20.5	18.5	19.5	24.5	20.5	22.5	19.5	17.5	18.5
10	22.0	17.0	19.5	22.5	19.0	20.5	24.5	21.0	23.0	18.0	16.0	17.0
11	23.0	20.0	21.0	23.0	20.0	21.0	25.0	22.5	23.5	19.0	14.5	16.5
12	20.0	18.0	19.0	23.5	19.5	21.5	25.0	23.0	24.0	20.0	15.5	18.0
13	21.5	16.0	18.5	25.5	20.5	22.5	25.0	21.5	23.0	21.0	19.5	20.0
14	22.0	17.5	19.5	27.0	22.5	24.5	25.5	22.5	24.0	20.0	17.5	19.0
15	22.0	17.0	19.5	27.0	24.0	25.5	27.0	24.0	25.5	18.0	16.0	17.0
16	22.5	16.5	19.5	26.0	23.5	25.0	26.0	24.0	25.0	19.0	15.0	17.0
17	23.5	17.0	20.0	26.5	23.5	25.0	26.0	22.0	24.0	19.5	17.5	18.0
18	24.5	20.0	22.0	25.5	21.0	24.0	26.0	22.5	24.5	17.5	15.0	16.5
19	26.0	21.0	23.0	24.0	21.0	22.5	26.5	22.0	24.0	17.5	13.5	15.5
20	25.5	22.0	23.5	23.5	21.5	22.5	26.5	23.0	24.5	18.0	16.0	16.5
21	24.0	19.5	22.0	24.0	22.0	23.0	26.0	24.0	24.5	18.0	17.0	17.5
22	25.5	19.5	22.5	25.0	20.5	22.5	24.5	22.0	23.0	17.5	14.0	16.5
23	25.0	21.5	23.0	26.0	22.5	23.5	24.0	20.5	22.0	15.0	12.0	13.5
24	24.5	21.5	23.0	23.5	22.0	23.0	23.0	21.5	22.5	15.5	12.0	13.5
25	25.0	22.0	23.5	24.5	21.5	23.0	22.0	19.0	20.5	16.0	13.0	14.5
26	25.5	22.5	23.0	25.5	23.0	24.0	22.5	19.5	21.0	17.0	14.0	15.0
27	23.0	22.0	22.5	25.0	23.0	24.0	21.5	20.0	21.0	17.5	14.5	16.0
28	23.5	20.5	22.0	26.5	22.5	24.5	22.5	18.5	20.5	16.0	13.5	15.0
29	24.5	21.0	23.0	26.5	23.0	24.5	23.0	19.5	21.0	17.0	12.0	14.5
30	24.5	22.0	23.0	26.0	22.5	24.0	22.5	19.0	20.5	17.5	14.0	15.5
31	---	---	---	26.5	21.5	24.0	24.0	19.5	21.0	---	---	---
MONTH	26.0	15.0	20.9	27.0	18.0	22.7	27.0	18.5	23.0	23.0	12.0	17.4

STREAMS TRIBUTARY TO LAKE ONTARIO
0423204920 EAST BRANCH ALLEN CREEK AT PITTSFORD, NY--continued
WATER-QUALITY RECORDS

153

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	RESIDUE VOLATILE, SUS- PENDE (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT							
19-19	0950	1800	5.9	17	--	--	--
19-20	1900	1200	4.8	6.4	--	--	--
20-21	1230	1130	4.1	3.4	--	--	--
OCT 31-							
NOV 02	1535	0235	46	34	100	16	<0.01
02-03	0335	1135	38	25	--	--	<0.01
03-07	1200	1100	12	11	--	--	<0.01
28...	1310	--	7.9	7.0	--	--	--
DEC							
05-08	1205	1105	14	13	--	--	--
08-09	1155	1455	7.1	3.8	--	--	--
16-18	2245	0145	19	8.6	--	--	--
18-19	0245	0945	15	6.9	--	--	--
19-23	1045	0945	6.5	3.2	--	--	--
30-31	1015	1715	2.2	2.5	--	--	0.05
JAN							
15-17	1850	0950	5.5	2.8	--	--	--
17-19	1215	1115	4.6	2.0	--	--	--
19-23	1120	1820	28	90	241	38	--
20-23	2320	1020	30	23	--	--	--
23-26	1100	0800	7.3	31	--	--	--
FEB							
09-13	1140	1040	2.2	2.2	--	--	0.03
19-21	1020	0920	6.9	4.7	--	--	--
21-23	1155	0855	6.6	3.0	--	--	<0.01
27-28	1215	0915	19	21	--	--	--
FEB 28-							
MAR 02	0915	0915	11	7.5	--	--	--
05-06	0615	0915	12	12	--	--	0.01
06-08	1310	1210	29	26	--	--	<0.01
08-09	1310	1110	21	13	--	--	<0.01
09-13	1125	1025	15	4.8	--	--	<0.01
13-16	1130	1030	8.3	2.5	--	--	<0.01
16-20	1035	0935	6.0	2.0	--	--	<0.01
APR							
09-09	0910	2010	6.3	11	--	--	--
09-10	2110	1212	4.9	6.3	--	--	--
10-12	1255	0855	5.0	3.0	--	--	--
27-28	2020	1120	12	5.4	--	--	--
APR 28-							
MAY 01	1220	1120	2.6	1.6	--	--	--
08-10	1325	0025	1.3	4.0	--	--	<0.01
10-11	0125	1225	15	14	--	--	0.08
11-15	1325	1225	6.2	2.9	--	--	0.01
15-18	1335	1135	3.4	2.6	--	--	0.05
18-22	1225	1125	2.3	2.6	--	--	0.05
22-25	1400	0100	2.5	7.7	--	--	0.05
25-26	0200	1200	3.0	3.0	--	--	0.07
28-30	1315	1215	5.8	13	--	--	--
30-31	1455	0755	4.1	2.2	--	--	<0.01
MAY 31-							
JUN 01	0855	1355	2.3	2.0	--	--	0.02
02-03	1415	0515	21	160	244	31	--
03-05	0615	1215	2.8	20	--	--	--
25-26	1735	1235	4.6	30	--	--	--
26-27	1425	0125	33	250	--	--	--
27-29	0225	1225	4.0	40	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO
0423204920 EAST BRANCH ALLEN CREEK AT PITTSFORD, NY--continued
WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- ORTHO, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT						
19-19	--	--	0.140	0.043	58	120
19-20	--	--	0.075	0.033	60	120
20-21	--	--	0.055	0.023	67	120
OCT 31-						
NOV 02	0.81	0.64	0.280	0.065	50	69
02-03	1.2	1.60	0.220	0.096	79	58
03-07	0.49	0.81	0.070	0.017	67	190
28...	--	--	0.055	0.019	130	140
DEC						
05-08	--	--	0.100	0.028	170	58
08-09	--	--	0.045	0.007	220	65
16-18	--	--	0.065	0.020	170	60
18-19	--	--	0.060	0.026	120	55
19-23	--	--	0.035	0.014	120	68
30-31	0.63	1.60	0.045	0.006	150	96
JAN						
15-17	--	--	0.035	0.004	160	82
17-19	--	--	0.035	0.005	160	84
19-23	--	--	0.390	0.020	95	56
20-23	--	--	0.140	0.033	88	49
23-26	--	--	0.040	0.009	140	75
FEB						
09-13	0.57	1.50	0.020	0.003	290	130
19-21	--	--	0.045	0.004	240	86
21-23	1.1	2.00	0.045	0.005	190	85
27-28	--	--	0.120	0.007	450	70
FEB 28-						
MAR 02	--	--	0.050	0.009	280	66
05-06	0.94	1.70	0.035	0.009	230	84
06-08	0.84	2.10	0.140	0.017	130	51
08-09	0.77	2.50	0.070	0.016	180	57
09-13	0.94	2.10	0.030	0.007	210	67
13-16	0.84	1.50	0.035	0.002	150	78
16-20	0.80	1.30	0.030	0.002	120	61
APR						
09-09	--	--	0.060	0.009	220	100
09-10	--	--	0.040	0.005	270	110
10-12	--	--	0.035	0.005	180	94
27-28	--	--	0.075	0.010	140	140
APR 28-						
MAY 01	--	--	0.030	0.006	170	180
08-10	0.84	0.23	0.045	0.004	180	290
10-11	1.0	0.61	0.110	0.014	120	140
11-15	0.94	0.40	0.045	0.003	170	160
15-18	1.0	0.45	0.050	0.011	170	220
18-22	0.87	0.51	0.065	0.011	170	250
22-25	1.2	0.47	0.070	0.006	160	250
25-26	1.0	0.67	0.055	0.016	150	230
28-30	--	--	0.085	0.014	120	170
30-31	1.1	0.45	0.055	0.020	170	230
MAY 31						
JUN 01	0.86	0.43	0.060	0.018	110	160
02-03	--	--	0.450	0.017	75	110
03-05	--	--	0.110	0.030	110	140
25-26	--	--	0.230	0.018	60	140
26-27	--	--	0.700	0.027	49	75
27-29	--	--	0.170	0.031	71	140

STREAMS TRIBUTARY TO LAKE ONTARIO
0423204920 EAST BRANCH ALLEN CREEK AT PITTSFORD, NY--continued
WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	RESIDUE VOLATILE, SUS- PENDE (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
JUN 29-							
JUL 03	1300	1000	5.2	38	52	8	--
05-06	1625	0925	25	430	676	84	--
06-10	1350	1150	11	80	126	19	--
17-17	0100	1200	4.4	17	--	--	--
17-19	1250	0250	8.8	55	119	18	--
19-20	0350	1150	15	39	73	12	--
20-24	1235	1135	5.9	21	--	--	--
AUG							
03-03	1220	2320	25	65	137	19	--
04-07	0020	1120	5.7	--	--	--	--
21-24	1425	1215	1.3	9.0	--	--	0.02
AUG 31-							
SEP 01	1550	0950	12	55	--	--	--
01-03	1020	0120	4.3	29	--	--	0.03
14-14	0135	1235	3.8	60	123	19	--
14-18	1310	1210	2.4	7.3	--	--	--
22-25	0940	1140	2.0	16	--	--	--

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHOPHOS- PHOS- TOTAL (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
JUN 29-						
JUL 03	--	--	0.140	0.033	78	150
05-06	--	--	1.10	0.650	49	82
06-10	--	--	0.230	0.045	75	130
17-17	--	--	0.120	0.029	80	140
17-19	--	--	0.170	0.028	62	130
19-20	--	--	0.160	0.024	62	130
20-24	--	--	0.095	0.026	64	130
AUG						
03-03	--	--	0.260	0.027	52	140
04-07	--	--	0.120	0.032	65	120
21-24	0.51	0.45	0.095	0.034	52	140
AUG 31-						
SEP 01	--	--	0.290	0.043	50	120
01-03	0.74	0.56	0.150	0.036	63	49
14-14	--	--	0.190	0.032	46	140
14-18	--	--	0.085	0.032	52	160
22-25	--	--	0.110	0.022	57	170

DRAINAGE AREA.--30.1 mi², flow from 3.5 mi² noncontributing.

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 ft³/s) from Erie (Barge) Canal upstream from station. January 1980 to present, diversion reduced to a maximum of 3 ft³/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 ft³/s and maximum (*):

Date		Time		Discharge (ft ³ /s)	Gage Height (ft)	Date		Time		Discharge (ft ³ /s)	Gage Height (ft)
Aug. 3		1730		*354	*3.92						

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	139	6.6	e12	14	e37	9.3	7.2	5.7	61	13	19
2	14	128	5.7	e8.6	e11	e22	8.3	6.8	31	17	13	9.8
3	12	33	5.3	e6.4	e9.7	e19	8.3	6.5	20	13	79	6.6
4	11	28	4.7	e5.7	e7.8	e14	15	5.8	10	16	39	5.5
5	12	23	67	e6.0	e7.8	e18	10	5.6	7.3	27	27	6.2
6	10	32	37	5.9	e7.5	74	8.5	5.3	6.2	36	35	6.7
7	9.3	30	e36	5.3	e7.0	e74	8.8	4.9	5.2	23	21	6.1
8	9.8	18	e28	5.6	e6.7	86	8.7	5.1	5.7	17	17	9.7
9	9.5	20	39	5.4	e6.5	51	18	4.8	5.2	16	16	15
10	9.9	14	56	4.8	e6.3	e34	21	16	5.0	15	15	8.0
11	9.1	11	68	4.6	e6.1	45	15	46	6.5	15	15	6.4
12	8.9	9.3	29	9.1	e6.0	57	20	17	4.8	14	16	5.6
13	9.0	8.7	e15	17	e5.8	41	28	11	4.8	13	14	8.3
14	8.7	8.3	e12	14	e5.8	30	18	9.3	3.6	13	17	18
15	8.2	7.4	12	15	e5.7	24	14	10	4.4	19	14	9.2
16	8.4	6.8	12	21	e7.0	23	11	7.3	4.2	14	13	6.7
17	8.8	6.9	54	19	e8.0	27	10	6.6	4.0	18	11	8.8
18	7.7	7.0	42	15	e9.5	20	9.4	6.3	4.5	18	5.4	9.0
19	19	6.3	28	13	e14	17	9.4	5.6	4.2	37	4.9	6.6
20	15	5.9	20	127	e20	16	7.8	5.1	3.7	17	4.7	6.7
21	11	13	17	123	e24	18	7.6	9.2	4.1	22	4.8	8.0
22	9.8	10	14	62	e20	20	8.4	4.8	3.6	16	4.9	19
23	9.3	7.0	13	33	e17	17	6.8	4.6	4.7	38	4.6	10
24	9.2	7.3	12	24	e27	14	6.1	6.0	5.4	29	4.1	7.2
25	9.1	6.3	11	20	e13	12	5.9	8.0	6.4	21	4.5	7.1
26	9.0	5.7	9.4	19	e12	11	5.4	5.3	47	28	4.6	7.2
27	9.0	5.9	8.6	e16	e26	9.9	6.2	4.0	18	19	4.8	6.9
28	8.7	28	8.6	e13	75	9.4	16	17	11	17	5.0	6.0
29	8.6	13	8.0	e10	---	8.7	8.2	14	9.4	30	4.9	5.5
30	8.8	7.7	6.2	e10	---	11	7.2	6.8	14	16	4.2	5.4
31	13	---	6.4	e11	---	10	---	5.1	---	14	40	---
TOTAL	320.8	646.5	691.5	661.4	386.2	870.0	336.3	277.0	269.6	669	476.4	260.2
MEAN	10.3	21.5	22.3	21.3	13.8	28.1	11.2	8.94	8.99	21.6	15.4	8.67
MAX	19	139	68	127	75	86	28	46	47	61	79	19
MIN	7.7	5.7	4.7	4.6	5.7	8.7	5.4	4.0	3.6	13	4.1	5.5

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1995, BY WATER YEAR (WY)

MEAN	25.3	31.9	31.2	22.4	34.4	57.5	47.0	33.1	27.6	22.2	24.9	23.3
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

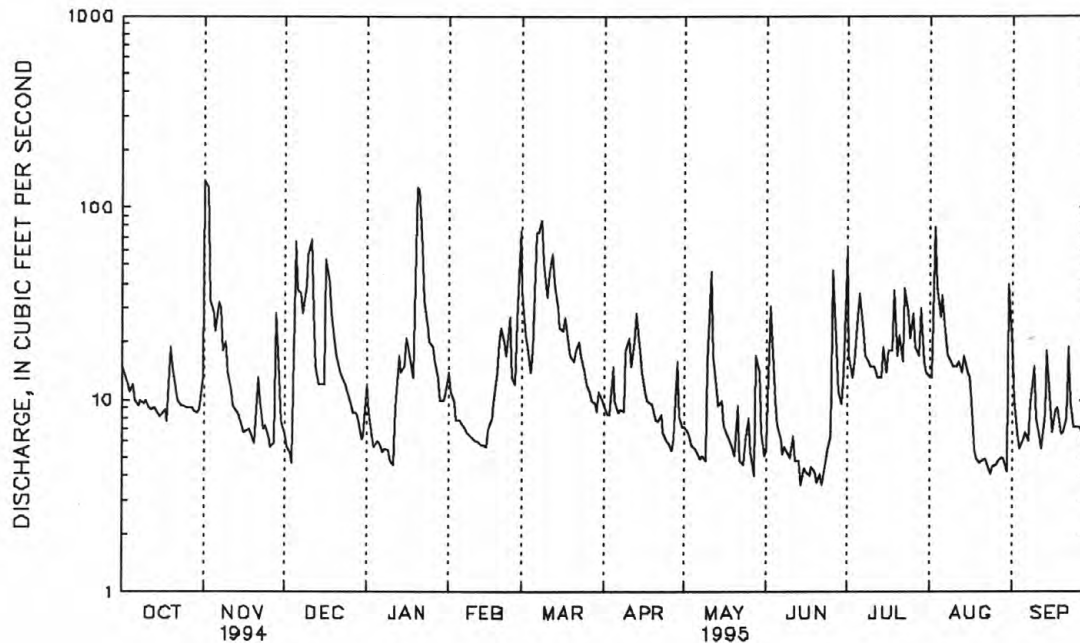
STREAMS TRIBUTARY TO LAKE ONTARIO
04232050 ALLEN CREEK NEAR ROCHESTER, NY--continued

157

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1960 - 1995	
ANNUAL TOTAL	9376.6		5864.9		31.5	
ANNUAL MEAN	25.7		16.1		16.1	
HIGHEST ANNUAL MEAN					50.6	
LOWEST ANNUAL MEAN					16.1	
HIGHEST DAILY MEAN	341	Apr 13	139	Nov 1	1970	Mar 30 1960
LOWEST DAILY MEAN	4.7	Dec 4	3.6	a	1.7	Jan 24 1963
ANNUAL SEVEN-DAY MINIMUM	6.1	Jan 9	4.0	Jun 16	2.3	Feb 15 1962
INSTANTANEOUS PEAK FLOW			354	Aug 3	b3280	May 17 1974
INSTANTANEOUS PEAK STAGE			3.92	Aug 3	7.42	May 17 1974
10 PERCENT EXCEEDS	54		31		56	
50 PERCENT EXCEEDS	13		10		20	
90 PERCENT EXCEEDS	7.0		5.2		7.8	

a June 14, 22.

b From rating curve extended above 1,000 ft³/s on basis of contracted-opening measurement of peak discharge and step-backwater analysis.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
04232050 ALLEN CREEK NEAR ROCHESTER, NY--continued
WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to current year.

CHEMICAL DATA: 1983-95 (e).

NUTRIENT DATA: 1983-95 (e).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1994 to September 1995

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 CURRENT PERIOD.--

WATER TEMPERATURES: Maximum, 25.5°C, July 15, Aug. 15; minimum, 0.0°C, many days during winter period.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	6.0	4.5	5.5	4.5	3.5	4.0
2	---	---	---	---	---	---	6.5	5.0	5.5	4.0	2.0	3.0
3	---	---	---	---	---	---	6.5	5.0	6.0	3.0	1.5	2.0
4	---	---	---	---	---	---	8.5	6.5	7.5	2.0	.0	.5
5	---	---	---	---	---	---	9.5	8.0	9.0	.0	.0	.0
6	---	---	---	---	---	---	9.0	8.0	9.0	.0	.0	.0
7	---	---	---	---	---	---	8.0	4.5	6.0	2.5	.0	1.5
8	---	---	---	---	---	---	4.5	3.5	4.0	2.5	1.5	2.0
9	---	---	---	---	---	---	4.5	3.0	3.5	2.0	1.0	1.5
10	---	---	---	10.5	8.5	9.5	4.0	3.5	3.5	1.5	.5	1.0
11	---	---	---	8.5	7.5	8.0	4.0	2.0	3.5	3.0	.5	1.5
12	---	---	---	9.0	6.5	7.5	2.0	1.5	2.0	5.5	3.0	4.0
13	---	---	---	10.0	9.0	9.5	3.0	1.0	2.0	6.0	4.5	5.0
14	---	---	---	12.0	9.5	10.5	3.5	2.0	2.5	7.5	4.0	5.5
15	---	---	---	12.0	9.0	11.0	4.5	3.5	4.0	9.0	7.5	8.0
16	---	---	---	9.0	7.0	8.5	4.5	3.5	4.0	7.5	6.5	7.0
17	---	---	---	8.5	5.5	7.0	4.5	3.0	3.5	6.5	5.0	6.0
18	---	---	---	10.5	7.5	9.0	4.5	3.5	4.0	6.5	5.0	5.5
19	---	---	---	9.5	8.0	9.0	4.5	4.0	4.5	6.5	5.0	5.5
20	---	---	---	8.5	6.5	7.5	5.0	4.0	4.5	6.0	5.5	6.0
21	---	---	---	10.0	7.5	8.5	5.0	3.5	4.5	5.5	4.5	5.0
22	---	---	---	9.5	6.0	8.5	4.5	3.0	4.0	4.5	3.0	4.0
23	---	---	---	6.5	3.5	4.5	5.0	3.5	4.5	3.5	2.5	3.0
24	---	---	---	5.5	3.5	4.5	5.0	4.5	5.0	4.0	3.0	3.5
25	---	---	---	6.0	5.0	5.5	4.5	3.5	4.0	4.5	3.0	4.0
26	---	---	---	5.0	3.0	4.0	4.0	2.5	3.5	3.5	2.5	3.0
27	---	---	---	4.0	2.0	3.0	4.0	2.5	3.5	3.0	2.0	2.5
28	---	---	---	6.5	3.5	6.0	4.5	3.5	4.0	3.0	1.5	2.0
29	---	---	---	7.0	6.0	6.5	4.5	1.0	2.5	3.0	1.5	2.5
30	---	---	---	6.5	6.0	6.0	2.0	.5	1.0	2.5	2.0	2.5
31	---	---	---	---	---	---	3.5	1.0	2.5	4.0	2.5	3.0
MONTH	---	---	---	---	---	---	9.5	.5	4.3	9.0	.0	3.4

STREAMS TRIBUTARY TO LAKE ONTARIO
04232050 ALLEN CREEK NEAR ROCHESTER, NY--continued

159

WATER-QUALITY RECORDS
WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	3.5	3.0	3.5	2.5	1.0	1.5	8.5	4.5	6.0	15.5	8.0	11.0
2	3.5	1.5	2.5	2.5	.0	1.0	8.0	5.0	6.0	12.5	9.5	11.0
3	3.0	.0	1.0	2.5	.0	1.0	8.0	4.5	6.0	14.5	9.5	11.5
4	3.5	1.0	2.0	3.5	.0	1.5	7.0	4.5	6.5	15.0	9.5	12.0
5	1.5	.0	.5	3.5	.5	2.0	5.0	2.5	3.5	17.0	11.0	13.0
6	1.5	.0	.5	3.0	2.0	2.5	5.0	3.0	4.0	16.5	11.5	13.0
7	1.5	.0	.5	5.0	2.0	3.5	7.0	4.0	5.0	16.0	9.5	12.0
8	2.0	.0	.5	5.0	1.0	3.0	6.0	4.5	5.5	15.5	9.5	12.0
9	2.0	.5	1.0	2.0	.5	1.0	6.0	4.0	5.5	13.5	10.0	11.5
10	2.5	1.0	2.0	2.5	.0	1.0	6.5	2.5	4.5	16.0	10.0	13.0
11	2.5	.0	1.5	5.0	1.0	3.0	9.5	4.0	6.0	14.5	13.0	13.5
12	1.0	.0	.0	6.5	2.5	4.5	9.0	7.5	8.5	14.0	12.5	13.0
13	.0	.0	.0	8.0	4.0	6.0	8.5	7.5	8.0	16.5	11.5	13.5
14	.5	.0	.5	9.0	5.0	7.0	7.5	6.5	7.0	16.0	13.0	14.0
15	1.5	.0	.5	10.0	6.0	8.0	9.5	5.0	7.0	15.5	12.5	14.0
16	3.5	1.5	2.5	10.5	7.5	9.0	10.0	5.5	7.5	19.0	12.5	15.0
17	3.5	1.0	2.5	9.0	6.0	7.5	8.5	6.0	7.5	15.0	13.5	14.5
18	4.5	1.5	2.5	7.5	5.0	6.0	9.5	6.5	8.0	14.5	12.0	13.0
19	4.5	1.5	3.0	7.5	4.5	6.0	13.0	9.0	10.5	19.0	11.5	14.0
20	3.5	1.0	2.5	10.0	6.5	8.5	12.0	8.5	10.0	19.5	11.5	14.5
21	2.0	1.0	1.5	9.0	7.5	8.5	11.5	9.0	10.0	17.0	12.5	14.0
22	2.5	.5	1.5	7.5	6.5	7.0	10.5	8.0	9.5	19.5	12.5	15.0
23	3.5	2.0	3.0	7.0	5.5	6.0	13.0	7.0	9.0	19.5	11.5	15.0
24	3.0	1.0	2.0	7.5	4.5	5.5	13.5	7.5	9.5	15.5	12.0	14.5
25	2.5	.0	1.5	7.5	4.5	6.0	13.0	7.0	10.0	16.5	12.0	14.0
26	1.5	.0	.5	9.0	5.0	6.5	12.5	9.0	10.5	20.5	13.5	15.5
27	2.5	.5	1.0	8.5	5.5	6.5	14.5	9.0	11.0	21.0	13.0	15.5
28	1.0	.5	1.0	9.0	5.5	7.0	14.0	10.0	11.5	15.0	12.5	14.5
29	---	---	---	9.5	5.0	7.0	12.0	9.5	10.5	16.5	14.0	14.5
30	---	---	---	7.5	6.5	7.0	11.5	7.5	9.5	20.0	14.0	16.0
31	---	---	---	7.0	5.5	6.0	---	---	---	21.0	14.5	17.0
MONTH	4.5	.0	1.5	10.5	.0	5.0	14.5	2.5	7.8	21.0	8.0	13.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	18.5	15.0	17.0	22.0	18.0	20.0	25.0	21.0	23.0	21.5	19.0	20.0
2	21.0	16.5	18.0	20.5	17.5	19.0	23.5	22.0	22.5	19.5	17.5	18.5
3	20.5	18.0	19.0	20.0	16.0	18.0	24.0	21.5	22.5	19.5	16.0	17.5
4	20.0	16.5	17.5	20.5	16.5	18.5	23.5	22.5	23.0	20.0	17.0	18.5
5	21.0	14.5	17.5	22.5	19.0	20.5	23.0	22.0	22.5	20.5	16.5	18.5
6	21.5	16.0	18.5	23.5	20.0	21.5	22.5	21.5	22.0	21.5	18.5	19.5
7	22.0	17.5	19.5	21.5	20.5	21.0	23.0	20.5	21.5	20.0	18.0	19.0
8	19.5	14.5	16.5	20.5	18.0	19.0	22.5	20.0	21.0	18.0	16.5	17.0
9	20.0	13.0	15.5	19.5	17.5	18.5	23.0	19.5	21.0	17.5	16.0	17.0
10	20.0	15.5	17.5	21.0	17.5	19.0	22.5	19.5	21.0	16.5	14.5	15.5
11	21.5	18.0	19.5	21.5	18.5	19.5	23.0	21.0	22.0	17.0	13.0	14.5
12	19.0	16.0	17.5	21.5	18.5	20.0	23.5	21.5	22.5	18.0	13.5	16.0
13	21.0	14.5	17.0	23.0	18.5	20.5	23.5	20.5	22.0	19.5	17.5	18.5
14	22.0	15.5	17.5	24.5	20.5	22.0	23.5	21.0	22.0	18.5	17.0	18.0
15	21.0	15.0	17.0	25.5	22.0	23.5	25.5	22.0	23.5	17.0	15.0	16.0
16	21.5	14.5	17.0	23.5	22.0	22.5	24.5	22.5	23.0	17.5	14.0	15.5
17	21.5	15.0	18.0	25.0	22.0	23.0	24.0	21.0	22.5	17.5	16.0	16.5
18	24.0	18.0	20.5	23.5	21.0	22.0	25.0	21.5	22.5	17.0	14.0	15.5
19	25.0	19.0	21.5	23.0	20.5	21.5	24.5	20.5	22.0	16.0	12.5	14.0
20	25.0	19.5	21.5	21.5	20.0	21.0	24.5	21.0	22.5	16.0	14.5	15.0
21	23.5	18.0	20.0	23.0	20.5	21.5	24.5	21.5	22.5	17.0	16.0	16.5
22	24.5	18.0	20.5	23.0	19.5	21.0	22.0	19.5	20.5	16.0	15.0	16.0
23	23.0	19.5	21.0	24.0	21.5	22.5	22.5	18.5	20.0	15.0	13.0	14.0
24	21.5	19.5	20.5	23.5	21.5	22.0	22.0	19.0	20.5	14.0	11.5	12.5
25	22.5	19.5	20.5	23.0	21.0	22.0	21.0	17.0	18.5	14.5	12.0	13.5
26	24.0	18.5	21.0	24.5	22.0	23.0	19.5	17.5	18.5	15.5	13.0	14.5
27	21.0	19.0	20.0	23.5	22.0	22.5	19.0	18.0	19.0	16.5	13.5	15.0
28	19.5	17.5	18.5	25.0	21.5	23.0	20.5	16.5	18.5	15.5	13.0	14.5
29	19.5	17.5	18.5	25.0	23.0	24.0	21.5	17.5	19.0	15.5	11.5	13.0
30	22.5	18.5	19.5	24.5	21.5	22.5	21.0	17.5	19.0	16.0	13.0	14.5
31	---	---	---	24.5	20.0	22.0	22.5	17.5	19.5	---	---	---
MONTH	25.0	13.0	18.8	25.5	16.0	21.2	25.5	16.5	21.3	21.5	11.5	16.1

STREAMS TRIBUTARY TO LAKE ONTARIO
04232050 ALLEN CREEK NEAR ROCHESTER, NY--continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	RESIDUE VOLA- TILE, SUS- PENDED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT							
19-19	1145	1945	31	34	124	19	--
19-20	2045	1045	16	19	--	--	--
OCT 31-							
NOV 02	1735	0435	116	50	222	59	<0.01
02-03	0535	1035	62	29	--	--	<0.01
28...	1205	--	28	13	--	--	--
DEC							
05-05	0005	1005	23	16	--	--	--
05-08	1055	0955	41	40	97	16	--
08-09	1030	1330	23	14	--	--	--
16-18	2135	0035	50	36	65	11	--
30-31	0845	1545	6.2	4.3	--	--	0.02
JAN							
15-17	1715	0815	20	6.1	--	--	--
17-19	1105	0905	15	5.5	--	--	--
20-20	0410	1710	128	180	443	56	--
20-21	1810	0910	161	70	165	24	--
23-26	0920	0820	23	4.6	--	--	--
FEB							
09-13	1025	0925	6.2	3.5	--	--	0.01
19-21	1300	0800	19	5.4	--	--	--
21-23	1050	0750	21	4.8	--	--	<0.01
27-28	1100	1000	47	50	157	29	--
FEB 28-							
MAR 02	1100	0800	40	12	--	--	--
05-06	0500	0800	35	14	--	--	<0.01
06-08	1125	1325	81	28	--	--	<0.01
08-09	1425	0925	64	26	--	--	<0.01
09-13	0955	0855	47	8.2	--	--	<0.01
13-16	1020	0820	28	3.4	--	--	<0.01
17-21	0935	0835	19	2.5	--	--	<0.01
APR							
09-09	1140	2240	26	9.3	--	--	--
09-10	2340	1040	23	9.4	--	--	--
10-12	1140	1340	16	3.5	--	--	--
27-28	1515	0615	15	2.6	--	--	--
APR 28-							
MAY 01	0715	1015	8.7	2.5	--	--	--
08-09	1215	2315	4.8	1.6	--	--	0.02
10-11	0015	1115	29	12	--	--	0.02
15-18	1225	1125	7.2	3.1	--	--	0.03
18-22	1125	1125	6.3	1.6	--	--	0.04
28-29	1140	0240	29	26	--	--	--
29-30	0340	1040	11	6.0	--	--	--
JUN							
02-03	1655	0755	57	110	376	50	--
03-04	0855	1055	13	17	244	34	--
25-26	1640	1140	14	12	--	--	--
26-26	1300	2400	82	100	--	--	--
27-29	0100	1100	14	17	--	--	--
JUN 29-							
JUL 03	1150	0850	26	19	--	--	--
05-06	1820	0820	45	80	149	20	--
06-10	1230	1130	21	43	--	--	--
17-19	1145	0445	25	22	--	--	--
19-20	0545	1045	23	28	--	--	--
20-24	1125	1025	25	17	--	--	--
AUG							
21-24	1320	1010	4.6	2.8	--	--	<0.01
AUG 31-							
SEP 01	1450	0850	63	90	--	--	--
01-03	0905	0005	12	16	--	--	0.03
14-14	0320	1120	17	15	--	--	--
14-18	1125	1025	10	5.7	--	--	--
22-22	0800	2300	26	16	--	--	--
23-25	2400	1100	7.1	5.6	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO
04232050 ALLEN CREEK NEAR ROCHESTER, NY--continued

161

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN,AM- MONIA + ORGANIC (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT						
19-19	--	--	0.210	0.021	71	84
19-20	--	--	0.110	0.023	75	69
OCT 31-						
NOV 02	0.58	0.45	0.410	0.044	64	49
02-03	0.80	0.84	0.200	0.054	96	47
28...	--	--	0.085	0.028	260	73
DEC						
05-05	--	--	0.140	0.023	190	81
05-08	--	--	0.200	0.021	250	48
08-09	--	--	0.075	0.012	330	60
16-18	--	--	0.110	0.019	220	55
30-31	0.44	1.30	0.035	0.008	220	83
JAN						
15-17	--	--	0.055	0.006	260	74
17-19	--	--	0.055	0.012	240	71
20-20	--	--	0.560	0.010	170	52
20-21	--	--	0.300	0.023	110	38
23-26	--	--	0.055	0.006	240	66
FEB						
09-13	0.57	1.40	0.045	0.008	660	100
19-21	--	--	0.050	0.002	500	79
21-23	0.0	1.30	0.065	0.009	370	53
27-28	--	--	0.200	0.009	700	58
FEB 28-						
MAR 02	--	--	0.080	0.007	480	52
05-06	1.0	1.20	0.100	0.008	330	59
06-08	0.85	1.20	0.160	0.010	250	51
08-09	0.85	1.40	0.140	0.010	280	47
09-13	0.86	1.30	0.070	0.006	410	65
13-16	1.2	0.88	0.050	0.003	270	66
17-21	0.96	0.88	0.040	0.002	320	76
APR						
09-09	--	--	0.055	0.005	380	79
09-10	--	--	0.045	0.004	370	66
10-12	--	--	0.050	0.003	340	72
27-28	--	--	0.055	0.006	270	91
APR 28-						
MAY 01	--	--	0.035	0.006	270	89
08-09	0.94	0.61	0.035	<0.001	260	120
10-11	0.88	0.83	0.120	0.004	190	87
15-18	0.96	0.74	0.060	0.016	290	96
18-22	0.92	0.97	0.045	0.011	270	100
28-29	--	--	0.210	0.006	180	75
29-30	--	--	0.075	0.013	170	66
JUN						
02-03	--	--	0.450	0.015	100	49
03-04	--	--	0.140	0.035	160	65
25-26	--	--	0.160	0.022	110	100
26-26	--	--	0.180	0.018	61	57
27-29	--	--	0.140	0.031	150	74
JUN 29-						
JUL 03	--	--	0.160	0.038	150	78
05-06	--	--	0.270	0.041	86	72
06-10	--	--	0.195	0.038	100	87
17-19	--	--	0.170	0.028	88	86
19-20	--	--	0.160	0.026	130	67
20-24	--	--	0.090	0.022	110	74
AUG						
21-24	0.49	0.61	0.070	0.028	120	100
AUG 31-						
SEP 01	--	--	0.530	0.080	56	59
01-03	1.0	0.99	0.130	0.041	100	83
14-14	--	--	0.090	0.022	98	87
14-18	--	--	0.070	0.025	110	89
22-22	--	--	0.120	0.029	91	89
23-25	--	--	0.070	0.027	120	86

STREAMS TRIBUTARY TO LAKE ONTARIO

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 mi², flow from 8.45 mi² 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Nov. 2	0215	*658	*7.06				

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	71	341	98	71	e80	194	82	69	46	132	37	78
2	73	439	93	72	e85	148	77	65	88	73	37	37
3	66	191	74	e60	e70	e100	74	62	109	55	159	34
4	60	127	66	e42	e70	e100	90	59	70	56	114	32
5	63	101	196	e40	e60	e95	78	57	55	71	66	32
6	60	118	207	e46	e65	e220	73	55	47	172	77	35
7	57	128	181	e44	e65	263	74	52	43	102	59	32
8	55	98	162	e48	e62	344	75	51	41	62	50	40
9	53	98	148	e46	e60	258	95	52	39	55	46	52
10	53	90	209	e42	e60	e190	118	74	38	49	43	37
11	51	73	241	e44	e60	e190	107	146	42	47	43	33
12	50	59	174	e48	e60	263	107	95	39	43	47	32
13	50	58	e100	e80	e58	240	141	76	37	40	43	36
14	51	58	97	91	e58	192	125	68	35	41	40	55
15	50	56	85	94	e58	164	110	65	36	55	41	42
16	49	52	84	113	e65	154	96	57	35	45	39	35
17	49	49	161	111	70	161	87	56	35	54	37	36
18	48	49	179	99	71	154	71	55	35	44	32	39
19	67	48	151	84	82	133	58	55	34	111	30	34
20	68	48	123	245	106	121	54	54	33	51	31	34
21	58	64	104	447	e130	124	52	59	32	53	31	39
22	52	72	91	300	108	133	52	49	32	45	30	61
23	51	62	83	185	100	132	50	47	32	71	30	53
24	50	58	79	142	e120	117	50	51	33	67	29	40
25	59	59	77	124	e90	105	53	57	33	57	29	38
26	62	58	72	117	e75	97	56	50	117	59	29	38
27	49	57	68	109	e100	92	75	45	91	47	30	37
28	49	93	67	93	238	87	137	67	49	45	31	35
29	48	78	65	e80	---	83	91	76	42	66	31	34
30	45	62	57	e75	---	87	75	54	52	44	30	33
31	52	---	60	85	---	84	---	48	---	39	104	---
TOTAL	1719	2944	3652	3277	2326	4825	2483	1926	1450	1951	1475	1193
MEAN	55.5	98.1	118	106	83.1	156	82.8	62.1	48.3	62.9	47.6	39.8
MAX	73	439	241	447	238	344	141	146	117	172	159	78
MIN	45	48	57	40	58	83	50	45	32	39	29	32

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1995, BY WATER YEAR (WY)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	84.3	121	143	126	167	214	232	142	90.2	70.1	83.3	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			

STREAMS TRIBUTARY TO LAKE ONTARIO

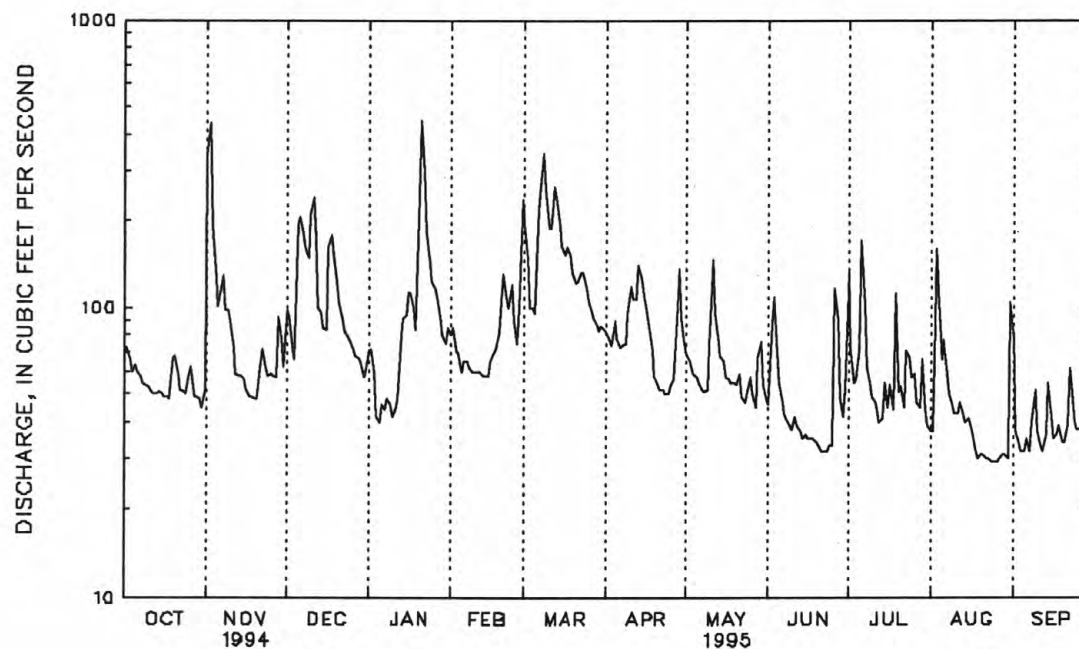
163

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1981 - 1995	
ANNUAL TOTAL	47093		29221		130	
ANNUAL MEAN	129		80.1		182	
HIGHEST ANNUAL MEAN					80.1	
LOWEST ANNUAL MEAN					1630	
HIGHEST DAILY MEAN	1010	Mar 23	447	Jan 21	29	Apr 2 1993
LOWEST DAILY MEAN	38	a	29	b	30	Aug 20 1985
ANNUAL SEVEN-DAY MINIMUM	40	Jul 20	30	Aug 21	1710	Aug 21 1995
INSTANTANEOUS PEAK FLOW			658	Nov 2	9.12	Apr 2 1993
INSTANTANEOUS PEAK STAGE			7.06	Nov 2	27	Aug 31 1995
INSTANTANEOUS LOW FLOW			27	Aug 31	247	
10 PERCENT EXCEEDS	248		147		87	
50 PERCENT EXCEEDS	75		60		45	
90 PERCENT EXCEEDS	49		35			

a July 24, Aug. 1.

b Aug. 24, 25, 26.



DAILY MEAN DISCHARGE FOR — 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1983 to current year.

CHEMICAL DATA: 1983-95 (e).

NUTRIENT DATA: 1983-95 (e).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1994 to September 1995

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 CURRENT PERIOD.--

WATER TEMPERATURES: Maximum, 26.0°C, July 14, 15; minimum 0.0°C, many days during winter period.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	6.5	4.5	5.5	3.5	2.0	3.0
2	---	---	---	---	---	---	6.5	5.5	6.0	3.5	1.5	2.5
3	---	---	---	---	---	---	6.0	5.0	5.5	1.5	1.0	1.0
4	---	---	---	---	---	---	7.5	5.5	6.5	1.0	.0	.5
5	---	---	---	---	---	---	9.0	7.5	8.5	.5	.0	.0
6	---	---	---	---	---	---	9.0	8.0	8.5	.5	.0	.5
7	---	---	---	---	---	---	8.0	4.5	6.0	.5	.5	.5
8	---	---	---	---	---	---	4.5	3.0	3.5	1.0	.5	.5
9	---	---	---	---	---	---	3.5	2.0	2.5	1.0	.0	.5
10	---	---	---	10.5	8.5	9.5	3.5	3.0	3.5	.5	.0	.5
11	---	---	---	8.5	7.0	8.0	3.5	2.0	3.0	.5	.0	.5
12	---	---	---	8.0	6.0	7.0	2.0	.5	1.5	3.0	.5	1.5
13	---	---	---	9.5	8.0	9.0	1.0	.5	.5	5.5	3.0	4.0
14	---	---	---	11.5	9.0	10.0	2.0	.5	1.0	7.0	4.5	5.5
15	---	---	---	11.5	9.5	11.0	3.0	2.0	2.5	9.0	7.0	8.0
16	---	---	---	9.5	7.5	9.0	3.5	2.5	3.0	8.0	6.5	7.5
17	---	---	---	8.0	6.0	7.0	4.0	3.0	3.5	6.5	4.5	5.5
18	---	---	---	10.0	7.0	8.5	4.0	3.5	4.0	5.5	4.5	5.0
19	---	---	---	9.0	8.0	8.5	4.0	3.5	4.0	5.0	4.0	4.5
20	---	---	---	8.0	7.0	7.5	4.5	3.5	4.0	7.0	5.0	6.0
21	---	---	---	9.5	7.5	8.5	4.0	3.0	3.5	6.0	5.0	5.5
22	---	---	---	9.0	6.0	8.0	3.5	2.5	3.0	5.0	3.5	4.0
23	---	---	---	6.0	4.0	5.0	4.0	2.5	3.5	3.5	2.5	2.5
24	---	---	---	5.0	3.5	4.5	4.5	4.0	4.0	3.0	2.5	2.5
25	---	---	---	6.0	4.5	5.0	4.0	3.0	3.5	3.5	2.5	3.0
26	---	---	---	5.0	3.5	4.5	3.0	2.0	2.5	3.0	2.0	2.5
27	---	---	---	3.5	2.5	3.0	3.0	1.5	2.5	2.5	1.5	2.0
28	---	---	---	6.5	3.0	5.5	3.5	2.5	3.0	1.5	.0	1.0
29	---	---	---	6.0	6.0	6.0	3.5	.5	2.5	1.5	.0	.5
30	---	---	---	6.0	5.5	5.5	1.0	.0	.5	1.0	.0	.5
31	---	---	---	---	---	---	2.0	.0	1.0	2.5	.5	1.5
MONTH	---	---	---	---	---	---	9.0	.0	3.6	9.0	.0	2.7

STREAMS TRIBUTARY TO LAKE ONTARIO
0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY--Continued

165

WATER-QUALITY RECORDS

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	3.0	2.0	2.5	2.5	1.0	1.5	8.5	4.5	6.5	14.5	9.0	11.5
2	3.0	.5	2.0	2.0	.5	1.0	9.0	5.0	7.0	13.0	10.5	11.5
3	1.0	.0	.5	1.5	.0	.5	8.0	5.5	6.5	15.0	10.5	12.5
4	1.0	.0	.5	2.5	.0	1.0	7.5	4.5	7.0	15.5	11.0	13.0
5	.5	.0	.0	3.0	.5	2.0	4.5	2.5	3.5	16.5	12.0	14.0
6	.5	.0	.0	3.5	2.5	3.0	4.0	2.5	3.0	17.0	12.5	14.5
7	.5	.0	.0	4.5	2.5	3.5	6.5	3.5	4.5	16.0	11.5	13.5
8	.5	.0	.0	5.0	1.5	3.5	5.5	4.0	4.5	15.5	10.5	13.0
9	.5	.0	.5	2.0	.5	1.0	5.5	4.0	5.0	13.5	11.0	12.5
10	.5	.0	.5	2.5	.0	1.0	6.0	3.0	4.5	17.5	12.0	14.5
11	.5	.0	.5	4.0	1.0	2.5	9.0	3.5	6.0	16.0	14.0	15.0
12	.5	.0	.5	6.0	2.5	4.0	9.5	8.5	9.0	14.5	13.5	14.5
13	.5	.0	.5	7.5	4.0	5.5	9.0	8.0	8.5	18.5	12.5	15.0
14	.5	.0	.5	8.5	5.5	7.0	8.0	7.0	7.5	17.5	15.0	16.0
15	.5	.0	.5	10.0	6.5	8.0	9.5	5.5	7.0	18.5	15.0	16.5
16	.5	.5	.5	11.0	8.0	9.5	10.5	6.0	8.0	19.0	14.5	16.5
17	1.5	.5	.5	10.0	7.0	8.5	11.0	6.5	8.5	16.5	15.5	16.0
18	2.0	.5	1.0	7.5	5.5	6.5	10.5	7.0	9.0	15.5	13.5	14.5
19	3.0	1.0	2.0	7.5	5.0	6.0	14.0	10.0	11.5	17.5	12.5	14.5
20	3.5	1.5	2.5	10.0	7.0	8.5	13.5	10.0	11.5	18.0	13.5	16.0
21	3.0	1.5	2.5	9.5	8.0	9.0	12.5	10.5	11.5	19.5	15.0	17.0
22	2.5	.5	1.5	8.0	7.0	7.5	12.0	9.0	10.5	18.5	14.5	16.5
23	3.0	2.0	2.5	7.0	6.0	6.5	12.5	8.0	10.0	18.5	14.0	16.0
24	3.0	1.0	2.0	7.0	4.5	6.0	13.0	8.5	10.5	17.0	15.0	16.0
25	1.0	.0	.5	8.0	4.0	6.0	13.0	8.5	10.5	17.5	14.0	15.5
26	1.0	.0	.5	9.0	5.0	7.0	13.0	10.0	11.0	19.0	14.5	16.5
27	1.5	.0	.5	9.0	5.5	7.0	14.0	10.0	11.5	19.5	15.0	17.0
28	2.0	1.0	1.0	9.5	5.5	7.5	13.5	11.0	12.0	17.0	15.0	15.5
29	---	---	---	10.0	5.5	7.5	12.5	11.0	11.5	19.0	15.0	16.5
30	---	---	---	8.5	7.0	8.0	12.0	9.5	10.5	20.0	16.0	17.5
31	---	---	---	7.5	6.0	6.5	---	---	---	21.0	16.0	18.5
MONTH	3.5	.0	.9	11.0	.0	5.2	14.0	2.5	8.3	21.0	9.0	15.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	19.5	16.5	18.0	22.5	20.0	21.0	25.5	20.5	23.0	21.5	19.0	20.0
2	21.0	17.5	18.5	21.0	18.5	19.5	24.0	22.0	22.5	20.0	17.5	18.5
3	21.5	19.0	20.5	21.0	17.0	18.5	24.0	21.0	22.5	19.0	16.0	17.5
4	21.5	18.0	19.5	21.5	17.0	19.0	24.0	23.0	23.5	19.5	16.5	18.0
5	21.0	16.5	18.5	23.0	19.5	21.0	23.0	22.0	22.5	20.5	16.5	18.5
6	21.5	17.0	19.5	23.5	21.0	22.0	22.0	21.0	21.5	21.5	18.0	19.5
7	22.5	18.5	20.5	23.0	21.0	22.0	23.0	20.0	21.5	20.5	18.5	19.5
8	21.0	16.0	18.0	21.5	18.0	19.5	23.0	19.5	21.0	18.5	16.5	17.0
9	19.0	14.0	16.5	19.5	17.5	18.5	23.0	19.0	21.0	17.5	16.0	16.5
10	20.5	15.5	17.5	21.5	17.5	19.0	23.0	19.0	21.0	16.5	14.5	15.5
11	22.0	18.0	20.0	21.5	18.5	19.5	23.0	20.5	21.5	16.0	12.5	14.0
12	19.5	17.5	18.5	22.5	18.0	20.0	23.0	21.0	22.0	17.5	13.0	15.0
13	20.0	15.0	17.5	24.0	19.0	21.5	23.5	20.0	21.5	19.0	16.5	17.5
14	21.0	16.0	18.5	26.0	21.0	23.0	23.0	20.5	22.0	18.5	17.0	18.0
15	20.5	15.5	18.0	26.0	23.0	24.5	25.0	21.5	23.0	17.0	15.0	16.0
16	20.5	15.5	18.0	25.0	22.5	23.5	25.0	22.0	23.5	17.0	13.5	15.0
17	21.5	15.5	18.5	25.0	22.0	23.5	24.5	20.5	22.5	16.5	15.5	16.0
18	23.0	18.0	20.5	24.5	21.5	23.0	24.5	21.0	22.5	16.5	14.5	15.5
19	25.0	19.5	22.0	22.5	20.5	21.5	24.0	20.5	22.0	15.5	12.0	14.0
20	25.0	21.0	23.0	21.5	19.5	20.5	24.0	20.5	22.5	15.0	13.5	14.0
21	23.5	19.0	21.0	23.0	20.0	21.0	24.5	21.0	23.0	16.0	15.0	15.5
22	24.0	19.0	21.5	23.0	19.0	21.0	23.0	20.5	21.5	15.5	14.5	15.0
23	23.5	20.0	22.0	23.5	21.0	22.0	21.5	18.0	20.0	14.5	12.5	13.5
24	22.5	20.0	21.5	22.5	21.0	21.5	22.0	19.5	20.5	13.5	11.0	12.0
25	23.0	20.0	21.5	22.5	20.0	21.5	20.0	17.0	19.0	14.0	11.0	12.5
26	23.5	21.0	22.0	24.5	21.0	22.5	19.0	17.0	18.0	15.0	12.5	13.5
27	22.5	20.5	21.5	23.5	21.5	22.5	19.0	18.0	18.0	16.0	13.0	14.0
28	21.5	19.0	20.5	25.0	21.0	22.5	19.5	16.0	18.0	15.0	13.0	14.0
29	22.5	19.0	20.5	25.5	22.5	24.0	20.5	17.0	19.0	15.0	11.0	13.0
30	23.0	20.5	21.5	25.0	21.0	23.0	20.5	17.0	19.0	15.5	12.5	14.0
31	---	---	---	25.0	20.0	22.5	22.0	17.0	19.0	---	---	---
MONTH	25.0	14.0	19.8	25.0	17.0	21.4	25.5	16.0	21.2	21.5	11.0	15.7

STREAMS TRIBUTARY TO LAKE ONTARIO
0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY--Continued
WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	RESIDUE VOLATILE SUS- PENDE (MG/L)
OCT								
03-07	1000	0900	61	17	--	--	--	--
07-07	0915	1115	57	16	--	--	--	--
11-12	0910	1610	51	6.1	--	--	--	--
13-15	0930	0430	51	5.2	--	--	--	--
17-19	1115	1015	49	5.0	--	--	--	--
19-19	1115	2215	79	7.4	--	--	--	--
19-20	2315	0915	70	9.3	--	--	--	--
20-24	0935	0835	55	4.2	--	--	--	--
24-27	1100	0900	57	5.1	--	--	--	--
27-31	0920	0820	48	5.5	--	--	--	--
OCT 31-								
NOV 01	1040	1540	204	65	--	--	320	39
02...	1012	--	--	--	--	--	128	--
02-03	1230	0930	277	55	--	--	191	28
03-04	0950	1650	144	31	--	--	87	13
07-10	1035	0835	102	20	--	--	--	--
10-14	0910	0810	67	14	--	--	--	--
14-17	1030	0820	54	6.9	--	--	--	--
17-18	0920	1620	49	7.1	--	--	--	--
21-23	1150	0850	72	6.0	--	--	--	--
23-26	0930	1130	59	4.3	--	--	--	--
28...	1025	--	102	4.7	--	--	--	--
NOV 28-								
DEC 01	1640	0940	71	6.6	--	--	--	--
01-04	1045	2145	88	3.7	--	--	--	--
04-05	2245	0845	80	4.0	--	--	--	--
05-06	0940	0240	264	60	764	168	189	30
06-07	0340	2040	190	34	962	199	82	15
08-09	0915	1615	138	14	1200	221	32	6
09-11	1715	0815	216	26	--	--	--	--
11-12	0915	0815	227	29	--	--	--	--
12-15	1005	0805	107	15	--	--	--	--
15-17	0820	2345	113	7.4	--	--	--	--
17-18	0020	0320	185	28	--	--	--	--
18-19	0420	0720	173	17	--	--	--	--
19-23	0805	0705	110	7.8	--	--	--	--
23-27	0800	0700	76	4.0	--	--	--	--
27-30	1045	0645	65	3.6	--	--	--	--
30-31	0745	1845	57	3.6	1170	257	10	2
DEC 31-								
JAN 03	1945	0645	69	3.2	--	--	--	--
03-04	0820	0220	58	3.5	--	--	--	--
05...	0815	--	40	2.9	--	--	--	--
09...	0930	--	46	3.6	--	--	--	--
11-12	1215	0715	45	4.6	--	--	--	--
12-15	0805	1505	79	6.6	--	--	--	--
15-17	1605	0705	110	7.3	--	--	--	--
17-19	1030	0830	101	5.7	--	--	--	--
19-20	0840	0340	82	3.5	--	--	--	--
20-21	0440	1140	350	160	--	--	436	56
21-23	1240	0740	319	100	--	--	269	33
23-26	0820	0720	140	14	--	--	--	--
26-30	0910	0710	96	5.4	--	--	--	--
JAN 30-								
FEB 02	0805	0705	81	5.0	--	--	--	--
02-06	0810	0710	70	4.1	--	--	--	--
06-09	1205	0905	63	4.3	--	--	--	--
09-13	0930	0830	60	3.7	1450	254	7	<2
13-17	0925	0725	61	3.5	--	--	--	--
17-19	0805	1505	73	5.4	--	--	--	--
19-21	1605	0705	107	6.0	--	--	--	--
21-23	0940	0640	114	6.2	--	--	--	--
23-24	0745	1045	108	4.9	--	--	--	--
24-27	1145	0645	91	4.5	--	--	--	--
27-28	0925	0825	152	24	--	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

167

0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY--Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AMMONIA + DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT							
03-07	<0.01	0.39	0.80	0.120	0.016	110	180
07-07	<0.01	0.80	0.84	0.170	0.014	110	190
11-12	<0.01	0.39	0.81	0.065	0.015	100	200
13-15	<0.01	0.56	0.76	0.075	0.015	100	200
17-19	<0.01	0.44	0.66	0.070	0.015	100	200
19-19	<0.01	0.41	0.64	0.090	0.010	91	180
19-20	<0.01	0.44	0.64	0.100	0.010	81	170
20-24	<0.01	0.50	0.57	0.060	0.011	97	190
24-27	<0.01	0.46	0.52	0.065	0.008	91	180
27-31	<0.01	0.36	0.63	0.009	0.009	100	200
OCT 31-							
NOV 01	<0.01	0.46	0.56	0.510	0.018	79	150
02...	--	1.2	--	0.290	--	--	--
02-03	<0.01	0.66	0.64	0.280	0.038	78	95
03-04	<0.01	0.65	0.77	0.170	0.029	94	120
07-10	<0.01	0.60	0.68	0.100	<0.002	88	150
10-14	<0.01	0.54	0.77	0.070	0.017	95	170
14-17	<0.01	0.50	0.78	0.055	0.015	110	170
17-18	<0.01	0.56	0.79	0.070	0.013	120	180
21-23	<0.01	0.41	0.77	0.050	0.011	120	160
23-26	<0.01	0.65	0.88	0.065	0.011	110	170
28...	0.01	0.95	0.78	0.035	0.014	190	140
NOV 28-							
DEC 01	0.02	0.72	0.83	0.055	0.008	130	150
01-04	0.01	0.71	0.79	0.045	0.008	140	180
04-05	0.01	0.78	0.89	0.050	0.008	130	200
05-06	0.02	0.42	0.65	0.290	0.012	93	100
06-07	0.02	0.47	0.75	0.160	0.012	130	110
08-09	0.03	0.76	0.86	0.085	0.012	190	120
09-11	0.02	0.79	0.91	0.130	0.014	190	100
11-12	0.06	0.70	0.94	0.120	0.015	170	94
12-15	0.04	0.71	1.10	0.065	0.013	130	120
15-17	0.03	0.78	1.20	0.060	0.010	140	160
17-18	0.02	0.83	1.10	0.100	0.015	170	120
18-19	0.02	0.64	1.00	0.095	0.012	130	120
19-23	<0.01	0.78	1.10	0.045	0.010	120	130
23-27	<0.01	0.53	1.20	0.040	0.009	130	160
27-30	0.02	0.42	1.20	0.030	0.007	130	180
30-31	0.03	0.52	1.30	0.025	0.012	130	180
DEC 31-							
JAN 03	0.03	0.44	1.30	0.040	0.005	130	180
03-04	0.02	0.43	1.20	0.030	0.005	120	170
05...	0.04	0.54	1.30	0.025	0.007	150	200
09...	0.04	0.52	1.30	0.025	0.004	160	200
11-12	0.04	0.82	1.30	0.065	0.006	150	200
12-15	<0.01	0.74	1.20	0.045	0.004	170	170
15-17	<0.01	0.86	0.87	0.055	0.006	140	140
17-19	<0.01	0.60	0.86	0.045	0.005	120	130
19-20	<0.01	1.0	0.88	0.050	0.005	130	150
20-21	<0.01	1.7	0.84	0.550	0.009	100	89
21-23	<0.01	1.4	0.99	0.370	0.012	81	75
23-26	<0.01	0.83	1.10	0.070	0.007	140	120
26-30	<0.01	0.62	1.20	0.045	0.006	200	140
JAN 30-							
FEB 02	<0.01	0.66	1.20	0.035	0.007	150	150
02-06	0.02	0.63	1.20	0.035	0.006	190	160
06-09	0.03	0.70	1.30	0.030	0.004	200	180
09-13	0.04	0.52	1.30	0.025	0.004	230	170
13-17	0.03	0.51	1.40	0.025	0.006	190	180
17-19	0.02	0.47	1.30	0.040	0.012	220	170
19-21	<0.01	0.52	1.20	0.040	0.007	240	160
21-23	<0.01	0.61	1.20	0.045	0.005	200	120
23-24	0.00	0.66	1.20	0.035	0.003	200	140
24-27	0.00	0.65	1.20	0.035	0.003	220	140
27-28	0.02	0.80	1.20	0.140	0.004	330	120

STREAMS TRIBUTARY TO LAKE ONTARIO
0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY--Continued
WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	RESIDUE VOLA- TILE, SUS- PENDE (MG/L)
FEB 28-								
MAR 02	0925	0725	200	25	--	--	--	--
02-03	0745	0745	130	9.2	--	--	--	--
03...	1055	--	100	19	--	--	--	--
06-08	1645	1250	283	50	1070	206	163	14
08-09	1350	0750	322	50	1060	185	144	15
09-13	0815	0715	222	20	1210	210	62	9
13-16	0930	0730	187	12	1050	212	38	--
16-20	0805	0705	148	4.3	1170	230	22	4
20-23	0855	0755	127	6.5	--	--	--	--
23-27	1100	0700	109	5.4	--	--	--	--
27-30	0805	0705	86	5.5	--	--	--	--
MAR 30-								
APR 03	1050	0950	80	4.4	--	--	--	--
03-06	1105	1005	80	2.8	--	--	--	--
06-09	1045	0145	74	3.6	--	--	--	--
09-10	0245	0945	105	7.7	--	--	--	--
10-11	1105	1005	110	5.5	--	--	--	--
17-20	1025	0925	68	4.8	--	--	--	--
20-24	1110	1010	51	5.6	--	--	--	--
24-27	1100	1000	54	5.0	--	--	--	--
27-28	1035	0935	122	5.2	--	--	--	--
APR 28-								
MAY 01	1035	0935	88	3.1	--	--	--	--
01-04	1045	0945	64	5.8	--	--	--	--
04-08	1125	0925	55	5.5	--	--	--	--
08-09	1125	2225	52	4.8	--	231	21	5
09-11	2325	1025	94	14	--	231	58	9
11-15	1125	1025	88	11	--	--	--	--
15-18	1125	1025	58	6.8	--	--	--	--
18-22	1040	0940	55	4.5	--	--	--	--
22-26	1130	0930	51	8.1	--	--	--	--
26-27	1020	1820	47	20	--	--	--	--
30-31	1245	1045	51	12	--	--	--	--
JUN								
01-02	1210	0310	45	110	--	--	--	--
05-06	1045	1245	50	18	--	--	--	--
08-11	1135	0235	39	11	--	--	--	--
12-12	1150	2250	38	15	--	--	--	--
15-18	1120	1520	35	13	--	--	--	--
19-21	1145	0145	33	12	--	--	--	--
22-25	1655	1955	33	3.3	--	--	--	--
25-26	2055	1155	54	4.0	--	--	--	--
26-27	1225	0225	184	41	--	--	--	--
27-29	0325	0225	60	20	--	--	--	--
29-30	1120	1420	40	18	--	--	--	--
JUN 30-								
JUL 01	1520	1820	114	44	--	--	155	25
01-03	1920	0820	76	41	--	--	139	20
03-05	0845	1645	52	14	--	--	--	--
05-06	1745	0745	180	50	--	--	187	27
06-10	1145	1045	83	90	--	--	208	29
10-11	1100	0100	47	22	--	--	--	--
13-16	1035	1435	47	40	--	--	103	--
16-17	1835	0935	51	26	--	--	--	--
17-19	1100	0700	66	32	--	--	96	18
19-20	0800	1000	73	120	--	--	357	54
20-24	1045	0945	58	50	--	--	123	21
24-27	1145	0845	58	36	--	--	86	12
27-31	0920	0820	52	22	--	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO
0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY--Continued
WATER-QUALITY RECORDS

169

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AMMONIA + DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHOS, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
FEB 28-							
MAR 02	0.02	0.89	1.20	0.120	0.006	300	98
02-03	<0.01	0.74	1.20	0.045	0.003	220	110
03...	<0.01	0.89	1.20	0.070	0.009	250	120
06-08	0.06	1.1	1.20	0.190	0.005	160	84
08-09	<0.01	1.3	1.20	0.020	0.007	170	75
09-13	<0.01	0.58	1.30	0.095	0.007	210	100
13-16	<0.01	0.88	0.88	0.065	0.005	110	100
16-20	<0.01	0.98	0.85	0.050	0.002	160	130
20-23	0.02	0.77	0.95	0.040	0.004	160	140
23-27	<0.01	1.1	0.96	0.045	0.004	150	140
27-30	<0.01	0.97	0.99	0.035	0.004	150	160
MAR 30-							
APR 03	<0.01	0.82	1.10	0.035	0.004	150	160
03-06	<0.01	0.67	1.10	0.040	0.005	160	160
06-09	<0.01	0.72	1.20	0.030	0.004	160	180
09-10	<0.01	0.68	1.10	0.055	0.004	180	160
10-11	<0.01	0.82	1.00	0.055	0.004	180	140
17-20	<0.01	0.56	0.81	0.043	0.006	140	160
20-24	<0.01	0.74	0.91	0.080	0.005	150	170
24-27	<0.01	0.78	0.79	0.045	0.006	140	180
27-28	<0.01	0.56	0.78	0.055	0.004	140	170
APR 28-							
MAY 01	<0.01	0.57	0.76	0.045	0.003	140	160
01-04	<0.01	0.64	0.70	0.040	0.005	140	190
04-08	<0.01	0.66	0.68	0.045	0.019	140	200
08-09	<0.01	0.67	0.72	0.050	0.006	140	210
09-11	0.01	0.74	0.86	0.120	0.006	130	180
11-15	0.02	0.74	0.72	0.095	0.006	140	150
15-18	0.03	0.82	0.86	0.065	0.010	140	190
18-22	0.04	0.70	0.96	0.065	0.012	140	200
22-26	0.05	0.92	1.00	0.075	0.015	130	210
26-27	0.04	0.70	1.00	0.140	0.017	130	210
30-31	0.02	0.94	0.87	0.090	0.018	130	190
JUN							
01-02	0.03	1.4	0.88	0.570	0.020	130	180
05-06	0.03	1.2	0.89	0.120	0.025	130	180
08-11	0.02	0.69	0.74	0.090	0.020	110	170
12-12	0.05	0.68	0.92	0.100	0.020	140	240
15-18	<0.01	0.75	0.85	0.095	0.016	130	250
19-21	0.01	0.94	0.85	0.085	0.016	150	270
22-25	<0.01	0.78	0.72	0.046	0.012	140	270
25-26	<0.01	0.58	0.36	0.065	0.009	130	250
26-27	0.14	1.1	0.14	0.310	0.012	88	180
27-29	0.21	1.1	0.56	0.013	0.013	94	130
29-30	<0.01	1.4	0.49	0.100	0.016	130	200
JUN 30-							
JUL 01	<0.01	1.4	0.21	0.250	0.013	120	180
01-03	<0.01	1.5	0.44	0.230	0.016	100	160
03-05	<0.01	1.2	0.73	0.100	0.016	130	160
05-06	0.02	1.3	0.19	0.280	0.014	100	150
06-10	0.01	1.4	0.36	0.480	0.019	97	140
10-11	<0.01	0.92	0.83	0.100	0.017	120	190
13-16	<0.01	1.2	0.79	0.210	0.016	110	200
16-17	<0.01	0.96	0.75	0.160	0.013	100	190
17-19	<0.01	0.86	0.72	0.150	0.015	100	190
19-20	<0.01	0.56	0.74	0.450	0.015	88	130
20-24	0.01	0.92	0.72	0.190	0.018	100	150
24-27	<0.01	0.84	0.74	0.160	0.021	110	160
27-31	<0.01	0.66	0.75	0.130	<0.002	120	190

STREAMS TRIBUTARY TO LAKE ONTARIO
0423205010 IRONDEQUOIT CREEK ABOVE BLOSSOM ROAD, ROCHESTER, NY--Continued
WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER	TUR- BID- ITY	SPE- CIFIC CON- DUCT- ANCE	ALKA- LITY WAT WH TOT FET FIELD MG/L AS	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE	RESIDUE VOLA- TILE, SUS- PENDE
JUL 31-								
AUG 03	1000	0900	37	19	--	--	--	--
03-04	1030	0130	253	95	--	--	516	56
04-07	0230	0630	78	27	--	--	--	--
07-10	1125	0825	49	14	--	--	--	--
10-14	0935	0835	43	8.3	--	--	--	--
14-17	1030	0930	40	7.3	--	--	--	--
17-21	1125	1025	32	11	--	--	--	--
21-24	1245	1045	30	14	1260	211	47	<15
24-28	1100	1000	30	6.5	--	--	--	--
28-31	1010	1310	31	10	--	--	--	--
AUG 31-								
SEP 01	1410	0910	165	90	--	--	--	--
01-02	1000	0900	45	16	--	--	--	--
02-05	1000	0900	33	12	--	--	--	--
05-07	1120	1020	33	12	--	--	--	--
07-11	1125	1025	41	6.4	--	--	--	--
11-14	1140	0140	34	6.4	--	--	--	--
14-14	0240	0940	44	7.5	--	--	--	--
14-18	1100	1000	42	5.7	--	--	--	--
20-21	2340	1040	41	21	--	--	--	--
21-22	1120	1020	37	16	--	--	--	--
22-23	1120	0620	77	30	--	--	105	17
23-25	0720	1020	43	12	--	--	--	--
25-28	1100	1000	38	16	--	--	--	--
28-29	1055	1355	34	14	--	--	--	--

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
JUL 31-							
AUG 03	<0.01	0.62	0.69	0.110	0.022	120	210
03-04	<0.01	0.54	0.45	0.650	0.014	89	160
04-07	<0.01	0.50	0.50	0.160	0.016	110	130
07-10	<0.01	0.78	0.73	0.095	0.019	120	190
10-14	<0.01	0.33	0.67	0.080	0.017	120	200
14-17	0.01	0.75	0.62	0.085	0.018	120	210
17-21	<0.01	0.70	0.65	0.090	<0.002	130	230
21-24	<0.01	0.58	0.69	0.110	0.014	130	250
24-28	<0.01	0.24	0.74	0.085	0.017	130	260
28-31	<0.01	0.33	0.86	0.090	0.018	130	270
AUG 31-							
SEP 01	0.07	0.74	0.85	0.550	0.020	76	150
01-02	0.01	0.56	0.98	0.180	0.026	86	150
02-05	<0.01	0.45	0.83	0.085	0.023	120	210
05-07	<0.01	0.58	0.81	0.090	0.023	120	240
07-11	<0.01	0.69	0.86	0.095	0.021	--	220
11-14	<0.01	0.60	0.85	0.080	0.020	120	240
14-14	<0.01	0.71	0.84	0.080	0.018	120	230
14-18	<0.01	0.71	0.84	0.080	0.019	110	230
20-21	<0.01	0.68	0.86	0.190	0.023	130	230
21-22	<0.01	0.67	0.91	0.130	0.020	120	240
22-23	<0.01	0.42	0.87	0.190	0.022	91	180
23-25	<0.01	0.52	0.83	0.110	0.021	110	210
25-28	<0.01	0.72	0.84	0.105	0.019	120	240
28-29	<0.01	0.64	0.80	0.090	0.015	130	250

STREAMS TRIBUTARY TO LAKE ONTARIO

171

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 mi², flow from 8.45 mi² 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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Nov. 2	0945	*e560	Unknown				

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	67	313	81	71	79	202	84	e76	42	121	38	e85
2	69	e480	97	72	e89	151	79	e67	66	77	39	e40
3	65	e239	72	60	e72	106	73	63	132	64	134	e36
4	57	e133	60	e39	e73	108	78	56	80	59	160	e34
5	62	105	180	e36	e58	104	76	56	60	52	65	e32
6	58	e110	221	e46	e65	e216	71	53	49	163	83	40
7	53	123	177	e48	e64	e281	77	53	45	113	68	e34
8	55	98	164	e48	e64	350	72	51	45	60	50	e55
9	46	94	131	e46	e62	283	83	48	e42	61	48	e48
10	43	87	214	e40	e62	204	129	78	e41	e52	44	38
11	53	72	241	e42	e60	198	112	148	e44	e51	e42	32
12	49	48	186	e54	e58	278	103	102	e42	e51	e39	e27
13	47	47	e105	e83	e58	262	139	85	e40	e47	52	e31
14	47	47	94	e94	e58	204	118	70	e38	e38	42	41
15	48	42	79	93	e58	168	106	63	e38	e46	40	47
16	46	42	79	115	e65	e154	94	59	e38	50	38	36
17	44	38	146	118	e70	e157	89	54	e37	57	41	e36
18	44	39	184	107	79	156	75	55	e37	40	30	45
19	60	34	154	93	91	132	49	56	e34	106	33	e30
20	68	39	122	210	112	119	47	55	34	54	e32	25
21	54	52	104	471	134	117	50	e65	32	55	e32	34
22	49	63	90	369	113	120	43	e60	e34	54	e32	47
23	47	50	79	194	102	127	e54	e50	30	58	33	56
24	46	52	82	135	115	114	e53	e44	31	77	e28	37
25	53	47	79	121	100	103	e56	e65	32	64	e28	31
26	64	49	70	114	78	100	e57	e49	93	67	26	32
27	47	48	65	e100	102	94	e80	e48	125	50	24	29
28	44	83	61	e93	256	90	e132	e69	49	51	26	31
29	44	82	61	e82	---	84	e99	78	e40	60	e28	e27
30	42	62	50	76	---	85	e82	56	48	50	30	27
31	47	---	54	88	---	83	---	46	---	41	e105	---
TOTAL	1618	2818	3582	3358	2397	4950	2460	1978	1498	1989	1510	1143
MEAN	52.2	93.9	116	108	85.6	160	82.0	63.8	49.9	64.2	48.7	38.1
MAX	69	480	241	471	256	350	139	148	132	163	160	85
MIN	42	34	50	36	58	83	43	44	30	38	24	25

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 1995, BY WATER YEAR (WY)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	
MEAN	83.2	123	152	153	140	284	275	114	78.4	77.8	94.9	71.7
MAX	124	208	226	286	199	351	481	150	99.2	181	262	132
(WY)	1991	1993	1991	1993	1994	1993	1994	1993	1993	1992	1992	1992
MIN	52.2	63.3	88.6	85.6	85.6	160	82.0	63.8	49.9	50.3	48.7	38.1
(WY)	1995	1992	1992	1994	1995	1995	1995	1995	1995	1991	1995	1995

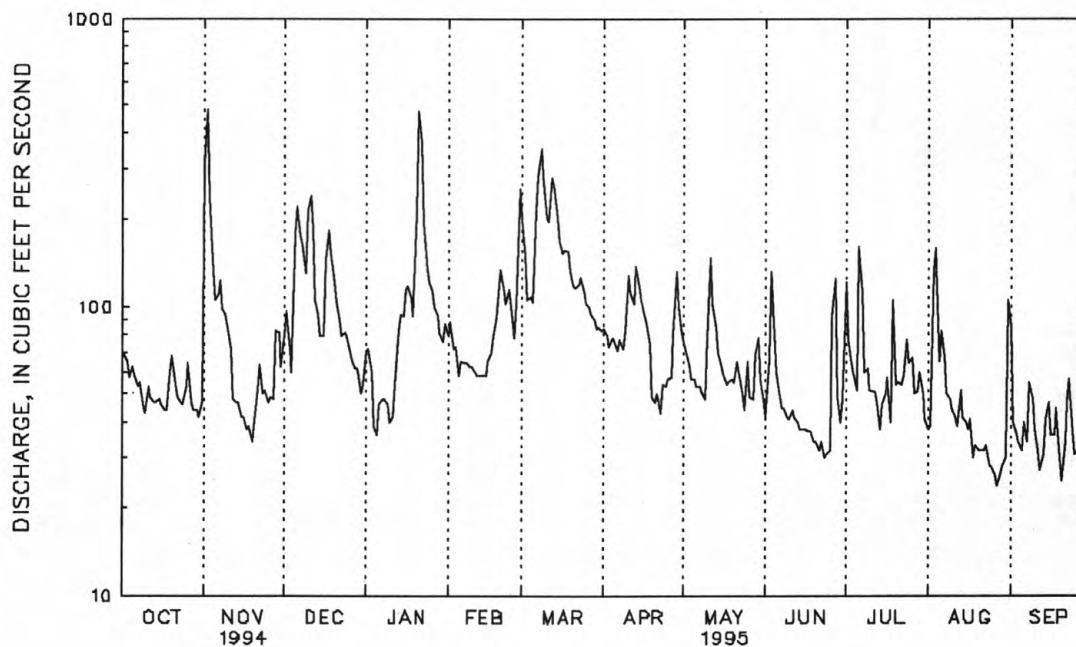
STREAMS TRIBUTARY TO LAKE ONTARIO

0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY--continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1990 - 1995	
ANNUAL TOTAL	48706		29301		138	
ANNUAL MEAN	133		80.3		183	
HIGHEST ANNUAL MEAN					80.3	
LOWEST ANNUAL MEAN					1870	
HIGHEST DAILY MEAN	1000	Feb 21	e480	Nov 2	1870	Apr 2 1993
LOWEST DAILY MEAN	34	Nov 19	24	Aug 27	24	Aug 27 1995
ANNUAL SEVEN-DAY MINIMUM	40	Nov 14	27	Aug 24	27	Aug 24 1995
INSTANTANEOUS PEAK FLOW			e560	Nov 2	2130	Apr 3 1993
INSTANTANEOUS PEAK STAGE			a4.34	Aug 3	a6.64	Apr 23 1993
10 PERCENT EXCEEDS	267		142		256	
50 PERCENT EXCEEDS	78		60		88	
90 PERCENT EXCEEDS	48		35		44	

a Backwater from Irondequoit Bay.

e Estimated.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO

173

0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY--continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1989 to current year.

CHEMICAL DATA: 1989-95 (e).

NUTRIENT DATA: 1989-95 (e).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1994 to September 1995.

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 CURRENT PERIOD.--

WATER TEMPERATURES: Maximum, 29.0°C, July 15; minimum, 0.0°C, many days during winter period.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	5.5	4.0	4.5	3.0	1.0	2.0
2	---	---	---	---	---	---	6.5	4.5	5.5	3.0	.5	2.0
3	---	---	---	---	---	---	5.5	4.5	5.0	1.0	.0	.5
4	---	---	---	---	---	---	7.0	5.5	6.0	1.0	.0	.5
5	---	---	---	---	---	---	9.0	7.0	8.0	1.0	.0	.0
6	---	---	---	---	---	---	8.5	8.0	8.5	.5	.0	.0
7	---	---	---	---	---	---	8.0	4.5	6.0	.5	.0	.0
8	---	---	---	---	---	---	4.5	2.5	3.5	.5	.0	.0
9	---	---	---	---	---	---	2.5	1.5	2.0	.5	.0	.0
10	---	---	---	10.5	8.0	9.5	3.0	2.5	3.0	.5	.0	.0
11	---	---	---	8.5	6.5	7.5	3.5	1.5	2.5	.5	.0	.0
12	---	---	---	7.5	5.5	7.0	2.0	.0	1.0	.5	.0	.0
13	---	---	---	9.0	7.5	8.5	.5	.0	.0	4.5	.0	2.0
14	---	---	---	11.5	8.5	10.0	1.0	.0	.5	7.0	4.0	5.0
15	---	---	---	11.5	9.5	11.0	2.5	1.0	2.0	9.0	7.0	8.0
16	---	---	---	9.5	7.5	8.5	3.5	1.5	2.5	8.0	6.0	7.0
17	---	---	---	8.0	6.0	7.0	3.5	2.5	3.0	6.0	4.5	5.5
18	---	---	---	9.5	6.5	8.0	4.0	3.0	3.5	5.5	4.0	4.5
19	---	---	---	9.0	7.5	8.0	3.5	3.5	3.5	5.0	3.5	4.5
20	---	---	---	7.5	6.5	7.0	4.0	3.0	3.5	5.5	4.5	5.0
21	---	---	---	8.5	7.0	7.5	4.0	2.5	3.5	5.5	4.5	5.0
22	---	---	---	8.5	5.0	7.5	3.5	2.0	2.5	4.5	3.0	4.0
23	---	---	---	5.0	3.0	4.0	3.5	2.0	3.0	3.0	2.0	2.0
24	---	---	---	4.0	2.5	3.5	4.0	3.5	3.5	2.5	2.0	2.0
25	---	---	---	5.5	3.5	4.5	4.0	2.5	3.0	3.0	2.0	2.5
26	---	---	---	4.5	2.5	4.0	3.0	1.5	2.5	2.5	1.0	2.0
27	---	---	---	3.0	1.5	2.5	2.5	1.0	2.0	2.5	1.0	1.5
28	---	---	---	5.5	2.5	4.5	3.0	2.0	2.5	1.5	.0	.5
29	---	---	---	5.5	5.0	5.5	3.0	.5	2.0	1.0	.0	.5
30	---	---	---	6.0	5.0	5.0	1.5	.0	.5	.5	.0	.5
31	---	---	---	---	---	---	1.0	.0	.5	1.5	.0	1.0
MONTH	---	---	---	---	---	---	9.0	.0	3.2	9.0	.0	2.2

STREAMS TRIBUTARY TO LAKE ONTARIO
0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY--continued
WATER QUALITY RECORDS

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.5	1.5	2.0	2.0	.5	1.0	8.5	4.5	6.5	15.0	9.5	12.5
2	2.5	.5	1.5	2.0	.5	1.0	9.5	5.0	7.0	14.0	11.5	12.5
3	1.0	.0	.5	1.0	.0	.5	8.0	5.5	6.5	15.0	11.0	13.0
4	.5	.0	.0	2.0	.0	1.0	7.0	4.5	6.5	15.5	11.5	13.5
5	.5	.0	.0	2.5	.5	1.5	4.5	2.0	3.0	17.5	13.0	15.0
6	.0	.0	.0	3.0	2.5	2.5	3.5	2.0	2.5	17.0	13.5	15.0
7	.5	.0	.0	4.5	2.5	3.5	6.5	3.0	4.5	16.5	12.5	14.5
8	.0	.0	.0	4.5	1.0	3.0	5.5	4.0	4.5	16.0	12.0	14.0
9	.5	.0	.0	1.5	.0	1.0	5.0	4.0	5.0	14.5	12.5	13.5
10	.5	.0	.0	2.0	.0	1.0	6.5	2.5	4.5	19.0	12.5	15.0
11	.0	.0	.0	4.0	.5	2.0	10.0	3.5	6.5	17.0	14.5	15.5
12	.5	.0	.0	6.0	2.5	4.5	9.0	8.5	9.0	15.5	14.0	14.5
13	.5	.0	.0	7.5	4.0	5.5	9.0	8.0	8.5	19.0	13.0	16.0
14	.5	.0	.0	9.0	5.0	7.0	8.0	6.5	7.5	19.0	15.5	17.0
15	.5	.0	.0	10.5	6.5	8.5	10.0	5.0	7.5	19.5	16.0	17.5
16	.5	.0	.0	11.0	8.0	9.5	11.0	5.5	8.0	19.5	15.5	17.5
17	.5	.0	.0	10.0	7.0	8.5	11.0	7.0	9.0	18.5	16.0	17.0
18	.5	.0	.0	8.0	5.5	6.5	11.0	7.5	9.5	16.0	14.5	15.0
19	.5	.0	.0	7.0	5.0	6.5	14.5	10.0	12.0	18.5	13.5	15.5
20	1.5	.0	.5	10.5	7.0	8.5	14.0	10.5	12.0	19.5	15.0	17.0
21	2.0	1.5	2.0	10.0	8.0	9.0	14.0	11.5	12.0	21.0	16.5	18.5
22	2.0	.5	1.0	8.0	7.0	7.5	12.5	9.5	10.5	20.0	16.0	18.0
23	2.5	1.5	2.0	7.0	6.0	6.5	12.5	7.5	10.0	21.0	16.0	18.0
24	2.5	.5	2.0	7.5	4.5	6.0	13.5	9.0	11.0	19.0	16.0	17.5
25	.5	.0	.5	8.0	4.0	6.0	13.5	9.5	11.5	18.0	15.0	16.5
26	1.0	.0	.5	9.0	5.0	7.0	13.0	10.5	12.0	21.0	16.0	18.0
27	.0	.0	.0	9.5	6.0	7.5	14.0	11.0	12.0	21.5	17.0	19.0
28	1.0	.0	.5	10.0	6.0	8.0	14.5	10.5	12.5	19.5	15.0	17.5
29	---	---	---	10.5	6.0	8.0	13.0	11.0	12.0	20.5	15.0	17.5
30	---	---	---	9.0	7.0	8.0	13.0	9.5	11.5	21.5	17.0	19.0
31	---	---	---	7.5	6.0	6.5	---	---	---	23.0	18.0	20.0
MONTH	2.5	.0	.5	11.0	.0	5.3	14.5	2.0	8.5	23.0	9.5	16.1
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	22.0	19.0	20.5	22.5	21.5	22.0	27.5	23.0	25.0	22.5	20.0	21.0
2	21.5	19.0	20.0	22.0	20.0	21.0	26.0	24.0	25.0	21.5	19.0	20.0
3	23.0	19.5	21.0	22.5	18.5	20.0	25.5	23.0	23.5	20.5	17.5	19.0
4	23.0	19.5	21.5	23.0	19.0	21.0	25.5	23.0	24.0	21.5	18.0	19.5
5	22.5	18.5	20.5	25.0	21.0	22.5	24.5	23.0	23.5	22.0	18.0	19.5
6	23.0	19.0	21.0	24.5	21.5	23.0	23.0	21.5	22.5	24.0	19.0	21.0
7	25.5	20.5	22.5	24.5	21.5	23.0	24.5	20.5	22.5	22.0	19.5	21.0
8	23.5	18.0	20.5	22.0	19.5	21.0	24.5	21.5	23.0	19.5	17.5	18.5
9	21.0	16.0	18.0	20.5	18.0	19.5	25.0	20.5	23.0	19.0	17.0	17.5
10	22.0	18.0	19.5	22.5	18.0	20.0	25.5	21.0	23.0	18.5	15.0	16.5
11	24.5	20.0	21.5	23.0	20.0	21.0	25.5	22.5	23.5	18.5	13.5	16.0
12	21.5	19.5	20.5	24.0	20.0	22.0	25.0	23.0	23.5	20.0	13.5	16.5
13	22.5	18.0	20.0	26.0	21.0	23.0	26.0	21.5	23.5	22.0	17.5	19.0
14	23.0	19.0	20.5	28.0	22.5	25.0	25.0	23.0	24.0	20.0	17.5	18.5
15	23.5	19.0	21.0	29.0	24.5	26.5	27.0	23.0	24.5	19.5	16.0	17.5
16	23.5	18.5	20.5	27.5	23.5	26.0	28.0	24.0	26.0	19.0	14.5	16.5
17	23.5	19.0	21.0	27.0	24.0	25.5	27.0	24.0	25.0	17.0	15.5	16.5
18	25.5	20.5	22.5	26.5	23.5	25.0	27.5	23.5	25.0	18.5	14.5	16.5
19	27.5	21.5	23.5	24.0	21.5	23.0	27.5	23.5	25.0	18.0	13.0	15.5
20	28.0	24.0	25.5	22.5	20.5	21.5	27.5	23.5	25.0	16.0	14.0	15.0
21	26.5	22.5	24.5	24.0	21.0	22.0	27.5	24.0	25.5	16.5	14.5	15.5
22	27.0	22.0	24.0	24.5	21.0	22.5	26.0	22.5	24.5	16.0	14.0	15.5
23	27.0	23.0	24.5	24.5	22.5	23.5	25.0	21.0	22.5	14.5	12.0	13.5
24	26.0	23.0	24.5	23.5	22.0	23.0	24.0	21.5	22.5	14.5	11.0	12.5
25	26.0	23.0	24.0	24.5	21.0	22.5	23.5	20.0	21.5	14.0	11.5	13.0
26	25.5	22.5	23.5	25.5	22.5	24.0	21.5	20.0	20.5	16.5	12.5	14.5
27	23.5	22.0	22.5	25.5	23.5	24.0	20.5	18.5	19.5	17.5	13.0	15.0
28	24.0	20.5	22.0	27.5	22.5	24.5	21.5	17.5	19.0	17.5	13.5	15.5
29	24.5	21.0	22.5	27.5	24.0	25.5	23.0	18.5	20.5	16.5	12.0	14.0
30	25.0	22.0	23.0	28.0	23.5	25.5	23.5	19.5	21.0	17.5	12.5	15.0
31	---	---	---	27.5	23.0	24.5	23.0	19.5	21.0	---	---	---
MONTH	28.0	16.0	21.9	29.0	18.0	23.0	28.0	17.5	23.2	24.0	11.0	16.8

STREAMS TRIBUTARY TO LAKE ONTARIO

175

0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY--continued

WATER QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	RESIDUE VOLA- TILE, SUS- PENDED (MG/L)
OCT								
03-07	1025	0925	58	8.5	--	--	--	--
07-11	0940	0840	49	6.6	--	--	--	--
11-13	0940	0840	49	5.7	--	--	--	--
13-17	1000	0900	47	5.2	--	--	--	--
17-19	1040	1240	45	5.1	--	--	--	--
19-20	1340	0040	77	7.3	--	--	--	--
20-20	0140	0940	75	17	--	--	--	--
20-24	1010	0910	52	6.2	--	--	--	--
24-27	1030	0930	55	4.2	--	--	--	--
27-31	0945	0845	43	6.0	--	--	--	--
31-31	1105	2205	49	7.5	--	--	--	--
OCT 31-								
NOV 02	2305	0905	351	55	--	--	279	38
02...	1000	--	547	--	--	--	222	--
02-03	1100	1000	375	40	--	--	125	20
03-07	1015	0915	135	22	--	--	--	--
07-10	1105	0905	100	13	--	--	--	--
10-14	0930	0830	59	7.9	--	--	--	--
14-17	1050	0850	42	9.6	--	--	--	--
17-21	0945	0845	38	5.0	--	--	--	--
21-23	1040	0940	59	5.4	--	--	--	--
23-27	1035	1825	49	3.1	--	--	--	--
27-28	1925	0925	60	5.2	--	--	--	--
NOV 28-								
DEC 01	1050	0950	74	4.9	--	--	--	--
01-04	1115	2215	81	3.0	--	--	--	--
04-05	2315	0915	66	4.4	--	--	--	--
05-06	1005	0305	259	39	832	182	116	19
06-08	0405	0905	192	21	1000	196	40	<16
08-09	0945	2045	135	7.7	1250	216	18	<3
09-11	2145	1245	220	16	--	--	--	--
11-12	1345	0845	235	15	--	--	--	--
12-15	1040	0840	113	9.4	--	--	--	--
15-17	0845	0345	80	45	--	--	<7	<7
17-18	0445	0745	168	17	--	--	--	--
18-19	0845	0745	176	5.8	--	--	--	--
19-23	0830	0730	111	5.1	--	--	--	--
23-27	0820	0720	76	3.6	--	--	--	--
27-30	1110	0710	60	4.3	--	--	--	--
30-31	0815	1915	54	3.7	1190	265	8	2
DEC 31-								
JAN 03	2015	0715	70	4.6	--	--	--	--
03-05	0855	0755	45	3.9	--	--	--	--
05-09	0840	0740	45	3.8	--	--	--	--
09-12	0955	0755	43	2.9	--	--	--	--
12-15	0835	2035	83	5.3	--	--	--	--
15-17	2135	0735	114	5.8	--	--	--	--
17-19	1010	0810	109	3.2	--	--	--	--
19-20	0910	0810	90	2.8	--	--	--	--
20-21	0910	1610	379	80	--	--	233	29
21-23	1710	0810	359	60	--	--	157	19
23-26	0845	0745	137	6.2	--	--	--	--
26-30	0940	0740	94	3.0	--	--	--	--
JAN 30-								
FEB 02	0830	0730	84	5.3	--	--	--	--
02-06	0835	0735	71	3.3	--	--	--	--
06-09	1345	0945	64	3.3	--	--	--	--
09-13	1000	0900	60	3.6	1500	258	7	<5
13-17	0945	0745	61	3.4	--	--	--	--
17-19	0830	1930	81	3.3	--	--	--	--
20-21	2030	0730	125	4.4	--	--	--	--
21-23	1015	0715	119	4.8	--	--	--	--
23-24	0810	1510	108	3.5	--	--	--	--
24-27	1610	0710	91	3.3	--	--	--	--
27-28	1000	1200	186	14	--	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO
0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY--continued
WATER QUALITY RECORDS
WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT							
03-07	0.02	0.65	0.76	0.065	0.019	110	180
07-11	0.02	0.64	0.74	0.060	0.015	110	190
11-13	<0.01	0.64	0.73	0.055	0.015	110	190
13-17	0.01	0.60	0.66	0.060	0.011	110	190
17-19	<0.01	0.58	0.61	0.050	0.011	110	200
19-20	<0.01	0.65	0.64	0.075	0.012	100	190
20-20	<0.01	0.50	0.61	0.110	0.010	90	160
20-24	0.02	0.46	0.56	0.060	0.012	100	180
24-27	0.01	0.81	0.53	0.060	0.013	98	180
27-31	0.02	0.37	0.60	0.370	0.013	110	190
31-31	0.03	0.50	0.64	0.070	0.013	100	200
OCT 31-							
NOV 02	<0.01	0.60	0.53	0.400	0.030	64	100
02...	--	1.4	--	0.420	--	--	--
02-03	<0.01	0.70	0.56	0.240	0.038	72	85
03-07	0.03	<0.02	0.70	0.120	0.037	100	130
07-10	0.02	<0.02	0.67	0.080	<0.002	100	140
10-14	0.05	<0.02	0.75	0.070	0.020	110	160
14-17	0.06	0.56	0.78	0.070	0.018	120	170
17-21	0.03	0.57	0.81	0.045	0.016	120	180
21-23	0.05	0.66	0.77	0.045	0.016	120	150
23-27	0.03	0.73	0.86	0.035	0.012	140	170
27-28	0.03	0.86	0.91	0.050	0.014	140	170
NOV 28-							
DEC 01	0.06	0.61	0.80	0.045	0.013	160	150
01-04	0.06	0.75	0.79	0.035	0.010	140	170
04-05	0.07	0.73	0.85	0.040	0.011	130	180
05-06	0.05	0.43	0.69	0.210	0.015	99	110
06-08	0.05	0.50	0.74	0.110	0.015	140	110
08-09	0.05	0.80	0.84	0.055	0.012	210	120
09-11	0.04	0.86	0.89	0.090	0.014	200	97
11-12	0.04	0.69	0.92	0.085	0.014	190	89
12-15	0.07	0.66	1.10	0.055	0.014	140	120
15-17	0.08	0.70	1.20	0.040	0.012	150	150
17-18	0.07	0.76	1.10	0.065	0.012	170	120
18-19	0.05	0.84	1.00	0.055	0.013	130	120
19-23	0.02	0.78	1.10	0.035	0.012	120	130
23-27	0.03	0.83	1.10	0.035	0.011	130	150
27-30	0.06	0.53	1.20	0.030	0.010	130	170
30-31	0.09	0.48	1.20	0.035	0.008	140	180
DEC 31-							
JAN 03	0.08	0.38	1.30	0.035	0.007	130	170
03-05	0.06	0.48	1.20	0.025	0.007	130	180
05-09	0.07	0.48	1.30	0.035	0.006	150	200
09-12	0.06	0.54	1.30	0.025	0.006	160	200
12-15	0.04	0.85	1.20	0.040	0.010	170	170
15-17	0.03	0.63	0.87	0.045	0.009	140	140
17-19	0.02	0.60	0.87	0.045	0.007	130	130
19-20	0.02	0.76	0.87	0.050	0.009	130	140
20-21	0.02	1.4	0.84	0.320	0.013	100	86
21-23	0.02	1.1	0.96	0.220	0.016	87	72
23-26	0.01	0.71	1.10	0.050	0.008	140	120
26-30	<0.01	0.58	1.10	0.040	0.009	220	140
JAN 30-							
FEB 02	0.06	0.64	1.20	0.030	0.008	150	150
02-06	0.04	0.62	1.20	0.040	0.008	190	160
06-09	0.05	0.56	1.30	0.025	0.005	210	170
09-13	0.05	0.53	1.30	0.025	0.006	240	170
13-17	0.05	0.60	1.40	0.030	0.006	200	180
17-19	0.04	0.52	1.20	0.030	0.012	230	170
20-21	0.04	0.50	1.30	0.035	0.009	250	150
21-23	<0.01	0.53	1.20	0.040	0.006	230	130
23-24	<0.01	0.81	1.20	0.030	0.005	210	140
24-27	<0.01	0.70	1.20	0.025	0.006	230	140
27-28	<0.01	0.81	1.20	0.070	0.007	310	130

STREAMS TRIBUTARY TO LAKE ONTARIO

177

0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY--continued

WATER QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDEDED (MG/L)	RESIDUE VOLA- TILE, SUS- PENDEDED (MG/L)
FEB 28-								
MAR 02	1300	0800	208	16	--	--	--	--
02-05	0815	1515	113	4.8	--	--	--	--
05-06	1615	0715	147	4.8	--	--	--	--
06-08	1025	0815	273	28	1210	206	70	9
08-09	0915	0815	348	32	1040	182	86	11
09-13	0845	0745	237	12	1260	210	29	4
13-16	0950	0750	198	18	1020	213	75	--
16-20	0835	0735	147	20	1170	232	54	8
20-23	0920	0820	118	28	--	--	--	--
23-27	1035	0735	107	6.1	--	--	--	--
27-30	0830	0730	89	20	--	--	--	--
MAR 30-								
APR 03	1020	0920	82	11	--	--	--	--
03-06	1040	0940	76	5.8	--	--	--	--
06-09	1015	0115	72	3.7	--	--	--	--
09-10	0215	0915	104	6.5	--	--	--	--
10-12	1035	1235	110	8.8	--	--	--	--
12-13	1335	0935	132	22	--	--	--	--
13-17	1025	0925	108	14	--	--	--	--
17-20	1000	0900	65	19	--	--	--	--
20-24	0945	0845	49	16	--	--	--	--
24-27	1020	0920	59	18	--	--	--	--
27-28	1000	0900	134	1.2	--	--	--	--
APR 28-								
MAY 01	1000	0900	97	12	--	--	--	--
01-04	1020	0920	67	14	--	--	--	--
04-08	1050	0950	54	16	--	--	--	--
08-09	1100	2200	52	12	--	232	32	6
09-11	2300	1000	87	17	--	227	48	9
11-15	1110	1010	94	18	--	--	--	--
15-18	1055	0955	58	16	--	--	--	--
18-22	1015	0915	58	5.7	--	--	--	--
22-26	1100	0900	53	12	--	--	--	--
26-28	0945	0845	53	14	--	--	--	--
28-29	0945	0445	86	18	--	--	--	--
29-30	0545	0845	61	16	--	--	--	--
MAY 30-								
JUN 01	1205	1005	60	13	--	--	--	--
01-02	1115	1415	43	14	--	--	--	--
02-03	1515	0615	156	18	--	--	--	--
03-05	0715	0915	83	28	--	--	--	--
05-08	1020	0920	47	12	--	--	--	--
08-12	1110	1010	43	10	--	--	--	--
12-15	1120	1020	39	12	--	--	--	--
15-19	1040	0940	37	8.1	--	--	--	--
19-22	1115	1015	33	10	--	--	--	--
22-25	1105	1805	31	8.1	--	--	--	--
25-26	1905	1005	43	7.3	--	--	--	--
26-27	1205	0505	165	20	--	--	--	--
27-29	0605	1005	62	41	--	--	--	--
29-30	1100	1400	36	22	--	--	--	--
JUN 30-								
JUL 01	1500	1800	91	26	--	--	--	--
01-03	1900	1000	88	33	--	--	76	13
03-05	1000	1500	57	19	--	--	--	--
05-06	1600	0900	131	26	--	--	--	--
06-10	1115	1015	83	60	--	--	106	16
10-13	1040	0940	51	17	--	--	--	--
13-16	1000	1700	44	20	--	--	--	--
16-17	1800	0900	55	22	--	--	--	--
17-19	1025	0625	54	18	--	--	--	--
19-20	0725	0925	90	26	--	--	--	--
20-24	1015	0915	59	22	--	--	--	--
24-27	1120	0820	63	24	--	--	--	--
27-31	0900	0800	52	22	--	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY--continued

WATER QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
FEB 28-							
MAR 02	<0.01	0.93	1.20	0.075	0.006	320	94
02-05	<0.01	0.85	1.20	0.025	0.007	230	130
05-06	<0.01	0.76	1.20	0.045	0.006	220	140
06-08	<0.01	1.2	1.10	0.120	0.006	190	90
08-09	0.02	1.1	1.20	0.020	0.008	160	74
09-13	<0.01	0.99	1.30	0.060	0.008	210	99
13-16	<0.01	1.1	0.88	0.110	0.005	150	100
16-20	<0.01	0.90	0.82	0.100	0.004	170	130
20-23	0.04	1.4	0.91	0.130	0.005	160	140
23-27	<0.01	0.68	0.92	0.060	0.005	160	140
27-30	0.01	1.0	0.94	0.100	0.006	150	150
MAR 30-							
APR 03	0.02	0.96	1.00	0.065	0.005	150	160
03-06	0.02	0.99	1.10	0.055	0.005	160	160
06-09	0.01	0.58	1.10	0.030	0.004	180	170
09-10	0.01	0.65	1.10	0.045	0.004	180	160
10-12	0.01	0.58	0.98	0.055	0.006	190	140
12-13	0.03	0.93	0.86	0.105	0.007	170	140
13-17	0.02	0.77	0.81	0.095	0.008	150	130
17-20	0.03	0.80	0.75	0.100	0.010	150	150
20-24	0.04	1.0	0.78	0.110	0.010	150	160
24-27	<0.01	0.86	0.73	0.093	0.010	150	170
27-28	0.05	0.86	0.74	0.075	0.012	150	170
APR 28-							
MAY 01	0.04	0.88	0.74	0.070	0.009	140	150
01-04	0.04	0.61	0.64	0.075	0.009	150	180
04-08	<0.01	0.65	0.60	0.110	0.036	140	190
08-09	0.04	0.81	0.58	0.080	0.009	140	200
09-11	0.05	0.76	0.73	0.120	0.008	140	180
11-15	0.07	0.82	0.67	0.110	0.010	140	140
15-18	0.09	0.90	0.73	0.120	0.011	150	170
18-22	0.08	0.91	0.85	0.090	0.014	140	190
22-26	0.09	0.98	0.81	0.140	0.011	140	200
26-28	0.07	0.84	0.84	0.110	0.011	140	200
28-29	0.09	1.1	0.81	0.130	0.010	140	200
29-30	0.05	0.83	0.71	0.120	0.008	120	150
MAY 30-							
JUN 01	0.07	0.82	0.75	0.120	0.016	130	180
01-02	0.09	0.88	0.78	0.100	0.018	140	200
02-03	0.05	1.1	0.78	0.130	0.011	130	180
03-05	0.10	1.3	0.73	0.160	0.022	110	120
05-08	0.10	0.84	0.78	0.110	0.028	130	170
08-12	0.08	1.2	0.78	0.095	0.023	140	210
12-15	0.05	0.78	0.70	0.095	0.021	140	220
15-19	0.02	0.75	0.52	0.070	0.010	140	230
19-22	0.01	1.3	0.39	0.085	0.008	150	270
22-25	0.04	0.85	0.48	0.100	0.017	140	250
25-26	0.08	0.81	0.57	0.130	0.021	140	240
26-27	0.09	1.1	0.56	0.180	0.020	110	180
27-29	0.66	1.5	0.66	0.220	0.035	88	120
29-30	0.17	1.5	0.71	0.160	0.037	130	180
JUN 30-							
JUL 01	0.12	1.6	0.75	0.190	0.032	130	180
01-03	0.12	1.5	0.78	0.200	0.033	88	120
03-05	0.08	1.2	0.75	0.140	0.043	120	160
05-06	0.06	1.8	0.81	0.170	0.035	120	160
06-10	0.09	1.4	0.84	0.240	0.047	92	120
10-13	0.05	1.2	0.87	0.120	0.034	120	180
13-16	0.04	1.4	0.69	0.160	0.028	120	190
16-17	0.05	1.2	0.70	0.160	0.025	110	180
17-19	0.04	1.0	0.70	0.140	0.036	110	180
19-20	0.04	0.94	0.69	0.160	0.029	84	140
20-24	0.15	0.96	0.72	0.110	0.032	110	150
24-27	0.04	1.0	0.68	0.150	0.031	110	150
27-31	0.05	0.97	0.69	0.150	<0.001	110	170

STREAMS TRIBUTARY TO LAKE ONTARIO

0423205025 IRONDEQUOIT CREEK AT EMPIRE BOULEVARD, ROCHESTER, NY--continued

WATER QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	ALKA- LITY WAT WH TOT FET FIELD MG/L AS CACO3	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L)	RESIDUE VOLA- TILE, SUS- PENDE (MG/L)
JUL 31-								
AUG 03	0940	0840	39	20	--	--	--	--
03-04	0955	0055	213	44	--	--	127	20
04-07	0155	0855	94	30	--	--	70	11
07-10	1100	0900	51	20	--	--	--	--
10-14	0915	0815	44	15	--	--	--	--
14-17	1000	0900	40	17	--	--	--	--
17-21	1100	1000	33	20	--	--	--	--
21-24	1215	1015	32	18	1250	210	43	<13
24-28	1025	0925	26	18	--	--	--	--
28-31	0945	1245	29	1.7	--	--	--	--
AUG 31-								
SEP 01	1345	0845	135	40	--	--	--	--
01-05	0935	0835	43	24	--	--	--	--
05-07	1050	0950	35	19	--	--	--	--
07-11	1100	1000	44	18	--	--	--	--
11-14	1025	0925	31	16	--	--	--	--
14-18	1015	0915	40	18	--	--	--	--
18-21	1035	0935	32	14	--	--	--	--
21-22	1055	0955	33	16	--	--	--	--
22-23	1055	0555	70	14	--	--	--	--
23-25	0655	0955	38	11	--	--	--	--
25-28	1035	0935	30	13	--	--	--	--
SEP 28-								
OCT 02	1020	0920	28	11	--	--	--	--

DATE	NITRO- GEN, AMMONIA + DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHOS, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
JUL 31-							
AUG 03	0.03	0.56	0.53	0.130	0.027	120	190
03-04	0.08	0.60	0.69	0.260	0.030	96	150
04-07	0.08	0.64	0.69	0.190	0.039	100	120
07-10	0.06	1.0	0.68	0.150	0.034	120	170
10-14	0.05	0.48	0.57	0.080	0.025	120	190
14-17	0.05	0.86	0.54	0.140	0.024	120	200
17-21	0.05	0.72	0.52	0.140	0.022	130	220
21-24	0.04	0.72	0.49	0.180	0.022	130	230
24-28	0.04	0.65	0.52	0.130	0.021	130	240
28-31	0.04	0.62	0.69	0.110	0.021	130	240
AUG 31-							
SEP 01	0.15	0.87	0.93	0.240	0.032	95	180
01-05	0.11	0.74	0.93	0.170	0.034	97	160
05-07	0.04	0.63	0.72	0.130	0.025	130	230
07-11	0.04	0.74	0.72	0.130	0.022	--	200
11-14	0.03	0.72	0.73	0.100	0.020	120	220
14-18	0.03	0.70	0.72	0.110	0.021	110	220
18-21	0.03	0.68	0.74	0.110	0.021	120	230
21-22	0.04	0.88	0.80	0.540	0.022	120	230
22-23	0.04	0.72	0.81	0.100	0.021	110	210
23-25	0.03	0.62	0.78	0.085	0.021	100	190
25-28	0.03	0.85	0.77	0.080	0.019	120	220
SEP 28-							
OCT 02	0.03	0.72	0.68	0.070	0.017	130	250

04232100 STERLING CREEK AT STERLING, NY

LOCATION.--Lat 43°19'31", long 76°38'51", Cayuga County, Hydrologic Unit 04140101, on right bank at Sterling, 25 ft downstream from bridge on State Highway 104A, 1.8 mi southwest of Sterling Valley, and 1.9 mi upstream from Sterling Valley Creek.

DRAINAGE AREA.--44.4 mi^2 .

PERIOD OF RECORD.--April 1957 to March 1995 (discontinued).

REVISED RECORDS.--WDR NY-85-3: 1960 (M), 1979-80 (M).

GAGE.--Water-stage recorder. Datum of gage is 264.69 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 period.

PEAK DISCHARGES FOR CURRENT PERIOD.--October 1994 to March 1995: Peak discharges greater than base discharge of 630 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Mar. 8	1330	*635	*3.79	No other peak greater than base discharge.			

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	4.1	41	37	e20	e37	e66	---	---	---	---	---	---
2	4.3	107	34	e23	e36	e50	---	---	---	---	---	---
3	4.1	79	31	e21	e35	e47	---	---	---	---	---	---
4	3.8	66	30	e20	e39	e45	---	---	---	---	---	---
5	4.2	58	67	e20	e34	e45	---	---	---	---	---	---
6	4.1	56	80	e19	e34	119	---	---	---	---	---	---
7	3.6	51	78	e19	e33	295	---	---	---	---	---	---
8	3.4	44	74	e18	e33	610	---	---	---	---	---	---
9	3.2	35	70	e18	e32	541	---	---	---	---	---	---
10	3.2	31	71	e17	e32	450	---	---	---	---	---	---
11	3.0	25	75	e17	e31	317	---	---	---	---	---	---
12	2.9	21	e66	e16	e30	200	---	---	---	---	---	---
13	2.9	18	e58	114	e30	255	---	---	---	---	---	---
14	3.1	17	e48	103	e29	243	---	---	---	---	---	---
15	2.9	18	e40	79	e29	187	---	---	---	---	---	---
16	2.8	20	e37	90	e29	139	---	---	---	---	---	---
17	2.9	17	e47	75	e28	109	---	---	---	---	---	---
18	3.0	16	66	62	e28	96	---	---	---	---	---	---
19	3.3	14	64	54	e29	83	---	---	---	---	---	---
20	3.9	14	58	50	e31	70	---	---	---	---	---	---
21	4.2	19	54	76	e43	68	---	---	---	---	---	---
22	4.1	24	49	82	e39	71	---	---	---	---	---	---
23	4.3	23	44	73	e38	76	---	---	---	---	---	---
24	4.8	20	42	69	e53	62	---	---	---	---	---	---
25	4.5	20	39	63	e45	54	---	---	---	---	---	---
26	4.5	23	35	55	e35	47	---	---	---	---	---	---
27	4.6	21	e30	49	e40	41	---	---	---	---	---	---
28	4.7	35	e28	e45	e82	40	---	---	---	---	---	---
29	5.0	44	e26	e42	---	38	---	---	---	---	---	---
30	5.6	39	e25	e40	---	37	---	---	---	---	---	---
31	5.1	---	e23	e37	---	45	---	---	---	---	---	---
TOTAL	120.1	1016	1526	1486	1014	4546	---	---	---	---	---	---
MEAN	3.87	33.9	49.2	47.9	36.2	147	---	---	---	---	---	---
MAX	5.6	107	80	114	82	610	---	---	---	---	---	---
MIN	2.8	14	23	16	28	37	---	---	---	---	---	---
CFSM	.09	.76	1.11	1.08	.82	3.30	---	---	---	---	---	---
IN.	.10	.85	1.28	1.25	.85	3.81	---	---	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1995, BY WATER YEAR (WY)

MEAN	26.4	58.5	79.9	73.4	99.5	179	145	61.8	29.2	15.3	11.4	15.7
MAX	125	168	186	152	299	387	357	170	160	96.9	120	100
(WY)	1987	1978	1960	1959	1981	1979	1993	1976	1976	1992	1992	1975
MIN	1.45	4.10	5.91	9.39	15.2	56.5	42.2	21.5	6.12	2.30	1.07	1.16
(WY)	1958	1961	1961	1961	1963	1981	1981	1987	1988	1963	1966	1964

STREAMS TRIBUTARY TO LAKE ONTARIO
04232100 STERLING CREEK AT STERLING, NY

181

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

WATER YEARS 1957 - 1995

ANNUAL TOTAL	23673.9		
ANNUAL MEAN	64.9		66.6
HIGHEST ANNUAL MEAN			114 1976
LOWEST ANNUAL MEAN			36.1 1988
HIGHEST DAILY MEAN	772	Mar 25	2170 Mar 22 1980
LOWEST DAILY MEAN	2.5	Sep 20	.37 a
ANNUAL SEVEN-DAY MINIMUM	2.6	Sep 19	.60 Sep 10 1966
INSTANTANEOUS PEAK FLOW			1760 Mar 22 1980
INSTANTANEOUS PEAK STAGE			5.99 Mar 22 1980
INSTANTANEOUS LOW FLOW			.32 Sep 14 1966
ANNUAL RUNOFF (CFSM)	1.46		1.50
ANNUAL RUNOFF (INCHES)	19.83		20.39
10 PERCENT EXCEEDS	155		155
50 PERCENT EXCEEDS	30		35
90 PERCENT EXCEEDS	3.4		3.4

a Sept. 14, 15, 1966.

STREAMS TRIBUTARY TO LAKE ONTARIO

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 mi².

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 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 mi². 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, 445.30 ft, July 15; minimum, 443.46 ft, Jan. 11, 12..

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	444.84	444.57	443.79	443.72	444.02	444.13	444.86	444.95	445.03	445.08	445.05	444.74
2	444.88	444.86	443.74	443.74	444.08	444.16	444.86	444.94	445.03	445.11	445.07	444.70
3	444.87	444.85	443.75	443.71	444.06	444.14	444.83	444.94	445.06	445.08	445.05	444.65
4	444.79	444.78	443.77	443.70	444.09	444.16	444.88	444.93	445.08	445.00	445.07	444.63
5	444.75	444.77	443.86	443.63	444.09	444.14	444.88	444.91	445.08	444.99	445.09	444.64
6	444.65	444.75	443.95	443.57	444.07	444.18	444.86	444.92	445.07	445.04	445.10	444.62
7	444.57	444.71	444.02	443.59	444.03	444.21	444.88	444.92	445.06	445.03	445.08	444.59
8	444.56	444.64	444.03	443.54	444.04	444.39	444.87	444.92	445.10	445.08	444.97	444.64
9	444.54	444.60	443.98	443.53	444.00	444.49	444.92	444.90	445.12	445.07	444.99	444.59
10	444.61	444.58	444.01	443.52	444.00	444.50	444.95	444.89	445.08	445.02	444.92	444.64
11	444.56	444.49	444.04	443.49	444.02	444.50	444.93	444.91	445.06	445.02	444.94	444.53
12	444.44	444.35	444.05	443.50	443.98	444.55	444.93	444.95	445.10	445.04	444.96	444.44
13	444.39	444.28	444.03	443.54	443.95	444.65	444.96	444.96	445.12	444.99	445.00	444.45
14	444.42	444.22	444.01	443.56	443.96	444.71	445.00	444.92	445.11	445.02	444.94	444.53
15	444.43	444.19	443.98	443.60	443.89	444.74	445.02	444.97	445.08	445.08	444.96	444.54
16	444.41	444.11	443.91	443.68	443.94	444.77	445.02	444.98	445.07	445.06	445.05	444.39
17	444.39	444.02	443.87	443.67	443.91	444.80	445.02	444.97	445.06	445.01	445.06	444.40
18	444.37	443.91	443.87	443.62	443.88	444.81	444.97	445.00	445.04	445.04	445.02	444.53
19	444.37	443.87	443.86	443.61	443.87	444.80	444.91	445.00	445.03	445.05	444.99	444.40
20	444.42	443.82	443.81	443.71	443.88	444.77	444.89	445.00	445.08	444.96	444.89	444.38
21	444.44	443.73	443.77	443.85	443.92	444.82	444.86	445.00	445.09	444.97	444.95	444.41
22	444.43	443.71	443.74	443.94	443.91	444.83	444.90	445.00	445.04	445.00	444.94	444.42
23	444.41	443.67	443.74	443.98	443.89	444.82	444.91	444.98	445.01	444.97	444.88	444.43
24	444.41	443.66	443.80	443.98	443.93	444.79	444.92	444.99	445.03	445.04	444.88	444.41
25	444.41	443.66	443.77	443.95	443.93	444.80	444.90	445.01	445.03	445.06	444.87	444.35
26	444.41	443.68	443.77	443.92	443.94	444.80	444.91	445.02	445.03	445.10	444.75	444.35
27	444.40	443.66	443.76	443.96	443.89	444.82	444.91	445.03	445.05	445.11	444.80	444.34
28	444.36	443.69	443.75	443.98	444.05	444.83	444.94	444.98	444.99	445.06	444.74	444.35
29	444.31	443.74	443.77	443.97	---	444.83	444.94	445.00	444.99	445.08	444.71	444.30
30	444.34	443.77	443.70	443.98	---	444.84	444.95	445.02	445.03	445.12	444.76	444.23
31	444.41	---	443.66	443.99	---	444.85	---	445.03	---	445.03	444.62	---
MEAN	444.50	444.18	443.86	443.73	443.97	444.60	444.92	444.97	445.06	445.04	444.94	444.49
MAX	444.88	444.86	444.05	443.99	444.09	444.85	445.02	445.03	445.12	445.12	445.10	444.74
MIN	444.31	443.66	443.66	443.49	443.87	444.13	444.83	444.89	444.99	444.96	444.62	444.23
CAL YR 1994	MEAN	444.68	MAX	446.53	MIN	443.44						
WTR YR 1995	MEAN	444.52	MAX	445.12	MIN	443.49						

STREAMS TRIBUTARY TO LAKE ONTARIO

183

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 mi²; Keuka Lake at mouth 182 mi².

PERIOD OF RECORD.--August 1960 to current year.

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 mi². During each year, a large part of flow from 45.5 mi² 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 YEAR.--Maximum elevation, 714.03 ft, June 26; minimum recorded elevation, 712.22 ft, Jan. 12, 13, but may have been lower during period of no gage-height record Feb. 6-18.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	713.75	713.30	712.58	712.46	712.84	712.43	713.12	713.73	713.82	713.90	713.85	713.50
2	713.74	713.50	712.54	712.43	712.84	712.44	713.12	713.74	713.84	713.90	713.86	713.49
3	713.72	713.53	712.53	712.42	712.80	712.44	713.11	713.73	713.86	713.88	713.84	713.46
4	713.68	713.50	712.53	712.36	712.78	712.44	713.15	713.73	713.88	713.86	713.83	713.45
5	713.65	713.47	712.63	712.32	712.75	712.43	713.16	713.74	713.86	713.85	713.84	713.44
6	713.60	713.40	712.70	712.35	---	712.46	713.17	713.74	713.85	713.85	713.86	713.43
7	713.58	713.37	712.77	712.36	---	712.52	713.19	713.74	713.84	713.89	713.83	713.40
8	713.54	713.32	712.79	712.34	---	712.67	713.19	713.75	713.87	713.90	713.80	713.41
9	713.50	713.29	712.77	712.31	---	712.76	713.23	713.74	713.86	713.89	713.77	713.41
10	713.50	713.25	712.80	712.30	---	712.79	713.26	713.73	713.85	713.87	713.75	713.40
11	713.47	713.21	712.81	712.30	---	712.81	713.26	713.76	713.88	713.87	713.73	713.34
12	713.43	713.13	712.82	712.25	---	712.87	713.29	713.77	713.90	713.86	713.78	713.31
13	713.39	713.10	712.80	712.25	---	712.96	713.37	713.78	713.90	713.84	713.81	713.30
14	713.37	713.05	712.78	712.25	---	713.00	713.40	713.75	713.90	713.84	713.80	713.32
15	713.36	713.01	712.77	712.29	---	713.03	713.43	713.78	713.88	713.86	713.79	713.32
16	713.32	712.98	712.74	712.35	---	713.05	713.45	713.79	713.87	713.85	713.81	713.26
17	713.30	712.93	712.73	712.37	---	713.07	713.49	713.79	713.85	713.85	713.80	713.26
18	713.28	712.88	712.74	712.37	---	713.08	713.51	713.80	713.84	713.83	713.79	713.27
19	713.27	712.86	712.74	712.37	712.36	713.08	713.53	713.80	713.83	713.83	713.75	713.24
20	713.28	712.83	712.72	712.59	712.30	713.07	713.58	713.80	713.88	713.79	713.73	713.23
21	713.27	712.80	712.71	712.80	712.32	713.10	713.59	713.80	713.88	713.80	713.71	713.24
22	713.26	712.80	712.71	712.89	712.31	713.11	713.63	713.79	713.86	713.79	713.70	713.24
23	713.24	712.77	712.72	712.93	712.30	713.12	713.65	713.79	713.85	713.78	713.65	713.25
24	713.21	712.73	712.73	712.95	712.32	713.12	713.67	713.79	713.84	713.83	713.64	713.24
25	713.20	712.68	712.67	712.96	712.35	713.11	713.67	713.82	713.84	713.88	713.62	713.22
26	713.18	712.65	712.64	712.97	712.35	713.10	713.68	713.82	713.90	713.89	713.58	713.21
27	713.17	712.60	712.61	712.98	712.30	713.11	713.69	713.82	713.91	713.89	713.58	713.18
28	713.14	712.61	712.58	712.97	712.43	713.10	713.71	713.80	713.87	713.87	713.54	713.20
29	713.12	712.60	712.57	712.94	---	713.09	713.72	713.80	713.86	713.88	713.52	713.17
30	713.11	712.60	712.53	712.91	---	713.10	713.73	713.83	713.88	713.88	713.52	713.15
31	713.14	---	712.48	712.87	---	713.10	---	713.83	---	713.86	713.47	---
MEAN	713.38	713.02	712.69	712.56	---	712.89	713.42	713.78	713.86	713.86	713.73	713.31
MAX	713.75	713.53	712.82	712.98	---	713.12	713.73	713.83	713.91	713.90	713.86	713.50
MIN	713.11	712.60	712.48	712.25	---	712.43	713.11	713.73	713.82	713.78	713.47	713.15

STREAMS TRIBUTARY TO LAKE ONTARIO

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 mi².

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.--No estimated daily discharges. Records good. Flow regulated by village of Penn Yan. During each year a large part of flow from 45.5 mi² 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	126	218	234	343	186	35	32	26	23	17	22
2	93	270	217	234	329	171	34	32	35	20	17	21
3	92	293	211	228	323	163	34	31	28	20	19	24
4	99	349	200	224	343	161	36	31	26	19	20	22
5	106	432	216	274	357	162	33	31	26	18	18	22
6	106	430	221	246	368	180	33	31	26	23	17	21
7	109	417	228	136	355	201	33	31	27	21	17	21
8	109	436	234	126	344	242	33	30	26	19	16	21
9	108	379	235	120	336	220	36	30	29	19	16	23
10	107	309	239	142	321	204	35	33	21	18	16	22
11	107	342	254	130	310	220	35	31	21	18	16	21
12	109	334	237	118	337	251	38	31	21	17	18	22
13	109	328	229	94	307	232	45	30	20	17	16	22
14	108	325	224	51	297	220	41	30	20	32	18	22
15	107	312	223	53	223	218	38	31	20	49	15	18
16	107	282	226	61	153	212	36	30	22	51	15	12
17	106	264	235	54	153	209	44	29	19	35	14	13
18	105	264	240	51	152	216	37	29	19	19	14	13
19	106	257	238	50	152	214	35	33	19	18	18	12
20	111	251	234	133	153	217	33	28	18	17	24	13
21	109	269	233	175	160	216	33	28	18	17	24	13
22	109	286	230	142	155	210	33	27	19	24	24	16
23	108	304	228	172	156	209	32	27	19	23	24	14
24	106	339	255	208	164	206	32	28	19	32	24	13
25	103	329	279	214	155	203	33	28	19	24	24	13
26	100	308	278	228	152	201	31	27	32	19	24	13
27	98	293	276	258	157	166	32	27	24	18	26	13
28	98	327	264	271	236	127	34	28	18	18	22	12
29	98	292	256	268	---	127	32	27	18	18	21	12
30	98	218	237	306	---	103	31	27	23	17	21	12
31	104	---	234	348	---	36	---	27	---	17	22	---
TOTAL	3230	9365	7329	5349	6991	5903	1047	915	678	700	597	518
MEAN	104	312	236	173	250	190	34.9	29.5	22.6	22.6	19.3	17.3
MAX	111	436	279	348	368	251	45	33	35	51	26	24
MIN	92	126	200	50	152	36	31	27	18	17	14	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1995, BY WATER YEAR (WY)

MEAN	119	187	236	202	209	305	328	244	190	109	84.3	87.1
MAX	404	534	532	465	421	601	737	629	676	892	450	256
(WY)	1978	1978	1978	1978	1978	1976	1993	1984	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

TRIBUTARY TO LAKE ONTARIO
04232482 KEUKA LAKE OUTLET AT DRESDEN, NY--Continued

185

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1965 - 1995	
ANNUAL TOTAL	73257		42622		193	
ANNUAL MEAN	201		117		362	
HIGHEST ANNUAL MEAN					81.1	
LOWEST ANNUAL MEAN					1978	
HIGHEST DAILY MEAN	1110	Mar 23	436	Nov 8	2200	Jun 22 1972
LOWEST DAILY MEAN	16	Aug 24	12	a	3.2	b
ANNUAL SEVEN-DAY MINIMUM	18	Aug 19	13	Sep 24	3.4	Sep 4 1982
INSTANTANEOUS PEAK FLOW			529	Nov 9	c4000	Jun 22 1972
INSTANTANEOUS PEAK STAGE			3.35	Nov 9	d10.37	Jun 22 1972
INSTANTANEOUS LOW FLOW			12	f	3.2	g
10 PERCENT EXCEEDS	400		288		441	
50 PERCENT EXCEEDS	126		49		138	
90 PERCENT EXCEEDS	31		18		21	

a Sep. 16, 19, 28, 29, 30.

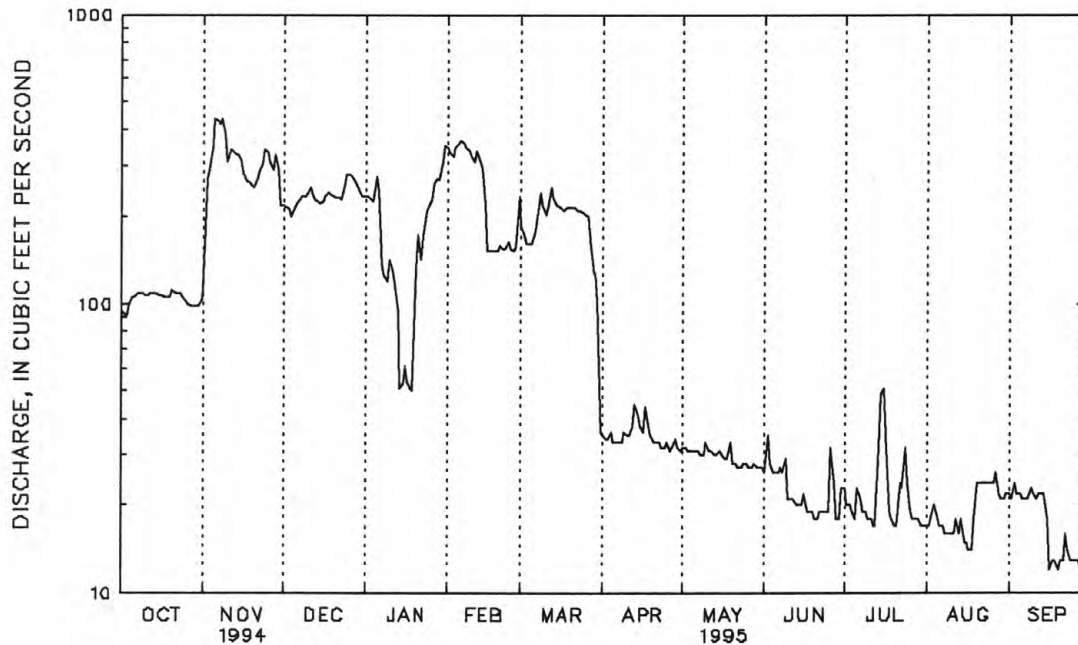
b Sep. 9, 10, 1982.

c From rating curve extended above 730 ft³/s on basis of contracted-opening measurement at Mays Mill, adjusted for intervening area.

d Datum then in use.

f Sep. 16, 19, 20, 28, 29, 30.

g Sep. 6, 7, 8, 9, 10, 1982.



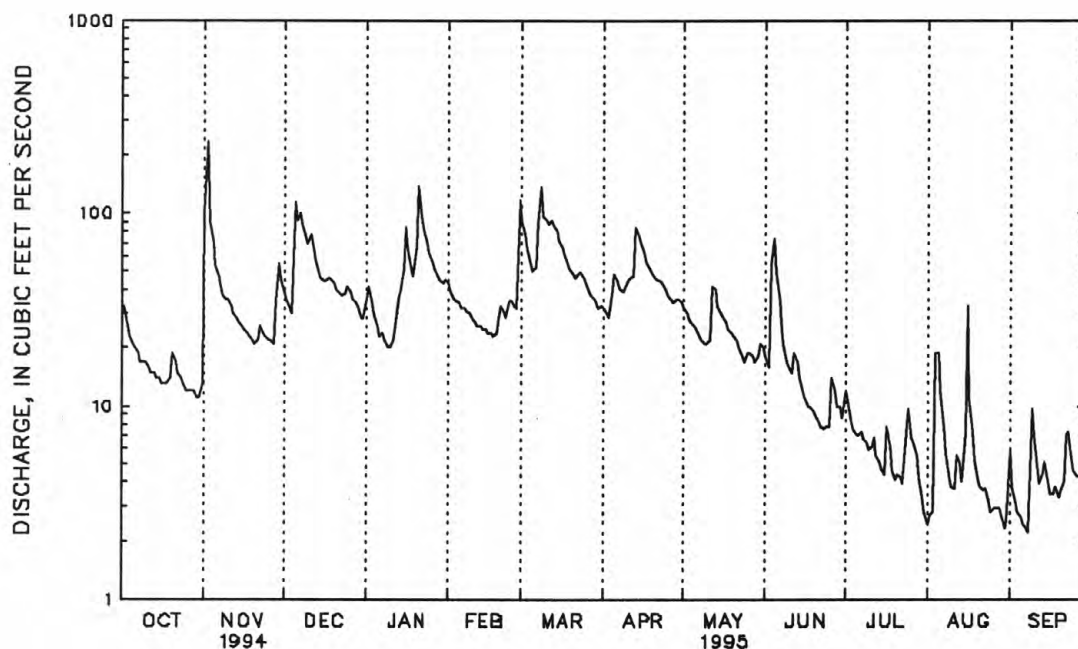
DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
04233000 CAYUGA INLET NEAR ITHACA, NY--Continued

187

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1937 - 1995	
ANNUAL TOTAL	18864.7		10977.6			
ANNUAL MEAN	51.7		30.1		38.5	
HIGHEST ANNUAL MEAN					61.7	
LOWEST ANNUAL MEAN					15.3	
HIGHEST DAILY MEAN	595	Mar 24	229	Nov 2	1690	Jun 22 1972
LOWEST DAILY MEAN	5.8	Aug 11	2.2	Sep 8	1.9	Jul 22 1955
ANNUAL SEVEN-DAY MINIMUM	6.4	Aug 7	2.7	Aug 25	2.2	Aug 28 1939
INSTANTANEOUS PEAK FLOW			412	Nov 1	a4800	Jun 23 1972
INSTANTANEOUS PEAK STAGE			2.37	Nov 1	8.10	Jun 23 1972
INSTANTANEOUS LOW FLOW			1.8	b	1.7	Jul 22 1955
ANNUAL RUNOFF (CFSM)	1.47		.85		1.09	
ANNUAL RUNOFF (INCHES)	19.94		11.60		14.84	
10 PERCENT EXCEEDS	118		65		84	
50 PERCENT EXCEEDS	25		25		20	
90 PERCENT EXCEEDS	11		4.1		5.3	

a From rating curve extended above 1,600 ft³/s on basis of slope-area measurements at gage heights 5.5 ft and 7.58 ft.
b Aug. 1, 30, 31, Sep. 7, 8.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
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 mi²; Cayuga Lake at mouth 1,564 mi²; Cayuga Lake portion 785 mi².

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 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 mi². 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, 382.80 ft., Aug. 6; minimum elevation, 378.92 ft., Dec. 22.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	381.54	379.89	379.31	379.17	379.67	380.01	381.52	382.24	382.60	382.62	382.29
2	---	382.24	379.76	379.37	379.20	379.66	380.01	381.52	382.27	382.68	382.63	382.26
3	---	382.40	379.63	379.32	379.14	379.56	379.96	381.56	382.33	382.65	382.63	382.23
4	---	382.43	379.50	379.43	379.21	379.50	380.12	381.58	382.44	382.55	382.67	382.22
5	---	382.46	379.50	379.42	379.30	379.40	380.16	381.63	382.42	382.56	382.67	382.25
6	---	382.47	379.60	379.40	379.27	379.40	380.12	381.70	382.42	382.58	382.69	382.22
7	---	382.47	379.70	379.50	379.25	379.38	380.20	381.69	382.43	382.59	382.63	382.22
8	---	382.37	379.71	379.50	379.28	379.69	380.16	381.71	382.52	382.67	382.52	382.28
9	---	382.34	379.58	379.52	379.26	379.85	380.26	381.67	382.52	382.66	382.49	382.24
10	---	382.32	379.62	379.48	379.25	379.81	380.31	381.64	382.47	382.60	382.41	382.32
11	---	382.24	379.71	379.40	379.32	379.78	380.27	381.70	382.48	382.62	382.43	382.20
12	---	382.07	379.62	379.36	379.29	379.82	380.31	381.84	382.56	382.60	382.46	382.14
13	---	382.01	379.53	379.40	379.26	379.95	380.56	381.88	382.58	382.57	382.49	382.15
14	---	381.92	379.48	379.39	379.29	379.99	380.68	381.81	382.58	382.61	382.42	382.27
15	---	381.92	379.39	379.40	379.18	380.01	380.78	381.95	382.57	382.65	382.46	382.28
16	---	381.82	379.23	379.55	379.25	379.96	380.81	381.95	382.56	382.63	382.65	382.10
17	381.40	381.71	379.14	379.62	379.19	379.94	380.85	381.95	382.55	382.57	382.67	382.15
18	381.35	381.57	379.15	379.58	379.17	379.87	380.91	382.01	382.55	382.61	382.61	382.30
19	381.34	381.55	379.11	379.47	379.17	379.75	381.01	382.02	382.57	382.64	382.52	382.17
20	381.37	381.44	379.04	379.47	379.19	379.61	381.15	382.04	382.62	382.53	382.41	382.15
21	381.38	381.25	378.99	379.56	379.27	379.65	381.11	382.04	382.62	382.56	382.42	382.21
22	381.37	381.28	378.98	379.62	379.27	379.64	381.23	382.06	382.55	382.55	382.44	382.25
23	381.35	381.19	379.06	379.64	379.24	379.74	381.27	382.03	382.53	382.53	382.34	382.28
24	381.34	380.97	379.23	379.71	379.33	379.83	381.30	382.07	382.56	382.60	382.38	382.24
25	381.36	380.79	379.14	379.74	379.34	379.88	381.29	382.11	382.56	382.60	382.35	382.21
26	381.34	380.65	379.11	379.73	379.34	379.86	381.33	382.14	382.57	382.66	382.25	382.23
27	381.33	380.39	379.11	379.70	379.29	379.88	381.34	382.15	382.56	382.67	382.29	382.23
28	381.29	380.22	379.18	379.59	379.58	379.89	381.42	382.07	382.50	382.64	382.22	382.27
29	381.25	380.17	379.37	379.46	---	379.89	381.46	382.14	382.54	382.65	382.22	382.19
30	381.27	380.04	379.29	379.35	---	379.92	381.49	382.22	382.57	382.70	382.27	382.15
31	381.33	---	379.23	379.24	---	379.98	---	382.24	---	382.61	382.16	---
MEAN	---	381.61	379.37	379.49	379.26	379.77	380.73	381.89	382.51	382.61	382.47	382.22
MAX	---	382.47	379.89	379.74	379.58	380.01	381.49	382.24	382.62	382.70	382.69	382.32
MIN	---	380.04	378.98	379.24	379.14	379.38	379.96	381.52	382.24	382.53	382.16	382.10

STREAMS TRIBUTARY TO LAKE ONTARIO
04234000 FALL CREEK NEAR ITHACA, NY--Continued

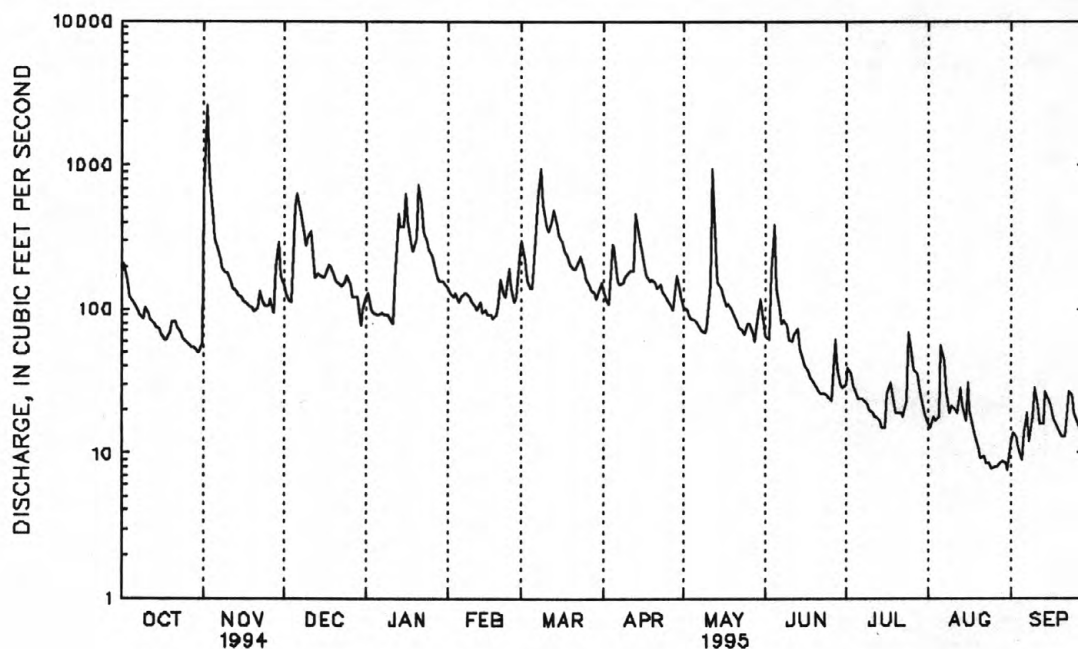
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1925 - 1995	
ANNUAL TOTAL	91487		50530.0		186	
ANNUAL MEAN	251		138		271	
HIGHEST ANNUAL MEAN					83.6	
LOWEST ANNUAL MEAN					8280	
HIGHEST DAILY MEAN	2550	Nov 2	2550	Nov 2		Jul 8 1935
LOWEST DAILY MEAN	34	Jul 22	7.6	Aug 31	3.6	Aug 17 1965
ANNUAL SEVEN-DAY MINIMUM	38	Jul 19	8.2	Aug 25	5.0	Sep 20 1964
INSTANTANEOUS PEAK FLOW			3230	Nov 2	a15500	Jul 8 1935
INSTANTANEOUS PEAK STAGE			b6.32	Feb 28	b11.16	Feb 21 1971
INSTANTANEOUS LOW FLOW			6.9	c	d3.0	Aug 25 1927
ANNUAL RUNOFF (CFSM)	1.99		1.10		1.47	
ANNUAL RUNOFF (INCHES)	27.01		14.92		20.03	
10 PERCENT EXCEEDS	645		295		416	
50 PERCENT EXCEEDS	125		100		100	
90 PERCENT EXCEEDS	56		17		23	

a From average of computed flow over each of four dams.

b Ice jam..

c Aug. 24, 31.

d Approximate discharge, result of regulation.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

191

DRAINAGE AREA.--16.8 mi².

GAGE.--Water-stage recorder. Datum of gage is 560 ft above sea level, from topographic map.

REMARKS.--November 1993 to September 1994: Records good except those for estimated daily discharges, which are fair.
October 1994 to September 1995: Records fair except those for estimated daily discharges, which are poor.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	e8.0	3.8	13	e8.0	18	19	13	2.9	1.3	7.2
2	---	---	e6.0	4.4	e9.0	e9.0	16	13	6.2	2.8	9.8	3.8
3	---	---	5.7	3.8	6.6	e8.0	24	9.8	4.7	2.2	11	2.0
4	---	---	17	3.8	5.4	e8.0	24	8.4	3.8	1.9	3.2	1.7
5	---	---	29	4.5	5.3	e9.0	19	7.8	3.3	1.8	3.3	1.7
6	---	---	14	e5.5	5.0	e9.0	34	10	3.1	2.8	2.2	1.7
7	---	---	9.7	e5.2	4.7	e14	42	9.1	3.1	2.2	1.9	1.6
8	---	---	7.8	e5.0	4.6	29	51	47	2.8	1.9	1.6	4.1
9	---	---	7.2	e5.0	5.3	e23	40	22	2.5	1.9	1.6	9.0
10	---	---	7.6	e4.8	4.6	31	29	17	2.3	2.2	2.2	3.7
11	---	---	8.2	e4.8	4.3	24	21	13	2.2	1.8	3.1	2.0
12	---	---	6.8	4.6	4.2	18	22	10	2.3	1.6	3.4	2.0
13	---	---	e5.5	4.6	4.5	19	130	8.1	2.9	1.5	4.3	1.8
14	---	---	5.5	4.7	4.4	27	42	6.8	4.0	1.4	17	11
15	---	---	6.6	4.8	4.5	116	22	8.7	3.1	1.5	6.2	7.2
16	---	---	7.6	e4.8	4.3	93	24	10	2.7	1.5	4.0	4.8
17	---	---	5.6	e5.5	5.0	e24	20	15	2.5	1.4	2.3	3.1
18	---	---	5.4	e4.8	e7.0	e20	15	15	2.2	1.5	8.9	2.6
19	---	---	5.4	e5.0	e20	17	15	12	2.0	1.6	3.4	2.6
20	---	---	5.6	e7.0	e190	17	12	8.7	1.9	1.5	2.2	2.7
21	---	---	11	7.5	110	144	11	7.0	1.8	1.3	34	2.0
22	---	---	e8.0	5.5	30	256	e10	6.3	1.8	1.3	12	2.0
23	---	---	e5.0	4.4	e20	115	e10	5.5	1.7	1.3	4.6	1.9
24	---	---	5.6	4.5	19	67	e9.5	4.8	8.4	1.6	2.6	2.3
25	---	---	4.8	4.2	14	38	29	5.1	5.7	1.4	7.1	2.4
26	---	---	e4.6	4.4	e11	21	20	6.1	3.1	4.0	7.1	12
27	---	---	e4.2	4.1	e10	45	15	8.3	4.4	2.5	5.4	13
28	---	---	e4.0	19	e9.0	33	e9.0	5.4	4.1	2.8	3.0	6.7
29	---	---	e3.8	e58	---	24	13	4.7	3.4	1.9	2.8	5.1
30	---	11	e3.6	e25	---	28	11	4.2	4.3	1.6	1.8	4.3
31	---	---	e3.5	16	---	21	---	6.4	---	1.4	2.0	---
TOTAL	---	---	232.3	249.0	534.7	1315.0	757.5	334.2	109.3	59.0	175.3	128.0
MEAN	---	---	7.49	8.03	19.1	42.4	25.2	10.8	3.64	1.90	5.65	4.27
MAX	---	---	29	58	190	256	130	47	13	4.0	34	13
MIN	---	---	3.5	3.8	4.2	8.0	9.0	4.2	1.7	1.3	1.3	1.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1994, BY WATER YEAR (WY)

[illegible]

STREAMS TRIBUTARY TO LAKE ONTARIO
04234232 GREAT BROOK BELOW VICTOR, NY--Continued

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	4.8	21	4.1	6.3	e7.5	19	6.6	3.7	2.0	3.6	e1.1	e2.4
2	5.0	25	3.9	5.9	e7.0	12	5.7	3.3	4.0	4.7	e1.1	e1.2
3	3.8	e12	3.1	5.3	6.3	10	5.8	2.8	3.6	1.7	e1.6	.99
4	3.6	e7.5	3.0	4.3	e6.3	9.6	7.0	2.3	2.4	1.4	e1.4	1.0
5	3.7	e6.0	23	3.5	6.3	12	5.8	2.1	2.0	1.4	e1.3	1.0
6	3.3	e7.0	16	3.0	6.3	34	5.6	1.9	1.9	1.4	e1.4	1.1
7	e3.0	e6.5	16	3.8	6.2	33	6.0	1.6	1.8	1.3	e1.3	e1.0
8	e2.8	e5.0	13	3.9	6.2	35	6.3	1.6	1.7	1.3	e1.3	1.1
9	e2.7	e4.5	11	3.6	6.1	23	9.9	1.7	1.6	1.3	e1.3	1.2
10	e2.6	e4.0	19	3.2	6.0	17	12	5.1	1.5	1.3	e1.2	1.1
11	e2.5	3.5	21	3.1	e5.9	23	12	10	1.5	1.2	e1.2	e1.0
12	e2.6	3.4	13	6.5	e5.0	35	11	5.5	1.5	1.2	e1.4	e.95
13	e2.6	3.4	9.2	12	e5.0	24	16	4.0	1.4	1.1	e1.3	e1.1
14	e2.6	3.5	7.7	13	e4.8	17	12	3.5	1.3	1.3	e1.2	2.2
15	e2.5	4.0	7.4	14	e4.8	15	11	3.6	1.2	3.4	e1.2	1.3
16	e2.4	3.7	7.2	16	e5.4	14	8.0	2.3	1.2	1.7	e1.2	e1.1
17	e2.4	3.5	16	17	e5.6	19	6.6	2.1	1.1	1.9	e1.1	e1.1
18	e2.4	3.4	18	14	e6.0	15	6.6	2.1	1.0	1.9	e1.0	e1.2
19	e3.0	3.6	16	10	8.3	12	8.3	1.9	1.1	2.1	e.95	e1.0
20	e3.0	3.1	12	100	14	12	5.6	1.8	1.0	1.3	e.95	e1.0
21	e2.6	4.0	9.8	47	16	13	5.7	2.0	.98	1.1	e.95	e1.1
22	e2.4	4.4	8.5	23	9.6	14	5.7	1.8	e.95	1.0	e.95	2.0
23	e2.4	3.8	7.6	15	9.7	14	4.8	1.6	e.95	1.2	e.90	1.6
24	e2.4	3.4	7.6	12	15	10	4.3	1.7	e1.0	1.8	e.90	1.3
25	e2.4	3.5	6.8	11	8.1	8.2	4.3	2.1	e1.0	1.7	e.90	1.3
26	e2.4	3.1	5.9	11	7.3	7.3	3.7	1.9	e1.0	1.3	e.90	1.2
27	e2.3	3.0	5.6	10	10	6.8	4.0	1.7	e1.0	1.3	e.95	e1.1
28	e2.3	6.8	5.7	7.6	39	6.6	7.0	2.5	e1.1	1.5	e1.0	e1.0
29	e2.3	6.0	4.9	7.5	---	6.4	4.6	3.6	e1.2	2.3	e.95	e1.0
30	e2.2	4.5	4.5	6.9	---	7.6	3.8	2.6	e2.0	1.3	e.90	e1.0
31	e3.2	---	4.4	7.4	---	8.6	---	2.3	---	e1.2	e3.4	---
TOTAL	88.2	176.1	310.9	406.8	243.7	493.1	215.7	86.7	45.98	52.2	37.20	36.64
MEAN	2.85	5.87	10.0	13.1	8.70	15.9	7.19	2.80	1.53	1.68	1.20	1.22
MAX	5.0	25	23	100	39	35	16	10	4.0	4.7	3.4	2.4
MIN	2.2	3.0	3.0	3.0	4.8	6.4	3.7	1.6	.95	1.0	.90	.95

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

[illegible]

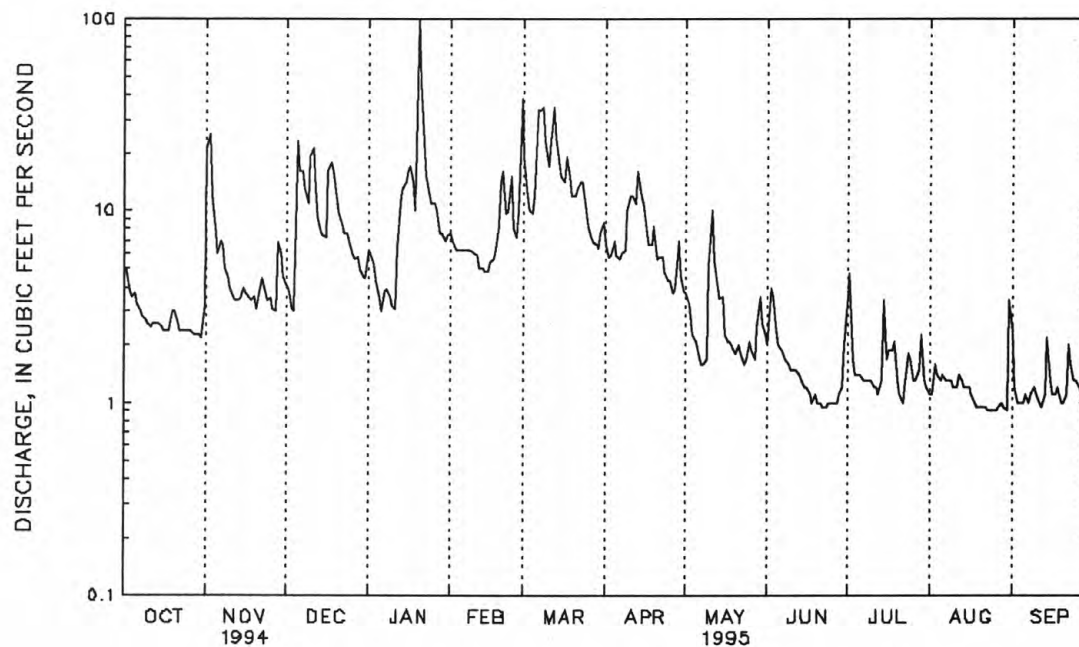
STREAMS TRIBUTARY TO LAKE ONTARIO
04234232 GREAT BROOK BELOW VICTOR, NY--Continued

193

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1994 - 1995	
ANNUAL TOTAL	4237.2		2193.22		6.01	
ANNUAL MEAN	11.6		6.01		6.01	
HIGHEST ANNUAL MEAN					6.01	
LOWEST ANNUAL MEAN					6.01	
HIGHEST DAILY MEAN	256	Mar 22	100	Jan 20	256	Mar 22 1994
LOWEST DAILY MEAN	1.3	a	.90	b	.90	b
ANNUAL SEVEN-DAY MINIMUM	1.4	Jul 17	.92	Aug 20	.92	Aug 20 1995
INSTANTANEOUS PEAK FLOW			293	Jan 20	584	Mar 21 1994
INSTANTANEOUS PEAK STAGE			4.28	Jan 20	5.01	Mar 21 1994
10 PERCENT EXCEEDS	23		14		19	
50 PERCENT EXCEEDS	4.8		3.5		4.5	
90 PERCENT EXCEEDS	1.9		1.1		1.3	

a July 21, 22, 23, Aug. 1.

b Aug. 23, 24, 25, 26, 30, 1995.



DAILY MEAN DISCHARGE FOR — 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
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 mi².

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 mi².

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, 688.18 ft, May 28; minimum, 686.48 ft, Sep. 30.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	687.62	687.30	687.41	687.31	687.62	687.28	687.72	687.94	687.89	687.69	687.56	686.95
2	687.60	687.50	687.40	687.30	687.57	687.31	687.68	687.94	687.89	687.67	687.52	686.92
3	687.57	687.57	687.38	687.27	687.56	687.33	687.68	687.94	687.91	687.65	687.52	686.91
4	687.55	687.59	687.37	687.22	687.53	687.33	687.66	687.93	687.89	687.66	687.53	686.88
5	687.53	687.59	687.43	687.21	687.49	687.36	687.67	687.92	687.89	687.69	687.53	686.87
6	687.52	687.62	687.48	687.17	687.46	687.40	687.68	687.91	687.88	687.74	687.49	686.85
7	687.51	687.60	687.54	687.12	687.44	687.52	687.67	687.90	687.88	687.74	687.48	686.85
8	687.51	687.60	687.58	687.11	687.40	687.65	687.69	687.89	687.84	687.70	687.46	686.80
9	687.49	687.58	687.63	687.07	687.38	687.78	687.70	687.90	687.84	687.67	687.43	686.79
10	687.43	687.57	687.63	687.06	687.35	687.80	687.73	687.94	687.84	687.66	687.41	686.75
11	687.41	687.56	687.64	687.07	687.30	687.81	687.78	687.95	687.86	687.64	687.40	686.75
12	687.40	687.57	687.66	687.11	687.28	687.85	687.84	687.93	687.83	687.62	687.39	686.76
13	687.39	687.54	687.66	687.11	687.24	687.88	687.82	687.94	687.82	687.62	687.37	686.74
14	687.35	687.56	687.66	687.18	687.20	687.90	687.84	688.01	687.79	687.66	687.36	686.74
15	687.34	687.52	687.67	687.18	687.19	687.89	687.85	687.95	687.79	687.64	687.35	686.71
16	687.32	687.52	687.71	687.19	687.13	687.88	687.86	687.94	687.77	687.64	687.34	686.80
17	687.30	687.51	687.72	687.21	687.10	687.86	687.87	687.95	687.77	687.65	687.32	686.69
18	687.29	687.55	687.67	687.24	687.08	687.85	687.89	687.93	687.76	687.65	687.29	686.65
19	687.29	687.48	687.68	687.26	687.06	687.83	687.92	687.93	687.74	687.61	687.28	686.65
20	687.29	687.46	687.69	687.36	687.04	687.84	687.89	687.92	687.71	687.61	687.27	686.64
21	687.27	687.55	687.69	687.62	687.05	687.78	687.94	687.92	687.70	687.56	687.23	686.62
22	687.26	687.46	687.66	687.75	687.06	687.76	687.92	687.91	687.70	687.55	687.18	686.64
23	687.25	687.43	687.61	687.80	687.08	687.73	687.92	687.91	687.68	687.58	687.16	686.62
24	687.23	687.44	687.56	687.79	687.11	687.70	687.92	687.91	687.68	687.58	687.11	686.61
25	687.21	687.41	687.54	687.78	687.11	687.69	687.93	687.90	687.66	687.59	687.08	686.60
26	687.19	687.38	687.52	687.78	687.11	687.70	687.92	687.89	687.68	687.61	687.06	686.58
27	687.17	687.43	687.49	687.76	687.14	687.70	687.93	687.88	687.72	687.61	687.02	686.57
28	687.17	687.46	687.45	687.73	687.21	687.71	687.95	687.98	687.71	687.62	687.01	686.53
29	687.16	687.42	687.39	687.71	---	687.73	687.94	687.94	687.67	687.62	686.99	686.54
30	687.12	687.40	687.37	687.67	---	687.75	687.94	687.89	687.66	687.59	686.97	686.52
31	687.12	---	687.36	687.65	---	687.75	---	687.89	---	687.57	686.97	---
MEAN	687.35	687.51	687.56	687.38	687.26	687.69	687.82	687.93	687.78	687.64	687.29	686.72
MAX	687.62	687.62	687.72	687.80	687.62	687.90	687.95	688.01	687.91	687.74	687.56	686.95
MIN	687.12	687.30	687.36	687.06	687.04	687.28	687.66	687.88	687.66	687.55	686.97	686.52

CAL YR 1994 MEAN 687.87 MAX 689.13 MIN 686.76
WTR YR 1995 MEAN 687.50 MAX 688.01 MIN 686.52

STREAMS TRIBUTARY TO LAKE ONTARIO
04235000 CANANDAIGUA OUTLET AT CHAPIN, NY

195

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 mi².

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.--No estimated daily discharges. 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	79	45	207	261	76	281	48	43	47	37	35
2	38	101	43	205	256	67	279	48	44	42	37	34
3	38	58	42	199	250	64	153	47	46	41	39	34
4	37	53	41	181	240	62	45	47	45	41	40	34
5	37	51	67	89	208	66	43	47	45	42	38	34
6	37	50	60	285	201	108	43	47	45	47	37	35
7	37	48	57	212	219	104	43	46	44	45	37	36
8	36	47	56	167	219	128	43	47	44	43	37	34
9	36	43	55	123	204	217	46	47	45	41	37	34
10	34	40	63	74	198	364	49	49	43	41	37	33
11	34	45	71	87	189	371	48	49	44	41	36	33
12	37	46	59	32	178	402	49	45	42	41	37	34
13	44	46	54	40	201	391	51	43	42	41	36	34
14	43	46	52	40	180	385	49	47	42	41	36	35
15	43	46	52	38	191	378	48	48	42	43	36	33
16	42	43	57	46	172	373	47	47	41	42	36	34
17	41	46	80	45	169	365	48	47	41	43	35	33
18	41	56	80	44	164	357	48	48	41	42	35	31
19	42	64	77	42	164	350	49	49	40	40	38	30
20	42	64	74	82	167	346	47	48	37	38	38	30
21	44	59	148	119	143	338	48	47	40	36	37	31
22	44	46	275	101	52	332	47	47	40	36	37	32
23	44	44	268	144	51	325	46	47	40	38	36	30
24	42	43	256	299	54	277	47	47	40	39	35	29
25	42	42	251	299	52	82	47	47	40	43	34	29
26	40	42	245	300	52	76	47	46	41	51	36	29
27	33	42	239	295	53	62	48	46	42	39	36	29
28	32	47	235	285	97	44	49	47	43	38	36	28
29	31	44	222	279	---	45	48	46	42	40	35	28
30	31	43	215	273	---	45	48	43	45	38	35	28
31	31	---	215	268	---	102	---	41	---	37	36	---
TOTAL	1192	1524	3754	4900	4585	6702	1984	1448	1269	1277	1132	963
MEAN	38.5	50.8	121	158	164	216	66.1	46.7	42.3	41.2	36.5	32.1
MAX	44	101	275	300	261	402	281	49	46	51	40	36
MIN	31	40	41	32	51	44	43	41	37	36	34	28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

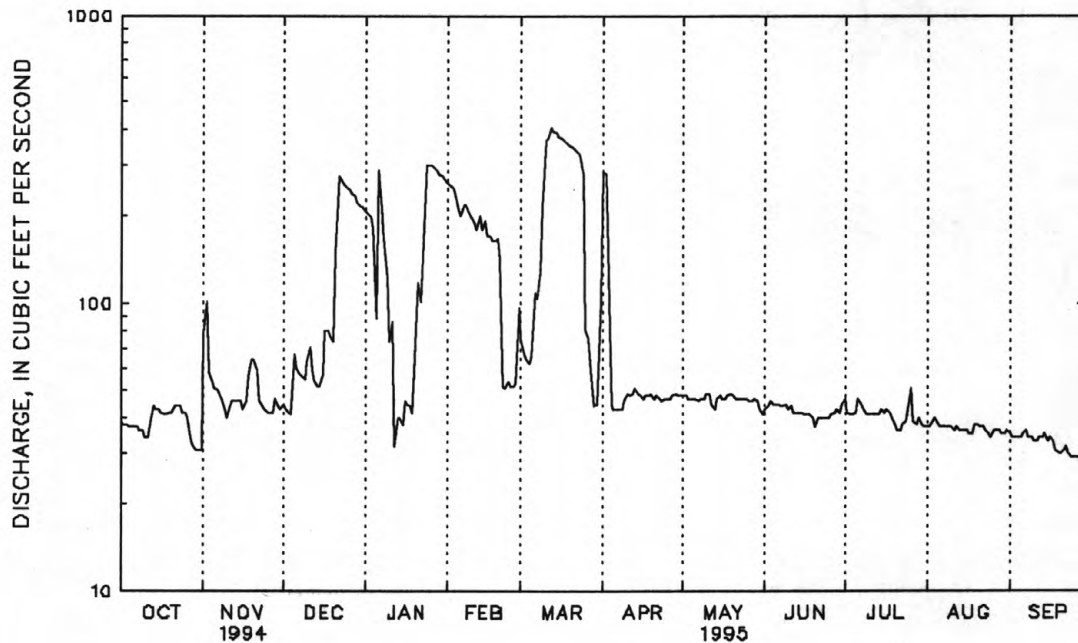
MEAN	74.1	93.5	129	141	156	288	407	262	148	90.9	62.0	52.1
MAX	613	419	521	420	518	748	1036	725	566	852	483	363
(WY)	1978	1978	1973	1993	1976	1976	1993	1943	1972	1972	1992	1977
MIN	13.0	12.9	11.1	8.38	9.47	28.9	61.4	46.7	20.7	17.3	16.2	13.3
(WY)	1992	1964	1967	1967	1967	1967	1946	1995	1955	1963	1991	1991

STREAMS TRIBUTARY TO LAKE ONTARIO
04235000 CANANDAIGUA OUTLET AT CHAPIN, NY--continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	58385		30730		157	
ANNUAL MEAN	160		84.2		302	1993
HIGHEST ANNUAL MEAN					57.7	1965
LOWEST ANNUAL MEAN					1680	Jun 24 1972
HIGHEST DAILY MEAN	787	Apr 13	402	Mar 12	5.2	Sep 15 1948
LOWEST DAILY MEAN	31	Oct 29	28	a	7.1	Feb 23 1967
ANNUAL SEVEN-DAY MINIMUM	34	Oct 25	29	Sep 24	1710	Jun 24 1972
INSTANTANEOUS PEAK FLOW			433	Mar 10	b11.08	Jun 24 1972
INSTANTANEOUS PEAK STAGE			4.82	Mar 10	4.4	Sep 24 1991
INSTANTANEOUS LOW FLOW			27	Sep 28	451	
10 PERCENT EXCEEDS	597		237		64	
50 PERCENT EXCEEDS	59		45		25	
90 PERCENT EXCEEDS	42		35			

a Sep. 28, 29, 30.

b Present datum, at site then in use.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
04235250 FLINT CREEK AT PHELPS, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		WATER YEARS 1960 - 1995	
ANNUAL TOTAL	30593.5			
ANNUAL MEAN	83.8		89.7	
HIGHEST ANNUAL MEAN			162	1978
LOWEST ANNUAL MEAN			32.2	1965
HIGHEST DAILY MEAN	1430	Mar 23	2670	Jun 24 1972
LOWEST DAILY MEAN	2.4	Aug 12	.00	Sep 16 1962
ANNUAL SEVEN-DAY MINIMUM	3.6	Oct 12	.00	Sep 16 1962
INSTANTANEOUS PEAK FLOW			2940	Mar 30 1960
INSTANTANEOUS PEAK STAGE			a6.20	Mar 17 1963
INSTANTANEOUS LOW FLOW			.00	b
ANNUAL RUNOFF (CFSM)		.82	.88	
ANNUAL RUNOFF (INCHES)		11.16	11.95	
10 PERCENT EXCEEDS		214	230	
50 PERCENT EXCEEDS		22	36	
90 PERCENT EXCEEDS		6.0	3.6	

a Ice jam.

b No flow for many days 1962-65, 1969.

STREAMS TRIBUTARY TO LAKE ONTARIO
04235276 BLACK BROOK AT TYRE, NY

199

LOCATION.--Lat 42°59'30", long 76°48'13", Seneca County, Hydrologic Unit 04140201, on right bank 25 ft upstream from bridge on County Highway 101 in village of Tyre, and 0.8 mi upstream from mouth.

DRAINAGE AREA.--19.0 mi².

PERIOD OF RECORD.--Low-flow measurements, water years 1964-66, 1970-72, 1974, and annual maximum, water years 1965-73, 1975-85, November 1985 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 391.12 ft above sea level. December 9, 1964 to November 21, 1985, crest-stage gage at same site and datum.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 160 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Nov. 2	0600	*168	*2.03	No other peak greater than base discharge.			

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	1.1	60	6.5	4.4	e6.5	70	9.4	4.4	1.8	1.6	.54	.73
2	1.1	131	5.7	e4.2	e6.5	e45	8.3	4.2	4.2	1.6	.57	.42
3	.94	47	5.0	e4.0	e6.0	e30	7.0	3.9	3.9	1.3	1.2	.37
4	.83	21	4.4	e4.0	e5.5	e18	7.1	3.5	7.8	1.2	1.2	.41
5	.92	14	23	e3.8	e4.8	14	7.5	3.3	3.9	1.0	1.1	.43
6	.84	13	59	3.7	e4.4	47	6.6	3.1	2.5	1.0	1.0	.48
7	.76	12	45	3.4	e4.2	109	6.9	2.7	2.0	1.1	.82	.42
8	.76	9.0	44	2.8	e4.2	140	9.7	2.6	1.7	.89	.63	.43
9	.73	7.2	31	2.6	e4.0	e60	13	3.1	1.5	.82	.56	.51
10	.76	7.4	40	2.5	e4.0	e50	20	3.2	1.4	.76	.46	.44
11	.76	6.9	70	2.5	e3.9	e40	23	2.7	1.4	.66	.43	.41
12	.76	6.0	e50	4.9	3.9	82	21	3.3	1.4	.65	.63	.37
13	.85	5.0	e50	9.0	3.9	119	71	3.1	1.4	.57	.50	.45
14	.77	3.6	20	11	3.9	66	39	2.7	1.3	.57	.49	.93
15	.79	3.7	8.5	16	3.9	39	25	2.7	1.2	.59	.48	.47
16	.76	4.0	8.2	37	4.2	28	18	2.4	1.2	.57	.52	.41
17	.76	3.2	11	31	3.8	26	13	2.4	1.2	.71	.40	.43
18	.81	2.6	23	24	3.7	24	10	2.1	1.2	.61	.40	.47
19	.98	2.6	26	19	4.4	20	8.7	1.9	1.1	.58	.38	.42
20	1.4	2.4	23	18	6.4	16	7.9	1.8	1.1	1.5	.38	.45
21	1.4	2.9	18	57	14	22	6.9	1.8	1.0	1.3	.33	.53
22	1.3	3.6	15	57	e13	32	6.6	1.6	1.0	.87	.32	1.1
23	1.1	3.9	13	32	14	29	6.2	1.6	1.0	1.0	.45	.74
24	1.0	4.1	12	22	e22	21	5.7	1.5	1.0	1.1	.38	.51
25	1.0	3.8	11	18	e20	17	5.2	1.6	.92	.95	.34	.49
26	.97	3.6	9.4	16	e18	13	4.7	1.5	.97	1.3	.34	.48
27	.94	3.5	8.0	14	e16	11	4.4	1.4	1.3	1.5	.36	.46
28	.87	5.1	7.4	e11	e80	11	5.0	1.4	1.1	1.1	.31	.46
29	.87	7.7	e7.0	e9.5	---	8.8	5.3	1.6	1.0	.91	.30	.45
30	.87	8.1	7.3	e8.0	---	12	5.1	1.4	.93	.64	.30	.44
31	1.1	---	4.8	6.0	---	12	---	1.4	---	.59	.73	---
TOTAL	28.80	407.9	666.2	458.3	289.1	1231.8	387.2	75.9	53.42	29.54	16.85	15.11
MEAN	.93	13.6	21.5	14.8	10.3	39.7	12.9	2.45	1.78	.95	.54	.50
MAX	1.4	131	70	57	80	140	71	4.4	7.8	1.6	1.2	1.1
MIN	.73	2.4	4.4	2.5	3.7	8.8	4.4	1.4	.92	.57	.30	.37
CFSM	.05	.72	1.13	.78	.54	2.09	.68	.13	.09	.05	.03	.03
IN.	.06	.80	1.30	.90	.57	2.41	.76	.15	.10	.06	.03	.03

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1995, BY WATER YEAR (WY)

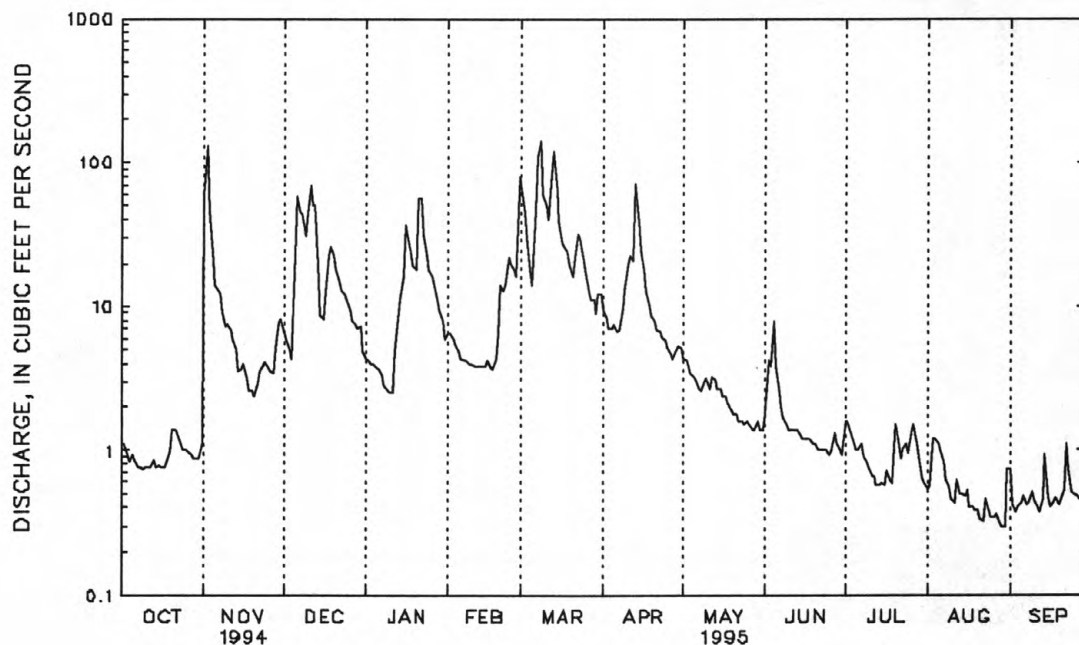
MEAN	9.32	20.0	27.0	22.0	24.0	46.3	45.8	15.1	6.20	7.30	4.86	4.27
MAX	23.6	46.4	61.5	41.5	65.6	112	140	51.2	19.4	43.8	27.5	24.7
(WY)	1991	1993	1991	1986	1990	1994	1993	1990	1989	1992	1992	1992
MIN	.81	1.87	2.22	2.74	5.01	22.3	11.8	2.45	1.19	.95	.54	.50
(WY)	1992	1992	1989	1989	1989	1988	1988	1995	1988	1995	1995	1995

STREAMS TRIBUTARY TO LAKE ONTARIO
04235276 BLACK BROOK AT TYRE, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1986 - 1995	
ANNUAL TOTAL	7494.00		3660.12		19.1	
ANNUAL MEAN	20.5		10.0		29.9	1993
HIGHEST ANNUAL MEAN					9.58	1988
LOWEST ANNUAL MEAN					620	Apr 1 1993
HIGHEST DAILY MEAN	474	Mar 25	140	Mar 8	.30	Sep 18 1991
LOWEST DAILY MEAN	.73	Oct 9	.30	a	.33	Aug 24 1995
ANNUAL SEVEN-DAY MINIMUM	.77	Oct 6	.33	Aug 24	786	Dec 14 1977
INSTANTANEOUS PEAK FLOW			168	Nov 2	b6.68	Nov 5 1970
INSTANTANEOUS PEAK STAGE			2.03	Nov 2	1.00	
ANNUAL RUNOFF (CFSM)	1.08		.53		13.62	
ANNUAL RUNOFF (INCHES)	14.67		7.17		50	
10 PERCENT EXCEEDS	60		26		5.9	
50 PERCENT EXCEEDS	3.8		3.2		.87	
90 PERCENT EXCEEDS	1.1		.48			

a Aug. 29, 30.

b Discharge not determined.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
04235396 OWASCO LAKE NEAR AUBURN, NY

201

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 mi².

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 mi². Records for Nov. 11, 27, 28, Dec. 9, 17, Jan. 6, 7, Feb. 5-8, 13-16, 26-28, Mar. 1-6, 20, Apr. 11, 12 and May 14, 15 estimated from once-daily gage readings.

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, 713.01 ft, Apr. 18; minimum, 709.57 ft, Jan. 11.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	712.66	712.18	710.74	710.01	710.23	710.22	711.92	712.93	712.75	712.35	711.88	711.59
2	712.68	712.57	710.69	709.98	710.18	710.26	711.95	712.94	712.76	712.28	711.79	711.57
3	712.68	712.80	710.66	709.93	710.11	710.26	712.02	712.94	712.85	712.28	711.84	711.55
4	712.69	712.72	710.57	709.84	710.06	710.24	712.14	712.86	712.83	712.33	711.99	711.52
5	712.69	712.50	710.58	709.75	710.01	710.22	712.22	712.77	712.88	712.32	712.04	711.48
6	712.72	712.35	710.72	709.90	709.96	710.21	712.22	712.67	712.88	712.33	712.10	711.48
7	712.75	712.17	710.84	709.91	709.88	710.39	712.16	712.57	712.86	712.29	712.11	711.51
8	712.73	712.15	710.92	709.78	709.88	710.66	712.18	712.50	712.71	712.19	712.09	711.40
9	712.67	712.09	710.96	709.78	709.90	710.88	712.12	712.51	712.61	712.16	712.08	711.42
10	712.68	712.05	710.98	709.79	709.94	710.82	712.14	712.59	712.57	712.17	712.02	711.39
11	712.67	711.98	711.00	709.80	709.94	710.78	712.26	712.60	712.58	712.12	712.02	711.41
12	712.61	711.94	711.02	709.83	709.97	710.84	712.38	712.60	712.52	712.12	711.98	711.42
13	712.54	711.85	711.03	710.02	710.03	710.90	712.52	712.64	712.52	712.12	711.94	711.39
14	712.41	711.82	710.97	710.13	710.00	710.97	712.69	712.65	712.51	712.10	711.95	711.34
15	712.29	711.70	710.92	710.28	710.03	711.03	712.81	712.68	712.50	712.09	712.01	711.29
16	712.20	711.62	710.94	710.40	710.01	711.14	712.89	712.69	712.49	712.07	712.11	711.27
17	712.12	711.55	710.90	710.43	710.02	711.25	712.93	712.70	712.51	712.09	712.08	711.29
18	712.12	711.48	710.80	710.45	710.05	711.35	712.91	712.70	712.50	712.08	712.03	711.19
19	712.11	711.41	710.78	710.41	710.07	711.44	712.89	712.71	712.44	712.00	712.06	711.19
20	712.10	711.32	710.77	710.38	710.09	711.56	712.83	712.71	712.40	712.04	712.05	711.27
21	712.10	711.30	710.75	710.46	710.14	711.65	712.80	712.71	712.39	711.98	711.98	711.15
22	712.09	711.27	710.69	710.56	710.20	711.61	712.76	712.71	712.41	711.98	711.88	711.19
23	712.13	711.20	710.61	710.58	710.23	711.61	712.70	712.67	712.36	711.99	711.89	711.14
24	712.11	711.13	710.55	710.58	710.27	711.61	712.66	712.71	712.34	711.95	711.81	711.15
25	712.07	711.06	710.50	710.57	710.22	711.66	712.71	712.69	712.32	711.98	711.77	711.20
26	712.05	710.96	710.44	710.54	710.22	711.68	712.72	712.70	712.33	711.95	711.75	711.07
27	712.04	711.00	710.38	710.50	710.18	711.72	712.76	712.69	712.42	711.98	711.70	711.06
28	712.09	711.00	710.29	710.45	710.11	711.75	712.83	712.73	712.43	712.00	711.73	710.98
29	712.08	710.86	710.22	710.38	---	711.79	712.88	712.75	712.39	711.98	711.66	711.05
30	712.01	710.81	710.14	710.30	---	711.84	712.90	712.73	712.35	711.91	711.62	711.00
31	712.01	---	709.98	710.26	---	711.88	---	712.74	---	711.92	711.66	---
MEAN	712.35	711.69	710.69	710.19	710.07	711.10	712.53	712.70	712.55	712.10	711.92	711.30
MAX	712.75	712.80	711.03	710.58	710.27	711.88	712.93	712.94	712.88	712.35	712.11	711.59
MIN	712.01	710.81	709.98	709.75	709.88	710.21	711.92	712.50	712.32	711.91	711.62	710.98

CAL YR 1994 MEAN 711.83 MAX 713.65 MIN 709.44
WTR YR 1995 MEAN 711.61 MAX 712.94 MIN 709.75

STREAMS TRIBUTARY TO LAKE ONTARIO
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 mi².

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	376	346	e400	365	393	64	47	73	64	69	69
2	67	1110	324	e390	367	302	122	97	86	61	65	68
3	65	991	e340	e380	363	398	48	253	76	63	94	67
4	64	1130	e360	e360	362	403	75	413	74	66	77	66
5	64	1060	e380	e200	e374	401	236	411	64	67	66	70
6	63	1000	362	e75	e370	407	416	408	72	77	65	68
7	76	616	369	e75	e200	414	405	407	285	67	67	67
8	68	300	389	e75	e55	424	402	192	416	66	66	67
9	68	383	416	e75	e55	625	408	70	399	65	66	84
10	67	322	422	75	e55	834	235	71	181	65	66	67
11	140	413	416	77	e55	531	70	66	62	65	67	66
12	342	386	424	87	e55	522	74	70	62	65	72	66
13	340	385	421	81	e55	592	75	70	117	64	66	69
14	339	384	418	80	e55	416	70	72	71	64	67	83
15	335	383	414	83	e55	187	69	71	43	69	93	66
16	331	362	414	234	e55	72	71	76	58	64	82	65
17	208	349	408	390	e55	74	248	70	65	66	78	66
18	78	357	407	394	62	72	414	62	66	65	75	65
19	112	358	401	397	56	71	410	69	117	67	66	64
20	89	354	401	406	58	72	395	72	81	67	65	65
21	77	357	407	415	111	270	397	72	64	66	65	64
22	75	223	406	414	69	421	393	72	49	62	66	77
23	75	361	395	414	64	379	391	156	50	65	64	65
24	75	354	378	411	174	233	210	73	67	124	65	63
25	73	353	e410	419	374	77	64	69	68	58	66	80
26	70	351	e410	400	e370	77	66	68	77	84	65	74
27	67	349	e420	414	e389	111	58	68	63	80	65	120
28	67	367	e420	401	411	123	69	72	62	59	64	49
29	66	368	e420	400	---	49	68	70	62	65	64	66
30	65	300	e420	375	---	82	130	70	65	68	68	60
31	73	---	e420	364	---	64	---	70	---	67	82	---
TOTAL	3765	14402	12338	8761	5089	9096	6153	3927	3095	2115	2166	2086
MEAN	121	480	398	283	182	293	205	127	103	68.2	69.9	69.5
MAX	342	1130	424	419	411	834	416	413	416	124	94	120
MIN	63	223	324	75	55	49	48	47	43	58	64	49

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1995, BY WATER YEAR (WY)

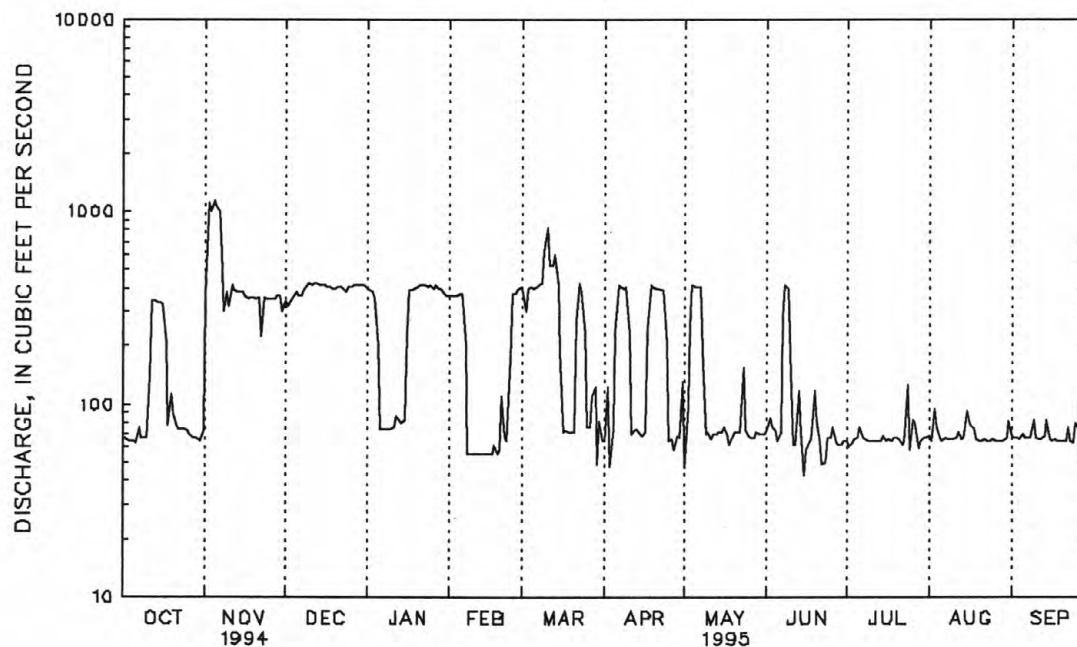
MEAN	146	214	303	311	331	536	633	356	238	162	120	121
MAX	1013	773	1054	851	810	1255	1793	892	1066	620	366	597
(WY)	1978	1982	1928	1943	1990	1945	1993	1943	1972	1972	1992	1977
MIN	17.7	14.6	13.5	14.3	49.2	75.4	194	42.4	54.2	41.9	29.6	27.0
(WY)	1954	1954	1954	1961	1989	1989	1915	1985	1991	1987	1975	1983

STREAMS TRIBUTARY TO LAKE ONTARIO
04235500 OWASCO OUTLET NEAR AUBURN, NY--Continued

203

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1913 - 1995	
ANNUAL TOTAL	129329		72993			
ANNUAL MEAN	354		200		289	
HIGHEST ANNUAL MEAN					436	
LOWEST ANNUAL MEAN					122	
HIGHEST DAILY MEAN	1810	Apr 8	1130	Nov 4	3200	Jun 24 1972
LOWEST DAILY MEAN	40	Jan 20	43	Jun 15	5.0	Nov 11 1934
ANNUAL SEVEN-DAY MINIMUM	50	Jan 17	55	Feb 8	11	Jan 29 1961
INSTANTANEOUS PEAK FLOW			1280	Nov 3	3250	Jun 23 1972
INSTANTANEOUS PEAK STAGE			3.32	Nov 3	6.28	Jun 23 1972
INSTANTANEOUS LOW FLOW			15	Sep 29	a2.0	Dec 5 1936
10 PERCENT EXCEEDS	878		413		649	
50 PERCENT EXCEEDS	300		77		198	
90 PERCENT EXCEEDS	65		64		48	

a About.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO

04236000 SKANEATELES LAKE AT SKANEATELES, NY

LOCATION.--Lat 42°56'42", long 76°25'46", Onondaga County, Hydrologic Unit 04140201, on east side of breakwater, enclosed in City of Syracuse boathouse, at Skaneateles.

DRAINAGE AREA.--72.7 mi².

PERIOD OF RECORD.--October 1967 to March 1995 (discontinued). Records since September 1890 collected by, and in files of, City of Syracuse.

GAGE.--Nonrecording gages read once daily by employees of Syracuse Water Division. Datum of gage is sea level. To convert elevations to adjustment of 1988, subtract 0.50 ft. October 1967 to September 1975, at same site at datum 801.75 ft higher.

REMARKS.--Lake elevation regulated by gates at outlet by Syracuse Water Division. Area of water surface, 13.6 mi².

COOPERATION.--Records furnished by City of Syracuse.

EXTREMES FOR PERIOD OF RECORD.--(since 1890): Maximum observed elevation, 866.95 ft, June 25, 26, 1972; minimum observed, 858.90 ft, Nov. 15, 1965.

EXTREMES FOR CURRENT PERIOD.--October 1994 to March 1995: Maximum observed elevation, 863.65 ft, Oct. 2; minimum observed, 862.97 ft, Oct. 31.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1994 TO MARCH 1995
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	863.64	863.10	863.13	863.15	863.26	863.08	---	---	---	---	---	---
2	863.65	863.35	863.15	863.13	863.26	863.12	---	---	---	---	---	---
3	863.62	863.40	863.15	863.11	863.22	863.12	---	---	---	---	---	---
4	863.60	863.40	863.13	863.10	863.22	863.13	---	---	---	---	---	---
5	863.57	863.42	863.17	863.07	863.25	863.13	---	---	---	---	---	---
6	863.54	863.44	863.20	863.07	863.25	863.17	---	---	---	---	---	---
7	863.51	863.41	863.28	863.04	863.20	863.20	---	---	---	---	---	---
8	863.49	863.38	863.32	863.04	863.19	863.25	---	---	---	---	---	---
9	863.46	863.39	863.32	863.04	863.19	863.35	---	---	---	---	---	---
10	863.44	863.38	863.30	863.02	863.17	863.40	---	---	---	---	---	---
11	863.41	863.36	863.30	863.00	863.16	863.43	---	---	---	---	---	---
12	863.38	863.34	863.30	863.05	863.16	863.45	---	---	---	---	---	---
13	863.35	863.31	863.28	863.07	863.14	863.47	---	---	---	---	---	---
14	863.32	863.28	863.28	863.07	863.11	863.47	---	---	---	---	---	---
15	863.32	863.25	863.28	863.07	863.10	863.47	---	---	---	---	---	---
16	863.30	863.25	863.28	863.07	863.07	863.50	---	---	---	---	---	---
17	863.26	863.23	863.28	863.05	863.05	863.50	---	---	---	---	---	---
18	863.22	863.21	863.28	863.05	863.02	863.48	---	---	---	---	---	---
19	863.20	863.19	863.30	863.05	863.02	863.48	---	---	---	---	---	---
20	863.23	863.19	863.30	863.05	863.00	863.48	---	---	---	---	---	---
21	863.21	863.19	863.28	863.15	862.98	863.50	---	---	---	---	---	---
22	863.18	863.30	863.26	863.17	862.98	863.50	---	---	---	---	---	---
23	863.15	863.27	863.26	863.20	862.98	863.52	---	---	---	---	---	---
24	863.13	863.24	863.26	863.29	863.04	863.50	---	---	---	---	---	---
25	863.13	863.20	863.24	863.30	863.05	863.48	---	---	---	---	---	---
26	863.10	863.16	863.24	863.32	863.05	863.47	---	---	---	---	---	---
27	863.07	863.14	863.23	863.30	863.05	863.46	---	---	---	---	---	---
28	863.05	863.14	863.21	863.29	863.07	863.43	---	---	---	---	---	---
29	863.02	863.13	863.19	863.29	---	863.41	---	---	---	---	---	---
30	862.99	863.10	863.17	863.29	---	863.41	---	---	---	---	---	---
31	862.97	---	863.15	863.29	---	863.45	---	---	---	---	---	---
MEAN	863.31	863.27	863.24	863.14	863.12	863.38	---	---	---	---	---	---
MAX	863.65	863.44	863.32	863.32	863.26	863.52	---	---	---	---	---	---
MIN	862.97	863.10	863.13	863.00	862.98	863.08	---	---	---	---	---	---

CAL YR 1994 MEAN 863.60 MAX 864.72 MIN 862.23

STREAMS TRIBUTARY TO LAKE ONTARIO

205

04237500 SENECA RIVER AT BALDWINVILLE, 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 mi².

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 mi² 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2890	1620	5210	1520	3970	4310	1360	1170	614	e500	e640	e470
2	3230	4190	5200	1970	3310	5330	1230	1060	626	e1550	e560	e470
3	2740	5650	5100	1960	e1600	5170	1710	1010	888	e950	e520	e380
4	2940	5720	4870	1470	e900	4900	1690	1000	803	e490	e840	e360
5	3310	5840	4830	1320	1800	5000	1640	1110	647	e570	e1150	e300
6	3550	5630	5020	1310	2250	5060	1560	1170	842	e590	e1250	e350
7	3800	5480	5260	1260	1830	5640	1660	1090	866	e480	e1330	e420
8	3460	5330	5470	1230	1500	6400	1830	1020	724	e580	e1030	e330
9	2640	5290	5360	1230	1450	6450	1830	e688	765	e660	e1100	e350
10	2390	5330	5140	1270	1390	6450	1900	e612	921	e940	e1000	e350
11	1830	5370	5470	1550	923	6360	1840	916	995	e610	e600	e450
12	1780	5380	5440	2490	957	6250	1800	850	570	e440	e760	e440
13	2430	5070	5320	2940	2000	6310	2020	836	417	e500	702	e430
14	2020	4920	5310	2770	1830	6390	2410	909	403	e1700	e750	e370
15	1560	5130	5180	2090	1700	6320	2540	728	e440	e1350	e1600	e370
16	1530	5140	5110	2480	1770	6280	2280	455	e480	e1000	e1200	e370
17	1510	5120	5350	3150	2150	6150	1800	343	e440	e520	e760	e320
18	1490	5170	5610	3390	2350	5950	e1000	461	e400	e400	e1200	604
19	721	5220	5650	4270	e1350	5600	e800	534	e340	e480	e1190	575
20	195	5190	5320	4290	e1300	5440	1400	492	e350	e550	e1100	e500
21	474	5220	5030	4100	1630	5190	1550	599	e350	e850	e1800	e400
22	678	5420	4870	4230	2120	5110	1440	514	e350	e1030	e1600	e450
23	650	5390	3860	4740	1860	4340	1400	432	e340	e610	e800	e500
24	640	5130	2940	4810	2150	3450	1400	502	e350	e400	e400	e450
25	618	5130	2250	4420	2320	2670	e910	580	657	e480	e400	e550
26	330	5130	e1150	4420	2280	2170	800	562	e720	e690	e380	e600
27	125	5100	e550	4470	2290	1950	712	505	e700	e810	e450	e390
28	392	5120	908	4440	2390	1610	714	486	e600	e670	e560	e380
29	448	5150	1570	4410	---	1450	678	590	e600	e500	e400	e360
30	486	5160	1510	4400	---	1420	971	496	e550	e540	e410	e350
31	538	---	1500	4220	---	1470	---	576	---	e720	e410	---
TOTAL	51395	153740	131358	92620	53370	146590	44875	22296	17748	22160	26892	12639
MEAN	1658	5125	4237	2988	1906	4729	1496	719	592	715	867	421
MAX	3800	5840	5650	4810	3970	6450	2540	1170	995	1700	1800	604
MIN	125	1620	550	1230	900	1420	678	343	340	400	380	300

e Estimated

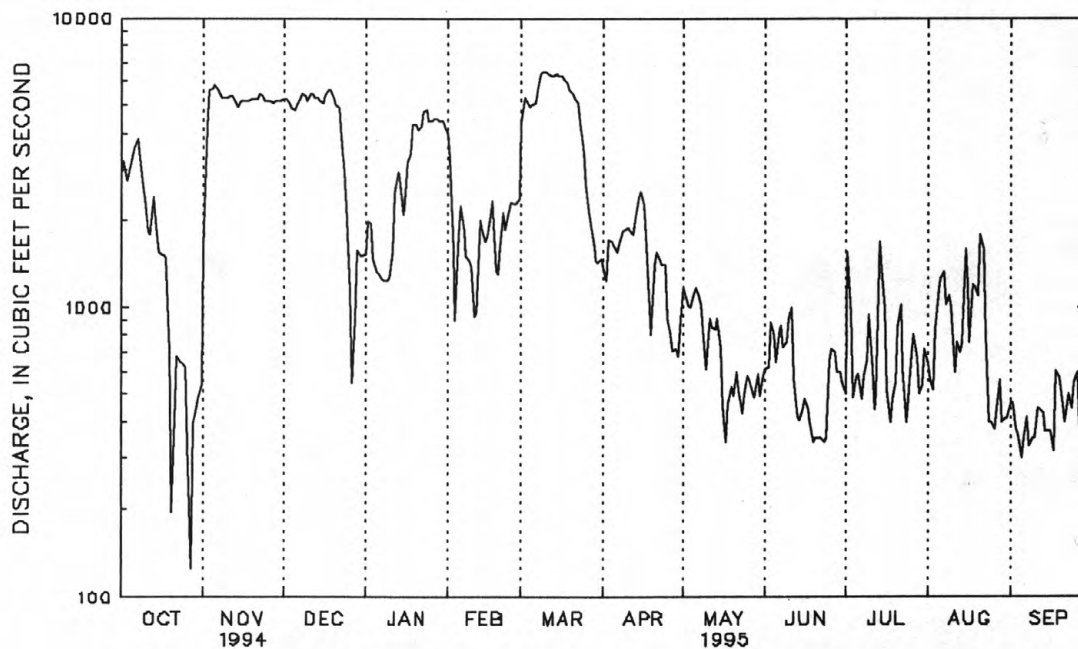
STREAMS TRIBUTARY TO LAKE ONTARIO
04237500 SENECA RIVER AT BALDWINVILLE, NY--continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

MEAN	2192	3292	4386	3907	3802	5847	6123	3935	2598	1958	1572	1478
MAX	11020	9491	10330	8807	8313	11650	15610	8882	6456	12100	6214	4760
(WY)	1978	1978	1978	1978	1976	1956	1993	1983	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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1950 - 1995	
ANNUAL TOTAL	1395739		775683			
ANNUAL MEAN	3824		2125		3418	
HIGHEST ANNUAL MEAN					5998	
LOWEST ANNUAL MEAN					1357	
HIGHEST DAILY MEAN	13200	Apr 17	6450	Mar 9	18100	Apr 27 1993
LOWEST DAILY MEAN	125	Oct 27	125	Oct 27	a34	Sep 17 1985
ANNUAL SEVEN-DAY MINIMUM	385	Aug 7	351	Sep 4	283	Sep 23 1988
10 PERCENT EXCEEDS	8830		5300		7600	
50 PERCENT EXCEEDS	2860		1350		2320	
90 PERCENT EXCEEDS	551		410		889	

a Result of extreme regulation.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO

207

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 mi² (0.70 mi² 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.--Electronic data logger with pressure transducer in flume stilling well.

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

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	.57	3.0	.90	.94	.83	e.84	.51	.79	.52	.41	.32	.37
2	.54	5.3	.82	.85	.78	e.72	.49	.81	.86	.35	.33	.27
3	.57	1.8	.80	.83	e.72	e.74	.62	.74	.66	.27	.45	.27
4	.57	1.3	.79	.76	e.68	.79	1.4	.74	.53	.23	.36	.28
5	.59	1.1	1.6	.72	e.64	.82	1.1	.76	.52	.22	1.0	.36
6	.57	1.0	1.1	.77	e.60	1.2	.99	.79	.46	.20	.55	.37
7	.55	.90	1.4	.79	e.58	1.4	1.2	.85	.41	.20	.48	.34
8	.52	.86	1.1	.80	e.62	1.7	1.3	.78	.42	.22	.49	.30
9	.57	.86	1.0	.76	e.58	1.7	1.3	.79	.43	.23	.48	.69
10	.53	.78	1.2	.80	e.56	1.5	1.2	.84	.49	.25	.50	.47
11	.51	.82	1.5	.84	e.54	1.4	1.2	.87	.47	.21	.53	.36
12	.51	.79	1.2	e1.3	.51	1.5	1.3	.80	.54	.19	.84	.34
13	.50	.81	1.1	e1.4	.50	1.3	1.6	.75	.49	.17	.65	.46
14	.48	.81	.99	1.3	.49	1.2	1.4	.75	.43	.16	.61	.49
15	.48	.79	.97	1.4	.53	1.1	1.2	.72	.40	.26	.62	.33
16	.43	.80	.89	1.9	.46	1.1	1.1	.69	.42	.24	.60	.29
17	.42	.80	.99	1.3	.42	.97	1.1	.70	.43	.42	.45	.34
18	.43	.81	.91	1.2	.42	.86	1.0	.67	.40	.24	.44	.27
19	.44	.80	.87	1.1	.49	.78	1.0	.68	.36	.24	.45	.27
20	.51	.77	.83	1.3	.65	.73	.92	.65	.34	.26	.38	.31
21	.43	1.1	.79	2.2	.76	.80	1.0	.63	.31	.27	.37	.35
22	.40	.88	.82	1.7	.65	.73	1.1	.63	.30	.25	.39	.62
23	.40	.84	.89	1.4	.81	.66	.97	.62	.30	.27	.40	.42
24	.40	.82	.87	1.4	1.1	.57	.90	.66	.26	.28	.42	.37
25	.40	.83	.86	1.2	.75	.56	.85	.63	.28	.23	.48	.27
26	.38	.77	.78	1.1	.65	.54	.83	.60	.30	.52	.58	.26
27	.38	.80	.77	1.1	.86	.53	.88	.57	.24	.45	.44	.23
28	.37	1.3	.84	1.0	e1.2	.52	1.2	.68	.25	.43	.34	.21
29	.34	1.0	.77	.90	---	.51	.81	.64	.25	.38	.29	.23
30	.35	.96	.77	.85	---	.59	.79	.60	.32	.35	.27	.24
31	.76	---	.82	.85	---	.56	---	.54	---	.34	.47	---
TOTAL	14.90	34.20	29.94	34.76	18.38	28.92	31.26	21.97	12.39	8.74	14.98	10.38
MEAN	.48	1.14	.97	1.12	.66	.93	1.04	.71	.41	.28	.48	.35
MAX	.76	5.3	1.6	2.2	1.2	1.7	1.6	.87	.86	.52	1.0	.69
MIN	.34	.77	.77	.72	.42	.51	.49	.54	.24	.16	.27	.21
CFSM	1.50	3.56	3.02	3.50	2.05	2.92	3.26	2.21	1.29	.88	1.51	1.08
IN.	1.73	3.98	3.48	4.04	2.14	3.36	3.63	2.55	1.44	1.02	1.74	1.21

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1995, BY WATER YEAR (WY)

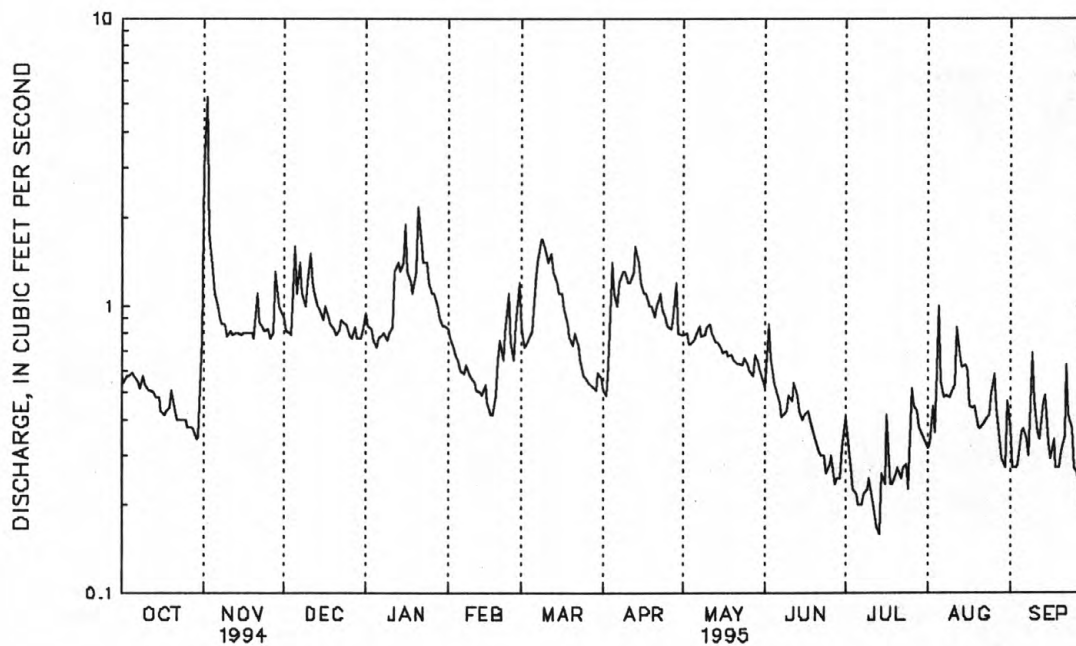
	1992	1993	1994	1995
MEAN	.48	.84	1.15	1.47
MAX	.78	1.14	1.90	2.82
(WY)	1993	1994	1995	1996
MIN	.29	.51	.76	.67
(WY)	1992	1993	1994	1995

04237946 ONONDAGA CREEK TRIBUTARY NO. 6 BELOW MAIN MUDBOIL DEPRESSION AREA AT TULLY, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1992 - 1995	
ANNUAL TOTAL	411.03		260.82			
ANNUAL MEAN	1.13		.71		1.24	
HIGHEST ANNUAL MEAN					2.20	
LOWEST ANNUAL MEAN					.71	
HIGHEST DAILY MEAN	13	Mar 24	5.3	Nov 2	23	Mar 27 1992
LOWEST DAILY MEAN	.20	Aug 12	.16	Jul 14	.15	Jul 29 1993
ANNUAL SEVEN-DAY MINIMUM	.28	Aug 11	.20	Jul 8	.20	Jul 8 1995
INSTANTANEOUS PEAK FLOW			9.5	Nov 2	45	Mar 27 1992
INSTANTANEOUS PEAK STAGE			1.60	Nov 2	2.08	Mar 27 1992
INSTANTANEOUS LOW FLOW			.10	Jul 13	a.00	b
ANNUAL RUNOFF (CFSM)	3.52		2.23		3.89	
ANNUAL RUNOFF (INCHES)	47.78		30.32		52.79	
10 PERCENT EXCEEDS	2.1		1.2		2.7	
50 PERCENT EXCEEDS	.79		.65		.81	
90 PERCENT EXCEEDS	.44		.28		.34	

a Result of dam construction.

b Jul. 29, 1993, Jun. 20, 1994.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO

209

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: 1992-95 (b).

SEDIMENT DATA: 1992-95 (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 5,050 mg/L, Sept. 28; minimum daily mean 22 mg/L, Nov. 2.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily mean 4.8 tons, Sept.22; minimum daily mean 0.42 tons, Oct.29.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE FIELD (STAND- ARD UNITS)	TEMPER- ATURE WATER (DEG C)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)
NOV 16...	0800	0.79	5040	7.8	6.5	760	12.7	105	410	94	43	570
MAR 01...	0745	e0.84	3440	7.9	3.0	--	--	--	490	120	47	530
MAY 18...	0800	0.67	4400	7.9	11.5	--	--	--	640	140	71	970
AUG 17...	0800	0.46	10100	7.9	15.5	749	9.1	96	1000	210	120	1700
DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	BROMIDE DIS- SOLVED (MG/L AS BR)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV 16...	2.1	1500	170	196	239	9.0	3110	50	120	0.51	773	1.6
MAR 01...	3.8	920	100	194	237	7.2	1940	20	130	1.3	155	0.88
MAY 18...	3.4	1800	190	174	212	9.6	3430	<10	110	2.5	1960	3.5
AUG 17...	5.1	3000	330	130	159	11	6100	<10	200	4.1	1130	1.4

STREAMS TRIBUTARY TO LAKE ONTARIO

04237946 ONONDAGA CREEK TRIBUTARY NO. 6 BELOW MAIN MUDBOIL DEPRESSION AREA AT TULLY, NY--Continued

SEDIMENT, SUSPENDED CONCENTRATION (MG/L), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	299	162	355	425	552	657	1020	1000	1500	2050	2830	3210
2	309	123	374	449	572	713	1050	998	1180	2230	2800	3770
3	303	211	381	457	599	708	944	1050	1360	2550	2420	3800
4	305	249	386	481	620	690	637	1060	1520	2780	2720	3760
5	302	272	275	497	643	682	721	1050	1540	2860	1660	3340
6	309	287	332	484	668	570	765	1040	1650	3010	2240	3320
7	317	304	297	481	684	531	700	1010	1760	3030	2410	3480
8	328	313	337	481	666	486	677	1060	1750	2910	2400	3720
9	315	315	355	496	693	489	682	1060	1740	2870	2440	2490
10	329	332	327	487	709	524	714	1030	1640	2770	2410	3030
11	337	326	295	479	726	545	718	1020	1690	3040	2350	3470
12	339	335	331	389	752	531	695	1070	1580	3210	1890	3590
13	345	333	348	377	765	573	632	1110	1670	3410	2160	3120
14	354	335	368	394	777	600	679	1120	1800	3540	2240	3040
15	357	341	375	382	753	630	737	1150	1870	2810	2240	3720
16	379	341	393	331	811	634	774	1180	1840	2940	2290	3990
17	386	344	376	402	855	679	779	1180	1830	2250	2650	3710
18	383	344	394	420	860	725	822	1210	1910	2980	2700	4180
19	382	348	406	442	803	765	827	1210	2020	2990	2680	4210
20	357	356	418	409	703	796	867	1250	2090	2900	2940	3960
21	391	302	431	318	655	766	838	1280	2210	2860	2990	3750
22	408	339	426	364	712	806	805	1280	2260	2990	2940	2850
23	411	349	412	403	643	852	862	1300	2270	2900	2920	3480
24	413	355	419	405	577	922	900	1270	2450	2870	2870	3720
25	416	355	424	440	677	936	931	1310	2380	3180	2700	4370
26	429	371	448	462	731	959	948	1350	2320	2140	2480	4490
27	432	367	454	465	641	974	927	1390	2600	2320	2860	4790
28	441	291	437	490	548	989	802	1280	2560	2380	3260	5050
29	462	333	459	520	---	1000	979	1330	2580	2550	3550	4860
30	459	342	462	538	---	942	997	1380	2300	2670	3700	4790
31	316	---	451	542	---	973	---	1470	---	2730	2840	---
MEAN	365	312	385	442	693	731	814	1180	1930	2800	2630	3770
MAX	462	371	462	542	860	1000	1050	1470	2600	3540	3700	5050
MIN	299	123	275	318	548	486	632	998	1180	2050	1660	2490

STREAMS TRIBUTARY TO LAKE ONTARIO

211

04237946 ONONDAGA CREEK TRIBUTARY NO. 6 BELOW MAIN MUDBOIL DEPRESSION AREA AT TULLY, NY--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.46	1.3	.86	1.1	1.2	1.5	1.4	2.1	2.1	2.3	2.4	3.2
2	.45	1.8	.83	1.0	1.2	1.4	1.4	2.2	2.7	2.1	2.5	2.8
3	.47	1.0	.82	1.0	1.2	1.4	1.6	2.1	2.4	1.9	2.9	2.8
4	.47	.87	.82	.99	1.1	1.5	2.4	2.1	2.2	1.7	2.6	2.8
5	.48	.81	1.2	.97	1.1	1.5	2.1	2.2	2.2	1.7	4.5	3.2
6	.48	.77	.99	1.0	1.1	1.8	2.0	2.2	2.0	1.6	3.3	3.3
7	.47	.74	1.1	1.0	1.1	2.0	2.3	2.3	1.9	1.6	3.1	3.2
8	.46	.73	1.0	1.0	1.1	2.2	2.4	2.2	2.0	1.7	3.2	3.0
9	.49	.73	.96	1.0	1.1	2.2	2.4	2.3	2.0	1.8	3.2	4.6
10	.47	.70	1.1	1.1	1.1	2.1	2.3	2.3	2.2	1.9	3.2	3.8
11	.46	.72	1.2	1.1	1.1	2.1	2.3	2.4	2.1	1.7	3.4	3.4
12	.47	.71	1.1	1.4	1.0	2.1	2.4	2.3	2.3	1.6	4.3	3.3
13	.47	.73	1.0	1.4	1.0	2.0	2.7	2.3	2.2	1.6	3.8	3.9
14	.46	.73	.98	1.4	1.0	1.9	2.6	2.3	2.1	1.5	3.7	4.0
15	.46	.73	.98	1.4	1.1	1.9	2.4	2.2	2.0	2.0	3.7	3.3
16	.44	.74	.95	1.7	1.0	1.9	2.3	2.2	2.1	1.9	3.7	3.1
17	.44	.74	1.0	1.4	.97	1.8	2.3	2.2	2.1	2.5	3.2	3.4
18	.45	.75	.97	1.4	.98	1.7	2.2	2.2	2.1	1.9	3.2	3.0
19	.45	.75	.95	1.3	1.1	1.6	2.2	2.2	2.0	1.9	3.3	3.1
20	.49	.74	.94	1.4	1.2	1.6	2.2	2.2	1.9	2.0	3.0	3.3
21	.45	.90	.92	1.9	1.3	1.7	2.3	2.2	1.8	2.1	3.0	3.5
22	.44	.80	.94	1.7	1.3	1.6	2.4	2.2	1.8	2.0	3.1	4.8
23	.44	.79	.99	1.5	1.4	1.5	2.3	2.2	1.8	2.1	3.2	3.9
24	.45	.79	.98	1.5	1.7	1.4	2.2	2.3	1.7	2.2	3.3	3.7
25	.45	.80	.98	1.4	1.4	1.4	2.1	2.2	1.8	2.0	3.5	3.2
26	.44	.77	.94	1.4	1.3	1.4	2.1	2.2	1.9	3.0	3.9	3.1
27	.44	.79	.94	1.4	1.5	1.4	2.2	2.1	1.7	2.8	3.4	3.0
28	.44	1.0	.99	1.3	1.8	1.4	2.6	2.4	1.7	2.8	3.0	2.9
29	.42	.90	.96	1.3	---	1.4	2.1	2.3	1.7	2.6	2.8	3.0
30	.43	.89	.96	1.2	---	1.5	2.1	2.2	2.0	2.5	2.7	3.1
31	.65	---	1.0	1.2	---	1.5	---	2.1	---	2.5	3.6	---
TOTAL	14.34	25.22	30.35	39.86	33.45	52.4	66.3	68.9	60.5	63.5	101.7	100.7
MEAN	.46	.84	.98	1.3	1.2	1.7	2.2	2.2	2.0	2.0	3.3	3.4
MAX	.65	1.8	1.2	1.9	1.8	2.2	2.7	2.4	2.7	3.0	4.5	4.8
MIN	.42	.70	.82	.97	.97	1.4	1.4	2.1	1.7	1.5	2.4	2.8

STREAMS TRIBUTARY TO LAKE ONTARIO

04237946 ONONDAGA CREEK TRIBUTARY NO. 6 BELOW MAIN MUDBOIL DEPRESSION AREA AT TULLY, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEARS OCTOBER 1994 TO SEPTEMBER 1995
WATER-QUALITY DATA

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV						
01	1730	2.9	194	1.5	--	99
JAN						
12...	1730	e1.3	558	2.0	--	100
29...	1830	0.90	1000	2.4	84	100
JUL						
06...	1800	0.21	2590	1.5	--	100
SEP						
03...	1900	0.26	3710	2.6	--	99

STREAMS TRIBUTARY TO LAKE ONTARIO
04238500 ONONDAGA RESERVOIR NEAR NEDROW, NY

213

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 mi².

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, 466.52 ft, Mar. 9, contents, 181 acre-ft; minimum elevation, 459.12 ft, Aug. 3-4, 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	460.16	461.34	460.62	460.26	460.88	463.62	461.36	460.93	459.88	459.33	459.14	459.26
2	460.11	464.76	460.51	460.26	460.86	463.15	461.12	460.83	459.85	459.32	459.13	459.26
3	460.06	465.52	460.42	460.22	460.89	462.43	460.97	460.74	460.39	459.30	459.13	459.25
4	460.01	462.92	460.34	460.17	461.06	462.25	462.19	460.65	460.34	459.29	459.13	459.24
5	459.96	461.62	460.68	460.24	460.76	462.11	462.89	460.58	460.16	459.28	459.46	459.23
6	459.93	461.22	462.80	460.23	460.61	462.52	462.36	460.53	460.04	459.26	460.23	459.22
7	459.89	461.02	462.72	460.16	460.51	463.75	462.26	460.46	459.97	459.25	460.01	459.22
8	459.86	460.82	462.37	460.11	460.47	465.59	462.65	460.39	459.92	459.24	459.86	459.21
9	459.84	460.69	461.68	460.07	460.42	466.34	462.62	460.34	459.88	459.23	459.79	459.20
10	459.82	460.63	461.79	460.04	460.38	465.54	462.90	460.34	459.84	459.22	459.74	459.22
11	459.80	460.53	462.25	460.02	460.35	464.49	462.96	460.38	459.82	459.20	459.69	459.22
12	459.79	460.43	461.95	460.16	460.29	464.13	462.81	460.46	459.79	459.19	459.66	459.21
13	459.77	460.36	461.73	462.33	460.23	464.38	463.61	460.46	459.77	459.18	459.64	459.21
14	459.76	460.30	461.10	462.28	460.19	464.34	463.75	460.39	459.74	459.16	459.62	459.21
15	459.74	460.24	460.84	461.85	460.13	464.04	463.21	460.33	459.71	459.16	459.59	459.21
16	459.73	460.19	460.78	462.68	460.12	463.78	462.71	460.28	459.68	459.16	459.57	459.21
17	459.71	460.15	460.75	462.35	460.11	463.57	462.29	460.22	459.66	459.15	459.55	459.21
18	459.71	460.11	461.19	461.72	460.09	463.40	461.96	460.18	459.63	459.16	459.53	459.20
19	459.70	460.07	461.26	461.33	460.11	463.17	461.82	460.15	459.61	459.16	459.51	459.19
20	459.70	460.04	461.04	461.29	460.20	462.97	461.62	460.12	459.58	459.16	459.48	459.19
21	459.74	460.04	460.86	463.17	460.51	462.87	461.44	460.08	459.55	459.15	459.46	459.19
22	459.76	460.19	460.75	463.35	460.69	462.92	461.69	460.04	459.52	459.15	459.43	459.19
23	459.77	460.22	460.68	462.56	460.72	462.81	461.64	459.99	459.49	459.15	459.41	459.19
24	459.78	460.16	460.62	462.16	461.79	462.55	461.35	459.96	459.47	459.14	459.39	459.19
25	459.79	460.12	460.57	461.91	461.63	462.21	461.12	459.95	459.44	459.14	459.37	459.19
26	459.80	460.09	460.52	461.65	461.55	461.95	461.00	459.94	459.42	459.14	459.35	459.19
27	459.81	460.05	460.45	461.41	461.25	461.72	460.93	459.93	459.40	459.15	459.33	459.19
28	459.82	460.12	460.40	461.23	462.50	461.52	461.62	459.90	459.38	459.16	459.31	459.19
29	459.83	460.97	460.36	461.42	---	461.32	461.66	459.91	459.36	459.16	459.30	459.18
30	459.84	460.79	460.32	460.97	---	461.31	461.14	459.91	459.35	459.16	459.28	459.18
31	459.84	---	460.31	460.86	---	461.45	---	459.90	---	459.15	459.26	---
MEAN	459.83	460.86	461.05	461.24	460.69	463.17	462.05	460.27	459.72	459.20	459.50	459.21
MAX	460.16	465.52	462.80	463.35	462.50	466.34	463.75	460.93	460.39	459.33	460.23	459.26
MIN	459.70	460.04	460.31	460.02	460.09	461.31	460.93	459.90	459.35	459.14	459.13	459.18
†	0	3.45	1.35	4.35	39.8	9.30	5.00	0	0	0	0	0
††	-0.02	+0.06	-0.03	+0.05	+0.64	-0.50	-0.07	-0.08	0	0	0	0

CAL YR 1994 MEAN 461.87 MAX 475.02 MIN 459.42
WTR YR 1995 MEAN 460.57 MAX 466.34 MIN 459.13

† Contents, in acre-ft, at end of month.
†† Change in contents, equivalent in cubic feet per second

STREAMS TRIBUTARY TO LAKE ONTARIO

04239000 ONONDAGA CREEK AT DORWIN AVENUE, SYRACUSE, NY

LOCATION.--Lat 42°59'00", long 76°09'04", Onondaga County, Hydrologic Unit 04140201, on left bank 550 ft upstream from bridge on Dorwin Avenue, at Syracuse, and 4.0 mi downstream from Onondaga Reservoir.

DRAINAGE AREA.--88.5 mi².

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). Discharge includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin. 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	45	213	72	76	100	e220	94	85	40	24	18	29
2	51	542	67	79	95	e140	84	80	42	27	17	21
3	43	392	64	64	e80	e110	81	76	86	25	19	18
4	40	163	62	e60	e85	e100	195	71	47	24	37	17
5	40	123	164	e50	79	e105	151	70	40	23	96	16
6	40	111	241	e60	e80	192	125	68	36	22	77	18
7	37	104	221	e58	e90	362	131	64	35	21	37	17
8	35	90	179	e56	e85	521	147	61	34	21	27	16
9	34	86	143	e56	e80	420	144	60	34	23	22	30
10	40	83	158	e54	e76	e260	159	66	33	23	19	28
11	37	73	194	e50	e74	233	155	70	33	21	19	21
12	34	69	147	e90	e70	263	146	73	33	20	29	18
13	34	67	e110	224	e75	300	251	66	34	19	31	17
14	33	64	e105	167	e70	243	195	60	31	18	23	23
15	33	62	108	150	e72	202	157	59	30	24	22	22
16	32	60	104	212	75	183	136	56	28	24	24	18
17	31	58	110	163	e65	177	123	53	28	27	22	17
18	32	56	134	132	e64	165	115	53	27	36	20	17
19	32	55	129	117	70	150	112	52	26	26	18	16
20	36	53	112	129	e82	137	105	51	25	23	17	16
21	42	65	103	264	103	141	101	48	24	23	16	16
22	38	87	99	223	85	146	110	46	23	23	16	19
23	35	67	95	167	84	138	107	45	23	23	16	26
24	34	59	93	150	144	123	96	45	24	24	16	20
25	33	60	89	138	100	111	89	50	25	25	16	18
26	33	61	81	126	e90	106	85	47	24	34	15	18
27	33	53	76	117	e100	100	82	43	27	35	16	17
28	33	88	78	e90	250	96	133	41	25	29	16	16
29	32	114	77	e85	---	91	104	52	25	25	15	16
30	31	81	e60	e95	---	96	89	47	24	22	15	15
31	35	---	e64	101	---	98	---	44	---	20	17	---
TOTAL	1118	3259	3539	3603	2523	5729	3802	1802	966	754	768	576
MEAN	36.1	109	114	116	90.1	185	127	58.1	32.2	24.3	24.8	19.2
MAX	51	542	241	264	250	521	251	85	86	36	96	30
MIN	31	53	60	50	64	91	81	41	23	18	15	15

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1995, BY WATER YEAR (WY)

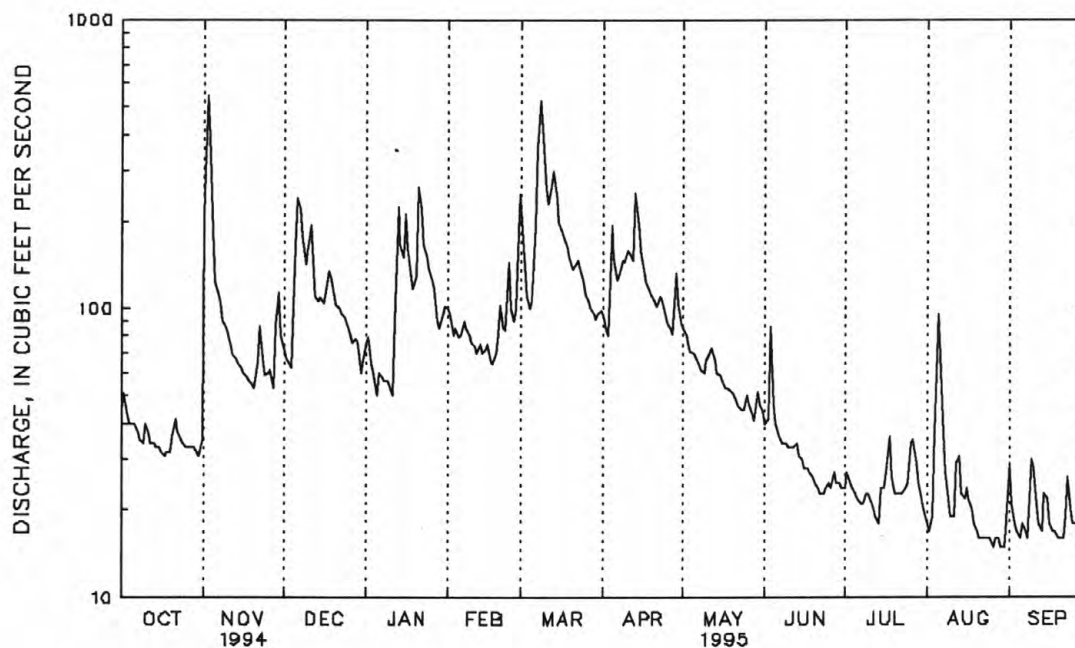
MEAN	65.7	105	141	131	163	263	268	138	93.3	58.7	41.4	44.8
MAX	328	312	365	309	390	535	758	301	563	166	125	216
(WY)	1978	1969	1973	1979	1990	1979	1993	1990	1972	1992	1992	1975
MIN	15.3	19.3	31.7	33.7	40.8	93.3	112	58.1	32.2	19.5	10.7	13.2
(WY)	1965	1965	1961	1961	1963	1983	1981	1995	1995	1962	1965	1964

STREAMS TRIBUTARY TO LAKE ONTARIO
04239000 ONONDAGA CREEK AT DORWIN AVENUE, SYRACUSE, NY--Continued

215

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1951 - 1995	
ANNUAL TOTAL	50480		28439		126	
ANNUAL MEAN	138		77.9		198	
HIGHEST ANNUAL MEAN					58.8	
LOWEST ANNUAL MEAN					1710	
HIGHEST DAILY MEAN	943	Mar 25	542	Nov 2	5.5	Mar 31 1960
LOWEST DAILY MEAN	29	Sep 22	15	a	7.4	Aug 17 1965
ANNUAL SEVEN-DAY MINIMUM	32	Sep 16	16	Aug 24	3260	Aug 11 1965
INSTANTANEOUS PEAK FLOW			584	Nov 2	6.48	Jul 3 1974
INSTANTANEOUS PEAK STAGE			3.38	Nov 2	257	Jul 3 1974
10 PERCENT EXCEEDS	334		157		80	
50 PERCENT EXCEEDS	73		60		25	
90 PERCENT EXCEEDS	36		19			

a Aug. 26, 29, 30, Sep. 30.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

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.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1958-70. September 1970 to current year.

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). Discharge includes minor diversion from Gate House Pond in headwaters of West Branch Troughnioga River basin. 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.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	283	91	99	131	279	122	115	54	44	31	42
2	68	570	86	102	127	e180	112	111	83	43	30	36
3	60	407	82	87	98	e140	119	107	108	42	45	33
4	57	187	79	79	111	e130	212	101	70	41	53	31
5	56	146	233	62	105	e140	183	99	57	41	138	29
6	56	135	268	73	94	230	153	95	51	40	94	31
7	53	127	251	e70	102	412	153	90	50	39	52	32
8	50	112	209	e68	105	565	173	87	48	38	40	29
9	50	107	171	e68	e100	465	170	85	48	39	36	98
10	54	102	183	e65	e98	292	182	94	47	39	34	44
11	52	90	219	e62	e95	270	179	96	46	37	35	36
12	49	86	174	123	86	300	179	95	46	37	48	33
13	48	84	128	249	91	342	266	86	47	38	46	38
14	47	81	133	196	90	285	220	80	45	47	38	48
15	47	78	133	184	83	248	182	78	44	36	176	36
16	46	75	131	239	93	227	159	75	44	37	44	32
17	45	73	135	194	e85	221	146	71	45	52	38	31
18	45	72	159	160	88	208	139	71	44	45	36	30
19	46	71	154	145	95	188	135	69	44	38	34	30
20	52	72	138	156	108	176	131	68	42	35	32	29
21	57	96	129	289	131	180	128	67	41	34	30	30
22	53	104	124	253	113	183	136	63	40	34	30	46
23	50	85	121	199	113	174	133	60	40	41	30	40
24	49	76	118	180	170	159	125	61	40	35	30	35
25	48	77	114	168	129	146	113	63	40	36	30	33
26	48	79	106	157	107	140	110	60	41	51	30	32
27	48	70	100	148	e120	134	113	57	44	46	30	32
28	49	107	103	117	285	127	167	58	44	40	31	31
29	48	132	103	106	---	121	137	64	43	36	29	30
30	47	100	74	119	---	125	121	60	42	34	29	29
31	79	---	84	128	---	126	---	56	---	33	88	---
TOTAL	1622	3884	4333	4345	3153	6913	4598	2442	1478	1228	1467	1086
MEAN	52.3	129	140	140	113	223	153	78.8	49.3	39.6	47.3	36.2
MAX	79	570	268	289	285	565	266	115	108	52	176	98
MIN	45	70	74	62	83	121	110	56	40	33	29	29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1995, BY WATER YEAR (WY)

MEAN	119	161	204	178	212	330	366	201	147	105	80.3	90.0
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

STREAMS TRIBUTARY TO LAKE ONTARIO
04240010 ONONDAGA CREEK AT SPENCER STREET, SYRACUSE, NY--Continued

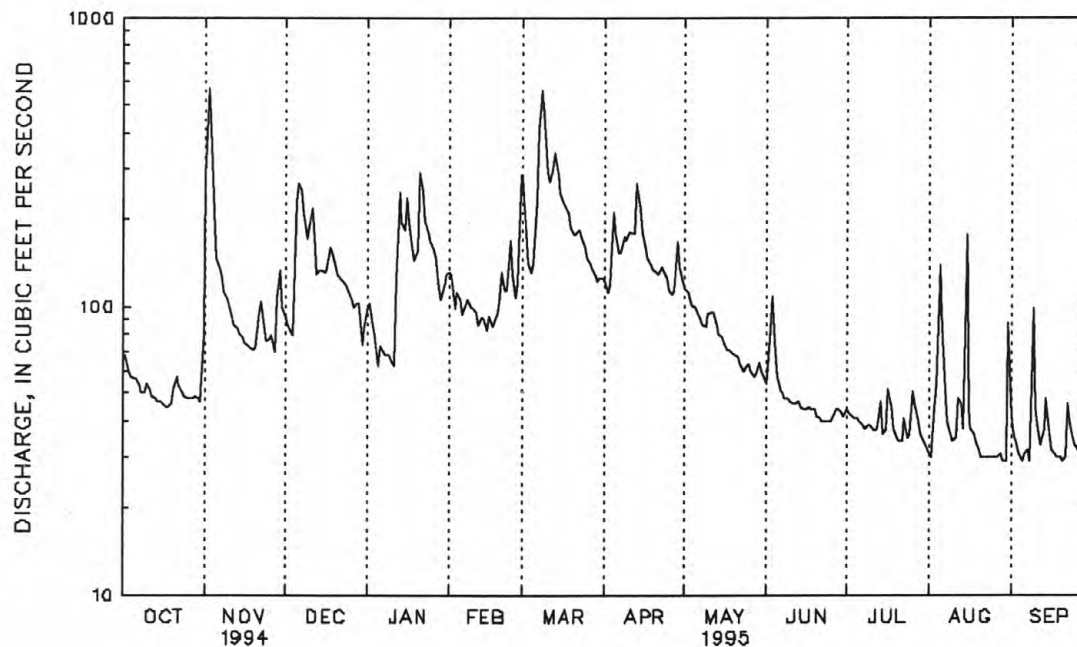
217

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1970 - 1995	
ANNUAL TOTAL	65139		36549		182	
ANNUAL MEAN	178		100		273	
HIGHEST ANNUAL MEAN					100	
LOWEST ANNUAL MEAN					2040	
HIGHEST DAILY MEAN	1150	a	570	Nov 2	2040	Mar 5 1979
LOWEST DAILY MEAN	45	Oct 17	29	b	23	Sep 26 1985
ANNUAL SEVEN-DAY MINIMUM	46	Oct 13	30	Aug 24	27	Aug 26 1981
INSTANTANEOUS PEAK FLOW			2060	Aug 15	c4050	Jul 3 1974
INSTANTANEOUS PEAK STAGE			7.30	Aug 15	8.73	Jul 3 1974
INSTANTANEOUS LOW FLOW			27	Aug 31	20	Sep 26 1985
10 PERCENT EXCEEDS	386		183		361	
50 PERCENT EXCEEDS	105		79		127	
90 PERCENT EXCEEDS	54		34		51	

a Mar. 24, 25.

b Aug. 29, 30, Sep. 5, 8, 20, 30.

c From rating curve extended above 1,600 ft³/s on basis of runoff comparisons with nearby stations.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
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 Velasco Road Detention Basin, and 2.6 mi upstream from mouth.

DRAINAGE AREA.--10.0 mi².

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	13	3.7	4.5	4.6	7.8	5.1	4.3	3.7	e3.2	e2.3	e2.8
2	4.0	25	3.6	4.3	4.6	5.0	5.0	4.3	5.7	e3.0	e2.3	e2.4
3	3.9	6.1	3.6	3.9	4.2	5.0	6.4	4.3	3.8	e3.0	e4.5	e2.2
4	3.7	4.2	3.6	3.8	4.4	4.8	8.5	4.3	3.6	e3.1	e3.5	e2.2
5	3.6	3.9	21	3.7	4.1	5.2	6.1	4.3	3.7	e3.0	e11	e2.2
6	3.6	3.6	11	3.8	4.2	18	5.7	4.4	3.8	e3.2	e2.8	e2.4
7	3.5	3.7	12	3.8	4.2	45	6.1	4.5	3.8	e3.1	e2.8	e3.0
8	3.4	3.6	8.0	3.7	3.9	33	6.3	4.6	3.9	e3.1	3.1	3.0
9	3.4	3.6	7.3	3.7	3.8	16	7.1	4.7	3.8	e3.1	3.2	12
10	3.6	3.5	9.0	3.7	3.9	11	7.0	5.4	3.6	3.0	3.4	3.1
11	3.6	3.5	10	3.7	3.7	12	6.5	5.1	3.6	3.1	e3.2	e2.8
12	3.4	3.5	6.1	13	4.0	16	8.2	4.4	3.8	3.2	4.7	2.8
13	3.2	3.5	5.3	12	3.8	14	12	4.2	3.8	4.3	e2.2	3.3
14	3.2	3.6	5.2	6.3	3.7	10	7.1	4.3	3.6	3.9	e2.2	5.2
15	3.3	3.4	5.1	5.7	3.8	9.3	5.9	4.4	3.6	3.0	e11	e2.8
16	3.2	3.5	5.0	5.9	3.9	8.7	5.3	4.4	3.5	2.5	e3.5	3.1
17	3.2	4.0	6.4	5.1	3.8	8.2	5.2	4.6	3.6	4.8	e2.4	3.0
18	2.9	4.4	7.6	4.4	3.8	7.5	5.1	4.8	e3.4	2.7	e2.3	e3.0
19	3.0	3.5	6.2	4.0	3.8	7.1	5.1	4.5	e3.2	2.6	e2.3	e3.0
20	3.5	3.5	5.2	5.1	3.8	6.8	5.0	4.5	e3.2	2.7	e2.2	3.2
21	3.1	5.9	5.0	7.9	4.1	7.3	4.9	4.2	e3.3	2.9	e2.3	3.3
22	3.1	3.7	5.0	6.2	3.7	6.9	4.8	4.2	e3.2	2.9	e2.2	5.8
23	3.1	3.9	4.9	4.6	4.2	6.3	4.7	4.1	e3.2	3.9	e2.3	e2.8
24	3.1	3.6	4.8	4.8	4.4	5.9	4.6	4.4	e3.1	2.9	e2.3	e2.6
25	3.0	3.7	4.7	4.8	4.2	5.8	4.5	4.0	e3.1	2.8	e2.4	e2.8
26	2.9	3.5	4.7	4.6	4.0	5.7	4.3	3.9	e3.4	4.0	e2.7	e3.4
27	2.8	3.4	4.5	5.2	5.6	5.5	4.6	3.9	e3.2	e3.0	e2.5	e3.4
28	2.8	5.6	4.4	5.1	13	5.4	6.2	4.7	e3.1	e2.6	e2.5	e3.2
29	2.7	4.0	4.2	4.9	---	5.4	4.5	3.8	e3.1	e2.4	e2.5	e3.4
30	2.8	3.8	4.1	4.8	---	5.4	4.3	3.6	e3.0	e2.3	e2.5	e3.2
31	5.6	---	4.2	4.6	---	5.2	---	3.6	---	e2.3	e10	---
TOTAL	104.5	147.7	195.4	161.6	123.2	315.2	176.1	134.7	106.4	95.6	109.1	101.4
MEAN	3.37	4.92	6.30	5.21	4.40	10.2	5.87	4.35	3.55	3.08	3.52	3.38
MAX	5.6	25	21	13	13	45	12	5.4	5.7	4.8	11	12
MIN	2.7	3.4	3.6	3.7	3.7	4.8	4.3	3.6	3.0	2.3	2.2	2.2
CFSM	.34	.49	.63	.52	.44	1.02	.59	.43	.35	.31	.35	.34
IN.	.39	.55	.73	.60	.46	1.17	.66	.50	.40	.36	.41	.38

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1995, BY WATER YEAR (WY)

	5.76	6.63	8.23	7.95	10.3	17.4	18.0	9.63	7.16	5.93	4.78	5.01
MEAN	5.76	6.63	8.23	7.95	10.3	17.4	18.0	9.63	7.16	5.93	4.78	5.01
MAX	21.7	21.6	26.0	16.2	33.5	39.6	59.4	22.6	32.2	13.5	11.4	20.7
(WY)	1978	1969	1978	1969	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

STREAMS TRIBUTARY TO LAKE ONTARIO
04240100 HARBOR BROOK AT SYRACUSE, NY--Continued

219

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1959 - 1995	
ANNUAL TOTAL	3502.4		1770.9		8.90	
ANNUAL MEAN	9.60		4.85		15.7	
HIGHEST ANNUAL MEAN					4.53	
LOWEST ANNUAL MEAN					248	
HIGHEST DAILY MEAN	99	Mar 24	45	Mar 7		Mar 30 1960
LOWEST DAILY MEAN	2.7	Oct 29	2.2	a	.51	Jun 15 1984
ANNUAL SEVEN-DAY MINIMUM	2.9	Oct 24	2.3	Aug 18	1.6	Nov 10 1988
INSTANTANEOUS PEAK FLOW			94	Aug 15	b726	Jul 3 1974
INSTANTANEOUS PEAK STAGE			2.95	Aug 15	c8.34	Jul 3 1974
INSTANTANEOUS LOW FLOW			d.13	f	d.11	Aug 8 1980
ANNUAL RUNOFF (CFSM)	.96		.49		.89	
ANNUAL RUNOFF (INCHES)	13.03		6.59		12.09	
10 PERCENT EXCEEDS	21		7.2		16	
50 PERCENT EXCEEDS	4.8		3.9		5.5	
90 PERCENT EXCEEDS	3.4		2.8		3.1	

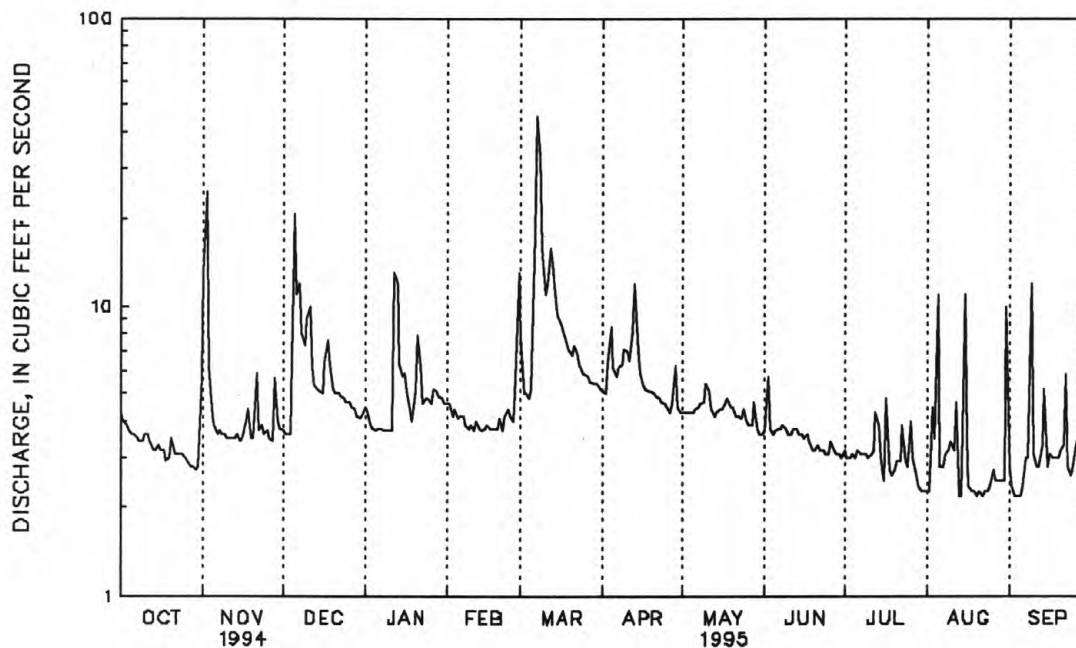
a Aug. 13, 14, 20, 22, Sep. 3, 4, 5.

b From rating curve extended above 180 ft³/s on basis of slope-area measurements of peak flow.

c Datum then in use.

d Result of regulation.

f Sep. 7, 15, 19.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

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 mi².

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 Velasco Road Detention Basin 2.1 mi upstream. Several measurements of water temperature were made during the year.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5.0	21	e3.8	e5.2	e5.0	8.8	6.1	4.5	3.9	3.6	2.5	3.1
2	e4.8	32	e3.6	e4.8	e5.0	5.8	6.0	4.5	10	3.2	2.5	2.6
3	e4.6	6.9	e3.6	e4.4	e4.6	5.3	8.3	4.5	4.2	3.2	5.9	2.5
4	e4.4	4.9	e3.6	e4.3	e4.8	5.4	9.5	4.4	3.7	3.3	3.9	2.4
5	e4.2	4.9	28	e4.2	e4.6	5.9	6.3	4.6	3.7	3.2	17	2.4
6	e4.4	4.5	10	e4.3	e4.4	16	5.9	5.0	3.7	3.4	3.2	2.7
7	e4.3	4.4	12	e4.3	e4.4	43	5.9	5.1	3.7	3.3	2.8	3.5
8	e4.3	e4.2	8.2	e4.2	e4.2	35	6.3	5.0	3.7	3.3	3.1	3.5
9	e4.1	e4.4	7.5	e4.2	e4.2	17	7.4	5.3	3.8	3.3	3.1	22
10	e4.3	e4.2	9.2	e4.2	e4.2	13	7.2	7.0	3.9	3.2	3.3	2.9
11	e3.9	e4.2	11	e4.2	e4.4	13	6.8	6.4	3.7	2.9	3.1	3.0
12	e3.8	e4.4	6.5	e15	e4.3	17	9.4	5.4	3.7	2.9	5.2	3.2
13	3.6	e4.2	5.7	14	4.3	15	13	5.1	3.6	3.4	2.4	5.8
14	3.7	e4.4	5.5	7.3	4.3	12	7.8	5.1	3.5	6.0	2.4	5.9
15	3.7	e4.2	5.2	6.8	4.4	10	6.7	5.0	3.6	3.5	20	2.9
16	3.7	e4.2	5.1	6.6	4.5	9.7	6.1	4.7	3.5	3.1	4.5	3.2
17	3.7	e5.0	6.8	5.7	4.4	10	5.9	4.7	3.6	8.7	2.6	3.3
18	3.8	e5.5	7.8	5.2	4.4	9.8	5.8	4.7	3.5	3.0	2.5	3.2
19	4.0	e4.0	6.6	5.0	4.7	9.1	5.9	4.8	3.5	2.5	2.5	3.3
20	4.4	e4.0	5.6	6.8	4.7	8.7	5.9	4.8	3.4	2.8	2.4	3.4
21	3.8	e8.5	5.4	9.6	5.0	9.4	5.8	4.8	3.5	3.0	2.5	3.5
22	3.7	3.8	5.4	7.6	4.5	8.8	5.5	4.7	3.4	3.0	2.4	6.7
23	3.6	3.9	5.4	5.6	4.8	8.1	5.2	4.6	3.4	4.8	2.5	2.9
24	3.7	3.8	5.3	5.6	5.3	7.8	5.1	5.4	3.3	3.3	2.5	2.7
25	e3.6	3.9	5.2	5.5	4.8	7.5	5.1	4.5	3.3	2.8	2.6	3.0
26	e3.5	3.8	5.2	5.3	4.6	7.3	5.1	4.3	3.7	4.2	3.0	3.4
27	e3.4	3.7	5.2	4.9	6.9	7.1	5.5	4.0	3.4	3.4	2.7	3.4
28	e3.4	6.5	e5.0	4.3	14	6.7	7.4	5.6	3.3	2.7	2.7	3.3
29	e3.3	4.0	e4.6	4.3	---	6.4	4.6	4.5	3.3	2.6	2.7	3.2
30	e3.4	e3.8	e4.6	e4.4	---	6.6	4.5	4.0	3.2	2.5	2.7	3.1
31	9.5	---	e4.8	e4.8	---	6.3	---	3.9	---	2.5	19	---
TOTAL	127.6	181.2	211.4	182.6	139.7	351.5	196.0	150.9	113.7	106.6	140.2	120.0
MEAN	4.12	6.04	6.82	5.89	4.99	11.3	6.53	4.87	3.79	3.44	4.52	4.00
MAX	9.5	32	28	15	14	43	13	7.0	10	8.7	20	22
MIN	3.3	3.7	3.6	4.2	4.2	5.3	4.5	3.9	3.2	2.5	2.4	2.4
CFSM	.36	.53	.60	.52	.44	1.00	.58	.43	.34	.30	.40	.35
IN.	.42	.60	.70	.60	.46	1.16	.65	.50	.37	.35	.46	.40

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1995, BY WATER YEAR (WY)

MEAN	9.01	9.37	12.1	11.2	13.3	23.4	24.4	13.2	10.9	9.62	7.21	8.27
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

STREAMS TRIBUTARY TO LAKE ONTARIO
04240105 HARBOR BROOK AT HIAWATHA BOULEVARD, SYRACUSE, NY--continued

221

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1971 - 1995	
ANNUAL TOTAL	4212.7		2021.4			
ANNUAL MEAN	11.5		5.54		12.6	
HIGHEST ANNUAL MEAN					21.3	
LOWEST ANNUAL MEAN					5.54	
HIGHEST DAILY MEAN	128	Mar 24	43	Mar 7	567	Mar 5 1979
LOWEST DAILY MEAN	3.3	Oct 29	2.4	a	1.3	Nov 4 1988
ANNUAL SEVEN-DAY MINIMUM	3.5	Oct 24	2.5	Aug 18	1.8	Nov 10 1988
INSTANTANEOUS PEAK FLOW			344	Aug 15	b824	Jul 3 1974
INSTANTANEOUS PEAK STAGE			5.38	Aug 15	c8.15	Sep 26 1975
INSTANTANEOUS LOW FLOW			.75	d	.00	f
ANNUAL RUNOFF (CFSM)	1.02		.49		1.12	
ANNUAL RUNOFF (INCHES)	13.87		6.65		15.20	
10 PERCENT EXCEEDS	27		8.8		24	
50 PERCENT EXCEEDS	5.5		4.4		8.0	
90 PERCENT EXCEEDS	3.8		3.0		4.2	

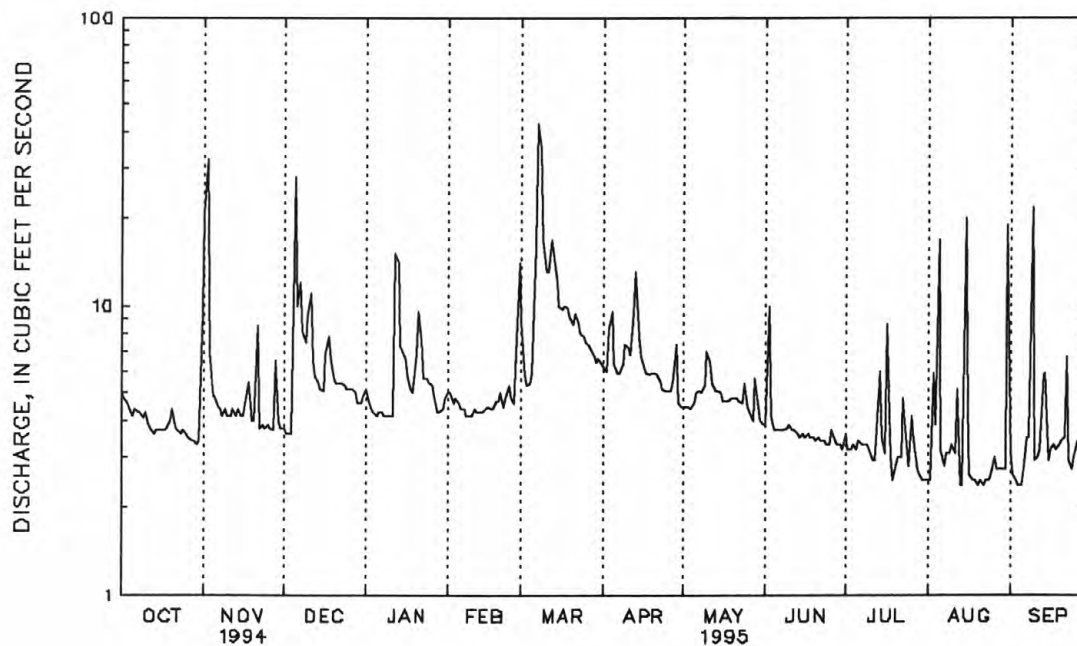
a Aug. 13, 14, 20, 22, Sep. 4, 5.

b From rating curve extended above 76 ft³/s on basis of step-backwater computations.

c Backwater from debris jam.

d Sep. 6, 15.

f Oct. 26, 27, 1987, result of regulation for maintenance work in the channel.



DAILY MEAN DISCHARGE FOR -- 1995 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 mi².

PERIOD OF RECORD.--Occasional discharge measurements water years 1959-72. December 1972 to current year.

REVISÉD 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 364.0 ft. 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	e12	e40	26	20	18	62	19	18	11	60	6.1	25
2	e12	e180	20	18	19	46	17	16	67	17	6.6	35
3	e11	e60	18	15	16	39	19	15	73	7.9	11	8.8
4	e10	e40	16	13	14	32	58	14	20	6.8	30	7.3
5	e9.5	e30	185	13	13	31	35	13	11	6.7	32	7.4
6	e10	e25	109	13	14	113	27	13	9.3	6.7	16	8.2
7	e9.6	e22	104	14	14	165	26	12	8.8	6.4	7.8	10
8	e9.6	e20	64	14	14	249	25	12	8.4	5.8	6.6	15
9	e9.0	21	47	14	14	117	32	12	7.6	6.0	6.2	87
10	e9.4	18	59	14	e14	76	39	36	7.5	6.3	6.0	18
11	e8.4	16	86	13	e14	60	30	40	7.1	6.3	9.4	9.3
12	e8.0	15	48	52	13	78	50	25	8.1	6.0	23	7.5
13	e7.5	14	29	86	13	103	105	18	7.2	6.3	7.5	12
14	e7.6	12	23	71	13	87	53	15	6.9	23	5.6	71
15	e7.6	12	22	68	13	69	36	15	7.2	7.4	66	13
16	e7.6	13	22	104	e14	60	30	13	7.4	7.5	187	8.1
17	e7.5	12	30	58	16	66	24	13	7.4	20	19	7.6
18	e7.5	11	37	41	18	50	22	13	7.0	20	9.7	10
19	e7.8	12	35	33	22	34	21	12	6.7	6.5	7.6	7.6
20	e8.8	11	30	45	25	29	20	11	6.9	6.1	6.7	8.5
21	e8.6	43	29	55	33	37	20	11	6.4	7.1	6.5	9.6
22	e8.4	24	25	44	26	35	21	11	5.7	6.4	6.5	34
23	e7.9	18	22	34	27	30	20	10	5.7	8.4	6.5	17
24	e8.0	14	19	32	40	25	20	23	5.5	10	6.3	8.4
25	e8.2	14	18	29	31	23	19	22	5.6	8.4	6.2	7.5
26	e8.2	13	17	25	25	20	18	13	5.7	18	6.8	7.3
27	e8.2	11	16	24	29	19	18	11	5.9	8.7	6.9	8.8
28	e8.0	71	15	20	122	18	59	20	5.6	7.4	7.1	6.8
29	e7.7	43	16	17	---	17	26	37	5.7	5.9	7.2	6.5
30	e7.5	29	14	16	---	23	20	18	5.5	5.3	8.0	5.6
31	e14	---	13	16	---	21	---	13	---	5.6	29	---
TOTAL	275.1	864	1214	1031	644	1834	929	525	352.8	329.9	566.8	487.8
MEAN	8.87	28.8	39.2	33.3	23.0	59.2	31.0	16.9	11.8	10.6	18.3	16.3
MAX	14	180	185	104	122	249	105	40	73	60	187	87
MIN	7.5	11	13	13	13	17	17	10	5.5	5.3	5.6	5.6
CFSM	.30	.96	1.31	1.11	.77	1.98	1.04	.57	.39	.36	.61	.54
IN.	.34	1.07	1.51	1.28	.80	2.28	1.16	.65	.44	.41	.71	.61

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1995, BY WATER YEAR (WY)

MEAN	37.5	48.1	55.9	38.2	50.7	75.5	77.2	39.0	31.1	28.1	24.0	31.3
MAX	129	102	145	70.9	125	154	334	88.7	71.4	61.6	46.7	99.1
(WY)	1978	1978	1978	1973	1976	1978	1993	1976	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

STREAMS TRIBUTARY TO LAKE ONTARIO
04240120 LEY CREEK AT PARK STREET, SYRACUSE, NY--Continued

223

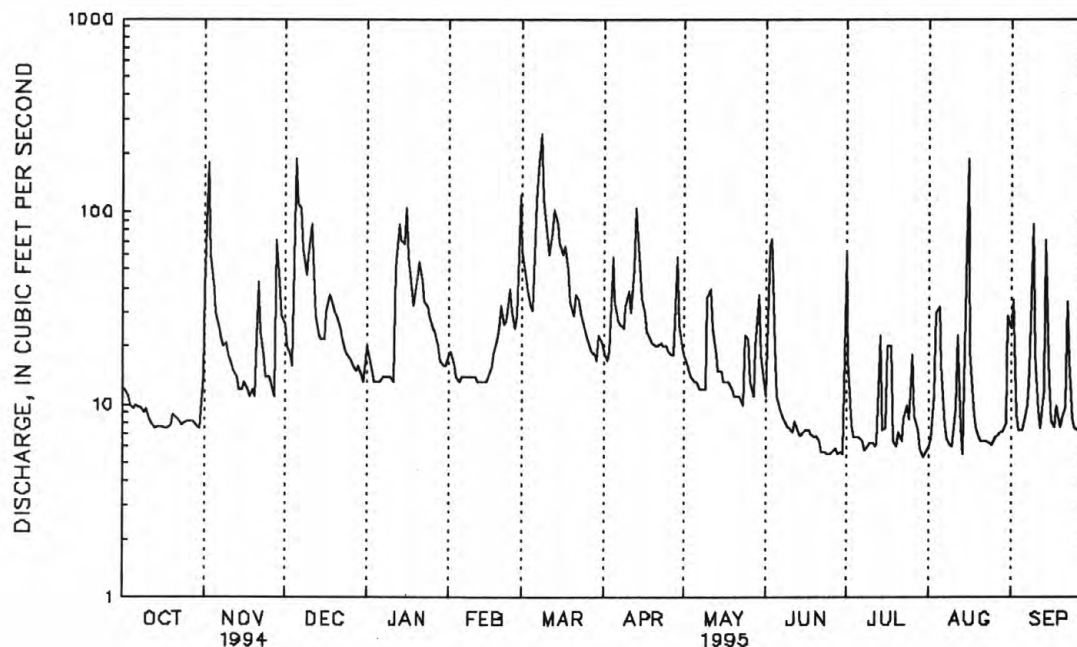
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1973 - 1995	
ANNUAL TOTAL	13632.2		9053.4			
ANNUAL MEAN	37.3		24.8		44.0	
HIGHEST ANNUAL MEAN					69.8	
LOWEST ANNUAL MEAN					24.8	
HIGHEST DAILY MEAN	350	Mar 24	249	Mar 8	831	Sep 26 1975
LOWEST DAILY MEAN	6.5	a	5.3	Jul 30	1.9	b
ANNUAL SEVEN-DAY MINIMUM	6.5	Sep 16	5.6	Jun 24	2.3	Feb 2 1977
INSTANTANEOUS PEAK FLOW			603	Aug 16	c1310	Sep 26 1975
INSTANTANEOUS PEAK STAGE			3.81	Aug 16	d7.02	Apr 26 1993
ANNUAL RUNOFF (CFSM)	1.25		.83		1.47	
ANNUAL RUNOFF (INCHES)	16.96		11.26		20.01	
10 PERCENT EXCEEDS	97		58		98	
50 PERCENT EXCEEDS	18		15		25	
90 PERCENT EXCEEDS	8.2		6.7		10	

a Sep. 11-13, 16-22.

b Feb. 6, 7, 1977, Aug. 19, 1987.

c From rating curve extended above 530 ft³/s.

d Backwater from Onondaga Lake.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
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 mi².

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e7.0	e15	14	46	44	22	14	15	12	6.7	4.7	5.6
2	e7.5	e40	14	46	43	18	14	15	21	6.3	4.7	5.2
3	e7.0	e16	13	45	42	17	14	15	27	6.0	5.2	5.2
4	e6.5	e13	12	45	43	17	18	14	25	5.7	5.9	5.2
5	e6.5	12	23	44	42	17	13	14	24	5.6	7.9	5.2
6	e6.5	12	19	44	42	29	13	14	24	5.5	5.3	5.5
7	e6.5	12	20	45	42	46	13	14	21	5.4	4.9	5.2
8	e6.0	12	17	44	42	51	13	14	18	5.2	4.7	5.3
9	e6.0	e11	16	44	42	33	14	14	19	5.2	4.8	6.4
10	e6.0	e11	24	44	42	29	14	16	19	5.1	e4.6	5.3
11	e6.0	e11	54	44	42	31	13	15	17	5.3	4.8	5.0
12	e6.0	e11	50	56	41	39	16	14	19	5.3	5.3	4.9
13	e5.8	e10	49	50	41	36	22	13	20	5.3	5.0	4.9
14	e5.8	e10	49	47	41	31	14	14	20	5.3	4.8	5.6
15	e5.8	e11	48	47	41	28	13	12	19	5.8	5.2	4.9
16	e5.8	e11	48	47	41	27	13	12	17	5.8	5.4	4.7
17	e5.6	e11	50	46	41	28	12	12	15	6.1	4.9	4.7
18	e5.6	e11	50	43	41	27	13	12	17	5.8	4.9	4.7
19	e5.6	e11	49	42	42	26	14	12	19	5.4	4.9	4.7
20	e6.0	e12	48	43	43	19	12	12	21	5.2	4.8	4.7
21	e6.0	e18	47	49	43	15	14	12	9.4	5.1	4.7	4.7
22	e6.0	e15	46	46	42	15	13	13	8.2	5.0	4.6	5.4
23	e6.0	e13	46	43	43	15	13	12	8.2	5.0	4.7	5.0
24	e6.0	e12	47	43	45	14	13	12	8.1	5.0	4.8	4.6
25	e5.8	e12	47	42	42	14	13	12	7.7	5.0	5.1	4.5
26	e5.8	e12	46	42	41	14	13	12	7.5	5.5	5.1	4.5
27	e5.8	e12	46	44	34	14	14	12	7.4	5.1	5.2	4.6
28	e5.8	18	46	43	33	14	16	13	6.9	5.0	5.2	4.8
29	e5.8	16	45	43	---	14	15	13	6.7	4.9	5.2	e4.7
30	e5.6	15	44	43	---	14	15	12	6.4	4.7	5.1	e4.6
31	e6.5	---	45	44	---	14	---	12	---	4.7	5.8	---
TOTAL	188.6	406	1172	1394	1161	728	421	408	470.5	167.0	158.2	150.3
MEAN	6.08	13.5	37.8	45.0	41.5	23.5	14.0	13.2	15.7	5.39	5.10	5.01
MAX	7.5	40	54	56	45	51	22	16	27	6.7	7.9	6.4
MIN	5.6	10	12	42	33	14	12	12	6.4	4.7	4.6	4.5

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

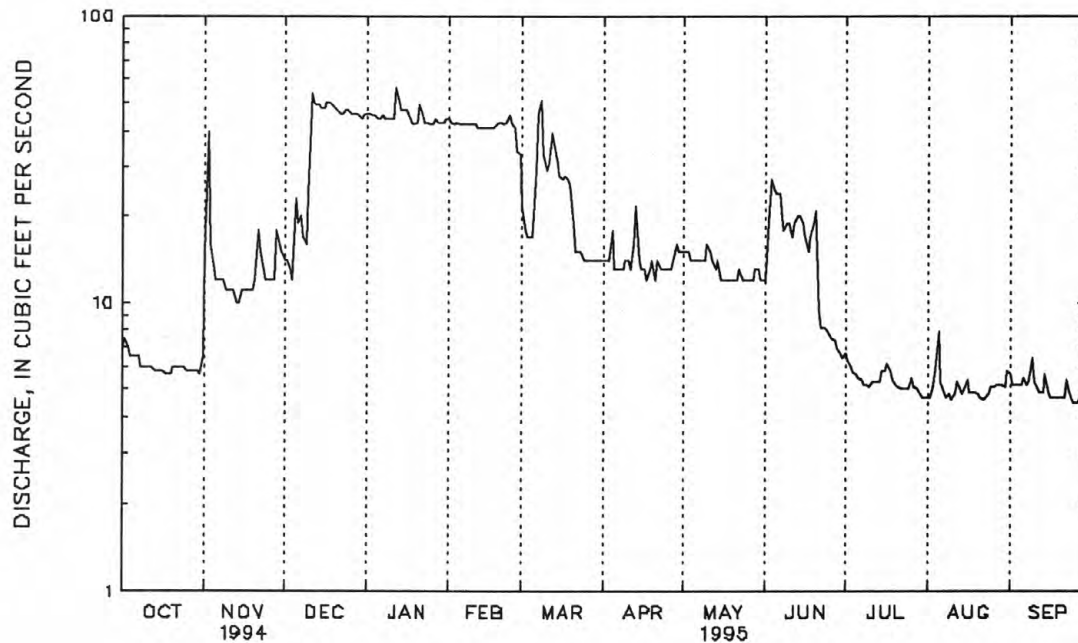
	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
MEAN	23.7	31.8	43.9	49.7	52.5	60.4	101	47.2	29.7	17.4	11.7	11.9
MAX	147	125	160	157	143	159	352	134	278	74.0	76.2	36.3
(WY)	1978	1978	1973	1973	1990	1976	1993	1983	1972	1972	1992	1989
MIN	1.52	2.47	3.42	2.75	3.10	5.23	5.80	3.24	2.17	1.65	1.28	1.16
(WY)	1967	1967	1966	1981	1967	1965	1965	1965	1965	1981	1966	1966

STREAMS TRIBUTARY TO LAKE ONTARIO
04240180 NINEMILE CREEK NEAR MARIETTA, NY--Continued

225

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1964 - 1995	
ANNUAL TOTAL	15531.4		6824.6		40.0	
ANNUAL MEAN	42.6		18.7		76.3	1976
HIGHEST ANNUAL MEAN					3.95	1965
LOWEST ANNUAL MEAN						
HIGHEST DAILY MEAN	296	Apr 16	56	Jan 12	931	Jun 23 1972
LOWEST DAILY MEAN	5.6	Oct 17	4.5	a	.80	Sep 13 1966
ANNUAL SEVEN-DAY MINIMUM	5.7	Oct 13	4.6	Sep 24	.89	Sep 13 1966
INSTANTANEOUS PEAK FLOW			75	Mar 7	1030	Jun 23 1972
INSTANTANEOUS PEAK STAGE			3.09	b	8.65	Jun 23 1972
INSTANTANEOUS LOW FLOW			4.4	Aug 22	.80	c
10 PERCENT EXCEEDS	118		44		103	
50 PERCENT EXCEEDS	15		13		16	
90 PERCENT EXCEEDS	7.0		5.0		3.2	

a Sep. 25, 26.
b Nov. 2, Dec. 10.
c Sep. 13, 18, 19, 1966.



DAILY MEAN DISCHARGE FOR — 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO

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 mi².

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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	108	75	e94	101	e130	83	67	48	43	38	45
2	44	301	71	e92	100	e100	81	66	48	39	38	32
3	41	126	69	e90	96	e90	81	66	52	37	40	30
4	38	88	68	e88	e92	e90	103	64	45	37	54	30
5	38	83	136	e86	e90	91	94	64	47	37	75	30
6	38	80	140	e86	e90	138	88	63	54	37	48	36
7	37	76	119	e85	e95	217	89	62	53	36	31	32
8	36	72	105	e85	e94	e230	96	61	50	37	29	31
9	36	71	94	e84	e94	e140	98	61	49	37	28	52
10	37	66	103	e88	e92	119	104	65	49	37	28	40
11	37	63	136	90	e92	114	102	68	48	37	28	35
12	35	62	e120	132	e90	133	98	65	48	37	35	32
13	35	62	110	152	e90	146	141	61	48	37	34	33
14	35	62	108	123	e90	120	101	60	48	38	30	42
15	34	61	107	119	e90	109	88	60	47	40	45	36
16	34	62	106	119	94	106	80	57	47	40	78	32
17	33	64	112	112	93	105	76	56	45	43	40	31
18	34	64	124	105	92	103	73	56	45	47	32	31
19	34	64	119	102	94	99	71	55	45	39	29	30
20	37	65	113	105	98	96	69	54	46	39	28	29
21	38	76	110	121	104	97	69	54	44	39	28	30
22	36	85	108	124	99	98	73	53	39	39	28	36
23	35	74	105	112	99	96	70	53	38	40	28	39
24	35	70	105	109	e114	92	68	52	38	41	28	31
25	35	e69	104	106	e100	88	66	52	38	41	28	29
26	35	e68	102	104	e98	86	65	50	38	44	29	28
27	35	67	100	e100	102	84	65	49	38	45	30	28
28	35	77	e98	e95	156	83	76	49	37	42	30	27
29	35	84	e96	e90	---	81	69	52	37	40	29	26
30	34	77	95	96	---	84	67	50	37	39	29	25
31	38	---	e95	102	---	84	---	48	---	38	38	---
TOTAL	1126	2447	3253	3196	2739	3449	2504	1793	1346	1222	1113	988
MEAN	36.3	81.6	105	103	97.8	111	83.5	57.8	44.9	39.4	35.9	32.9
MAX	44	301	140	152	156	230	141	68	54	47	78	52
MIN	33	61	68	84	90	81	65	48	37	36	28	25

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

MEAN	65.9	96.6	118	125	141	203	245	128	92.9	67.1	48.8	49.0
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

STREAMS TRIBUTARY TO LAKE ONTARIO
04240200 NINEMILE CREEK AT CAMILLUS, NY--Continued

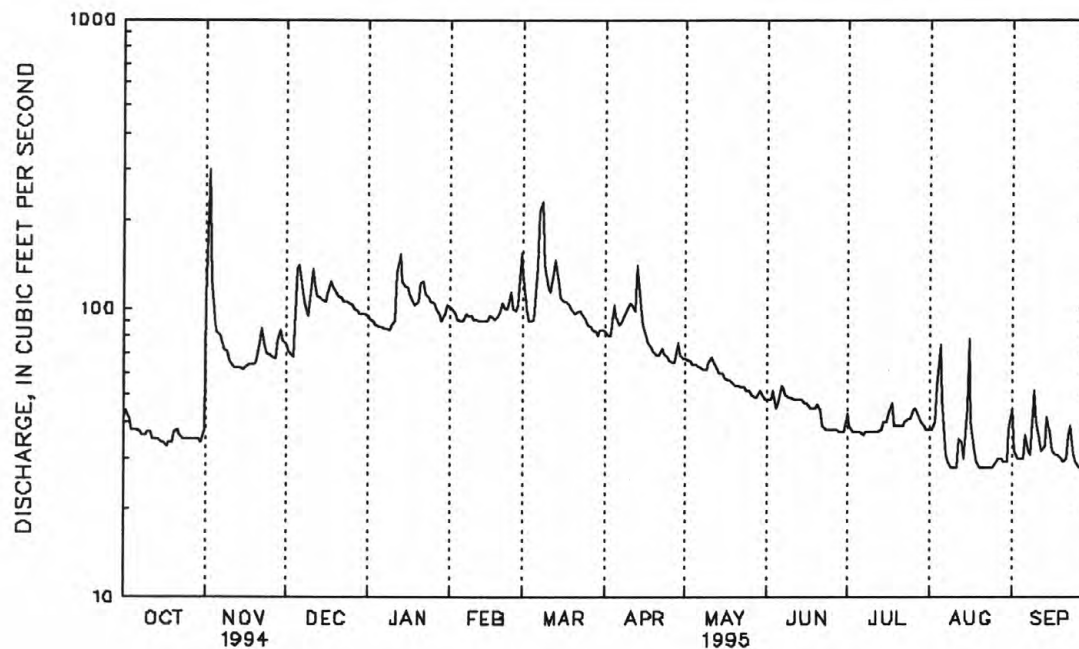
227

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1958 - 1995	
ANNUAL TOTAL	43684		25176		115	
ANNUAL MEAN	120		69.0		182	
HIGHEST ANNUAL MEAN					41.9	
LOWEST ANNUAL MEAN					1660	
HIGHEST DAILY MEAN	724	Mar 25	301	Nov 2	16	Oct 1 1961
LOWEST DAILY MEAN	33	Oct 17	25	Sep 30	17	Oct 15 1988
ANNUAL SEVEN-DAY MINIMUM	34	Oct 13	28	Sep 24	2760	Mar 30 1960
INSTANTANEOUS PEAK FLOW			381	Nov 2	a10.83	Sep 26 1975
INSTANTANEOUS PEAK STAGE			3.65	Nov 2	b	c
INSTANTANEOUS LOW FLOW			25	b	16	
10 PERCENT EXCEEDS	258		109		240	
50 PERCENT EXCEEDS	80		64		72	
90 PERCENT EXCEEDS	40		32		30	

a Backwater from construction activities.

b Sep. 29, 30.

c Sep 30, Oct 1, 2, 1961.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
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 mi².

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 1995 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e63	e132	e108	e134	e120	e180	e105	e82	e58	e52	e46	e49
2	e65	e360	e104	e132	e122	e150	e100	e80	e58	e47	e46	e41
3	e62	e208	e100	e128	e122	e140	e100	e80	e62	e44	e47	e37
4	e57	e135	e98	e126	e120	e140	e120	e78	e55	e44	e50	e37
5	e57	e120	e174	e122	e116	e140	e115	e76	e58	e44	e90	e37
6	e57	e116	e210	e122	e116	e170	e110	e75	e62	e44	e58	e39
7	e56	e110	e175	e120	e120	e255	e110	e74	e63	e43	e38	e39
8	e54	e105	e153	e118	e120	e285	e110	e72	e60	e44	e36	e39
9	e54	e103	e138	e116	e120	e205	e112	e72	e58	e44	e35	e58
10	e55	e96	e146	e124	e120	e180	e120	e76	e58	e44	e35	e50
11	e55	e92	e186	e126	e120	e175	e122	e82	e57	e44	e35	e44
12	e53	e90	e180	e174	e116	e185	e120	e78	e57	e44	e42	e40
13	e52	e90	e160	e200	e116	e195	e160	e74	e57	e44	e41	e41
14	e52	e90	e155	e170	e116	e180	e120	e72	e57	e45	e38	e52
15	e51	e89	e154	e160	e120	e174	e105	e70	e56	e48	e50	e46
16	e51	e90	e152	e160	e122	e170	e95	e68	e56	e48	e95	e40
17	e50	e92	e160	e146	e122	e168	e92	e67	e54	e52	e46	e39
18	e51	e93	e175	e140	e120	e165	e88	e67	e54	e57	e38	e38
19	e51	e93	e172	e130	e122	e156	e86	e65	e54	e47	e35	e37
20	e55	e94	e164	e140	e128	e150	e84	e64	e55	e47	e34	e36
21	e56	e107	e158	e160	e130	e150	e84	e63	e53	e47	e34	e36
22	e54	e120	e154	e164	e128	e150	e88	e63	e48	e47	e34	e43
23	e53	e110	e150	e145	e125	e144	e84	e62	e46	e48	e34	e48
24	e52	e102	e150	e140	e135	e140	e82	e62	e46	e49	e34	e38
25	e52	e101	e150	e130	e130	e130	e80	e62	e46	e50	e34	e36
26	e52	e101	e147	e124	e130	e126	e78	e60	e46	e54	e35	e35
27	e52	e98	e144	e122	e125	e120	e78	e59	e46	e55	e36	e34
28	e52	e108	e138	e118	e195	e115	e90	e59	e45	e52	e36	e33
29	e52	e120	e136	e122	---	e110	e84	e62	e45	e49	e35	e32
30	e51	e112	e134	e117	---	e110	e82	e60	e45	e47	e35	e30
31	e56	---	e134	e120	---	e108	---	e58	---	e46	e41	---
TOTAL	1683	3477	4659	4250	3496	4966	3004	2142	1615	1470	1323	1204
MEAN	54.3	116	150	137	125	160	100	69.1	53.8	47.4	42.7	40.1
MAX	65	360	210	200	195	285	160	82	63	57	95	58
MIN	50	89	98	116	116	108	78	58	45	43	34	30

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1995, BY WATER YEAR (WY)

MEAN	140	179	225	206	228	323	357	208	154	108	94.4	100
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	97.3	81.8	86.0	112	100	69.1	52.6	44.2	28.6	33.0
(WY)	1986	1992	1983	1984	1989	1983	1995	1995	1981	1981	1985	1985

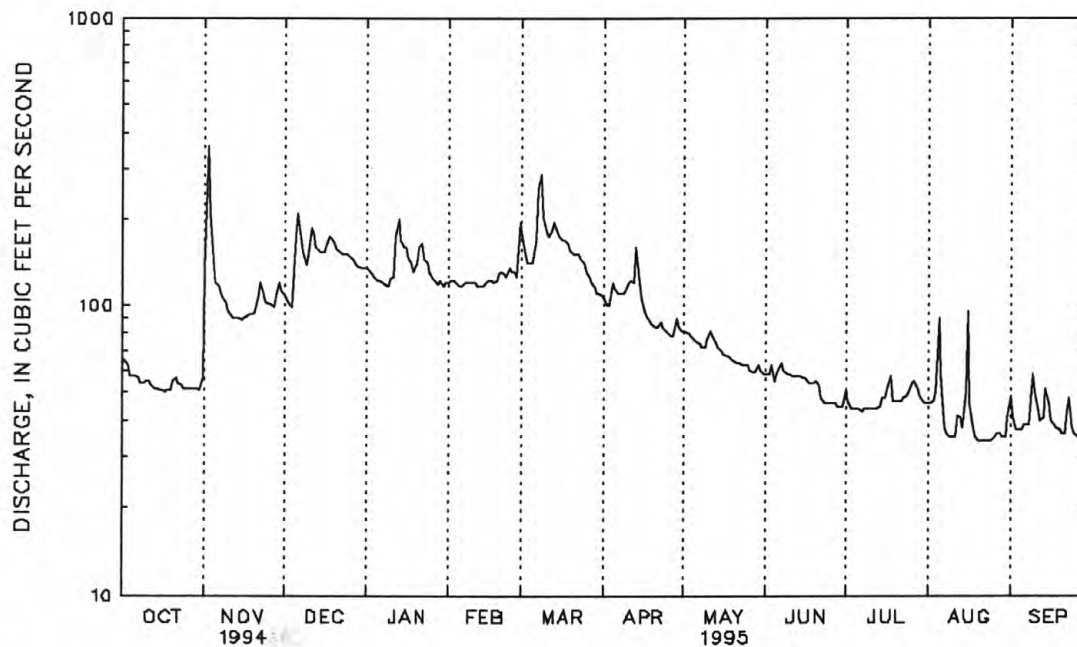
STREAMS TRIBUTARY TO LAKE ONTARIO
04240300 NINEMILE CREEK AT LAKELAND, NY--Continued

229

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1971 - 1995	
ANNUAL TOTAL	60467		33289		189	
ANNUAL MEAN	166		91.2		310	
HIGHEST ANNUAL MEAN					91.2	
LOWEST ANNUAL MEAN					13	
HIGHEST DAILY MEAN	1000	Mar 25	360	Nov 2	2960	Mar 5 1979
LOWEST DAILY MEAN	50	a	30	Sep 30	16	Aug 18 1985
ANNUAL SEVEN-DAY MINIMUM	51	Sep 6	34	Sep 24	139	Sep 20 1985
INSTANTANEOUS PEAK STAGE			b4.50	Mar 8	b9.63	Apr 27 1993
10 PERCENT EXCEEDS	353		157		385	
50 PERCENT EXCEEDS	110		80		139	
90 PERCENT EXCEEDS	54		39		56	

a Sep. 6, 7, 8, 11, 12, 13, 19, 20, 21, 22.

b Backwater from Onondaga Lake.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

DRAINAGE AREA.--285 mi².

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 mi².

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 364.61 ft, Mar. 8; minimum, 362.46 ft, June 25.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	363.33	363.10	363.79	363.15	363.54	363.51	362.93	363.13	362.99	362.79	362.86	362.67
2	363.42	363.75	363.79	363.18	363.44	363.74	362.71	363.06	363.02	362.95	362.92	362.66
3	363.36	363.90	363.76	363.21	363.27	363.69	362.87	363.07	363.21	362.76	362.91	362.64
4	363.34	363.94	363.71	363.14	363.10	363.61	362.87	363.08	363.17	362.76	362.82	362.61
5	363.40	363.97	363.84	363.12	363.31	363.60	362.82	363.10	363.05	362.89	363.08	362.61
6	363.39	363.93	363.98	363.15	363.30	363.69	362.71	363.14	362.96	362.88	363.03	362.61
7	363.44	363.90	363.98	363.14	363.38	363.92	362.77	363.12	362.85	362.65	362.93	362.61
8	363.37	363.88	364.01	363.10	363.20	364.46	363.01	363.09	362.74	362.78	362.83	362.63
9	363.28	363.86	364.05	363.08	363.18	364.39	362.95	362.81	362.72	362.91	362.74	362.73
10	363.24	363.85	363.97	363.11	363.14	364.23	362.93	362.65	362.93	362.91	362.73	362.76
11	363.21	363.90	364.03	363.16	363.13	364.18	362.88	362.87	362.85	362.69	362.88	362.73
12	363.20	363.87	364.05	363.29	363.07	364.14	362.88	362.80	362.69	362.66	362.93	362.69
13	363.23	363.87	363.94	363.46	363.21	364.23	363.09	362.72	362.58	362.63	362.59	362.69
14	363.24	363.73	363.92	363.39	363.27	364.26	363.22	362.87	362.49	362.77	362.59	362.77
15	363.11	363.77	363.88	363.34	363.20	364.19	363.25	362.76	362.58	362.95	362.71	362.71
16	363.11	363.83	363.85	363.34	363.20	364.13	363.17	362.70	362.67	362.65	363.03	362.65
17	363.10	363.80	363.86	363.47	363.23	364.16	363.13	362.78	362.69	362.72	362.74	362.61
18	363.10	363.76	363.93	363.49	363.30	364.07	363.11	362.85	362.66	362.79	363.17	362.58
19	363.04	363.83	364.00	363.57	363.20	363.95	363.01	362.90	362.64	362.80	363.13	362.56
20	362.82	363.83	363.93	363.70	363.09	363.82	363.13	362.75	362.62	362.87	363.06	362.54
21	362.70	363.76	363.81	363.69	363.19	363.79	363.13	362.88	362.59	362.94	362.99	362.55
22	362.77	363.81	363.79	363.71	363.22	363.81	363.19	362.91	362.56	362.94	362.88	362.59
23	362.83	363.86	363.64	363.74	363.21	363.70	363.13	362.68	362.54	362.67	362.68	362.67
24	362.84	363.77	363.42	363.77	363.22	363.57	363.10	362.76	362.50	362.59	362.61	362.68
25	362.82	363.73	363.31	363.73	363.28	363.37	363.00	362.93	362.48	362.65	362.57	362.71
26	362.77	363.72	363.15	363.63	363.25	363.33	363.06	362.94	362.51	362.78	362.56	362.85
27	362.65	363.68	363.04	363.66	363.28	363.25	363.11	362.76	362.62	362.91	362.61	362.86
28	362.85	363.75	363.06	363.63	363.37	363.23	363.11	362.70	362.68	362.68	362.73	362.80
29	362.85	363.81	363.18	363.60	---	363.18	363.10	362.92	362.73	362.73	362.68	362.74
30	362.78	363.77	363.17	363.62	---	363.09	363.13	362.83	362.77	362.80	362.61	362.70
31	362.81	---	363.15	363.59	---	363.06	---	362.92	---	362.78	362.59	---
MEAN	363.08	363.80	363.71	363.42	363.24	363.79	363.02	362.89	362.74	362.78	362.81	362.67
MAX	363.44	363.97	364.05	363.77	363.54	364.46	363.25	363.14	363.21	362.95	363.17	362.86
MIN	362.65	363.10	363.04	363.08	363.07	363.06	362.71	362.65	362.48	362.59	362.56	362.54
CAL YR 1994	MEAN	363.71	MAX	367.52	MIN	362.51						
WTR YR 1995	MEAN	363.16	MAX	364.46	MIN	362.48						

STREAMS TRIBUTARY TO LAKE ONTARIO

04242500 EAST BRANCH FISH CREEK AT TABERG, NY

LOCATION.--Lat 43°18'06", long 75°37'09", Oneida County, Hydrologic Unit 04140202, on left bank at downstream side of bridge on Main Street at Taberg, just downstream from Furnace Creek, 300 ft upstream from bridge on State Highway 69, and 2.8 mi upstream from confluence of East and West Branches near Blossvale.

DRAINAGE AREA.--188 mi².

PERIOD OF RECORD.--April 1923 to March 1995 (discontinued).

REVISED RECORDS.--WSP 604: 1924. WSP 759: Drainage area. WSP 1034: 1944. WSP 1054: 1923-45. WDR NY-83-3: 1980 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 490.12 ft above sea level. Prior to May 20, 1969, at datum 1.00 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Diversion upstream from station for municipal water supply by cities of Rome and Oneida. Diurnal fluctuation at low flow caused by power-generating operations upstream. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT PERIOD.--October 1994 to March 1995: Peak discharges greater than base discharge of 4,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Jan. 16	0600	*4,200	*5.68				

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	1010	1030	685	e260	344	e250	---	---	---	---	---	---
2	674	1990	581	e270	326	e240	---	---	---	---	---	---
3	487	1090	517	250	e300	e220	---	---	---	---	---	---
4	362	688	484	e245	e330	e210	---	---	---	---	---	---
5	306	681	1760	e240	e320	e200	---	---	---	---	---	---
6	259	1090	2670	e240	e300	245	---	---	---	---	---	---
7	233	1780	1680	e230	e300	293	---	---	---	---	---	---
8	204	1100	1030	e240	e290	460	---	---	---	---	---	---
9	209	736	706	e240	e280	e600	---	---	---	---	---	---
10	255	626	e620	e230	e260	e520	---	---	---	---	---	---
11	243	514	e560	e230	e260	506	---	---	---	---	---	---
12	207	435	e420	e260	e250	464	---	---	---	---	---	---
13	178	399	e350	e400	e240	488	---	---	---	---	---	---
14	163	369	e350	e720	e230	768	---	---	---	---	---	---
15	149	356	e360	2000	e220	1230	---	---	---	---	---	---
16	136	323	324	3780	e210	1750	---	---	---	---	---	---
17	129	298	322	2410	e210	2050	---	---	---	---	---	---
18	130	281	370	1400	e220	1640	---	---	---	---	---	---
19	138	311	364	999	e220	1220	---	---	---	---	---	---
20	195	306	316	1090	e225	1230	---	---	---	---	---	---
21	297	345	305	1790	e240	1790	---	---	---	---	---	---
22	271	783	279	1360	e210	1830	---	---	---	---	---	---
23	226	715	270	881	e220	1200	---	---	---	---	---	---
24	197	549	277	665	e240	781	---	---	---	---	---	---
25	174	494	280	545	e260	587	---	---	---	---	---	---
26	164	438	237	448	e280	518	---	---	---	---	---	---
27	157	316	226	409	e400	497	---	---	---	---	---	---
28	149	719	e220	336	e260	476	---	---	---	---	---	---
29	149	1370	e210	352	---	463	---	---	---	---	---	---
30	143	930	e190	377	---	479	---	---	---	---	---	---
31	148	---	e210	385	---	491	---	---	---	---	---	---
TOTAL	7742	21062	17173	23282	7445	23696	---	---	---	---	---	---
MEAN	250	702	554	751	266	764	---	---	---	---	---	---
MAX	1010	1990	2670	3780	400	2050	---	---	---	---	---	---
MIN	129	281	190	230	210	200	---	---	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1995, BY WATER YEAR (WY)

	414	617	575	464	409	811	1637	681	287	183	157	260
MEAN	414	617	575	464	409	811	1637	681	287	183	157	260
MAX	1164	1322	1499	1424	1496	2158	2734	2073	1232	632	570	901
(WY)	1946	1926	1974	1937	1981	1945	1960	1947	1972	1947	1986	1975
MIN	30.8	126	183	108	102	217	591	164	52.9	33.1	31.5	28.9
(WY)	1965	1931	1961	1931	1934	1940	1946	1941	1941	1933	1944	1948

STREAMS TRIBUTARY TO LAKE ONTARIO
04242500 EAST BRANCH FISH CREEK AT TABERG, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		WATER YEARS 1923 - 1995	
ANNUAL TOTAL	198859			
ANNUAL MEAN	545		a542	
HIGHEST ANNUAL MEAN			909	1947
LOWEST ANNUAL MEAN			357	1931
HIGHEST DAILY MEAN	4930	Apr 16	10900	Jun 22 1972
LOWEST DAILY MEAN	41	Aug 13	5.2	Aug 15 1949
ANNUAL SEVEN-DAY MINIMUM	82	Aug 7	6.3	Aug 11 1949
INSTANTANEOUS PEAK FLOW			b21600	Dec 29 1984
INSTANTANEOUS PEAK STAGE			13.81	Dec 29 1984
INSTANTANEOUS LOW FLOW			4.9	c
10 PERCENT EXCEEDS	1250		1290	
50 PERCENT EXCEEDS	316		290	
90 PERCENT EXCEEDS	120		68	

a Unadjusted.

b From slope-area indirect measurement of peak flow and result of release of upstream debris jam (constructed maximum discharge, about 16,000 ft³/s on same date as earlier time when adjusted for storage effects).

c Aug. 15, 16, 1949.

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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Nov. 2	1230	*1,260	*6.17				

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	71	510	111	119	110	315	98	81	41	37	16	19
2	82	1070	97	e115	e105	e190	91	76	41	68	16	22
3	63	459	88	e100	e100	e160	87	72	79	29	19	16
4	54	232	82	e90	e105	e150	200	67	53	23	26	16
5	51	174	475	e90	e100	e140	164	66	49	22	28	15
6	48	153	444	e90	e95	e400	134	63	41	21	38	15
7	45	188	379	e85	e95	635	136	60	37	21	25	15
8	43	149	259	e90	e90	1080	137	58	36	22	20	14
9	42	130	190	e85	e90	568	131	57	35	22	18	39
10	49	116	216	e80	e85	385	142	66	34	20	17	30
11	45	100	320	e100	e85	287	139	70	34	22	17	20
12	43	91	e190	e200	e80	329	123	115	39	20	24	18
13	42	87	e170	744	e75	458	196	81	41	20	25	18
14	41	82	e150	395	e75	391	160	69	34	20	18	25
15	40	78	139	334	e70	322	138	66	32	32	34	21
16	38	75	126	331	e70	273	120	62	30	28	22	18
17	38	72	141	215	e75	238	107	57	29	26	18	17
18	38	71	186	177	e80	213	100	56	28	25	16	17
19	39	69	174	159	e95	187	96	58	27	20	15	17
20	48	67	145	177	e120	168	91	55	25	18	15	17
21	45	68	136	220	e150	172	89	51	25	19	14	17
22	42	76	128	178	e130	174	99	48	23	19	14	29
23	41	73	121	155	e140	157	96	46	23	19	14	40
24	40	66	147	147	186	142	87	47	22	22	14	23
25	39	73	185	137	154	126	82	53	21	23	14	20
26	38	79	145	e120	e140	118	80	47	21	51	14	20
27	37	65	119	e105	145	109	76	43	20	31	15	20
28	40	171	e115	e100	362	103	130	43	20	24	15	18
29	38	204	e110	e95	---	98	101	58	19	20	14	18
30	36	132	e95	e110	---	109	87	53	19	17	14	17
31	46	---	e110	121	---	108	---	46	---	16	15	---
TOTAL	1402	4980	5493	5264	3207	8305	3517	1890	978	777	584	611
MEAN	45.2	166	177	170	115	268	117	61.0	32.6	25.1	18.8	20.4
MAX	82	1070	475	744	362	1080	200	115	79	68	38	40
MIN	36	65	82	80	70	98	76	43	19	16	14	14
CFSM	.40	1.47	1.57	1.50	1.01	2.37	1.04	.54	.29	.22	.17	.18
IN.	.46	1.64	1.81	1.73	1.06	2.73	1.16	.62	.32	.26	.19	.20

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

MEAN	90.0	153	193	185	216	371	346	159	101	65.5	53.7	62.3
MAX	472	382	481	443	589	781	915	361	539	225	253	297
(WY)	1978	1973	1974	1979	1976	1977	1993	1990	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

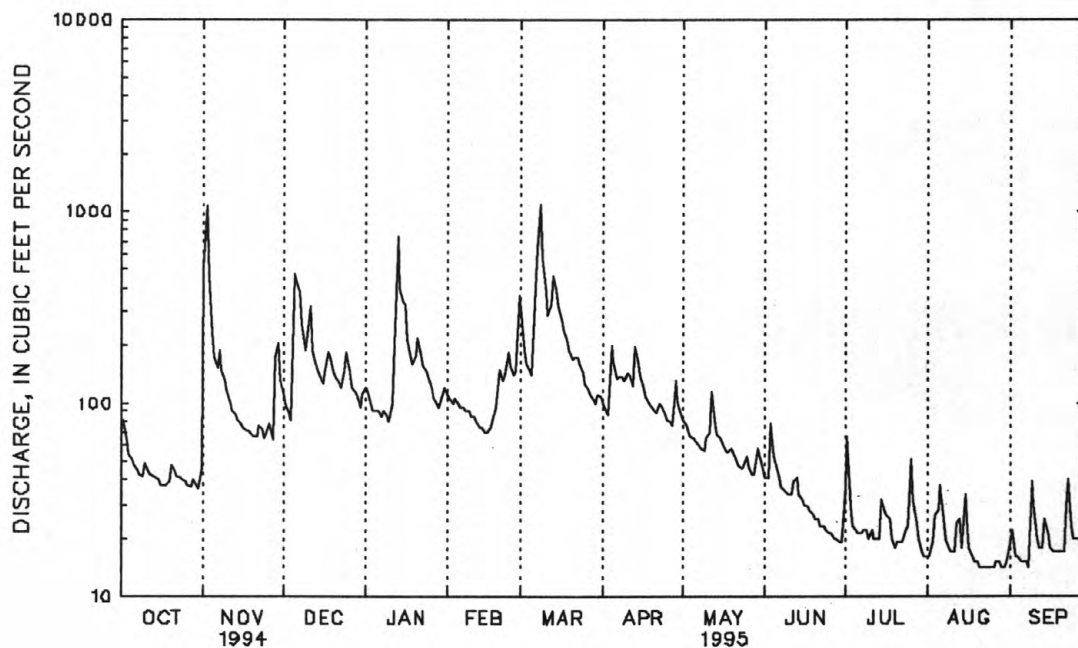
STREAMS TRIBUTARY TO LAKE ONTARIO
04243500 ONEIDA CREEK AT ONEIDA, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1950 - 1995	
ANNUAL TOTAL	76358		37008		166	
ANNUAL MEAN	209		101		284	1976
HIGHEST ANNUAL MEAN					89.7	1988
LOWEST ANNUAL MEAN						
HIGHEST DAILY MEAN	2030	Mar 25	1080	Mar 8	5210	Mar 5 1979
LOWEST DAILY MEAN	36	Sep 22	14	a	13	Oct 28 1964
ANNUAL SEVEN-DAY MINIMUM	38	Oct 24	14	Aug 20	14	Aug 20 1995
INSTANTANEOUS PEAK FLOW			1260	Nov 2	9100	Oct 9 1976
INSTANTANEOUS PEAK STAGE			6.17	Nov 2	15.01	Oct 9 1976
INSTANTANEOUS LOW FLOW			13	b	12	c
ANNUAL RUNOFF (CFSM)	1.85		.90		1.47	
ANNUAL RUNOFF (INCHES)	25.14		12.18		19.95	
10 PERCENT EXCEEDS	546		190		356	
50 PERCENT EXCEEDS	100		70		95	
90 PERCENT EXCEEDS	42		18		30	

a Aug. 21-26, Aug. 29, 30, Sep. 8.

b Aug. 23, 25, 31.

c Aug. 5, 6, 1962, Oct. 28, 1964.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO

235

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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge (ft. ³ /s)	Gage Height (ft.)	Date	Time	Discharge (ft. ³ /s)	Gage Height (ft)
Nov. 2	0600	*537	*7.35				

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	25	164	34	39	47	75	37	34	13	7.6	4.4	8.3
2	28	386	31	35	40	e48	34	32	21	10	4.4	5.5
3	23	157	30	e28	e37	e44	33	30	41	6.4	5.8	4.8
4	22	94	29	e25	e39	e42	82	28	21	5.8	18	4.6
5	21	68	86	e26	e36	e40	54	28	16	5.5	53	4.2
6	20	60	92	31	e36	75	46	27	13	5.4	24	5.2
7	19	56	91	e31	e35	184	51	25	12	5.7	10	4.5
8	17	49	69	e30	e34	251	54	24	11	5.3	7.6	4.0
9	18	e46	60	30	e33	140	55	23	11	5.5	6.6	9.4
10	22	e44	61	28	e32	e130	57	26	10	5.3	5.9	7.9
11	20	e40	e70	29	e31	106	55	27	10	4.9	5.9	5.6
12	19	e38	e50	e55	e30	129	57	36	11	4.8	11	4.9
13	18	e36	e47	e95	e30	137	89	28	11	4.5	9.2	4.8
14	17	e35	50	73	e29	114	67	24	9.3	4.3	6.7	8.6
15	17	e34	48	76	e28	101	57	24	8.5	6.6	6.4	6.0
16	18	e33	45	97	e28	91	51	22	8.0	5.8	6.5	5.0
17	17	e32	50	75	e27	84	47	21	7.6	8.9	5.6	4.5
18	16	e31	55	59	e26	77	44	20	7.4	16	5.2	4.7
19	17	e30	52	53	e28	68	43	20	7.0	5.8	4.9	4.6
20	21	e30	46	69	33	61	41	19	6.8	5.2	4.5	4.6
21	23	e40	43	107	36	65	41	18	6.4	5.5	4.6	5.0
22	19	37	42	88	30	62	46	17	6.3	5.4	4.0	7.6
23	17	30	41	69	32	57	43	16	6.3	5.4	4.1	8.3
24	16	27	41	62	47	52	38	17	6.2	6.1	4.1	5.9
25	15	29	40	57	41	46	35	19	5.6	6.7	4.0	5.3
26	15	28	37	54	e48	44	34	17	5.5	14	4.1	5.4
27	17	23	34	50	56	41	32	15	6.8	12	4.3	5.2
28	15	51	36	49	118	40	63	15	5.9	8.5	4.4	4.7
29	14	52	33	56	---	38	42	20	5.8	6.4	4.1	4.7
30	14	38	29	58	---	40	36	18	5.4	5.3	3.8	4.7
31	22	---	36	57	---	39	---	16	---	4.7	6.3	---
TOTAL	582	1818	1508	1691	1067	2521	1464	706	315.8	209.3	253.4	168.5
MEAN	18.8	60.6	48.6	54.5	38.1	81.3	48.8	22.8	10.5	6.75	8.17	5.62
MAX	28	386	92	107	118	251	89	36	41	16	53	9.4
MIN	14	23	29	25	26	38	32	15	5.4	4.3	3.8	4.0
CFSM	.58	1.88	1.51	1.69	1.18	2.53	1.52	.71	.33	.21	.25	.17
IN.	.67	2.10	1.74	1.95	1.23	2.91	1.69	.82	.36	.24	.29	.19

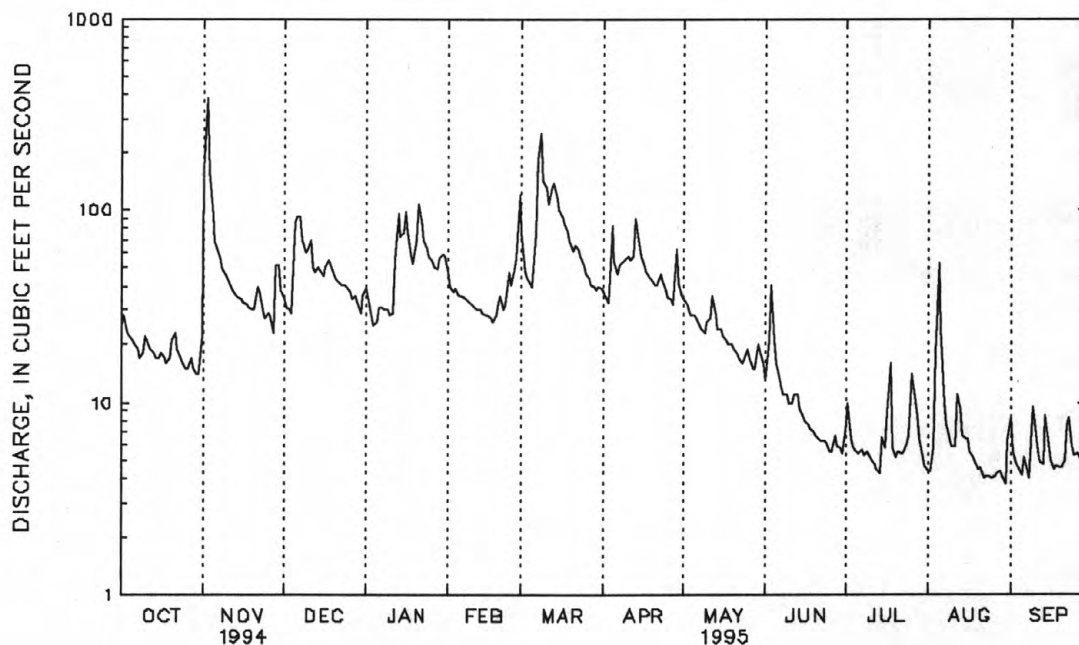
e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
MEAN	28.9	45.4	56.0	52.8	66.4	102	112	51.7	32.0	20.5	13.8	17.1
MAX	138	124	145	127	191	198	377	106	200	71.6	45.7	66.6
(WY)	1978	1973	1973	1979	1976	1977	1993	1990	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

STREAMS TRIBUTARY TO LAKE ONTARIO
04245200 BUTTERNUT CREEK NEAR JAMESVILLE, NY--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1958 - 1995	
ANNUAL TOTAL	21664.6		12304.0			
ANNUAL MEAN	59.4		33.7		49.7	
HIGHEST ANNUAL MEAN					82.6	
LOWEST ANNUAL MEAN					24.2	
HIGHEST DAILY MEAN	643	Mar 25	386	Nov 2	1260	Oct 28 1981
LOWEST DAILY MEAN	8.3	Aug 12	3.8	Aug 30	3.0	Sep 27 1959
ANNUAL SEVEN-DAY MINIMUM	9.3	Aug 7	4.1	Aug 24	3.4	Sep 17 1964
INSTANTANEOUS PEAK FLOW			537	Nov 2	2820	Jul 3 1974
INSTANTANEOUS PEAK STAGE			7.35	Nov 2	8.46	Oct 28 1981
INSTANTANEOUS LOW FLOW			3.3	Sep 8	2.0	Sep 27 1959
ANNUAL RUNOFF (CFSM)	1.84		1.05		1.54	
ANNUAL RUNOFF (INCHES)	25.03		14.21		20.97	
10 PERCENT EXCEEDS	115		68		102	
50 PERCENT EXCEEDS	33		28		30	
90 PERCENT EXCEEDS	14		5.2		7.6	



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

237

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 Huriburt Road and Meadowbrook Drive, and 2.3 mi upstream from mouth.

PERIOD OF RECORD.--December 1970 to March 1973, April 1973 to September 1978 (annual maximum only), October 1978 to current year.

REMARKS.--Records fair. Flow includes storm sewer inflow, some originating outside the basin. Several measurements of water temperature were made during the year.

Date	Time	Discharge (ft ³ /s)	Gage Height (ft)	Date	Time	Discharge (ft ³ /s)	Gage Height (ft)
Aug. 15	2015	*278	*5.11	Aug. 31	1745	110	3.11

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	14	.93	e1.6	e1.3	e2.0	1.3	1.2	.82	e.85	.84	1.7
2	.82	10	.93	e1.5	e1.3	e1.5	1.3	1.2	3.0	e.75	.95	.86
3	.68	1.1	.91	e1.2	e1.2	e1.4	2.6	1.2	1.2	e1.2	3.1	.84
4	.68	.93		e1.1	e1.2	e1.4	3.7	1.1	.84	.76	3.2	.84
5	.69	1.2	12	e1.0	e1.1	e1.5	1.9	1.2	.80	.77	9.1	.84
6	.63	.98	2.0	e1.0	e1.1	e7.3	1.5	1.1	.79	.77	1.5	.87
7	.60	1.0	3.6	e1.0	e1.1	e14	1.5	1.1	.78	.79	.94	1.0
8	.63	.99	1.6	e1.0	e1.1	e10	1.4	1.1	.77	.84	.89	.97
9	.91	1.1	1.8	e1.0	e1.1	e2.5	2.5	1.1	.82	.84	.92	7.9
10	.78	.96	1.9	e1.0	e1.1	e2.0	1.9	2.1	.84	.84	.93	.96
11	.64	.96	2.8	e1.0	e1.2	e1.6	1.5	2.0	.84	.83	.93	.84
12	.64	.97	1.3	e6.8	e1.1	e1.8	3.8	1.2	.94	.85	2.6	.84
13	.67	1.0	1.2	e4.4	e1.1	e2.4	3.1	1.2	.90	1.0	1.0	2.0
14	.67	1.0	1.1	e1.8	e1.1	e2.0	1.6	1.1	.91	1.9	1.0	2.7
15	.67	.97	1.1	e2.2	e1.1	e1.8	1.5	1.1	e.90	1.1	20	.83
16	.67	.98	1.1	e2.4	e1.1	e1.6	1.5	1.0	e.85	.96	8.6	.77
17	.70	1.0	1.4	e1.6	e1.1	e2.0	1.4	1.0	e.90	1.6	.82	.90
18	.69	1.0	1.2	e1.3	e1.1	e1.8	1.3	1.0	e.85	1.2	.71	.81
19	.82	1.0	1.3	e1.3	e1.1	e1.6	1.3	1.1	e.80	.92	.69	.76
20	1.2	1.0	e1.3	e2.2	e1.1	e1.5	1.2	1.0	e.80	.93	.68	.85
21	.69	3.0	e1.2	e2.9	e1.3	e2.0	1.3	1.1	e.85	.93	.70	.86
22	.56	1.0	e1.2	e1.8	e1.1	e1.9	1.4	1.1	e.80	1.1	.68	3.3
23	.63	1.1	e1.2	e1.4	e1.5	e1.7	1.2	1.1	e.80	1.9	.68	.99
24	.60	1.1	e1.2	e1.5	e2.0	e1.6	1.2	1.5	e.75	1.1	.70	.76
25	.60	1.1	e1.1	e1.4	e1.4	e1.5	1.2	1.2	e.75	.90	.72	.76
26	.61	1.1	e1.1	e1.3	e1.2	e1.5	1.3	1.1	e1.3	4.0	.75	.77
27	.61	1.1	e1.1	e1.3	e2.2	e1.4	1.6	1.5	e1.0	1.3	.76	.76
28	.61	3.0	e1.1	e1.2	e6.5	e1.4	3.6	2.1	e.85	.94	.76	.79
29	.69	1.1	e1.0	e1.2	---	1.3	1.2	1.4	e.80	.94	.75	.76
30	.73	.89	e1.0	e1.1	---	1.6	1.2	1.0	e.75	.94	.76	.80
31	4.0	---	e1.3	e1.2	---	1.3	---	.89	---	.96	6.7	---
TOTAL	25.22	56.63	52.90	52.7	39.9	78.9	53.0	38.09	28.00	34.71	73.36	38.63
MEAN	.81	1.89	1.71	1.70	1.42	2.55	1.77	1.23	.93	1.12	2.37	1.29
MAX	4.0	14	12	6.8	6.5	14	3.8	2.1	3.0	4.0	20	7.9
MIN	.56	.89	.91	1.0	1.1	1.3	1.2	.89	.75	.75	.68	.76
CFSM	.28	.65	.59	.59	.49	.88	.61	.42	.32	.39	.82	.44
IN.	.32	.73	.68	.68	.51	1.01	.68	.49	.36	.45	.94	.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1995, BY WATER YEAR (WY)

MEAN	1.60	1.94	2.17	1.89	2.41	3.88	3.22	2.51	2.25	1.81	1.39	1.57
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

STREAMS TRIBUTARY TO LAKE ONTARIO
04245236 MEADOW BROOK AT HURLBURT ROAD, SYRACUSE, NY--Continued

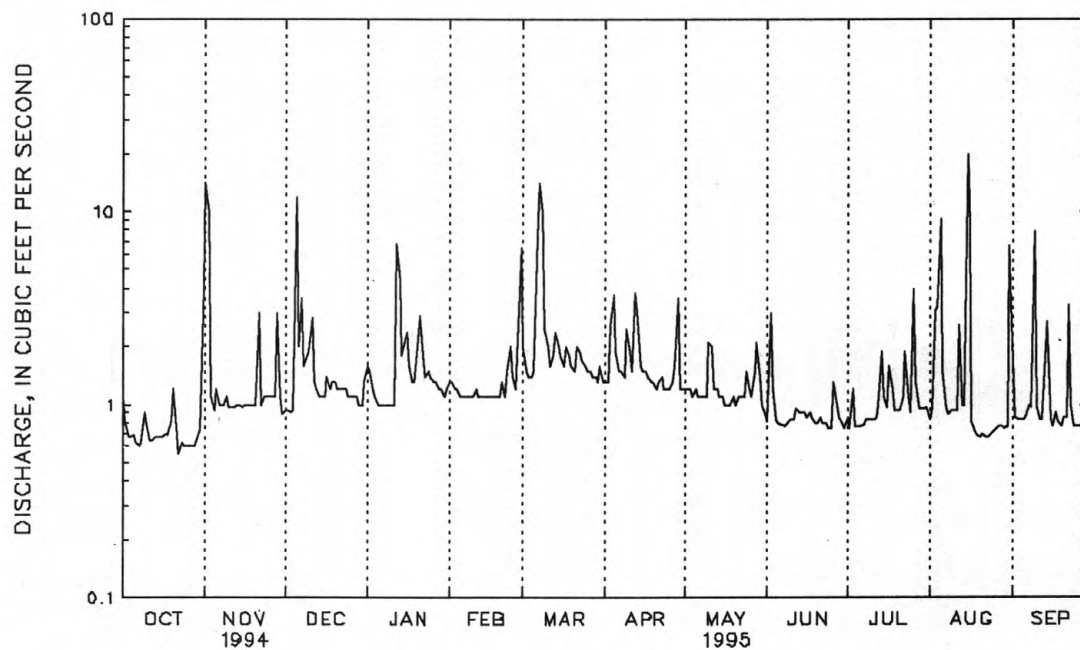
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1971 - 1995	
ANNUAL TOTAL	847.74		572.04			
ANNUAL MEAN	2.32		1.57		2.24	
HIGHEST ANNUAL MEAN					3.27	
LOWEST ANNUAL MEAN					1.27	
HIGHEST DAILY MEAN	22	Feb 20	20	Aug 15	84	Oct 28 1981
LOWEST DAILY MEAN	.56	Oct 22	.56	Oct 22	.04	a
ANNUAL SEVEN-DAY MINIMUM	.60	Oct 22	.60	Oct 22	.04	Oct 13 1971
INSTANTANEOUS PEAK FLOW			278	Aug 15	b418	Jul 3 1974
INSTANTANEOUS PEAK STAGE			5.11	Aug 15	6.51	Jul 3 1974
INSTANTANEOUS LOW FLOW			.53	c	.02	d
ANNUAL RUNOFF (CFSM)	.80		.54		.77	
ANNUAL RUNOFF (INCHES)	10.87		7.34		10.52	
10 PERCENT EXCEEDS	4.8		2.3		4.1	
50 PERCENT EXCEEDS	1.4		1.1		1.4	
90 PERCENT EXCEEDS	.76		.75		.46	

a Oct. 13-21, 1971.

b From rating curve extended above 47 ft³/s on basis of computation of peak flow through culvert at gage heights 5.31 ft and 6.51 ft.

c Oct. 7, 21-25, 28.

d Sep. 11, 1972, Aug. 24, 1990.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
04246000 ONEIDA LAKE AT BREWERTON, NY

239

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 mi², 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 mi²; axes, 20.9 mi by 5.5 mi; shoreline length, 54.7 mi.

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, 370.02 ft, Oct. 1; minimum daily, 367.02 ft, Feb. 24, 26.

ELEVATION (FEET ABOVE SEA LEVEL), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	370.02	369.42	368.91	367.67	367.81	367.05	368.36	369.72	369.83	369.64	369.77	369.41
2	369.90	369.42	368.87	367.55	367.76	367.07	368.46	369.74	369.81	369.56	369.75	369.47
3	369.86	369.82	368.86	367.55	367.72	367.09	368.58	369.67	369.82	369.62	369.79	369.49
4	369.81	369.86	368.79	367.43	367.67	367.08	368.29	369.69	369.78	369.66	369.82	369.49
5	369.71	369.82	368.82	367.48	367.62	367.08	368.42	369.66	369.80	369.64	369.83	369.45
6	369.64	369.76	368.92	367.47	367.58	367.09	368.80	369.57	369.79	369.60	369.84	369.49
7	369.60	369.66	369.07	367.42	367.54	367.17	368.75	369.57	369.77	369.64	369.83	369.44
8	369.57	369.85	369.11	367.38	367.48	367.34	368.92	369.55	369.69	369.56	369.77	369.49
9	369.50	369.77	369.23	367.33	367.44	367.54	368.92	369.61	369.72	369.57	369.76	369.50
10	369.39	369.67	369.16	367.30	367.41	367.65	369.00	369.75	369.75	369.58	369.74	369.46
11	369.42	369.61	368.86	367.28	367.34	367.73	369.15	369.81	369.69	369.58	369.71	369.51
12	369.47	369.58	369.01	367.24	367.31	367.77	369.21	369.72	369.66	369.57	369.70	369.55
13	369.47	369.45	369.01	367.23	367.28	367.81	369.26	369.78	369.68	369.57	369.72	369.51
14	369.46	369.42	368.87	367.30	367.24	367.89	369.39	369.89	369.66	369.61	369.77	369.52
15	369.47	369.21	368.77	367.43	367.23	367.99	369.43	369.74	369.67	369.59	369.75	369.57
16	369.41	369.19	368.79	367.66	367.17	368.11	369.57	369.82	369.70	369.68	369.77	369.65
17	369.43	369.20	368.63	367.94	367.15	368.23	369.69	369.87	369.69	369.67	369.78	369.58
18	369.47	369.14	368.50	368.17	367.13	368.34	369.75	369.81	369.68	369.65	369.73	369.52
19	369.47	368.78	368.43	368.22	367.10	368.42	369.67	369.82	369.68	369.62	369.75	369.57
20	369.42	368.85	368.39	368.23	367.07	368.45	369.68	369.84	369.69	369.65	369.67	369.61
21	369.41	369.01	368.34	368.18	367.05	368.47	369.79	369.82	369.74	369.64	369.57	369.56
22	369.43	368.54	368.27	368.19	367.05	368.48	369.58	369.79	369.74	369.68	369.52	369.55
23	369.46	368.59	368.19	368.19	367.04	368.52	369.63	369.86	369.70	369.64	369.54	369.53
24	369.40	368.76	368.07	368.19	367.02	368.50	369.66	369.83	369.68	369.67	369.45	369.59
25	369.36	368.73	368.03	368.17	367.04	368.44	369.67	369.87	369.67	369.71	369.47	369.64
26	369.34	368.71	368.01	368.10	367.02	368.45	369.62	369.86	369.72	369.73	369.49	369.59
27	369.32	369.00	367.98	368.10	367.04	368.42	369.67	369.85	369.83	369.76	369.46	369.57
28	369.33	369.04	367.83	368.06	367.03	368.39	369.66	369.97	369.70	369.79	369.50	369.58
29	369.32	368.76	367.71	368.00	---	368.33	369.69	369.83	369.64	369.73	369.41	369.67
30	369.29	368.87	367.78	367.93	---	368.32	369.72	369.82	369.63	369.74	369.42	369.63
31	369.32	---	367.72	367.87	---	368.29	---	369.85	---	369.78	369.46	---
MEAN	369.50	369.25	368.55	367.75	367.30	367.92	369.27	369.77	369.72	369.65	369.66	369.54
MAX	370.02	369.86	369.23	368.23	367.81	368.52	369.79	369.97	369.83	369.79	369.84	369.67
MIN	369.29	368.54	367.71	367.23	367.02	367.05	368.29	369.55	369.63	369.56	369.41	369.41

WTR YR 1995 MEAN 369.00 MAX 370.02 MIN 367.02

STREAMS TRIBUTARY TO LAKE ONTARIO
04246500 ONEIDA RIVER AT CAUGHDENY, NY

LOCATION.--Lat 43°14'49", long 76°10'12", Oswego County, Hydrologic Unit 04140202, on left bank at point of diversion to New York State Erie (Barge) Canal, 1.6 mi downstream from Oneida Lake, and 2.6 mi upstream from navigation dam at Caughdeny.

DRAINAGE AREA.--1,382 mi²; 1902-9, 1,439 mi².

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.--Records fair. Jan. 1, 1910 to Dec. 31, 1912: Flow over dam computed on basis of coefficient determined for model of dam of same general type; flow through gate and diversion through lock culverts estimated by theoretical calculations.

1947 to current year: Record represents total discharge at Caughdeny, including flow in Oneida and Erie (Barge) Canals. Considerable seasonal regulation by operation of gates in Oneida and Erie (Barge) Canals with a large amount of natural storage in Oneida Lake. Occasional large diurnal fluctuations caused by seiche in Oneida Lake. Water may be diverted into or received from Mohawk River basin through summit level of Erie (Barge) Canal between

New London and Utica. Nearly all of flow from 14 mi² 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2660	914	2490	2430	2640	1780	302	1430	1960	275	284	215
2	2990	1680	2860	2260	2600	1810	267	1460	1820	311	298	214
3	2950	2580	2860	2270	2570	1840	288	1460	1630	262	343	203
4	2930	3430	2840	2110	2520	1860	257	1460	1720	271	973	199
5	2900	3940	e3610	2150	2480	1870	235	1460	1560	303	2000	185
6	2870	3880	4080	2160	2450	1890	224	1480	1320	336	1190	184
7	2850	3820	4320	2110	2420	1910	227	1480	999	245	1040	189
8	1960	3960	4390	2060	2370	1900	277	990	810	275	206	178
9	1710	3920	4690	2010	2280	2230	250	562	838	314	189	206
10	1670	3880	4600	1990	2180	2380	243	580	854	309	193	214
11	960	3860	4120	1970	2130	2500	237	598	845	254	235	193
12	566	3830	4360	1940	2070	2570	233	585	443	253	248	201
13	565	3740	4350	1920	2040	2620	306	591	210	253	191	189
14	573	3730	4130	1960	2010	2710	344	588	204	303	189	207
15	564	3640	3960	2090	1980	2840	354	750	216	361	224	191
16	563	3620	4000	2400	1900	2980	321	884	241	255	297	196
17	554	3600	3760	2780	1830	3120	656	877	247	277	1010	183
18	558	e3460	3560	3100	1800	3260	1550	862	244	273	1490	170
19	894	3440	3460	3190	1770	3380	1710	856	238	274	1480	176
20	1120	2750	3400	3220	1740	3460	1710	853	230	301	1460	171
21	1110	e2090	3340	3120	1730	3510	1870	867	240	327	752	163
22	1110	e2110	3240	3140	1720	3560	2130	823	235	329	222	167
23	1120	e1990	3120	3140	1720	3590	2110	810	232	263	199	187
24	1120	1980	2980	3140	1710	3630	1930	799	234	223	177	193
25	1110	e1990	2920	3100	1710	3640	1650	810	227	238	198	184
26	1100	e2000	2900	3040	1730	3640	1650	1000	248	278	202	223
27	1100	e1920	2860	2990	1740	3650	1530	1160	242	307	208	219
28	1000	e2120	2660	2950	1760	3650	1430	1170	235	255	228	193
29	937	e1980	2480	2880	---	3420	1430	1160	246	266	225	189
30	945	e2010	2560	2790	---	2610	1430	1590	272	275	203	188
31	905	---	2490	2710	---	e1410	---	2020	---	269	208	---
TOTAL	43964	87864	107390	79120	57600	85220	27151	32015	19040	8735	16362	5770
MEAN	1418	2929	3464	2552	2057	2749	905	1033	635	282	528	192
MAX	2990	3960	4690	3220	2640	3650	2130	2020	1960	361	2000	223
MIN	554	914	2480	1920	1710	1410	224	562	204	223	177	163

e Estimated

STREAMS TRIBUTARY TO LAKE ONTARIO
04246500 ONEIDA RIVER AT CAUGHDENY, NY--Continued

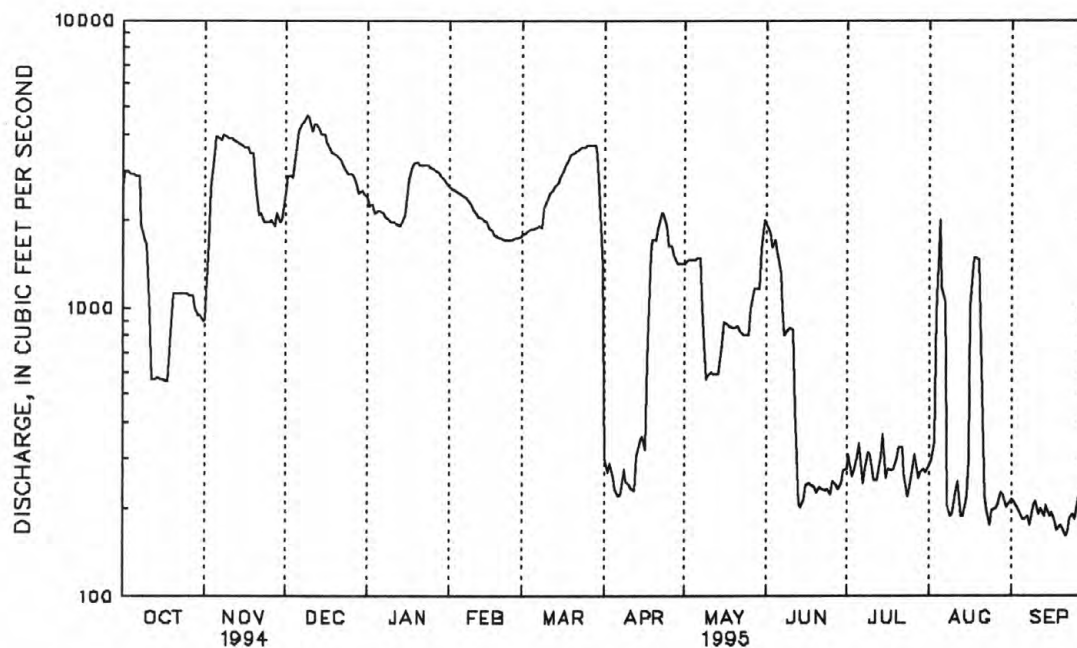
241

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1995, BY WATER YEAR (WY)

MEAN	1560	2609	3739	2929	2642	3595	5213	2966	1565	1104	789	1098
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1948 - 1995	
ANNUAL TOTAL	983633		570231		2481	
ANNUAL MEAN	2695		1562		1562	
HIGHEST ANNUAL MEAN					3777	
LOWEST ANNUAL MEAN					1562	
HIGHEST DAILY MEAN (1903-1912)					13800	
HIGHEST DAILY MEAN (1948-1995)	10600	Apr 18	4690	Dec 9	11300	a Apr 24 1993
LOWEST DAILY MEAN (1903-1912)					52	
LOWEST DAILY MEAN (1948-1995)	186	Sep 4	163	Sep 21	62	Oct 24 1910
ANNUAL SEVEN-DAY MINIMUM	267	Aug 9	174	Sep 17	72	Jul 29 1950
10 PERCENT EXCEEDS	6400		3460		5250	Jul 28 1950
50 PERCENT EXCEEDS	2010		1460		2080	
90 PERCENT EXCEEDS	494		208		302	

a Mar. 25, 26, 27, 1903.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO

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 mi².

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.--No estimated daily discharges. Records good. Prior to 1933 and subsequent to 1972, flow in Oswego (Barge) Canal not included. A large amount of natural storage and some artificial regulation is afforded by the many large lakes and the Erie (Barge) and Oswego (Barge) Canal systems in the river basin. Large diurnal fluctuations at low and medium flow caused by powerplants upstream from station. Oswego River basin receives water from Erie (Barge) Canal through Lock 32 near Pittsford. Water may be diverted into or received from Mohawk River basin through Erie (Barge) Canal between New London and Utica. During part of year, entire flow from 45.5 mi² 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 mi² 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 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5700	3270	8000	4290	7490	6110	2180	3060	2800	895	832	863
2	6300	6960	8920	4200	6970	7760	1890	2990	2510	1160	889	834
3	6250	9330	8790	4790	6110	7520	1460	2520	2880	1960	1760	676
4	5790	10100	8470	4400	3270	7460	2450	2660	3620	789	1200	783
5	6220	10600	8890	3360	4100	7210	2260	2910	2900	838	2970	624
6	6300	10400	10600	3370	5040	7380	2530	2920	2370	1650	3820	662
7	6490	10200	11100	3830	5130	8760	1450	2970	2490	1290	3230	755
8	5910	10000	11000	3720	4630	13500	1650	2820	1720	851	1640	681
9	4220	9830	11200	3490	4230	12700	2770	2050	1400	850	1920	701
10	4210	9420	11100	3380	3860	11600	2530	1530	1080	1800	1630	670
11	3100	9500	10900	3560	3670	11100	2950	1570	2120	1160	1040	794
12	2390	9590	11000	4010	3170	10600	2010	2370	1430	740	1460	844
13	2620	9480	10600	6160	3710	11000	2710	1290	858	885	1310	866
14	2600	9080	10200	6470	4660	11600	3030	2090	961	853	741	696
15	2530	8160	9870	7380	4080	11700	3350	2110	430	1060	775	893
16	2190	9260	9670	6920	4020	11200	3320	1590	641	2180	2140	815
17	2270	9020	9750	7380	4030	11100	2660	966	879	837	1170	635
18	2300	8840	9680	7750	4720	10900	2940	1160	757	806	2080	939
19	2220	8630	9930	8120	4650	10500	2830	1880	791	787	3090	823
20	1850	8540	9780	8620	2940	9820	3370	1680	831	919	2800	673
21	1920	7800	9210	8750	3870	9480	3910	1000	762	1190	2950	714
22	1870	7580	8950	9010	4370	9450	3970	1830	637	1320	1870	749
23	1950	7830	8440	8770	4770	8710	4340	1840	692	1740	1240	821
24	2110	7380	6820	9320	4080	8180	3880	1050	833	713	712	748
25	2090	7510	6080	8920	4700	6960	3080	1080	803	814	682	719
26	1930	7460	5190	8590	4750	6270	2860	2050	675	625	669	764
27	1340	7440	3900	8270	4740	5960	2520	2150	964	1090	695	844
28	1040	7650	3780	8170	5760	5360	2900	1420	964	1870	876	888
29	1960	7950	3800	8120	---	5290	2550	1770	806	847	741	672
30	1700	7730	4420	7860	---	4170	2370	2160	896	814	771	650
31	2130	---	4220	7800	---	3040	---	2310	---	1170	849	---
TOTAL	101500	256540	264260	198780	127520	272390	82720	61796	41500	34503	48552	22796
MEAN	3274	8551	8525	6412	4554	8787	2757	1993	1383	1113	1566	760
MAX	6490	10600	11200	9320	7490	13500	4340	3060	3620	2180	3820	939
MIN	1040	3270	3780	3360	2940	3040	1450	966	430	625	669	624

STREAMS TRIBUTARY TO LAKE ONTARIO
04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

243

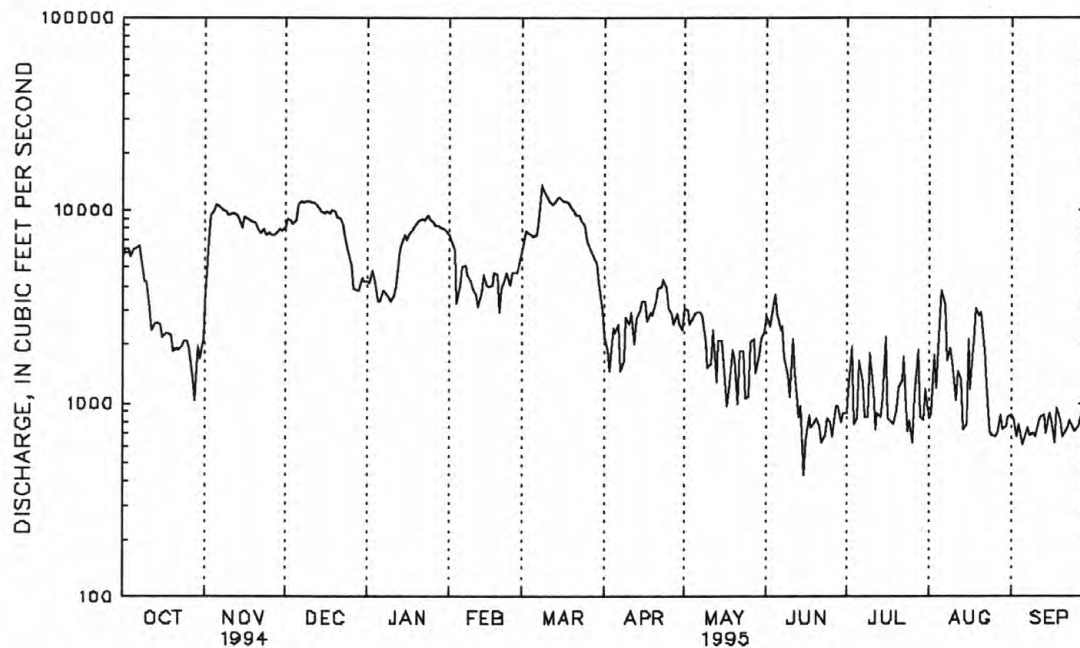
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1995, BY WATER YEAR (WY)

MEAN	3842	5998	8365	7800	7701	11590	13300	8156	5024	3444	2535	2711
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 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1934 - 1995	
ANNUAL TOTAL	2795555		1512857			
ANNUAL MEAN	7659		4145		6742	
HIGHEST ANNUAL MEAN					11030	
LOWEST ANNUAL MEAN					3433	
HIGHEST DAILY MEAN	27500	Apr 18	13500	Mar 8	37000	Mar 28 1936
LOWEST DAILY MEAN	520	Aug 13	430	Jun 15	261	Sep 18 1985
ANNUAL SEVEN-DAY MINIMUM	975	Aug 7	697	Sep 4	697	Sep 4 1995
INSTANTANEOUS PEAK FLOW			17000	Mar 8	a37500	Mar 28 1936
INSTANTANEOUS PEAK STAGE			8.56	Mar 8	13.46	Apr 10 1940
INSTANTANEOUS LOW FLOW			168	Aug 25	b30	Nov 6 1944
10 PERCENT EXCEEDS	19800		9490		14200	
50 PERCENT EXCEEDS	5660		2920		5070	
90 PERCENT EXCEEDS	1840		785		1610	

a Includes daily mean discharge of canals.

b River only.



DAILY MEAN DISCHARGE FOR -- 1995 WATER YEAR

STREAMS TRIBUTARY TO LAKE ONTARIO
LAKES AND RESERVOIRS IN STREAMS TRIBUTARY TO LAKE ONTARIO

04224000	MOUNT MORRIS LAKE NEAR MOUNT MORRIS, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).
04227980	CONESUS LAKE NEAR LAKEVILLE, NY (see station for daily mean elevation).
04228845	HONEOYE LAKE NEAR HONEOYE, NY (see station for daily mean elevation).
04232400	SENECA LAKE AT WATKINS GLEN, NY (see station for daily mean elevation).
04232450	KEUKA INLET (KEUKA LAKE) AT HAMMONDSPORT, 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).
04236000	SKANEATELES LAKE AT SKANEATELES, NY (see station for daily elevation).
04238500	ONONDAGA RESERVOIR NEAR NEDROW, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).
04240495	ONONDAGA LAKE AT LIVERPOOL, NY (see station for daily mean elevation).
04246000	ONEIDA LAKE AT BREWERTON, NY (see station for daily mean elevation).

LAKE ONTARIO

245

04249010 LAKE ONTARIO AT OSWEGO, NY

LOCATION.--Lat 43°27'51", long 76°30'42" Oswego County, Hydrologic Unit 04150200, in southwest corner of Port of Oswego Authority building at mouth of Oswego River at Oswego.

DRAINAGE AREA.--295,800 mi².

PERIOD OF RECORD.--January 1860 to March 1995 (discontinued). Records prior to October 1960 in files of Lake Survey Center.

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 Jan. 1, 1933, nonrecording gages.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 249.49 ft, present datum, June 6, 1952; minimum observed, 241.47 ft, present datum, Dec. 23, 1934.

EXTREMES FOR CURRENT PERIOD.-- October 1994 to March 1995: Maximum elevation during period Oct. 1 to Mar. 31, 245.51 ft, Feb.5; minimum, 243.98 ft, Jan. 11.

ELEVATION (FEET IGLD), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	245.23	244.57	244.39	244.35	245.19	245.09	---	---	---	---	---	---
2	245.25	244.83	244.41	244.54	245.17	245.10	---	---	---	---	---	---
3	245.19	244.59	244.32	244.36	245.10	245.01	---	---	---	---	---	---
4	245.17	244.57	244.37	244.47	245.20	245.00	---	---	---	---	---	---
5	245.14	244.63	244.41	244.42	245.44	244.92	---	---	---	---	---	---
6	245.07	244.78	244.50	244.18	245.35	245.00	---	---	---	---	---	---
7	245.00	244.79	244.49	244.30	245.22	244.90	---	---	---	---	---	---
8	244.96	244.68	244.47	244.31	245.29	245.20	---	---	---	---	---	---
9	245.02	244.73	244.40	244.34	245.30	245.24	---	---	---	---	---	---
10	245.08	244.76	244.44	244.21	245.14	245.13	---	---	---	---	---	---
11	244.97	244.69	244.72	244.13	245.41	245.05	---	---	---	---	---	---
12	244.91	244.61	244.48	244.17	245.40	245.06	---	---	---	---	---	---
13	244.86	244.62	244.44	244.22	245.28	245.10	---	---	---	---	---	---
14	244.84	244.57	244.44	244.18	245.23	245.11	---	---	---	---	---	---
15	244.78	244.65	244.40	244.28	245.04	245.14	---	---	---	---	---	---
16	244.72	244.55	244.31	244.48	245.23	245.14	---	---	---	---	---	---
17	244.67	244.48	244.39	244.50	245.19	245.20	---	---	---	---	---	---
18	244.65	244.47	244.46	244.47	245.14	245.17	---	---	---	---	---	---
19	244.64	244.62	244.47	244.51	245.13	245.13	---	---	---	---	---	---
20	244.70	244.48	244.43	244.60	245.13	245.07	---	---	---	---	---	---
21	244.71	244.37	244.40	244.77	245.20	245.19	---	---	---	---	---	---
22	244.67	244.81	244.41	244.86	245.12	245.26	---	---	---	---	---	---
23	244.62	244.69	244.45	244.91	245.09	245.26	---	---	---	---	---	---
24	244.64	244.48	244.50	245.01	245.36	245.27	---	---	---	---	---	---
25	244.63	244.55	244.42	245.03	245.12	245.30	---	---	---	---	---	---
26	244.64	244.48	244.38	245.12	245.00	245.25	---	---	---	---	---	---
27	244.61	244.23	244.37	245.09	244.97	245.20	---	---	---	---	---	---
28	244.54	244.42	244.46	245.07	245.09	245.17	---	---	---	---	---	---
29	244.52	244.53	244.48	245.04	---	245.15	---	---	---	---	---	---
30	244.52	244.48	244.31	245.10	---	245.16	---	---	---	---	---	---
31	244.46	---	244.27	245.16	---	245.20	---	---	---	---	---	---
MEAN	244.82	244.59	244.43	244.59	245.20	245.13	---	---	---	---	---	---
MAX	245.25	244.83	244.72	245.16	245.44	245.30	---	---	---	---	---	---
MIN	244.46	244.23	244.27	244.13	244.97	244.90	---	---	---	---	---	---

CAL YR 1994 MEAN 245.27 MAX 246.53 MIN 244.23

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 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (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 Green- bush Road, 1.2 mi south of Westford, and 2.2 mi upstream from mouth. Drainage area is 3.73 mi ² .	1978-95	12- 5-94	15.50	60	10-17-77	18.54	202
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‡	3- 9-95	8.26	7,360	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‡	3- 8-95	7.59	4,080	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 .	1988-95	3- 9-95	11.02	13,600	3-31-93	20.17	36,600
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 .	1988-95	3- 9-95	10.80	13,500	4- 1-93	19.45	37,200
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, 1967-95	3- 8-95	6.28	366	3- 6-64	8.12	2,350

‡ Operated as a continuous-record gaging station.

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)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (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‡	3- 8-95	5.94	1,770	3- 6-79 12-30-42	9.94 9.99	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‡, 1971-95	3- 8-95	8.62	4,230	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 .	1988-95	11- 1-94	4.64	4,560	4-10-93	9.31	12,100
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, 1983-95	11- 2-94	0.94	200	11-11-90	4.65	1,120
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 up- stream from mouth. Drainage area is 730 mi ² .	1930-67‡, 1968-95	3- 8-95	6.14	9,170	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, 1974-95	3- 9-95	13.80	25,400	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 .	1988-95	3- 9-95	21.64	27,800	3-18-36 4-11-93	g 31.97	107,000 76,300

‡ 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)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (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 Catonk Creek, and 1.5 mi north of Owego. Drainage area is 185 mi ² .	1930-78‡, 12- 5-94 1979-95		5.01	2,990	7- 8-35	11.50	23,500
Catonk 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 .	1988-95	11- 2-94	7.85	1,740	10-24-90	12.41	5,560
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‡	3- 9-95	8.82	30,300	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‡	3- 9-95	12.03	10,700	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 .	1977-95	1-20-95	14.04	c	9-13-87	16.04	580
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‡, 1-20-95 1937-70‡, 12.98 1971-72, 8,210 1974-95				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 .	1989-95	1-20-95	10.06	9,540	10-23-91	10.96	11,800

‡ Operated as a continuous-record gaging station.

c Discharge not determined.

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)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (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‡, 1982-95	1-20-95	4.92	299	6-23-72	9.82	2,260
			4-24-91	5.37	R412			
			3-27-92	4.57	R225			
			3-24-94	5.58	R470			
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 down- stream from Harrisburg Hollow Creek. Drainage area is 340 mi ² .	1988-95	11- 2-94	8.19	4,460	4- 1-93	10.18	7,000
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 Eachers 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, 1983-95	5-12-95	14.69	278	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 .	1988-95	1-21-95	11.79	29,700	3-25-94	14.06	41,600
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, 1983-95	3- 7-95	8.58	100	9-14-79	10.59	570
Olean Creek near Olean, NY (03010800)	Lat 42°07'12", long 78°25'12", Cattaraugus County, Hydrologic Unit 05010001, on left bank at upstream side of highway bridge, 1,000 ft west of State Highway 16, 1.4 mi northeast of Olean, and 4.6 mi upstream from mouth. Drainage area is 198 mi ² .	1958-68‡, 1969-95	11- 1-94	6.92	2,860	9-29-67	16.06	18,200

‡ Operated as a continuous-record gaging station.

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 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
ALLEGHENY RIVER BASIN--Continued								
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‡, 1975-95	11-2-94 1-20-95	15.35 14.75	h c	9-14-79	21.88	2,000
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, 1987-95	1-20-95	3.67	c	1-29-94 12-30-90	5.60 5.33	a c
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 .	1963-95	3- 7-95	6.10	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 down- stream 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 .	1985-95	3- 7-95	6.45	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 .	1985-95	11-17-94 1-12-95	h5.96 h5.96	d 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‡, 1995	2- 6-95 3- 3-95	7.53 5.06	a 480	6-23-89	16.99	2,900

‡ Operated as a continuous-record gaging station.

§ Operated as a low-flow partial-record station.

a Ice jam.

b Miscellaneous measurements made.

c Discharge not determined.

d No stage-discharge relationship defined at this site.

h Backwater.

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)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
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 down- stream from dam at Lyndonville, and 4.4 mi upstream from mouth. Drainage area is 87.7 mi ² .	1962-70, 1972-73, 1976-95	1-21-95	6.75	1,750	2-17-54 3-12-62	^g 10.29	5,430 3,540
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 .	1989-95	8- 3-95 11-2-92 6-24-94	3.38 3.40 4.30	93.0 R94.5 R171	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, 1995	3- 7-95	9.19	168	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, 1975-95	1-20-95	11.47	66	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‡, 1987-94	1-21-95	5.40	513	9-26-75 12-19-75	6.40 7.52	1,680 a
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 .	1966-95	3-23-95	4.75	532	7-31-92 3-23-94	4.97 4.75	511 532
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 Burt 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, 1975-95	11- 1-94	<7.96	<1,920	6-23-72	14.60	11,800

‡ Operated as a continuous-record gaging station.

§ Operated as a low-flow partial-record station.

a Ice jam.

g None available.

< Less than.

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 1995 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued								
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 .	1983-95	11- 1-94 3- 8-95	17.97 19.70	42 a	10-23-90	20.87	530
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 .	1980-95	3- 8-95	8.28	36	3- 5-79 3-30-93	g 12.84	520 332
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 down- stream 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, 1976-95	1-21-95	4.75	710	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 .	1978-95	3- 7-95	<5.41	<33	1-20-86	7.22	97
Limestone Creek at Fayetteville, NY (04245000)	Lat 43°01'48", long 76°00'49", Onondaga County, Hydrologic Unit 04140202, on left bank, 100 ft downstream from bridge on Genesee Street at Fayette- ville, and 8 mi upstream from mouth. Drainage area is 85.5 mi ² .	1940-86‡, 1987-95	11- 2-94	3.34	698	10-28-81	10.14	7,490
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, 1971-95	1-16-95	4.37	340	9-26-75	7.33	1,310
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, 1968-95	11- 2-94	4.63	325	3-18-73	7.85	1,350

‡ Operated as a continuous-record gaging station.

a Ice jam.

g None available.

< Less than.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1995--Continued

Discharge measurements made at miscellaneous sites during water year 1995. Continued						
Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
SUSQUEHANNA RIVER BASIN						
01496500 Oaks Creek	Susquehanna River	Lat 42°39'56", long 74°57'36", Otsego County, Hydrologic Unit 02050101, on right bank 200 ft upstream from bridge on State Highway 28 at Index, 3.0 mi southwest of Cooperstown, and 0.5 mi upstream from mouth.	102	1929-32‡, 1937-95‡	4-26-95 6-14-95	120 50.7
01500500 Susquehanna River	Atlantic Ocean	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 froms Carrs Creek, and 1.6 mi downstream from Ouleout Creek.	982	1938-95‡	4-26-95 6-15-95	1,310 641
01502000 Butternut Creek	Susquehanna River	Lat 42°32'43", long 75°14'22", Otsego County, Hydrologic Unit 02050101, on right bank 15 ft upstream from bridge on State Highway 23 at Morris, and 0.2 mi upstream from Calhoun Creek.	59.7	1938-95‡	4-25-95	67.9
01502500 Unadilla River	Susquehanna River	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.	520	1929-33‡, 1937-95‡	4-26-95 6-14-95	560 376
01505000 Chenango River	Susquehanna River	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.	263	1938-95‡,	4-25-95 6-16-95 7- 11-95	248 126 36.6
01515000 Susquehanna River	Atlantic Ocean	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.	4,773	1937-95‡,	5- 2-95 6-23-95 7-17-95	5,290 1,140 546
01520500 Tioga River	Atlantic Ocean	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 6.0 mi upstream from Canisteo River.	771	1930-95‡,	5- 8-95 6-15-95	286 235
STREAMS TRIBUTARY TO LAKE ONTARIO						
04224000 Genesee River	Lake Ontario	Lat 42°44'00", long 77°54'40", Livingston County, Hydrologic Unit 04130002, at Mount Morris dam, 2.0 mi northwest of Mount Morris, 5.0 mi upstream from Canaseraga Creek, and 69.3 mi upstream of the mouth.	1,080	---	8-28-95	68.9

‡ Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued						
0422450020	Lake Ontario	Lat 42°44'24", long 77°52'43", Livingston County, Hydrologic Unit 04130003, at the downstream end of Brooks Island, 200 ft up- stream of the railroad bridge, and 1.1 mi north of the village of Mount Morris.	---	1994	10-11-94 10-12-94 8-28-95	234 110 71.3
0422450303	Lake Ontario	Lat 42°44'42", long 77°51'57", Livingston County, Hydrologic Unit 04130003, 0.9 mi down- stream of Brooks Island, 1.1 mi northwest of Shakers Crossing, and 1.5 mi northeast of the village of Mount Morris.	---	1994	10-12-94 8-28-95	131 75.0
04227601	Genesee River	Lat 42°47'01", long 77°51'16", Livingston County, Hydrologic Unit 04130003, 0.5 mi north of Route 20A bridge and the salt mine collapse area, and 1.0 mi northeast of Cuylerville.	---	1994	10-12-94	0.119
04227620	Lake Ontario	Lat 42°48'20", long 77°49'33", Livingston County, Hydrologic Unit 04130003, 750 ft downstream of the Route 63 bridge, 0.4 mi west of Geneseo, and 3.1 mi northeast of Cuylerville.	---	1994	10-12-94 10-12-94 8-28-95	124 105 108
04227625	Lake Ontario	Lat 42°49'17", long 77°49'45", Livingston County, Hydrologic Unit 04130003, 0.2 mi east of intersection of Chandler road and State Route 63, and 1.2 mi southeast of Piffard.	---	---	10-12-94 8-28-95	121 97.3
0422778330	Lake Ontario	Lat 42°52'00", long 77°49'58", Livingston County, Hydrologic Unit 04130003, 1.0 mi west of intersection of Nations Road and Oxbow Lane, and 2.7 mi east of York.	---	---	8-28-95	111
04227860	Lake Ontario	Lat 42°53'40", long 77°48'02", Livingston County, Hydrologic Unit 04130003, 0.3 mi west of intersection of Fowlerville Road and Boyd Road, and 2.4 mi east of Fowlerville.	---	---	8-28-95	99.3
04228404	Genesee River	Lat 42°54'23", long 77°46'10", Livingston County, Hydrologic Unit 04130003, at Avon Springs Downs, 0.7 mi west of State Route 39, and 1.1 mi southwest of Avon.	---	---	8-25-95	5.43
0423590005	Skaneateles Lake	Lat 42°45'52", long 76°16'23", Cortland County, Hydrologic Unit 04140201, at bridge over State Ditch branch of Seneca R. on Plainville Road, 1.3 mi northwest of Jacks Reef, 1.6 mi downstream from Cross Lake, and 3.8 mi northwest of Memphis.	10.2	1994	11- 2-94	86.1

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
Discharge measurements made at miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued						
0423592705 Bear Swamp Creek	Skaneateles Lake	Lat 42°49'23", long 76°19'48", Cayuga County, Hydrologic Unit 04140201, 1.9 mi north- east of New Hope and at mouth (at Carpenter Landing).	9.01	---	11- 2-94	142
0423594005 Hardscrabble Brook	Skaneateles Lake	Lat 42°51'44", long 76°21'38", Onondaga County, Hydrologic Unit 04140201, 1.2 mi north- west of Borodino and at mouth (at Hardscrabble).	1.00	1994	11- 2-94	6.89
0423595005 Fivemile Point Brook	Skaneateles Lake	Lat 42°52'33", long 76°22'43", Onondaga County, Hydrologic Unit 04140201, 2.2 mi north- west of Borodino and at mouth (at Fivemile Point).	1.36	1994	11- 2-94	5.19
04237404 Seneca River	Oswego River	Lat 43°07'48", long 76°26'23", Onondaga County, Hydrologic Unit 04140201, at bridge over State Ditch branch of Seneca R. on Plainville Road, 1.3 mi northwest of Jacks Reef, 1.6 mi downstream from Cross Lake, and 3.8 mi northwest of Memphis.	3,068	1994	10-11-94 11-16-94	1,380 4,110
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	1992-94	10-18-94 9-20-95	6.76 2.82

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), 1988-95 (b).

NUTRIENT DATA: 1984-86 (a), 1988-95 (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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	RESIDUE VOLATILE, SUS- PENDED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT							
05...	0950	8.9	5.5	9.6	9	<1	0.030
26...	0950	6.4	4.8	9.4	5	<5	0.040
AUG							
02...	1017	2.2	6.8	7.1	12	<5	0.040
23...	1047	2.4	8.0	7.8	12	2	0.030
SEP							
06...	1115	2.4	6.1	8.5	10	2	0.020

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT						
05...	0.38	0.600	0.048	0.028	38	70
26...	0.38	0.550	0.060	0.039	29	68
AUG						
02...	0.47	0.510	0.075	0.038	51	100
23...	0.36	0.470	0.075	0.041	36	68
SEP						
06...	0.43	0.560	0.065	0.044	37	70

QUANTITY OF PRECIPITATION

257

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 polyethylene 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 polyethylene 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 polyethylene 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 1.88 inch, August 7, 1986.

ANNUAL MAXIMUM.--Maximum recorded daily precipitation 1.40 inch, July 5.

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Health Laboratory at Rochester, NY.

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	1.20	.70	.00	.00	.00	.00	.00	.10	.00	.10	---
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	---
3	.00	.00	.00	.00	.00	.00	.00	.00	.70	.00	.80	---
4	.00	.10	.00	.00	.30	.00	.00	.00	.10	.00	.10	---
5	.00	.10	.90	.00	.10	.10	.00	.00	.00	1.40	.30	---
6	.00	.30	.10	.00	.00	.10	.00	.00	.00	.60	.10	---
7	.00	.10	.00	.00	.00	.00	.00	.00	.00	.30	.00	---
8	.00	.00	.10	.00	.00	.40	.00	.00	.00	.10	.00	---
9	.10	.10	.40	.00	.00	.10	.80	.00	.00	.00	.00	---
10	.00	.00	.00	.00	.10	.00	.00	.10	.40	.20	.00	---
11	.00	.20	.00	.00	.00	.00	.00	.40	.00	.00	---	---
12	.00	.00	.00	.10	.00	.00	.20	.40	.00	.00	---	---
13	.00	.00	.00	.10	.00	.00	.00	.00	.00	.10	---	---
14	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	---	---
15	.10	.00	.00	.00	.00	.00	.00	.00	.00	.40	---	---
16	.00	.00	.20	.10	.00	.10	.00	.00	.10	.00	---	---
17	.00	.10	.70	.10	.00	.20	.00	.00	.00	.40	---	---
18	.00	.00	.10	.00	.00	.00	.00	.00	.00	1.10	---	---
19	.30	.00	.00	.00	.00	.00	.00	.00	.00	.10	---	---
20	.00	.00	.00	1.30	.00	.00	.00	.00	.00	.00	---	---
21	.00	.30	.00	.20	.10	.00	.00	.00	.00	.00	---	---
22	.00	.00	.10	.00	.00	.10	.00	.10	.10	.10	---	---
23	.00	.00	.00	.00	.10	.00	.00	.00	.00	.10	---	---
24	.00	.10	.00	.10	.00	.00	.00	.00	.10	.30	---	---
25	.00	.00	.00	.00	.10	.00	.00	.20	.00	.10	---	---
26	.00	.00	.00	.10	.00	.00	.00	.00	.70	.30	---	---
27	.00	.20	.00	.00	.60	.00	.30	.00	.00	.00	---	---
28	.00	.20	.00	.00	.10	.00	.00	.00	.10	.30	---	---
29	.00	.00	.00	.00	---	.00	.00	.10	.00	.50	---	.00
30	.00	.00	.00	.00	---	.10	.00	.00	.30	.00	---	.00
31	.50	---	.10	.00	---	.00	---	.00	---	.00	---	---
TOTAL	1.20	3.00	3.40	2.10	1.50	1.20	1.30	1.30	2.80	6.40	---	---

CHEMICAL QUALITY OF PRECIPITATION

GENESEE RIVER BASIN

430117077350101 AT MENDON PONDS, ROCHESTER, NY--Continued

DUSTFALL CHEMICAL ANALYSES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

MONTHLY DUSTFALL

DATE	RAIN FALL ACCU (IN)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 03-NOV 01	1.20	1.7	0.24	0.20	1.7	0.84	3.6	0.31	0.92
NOV 01-DEC 01	1.70	1.5	0.20	0.17	0.14	0.42	2.8	0.25	0.38
DEC 01-JAN 05	2.70	1.5	0.35	1.5	0.06	1.7	4.6	0.87	0.99
JAN 05-FEB 01	2.10	0.90	0.30	2.7	0.06	4.1	3.3	0.63	0.72
FEB 01-28	1.50	2.0	0.56	3.7	0.07	5.6	4.4	0.90	1.2
FEB 28-MAR 29	1.10	1.3	0.29	1.1	0.06	0.58	3.0	0.29	0.52
MAR 29-MAY 03	1.40	3.3	0.66	0.61	0.37	0.50	6.4	0.73	2.0
MAY 03-JUN 09	2.20	2.6	0.73	0.15	0.66	0.50	6.3	0.16	0.98
JUN 09-JUL 03	1.90	1.1	0.26	0.23	1.4	0.60	1.9	0.43	3.7
JUL 03-AUG 10	7.80	1.7	0.32	0.13	0.40	0.90	6.6	0.34	0.84
AUG 10-31	--	0.74	<0.06	0.03	0.17	<0.20	1.3	0.02	0.30
AUG 31-SEP 29	--	1.4	0.24	0.08	0.38	<0.20	5.5	0.62	1.2

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE LAB (STAND- ARD UNITS)	ACIDITY (MG/L AS CACO3)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
OCT 03-NOV 01	0.85	0.280	0.200	24	6.2	2.6	6	<40
NOV 01-DEC 01	0.66	0.060	0.010	17	6.1	1.7	<5	<40
DEC 01-JAN 05	1.30	0.025	0.013	55	5.0	2.9	10	120
JAN 05-FEB 01	1.50	0.020	0.012	50	4.4	4.6	9	<40
FEB 01-28	2.30	0.030	0.018	61	4.7	4.0	<5	40
FEB 28-MAR 29	0.89	0.020	0.006	22	5.9	1.9	<2	<40
MAR 29-MAY 03	1.70	0.180	0.088	41	5.9	2.4	7	<40
MAY 03-JUN 09	0.93	0.410	0.085	32	5.7	6.5	11	<100
JUN 09-JUL 03	0.43	0.390	0.265	15	5.1	3.7	<5	<100
JUL 03-AUG 10	0.25	0.070	0.030	24	4.3	4.5	<5	30
AUG 10-31	0.12	0.060	0.014	9	5.5	4.2	<5	20
AUG 29-SEP 29	0.51	0.050	0.014	27	5.4	2.4	6	30

CHEMICAL QUALITY OF PRECIPITATION

259

GENESEE RIVER BASIN

430117077350101 AT MENDON PONDS, ROCHESTER, NY--Continued

WETFALL CHEMICAL ANALYSES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

MONTHLY WETFALL

DATE	RAIN FALL ACCUM (IN)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 03-NOV 01	1.20	0.80	0.10	0.02	0.05	0.63	2.5	0.28	0.32
NOV 01-DEC 01	1.70	1.4	0.27	0.18	0.14	0.63	4.8	0.80	0.98
DEC 01-JAN 05	2.70	0.50	0.08	0.33	0.02	0.60	2.5	0.14	0.22
JAN 05-FEB 01	2.10	0.20	0.05	0.66	0.22	1.1	1.2	0.14	0.18
FEB 01-28	1.50	1.1	0.31	2.2	0.06	2.7	2.9	0.47	0.72
FEB 28-MAR 29	1.10	1.6	0.46	1.3	0.16	1.8	5.2	0.70	1.0
MAR 29-MAY 03	1.40	2.0	0.50	0.51	0.13	0.60	7.4	1.30	1.8
MAY 03-JUN 09	2.20	2.5	1.2	0.43	7.3	1.9	23	17	37
JUN 09-JUL 03	1.90	1.3	0.28	0.16	0.51	0.40	4.0	0.68	1.9
JUL 03-AUG 10	7.80	0.32	0.06	0.05	0.04	0.90	6.0	0.52	0.59
AUG 10-31	--	0.36	<0.01	<0.02	0.04	<0.20	1.0	0.03	0.13
AUG 31-SEP 29	--	1.5	0.30	0.08	0.34	0.80	14	1.90	2.4

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE LAB (STAND- ARD UNITS)	ACIDITY (MG/L AS CACO3)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
OCT 03-NOV 01	0.55	0.015	0.008	19	4.6	4.1	<5	<40
NOV 01-DEC 01	1.10	0.045	0.016	40	4.4	6.0	5	<40
DEC 01-JAN 05	0.46	<0.005	<0.002	64	4.1	6.8	<5	<40
JAN 05-FEB 01	0.45	0.005	0.003	18	4.5	3.5	<5	<40
FEB 01-28	1.60	0.025	0.010	44	4.4	4.6	6	50
FEB 28-MAR 29	1.40	0.030	0.014	46	4.0	5.5	6	<40
MAR 29-MAY 03	1.20	0.080	0.012	41	5.0	3.0	8	50
MAY 03-JUN 09	2.00	3.75	1.40	216	7.3	15	23	<100
JUN 09-JUL 03	0.68	0.160	0.050	22	4.8	5.7	5	<100
JUL 03-AUG 10	0.76	0.020	0.002	56	3.3	9.2	<5	30
AUG 10-31	0.12	0.020	0.008	5	5.7	2.2	<5	20
AUG 31-SEP 29	1.90	0.085	0.019	109	3.8	15	6	30

CHEMICAL QUALITY OF PRECIPITATION

GENESEE RIVER BASIN

430117077350101 AT MENDON PONDS, ROCHESTER, NY--Continued

BULK CHEMICAL ANALYSES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

MONTHLY COMPOSITE

DATE	RAIN FALL ACCUM (IN)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 03-NOV 01	1.20	1.1	0.52	0.05	1.0	0.84	6.6	<0.01	0.42
NOV 01-DEC 01	1.70	0.73	0.18	0.10	0.75	0.42	3.4	0.32	0.61
DEC 01-JAN 05	2.70	0.75	0.15	0.17	0.08	0.40	2.6	0.02	0.24
JAN 05-FEB 01	2.10	0.50	0.14	0.68	0.13	1.4	2.9	0.27	0.80
FEB 01-28	1.50	<0.05	<0.02	0.09	0.02	0.70	1.0	0.06	0.45
FEB 28-MAR 29	1.10	0.58	0.16	0.60	0.10	0.88	2.1	0.51	0.91
MAR 29-MAY 03	1.40	1.2	0.29	0.23	0.03	1.0	4.1	0.66	1.0
MAY 03-JUN 09	2.20	1.5	0.35	0.09	0.33	0.70	5.1	0.79	1.4
JUN 09-JUL 03	1.90	0.05	0.12	0.08	2.2	0.90	2.6	0.14	6.8
JUL 03-AUG 10	7.80	0.58	0.22	0.10	1.6	1.3	5.0	0.12	1.3
AUG 10-31	--	<0.01	<0.02	<0.02	<0.01	0.20	1.1	0.04	0.10

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE LAB (STAND- ARD UNITS)	ACIDITY (MG/L AS CACO3)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
OCT 03-NOV 01	0.20	1.10	0.905	27	5.4	7.3	<5	<40
NOV 01-DEC 01	0.22	0.095	0.058	16	5.1	3.2	<5	<40
DEC 01-JAN 05	0.45	0.035	<0.002	26	4.5	4.3	4	<40
JAN 05-FEB 01	0.65	0.055	0.027	33	4.3	5.1	<5	<40
FEB 01-28	0.05	0.015	0.005	4	5.8	1.9	<5	60
FEB 28-MAR 29	0.66	0.070	0.040	23	4.5	4.0	<2	<40
MAR 29-MAY 03	1.00	0.020	0.002	35	3.8	6.8	<5	<40
MAY 03-JUN 09	0.84	0.095	0.004	33	4.5	6.3	<5	<100
JUN 09-JUL 03	0.14	0.940	0.580	33	6.2	7.3	<5	<100
JUL 03-AUG 10	0.46	0.150	0.039	49	3.4	23	<5	40
AUG 10-31	<0.05	0.005	0.002	2	5.2	2.0	<5	<10

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), 1988-95 (b).

NUTRIENT DATA: 1984-86 (a), 1988-95 (b).

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Health Laboratory at Rochester, N.Y.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	RESIDUE VOLA- TILE, SUS- PENDED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT							
05...	1050	0.10	3.5	9.8	4	<1	<0.01
26...	1035	0.10	3.2	9.4	5	<5	<0.01
AUG							
02...	0925	0.03	16	3.5	23	<10	0.28
23...	1145	0.30	18	5.1	22	3	0.16
SEP							
06...	1200	0.40	31	7.6	34	7	<0.01

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT						
05...	0.74	0.680	0.060	0.035	110	41
26...	0.82	0.050	0.040	0.016	120	50
AUG						
02...	1.2	0.190	0.090	0.033	92	44
23...	0.54	0.160	0.130	0.035	64	42
SEP						
06...	0.75	0.060	0.075	0.005	74	51

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), 1988-95 (b).

NUTRIENT DATA: 1984-86 (a), 1988-95 (b).

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Health Laboratory at Rochester, N.Y.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	RESIDUE VOLATILE, SUS- PENDED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT							
05...	1045	2.6	7.4	10.0	12	<1	0.04
26...	1030	260	5.5	10.0	7	<5	0.04
AUG							
02...	0920	2.3	13	6.9	22	<5	0.07
23...	1137	2.3	16	7.6	27	3	0.07
SEP							
06...	1140	2.5	14	8.3	26	3	0.05

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHOPHOS- PHOS- PHOS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT						
05...	0.45	0.61	0.060	0.025	55	68
26...	0.38	0.43	0.055	0.029	42	70
AUG						
02...	0.90	0.50	0.065	0.017	53	110
23...	0.48	0.39	0.090	0.035	34	62
SEP						
06...	0.40	0.41	0.070	0.031	41	71

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

STREAMS TRIBUTARY TO LAKE ONTARIO

430526077315203 EAST BRANCH ALLEN CREEK 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), 1988-95 (b).

NUTRIENT DATA: 1984-86 (a), 1988-95 (b).

COOPERATION.--Water-quality samples were collected and analyzed by the Monroe County Health Laboratory at Rochester, N.Y.

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	RESIDUE VOLA- TILE, SUS- PENDED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT							
05...	1055	2.5	9.1	11.1	13	<1	0.06
26...	1040	2.5	6.2	11.3	8	<5	0.05
AUG							
02...	0930	2.3	8.6	6.7	23	<5	0.07
23...	1150	2.0	16	8.3	32	4	0.06
SEP							
06...	1205	2.1	8.3	9.4	16	<3	0.05

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT						
05...	0.40	0.59	0.045	0.023	44	75
26...	0.36	0.49	0.055	0.033	33	73
AUG						
02...	0.46	0.49	0.075	0.015	52	120
23...	0.51	0.38	0.095	0.033	34	62
SEP						
06...	0.32	0.42	0.080	0.030	39	73

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), 1988-95 (c).

NUTRIENT DATA: 1984-86 (a), 1988-95 (c).

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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	RESIDUE VOLATILE, TILE, SUS- PENDED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT							
05...	1130	2.3	15	9.0	22	2	0.05
26...	1105	2.3	7.4	8.2	10	<5	0.03
JUN							
22...	1230	0.70	9.3	--	15	3	0.11
22...	1430	1.8	12	--	20	3	0.11
AUG							
02...	0805	9.5	15	7.6	27	<5	0.07
17...	0910	--	14	--	24	<5	0.04
17...	1040	--	10	--	20	<5	0.05
23...	1237	1.8	16	8.2	28	3	0.08
SEP							
06...	1235	1.7	12	8.4	20	3	0.07

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT						
05...	0.54	0.57	0.055	0.022	62	69
26...	0.41	0.46	0.065	0.029	49	60
JUN						
22...	1.1	0.54	0.080	0.015	78	83
22...	0.77	0.55	0.070	0.012	59	80
AUG						
02...	0.72	0.42	0.070	0.016	57	110
17...	0.41	0.39	0.090	0.032	20	62
17...	0.70	0.39	0.085	0.034	75	64
23...	0.46	0.31	0.085	0.032	44	61
SEP						
06...	0.64	0.53	0.075	0.026	79	60

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), 1988-95 (c).

NUTRIENT DATA: 1984-86 (a), 1988-95 (c).

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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	RESIDUE VOLATILE, TILE, SUS- PENDED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT						
05...	1140	1.8	15	20	<3	0.06
26...	1115	1.8	7.8	10	<5	0.03
JUN						
22...	1330	0.60	12	21	3	0.12
AUG						
02...	0815	9.2	15	20	<5	0.07
17...	0920	--	19	25	<5	0.03
23...	1250	1.8	21	43	5	0.08
SEP						
06...	1300	1.3	15	24	3	0.08

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHOPHOS- PHATE TOTAL (MG/L AS P)	CHLO- RYDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT						
05...	0.40	0.60	0.055	0.025	49	69
26...	0.34	0.51	0.060	0.032	30	61
JUN						
22...	1.1	0.57	0.075	0.010	42	79
AUG						
02...	0.33	0.43	0.070	0.017	49	110
17...	0.40	0.39	0.095	0.032	46	61
23...	0.52	0.31	0.095	0.030	33	60
SEP						
06...	0.36	0.48	0.085	0.035	38	60

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), 1988-95 (b).

NUTRIENT DATA: 1984-86 (a), 1988-95 (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 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	RESIDUE VOLA- TILE, SUS- PENDED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT							
05...	0930	--	4.0	6.2	21	8	0.04
26...	0920	--	0.90	4.3	<5	<5	<0.01
AUG							
02...	1055	--	1.2	4.2	<5	<5	0.19

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHOS, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT						
05...	0.40	0.41	0.085	0.035	54	84
26...	0.35	0.28	0.060	0.036	47	87
AUG						
02...	0.72	0.25	0.085	0.053	72	93

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 mi² at station 04232000.

PERIOD OF RECORD.--Water years 1990 to current year.

CHEMICAL DATA: 1990-95 (e).

NUTRIENT DATA: 1990-95 (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 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	RESIDUE VOLA- TILE, SUS- PENDED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
OCT							
01-03	1005	0905	1430	9.6	--	--	0.11
03-05	1015	0515	1580	8.5	--	--	0.10
07-08	1005	2105	952	6.5	--	--	0.18
11-13	1025	0825	841	6.6	--	--	0.16
13-14	1000	1700	778	5.9	--	--	0.15
17-18	1005	2105	1380	5.6	--	--	0.16
18-20	2205	0905	1370	5.0	--	--	0.12
20-22	1025	0925	1040	7.9	--	--	0.12
22-23	1025	0925	816	7.6	--	--	0.11
24-25	1000	2100	1220	4.6	--	--	0.15
25-27	2200	0900	959	4.6	--	--	0.11
27-29	1000	0900	1050	5.0	--	--	0.14
29-31	1000	0900	1020	4.6	--	--	0.22
OCT 31-							
NOV 01	1115	2215	1360	17	--	--	0.13
01-03	2315	0915	3620	11	--	--	0.10
03-04	1015	2115	4880	110	191	14	0.03
04-06	2215	0615	4560	190	222	16	0.04
07-08	1135	2235	3760	110	132	11	0.04
08-10	2335	0935	3550	70	86	7	0.05
10-12	1005	0905	3170	32	--	--	0.08
12-14	1005	0905	2660	21	41	<5	0.10
14-15	1110	2210	1690	21	--	--	0.11
15-17	2310	0910	1550	24	--	--	0.18
17-19	1000	0900	1080	19	--	--	0.18
21-23	1010	0910	1200	12	--	--	0.20
23-25	1000	0100	1910	7.6	--	--	0.16
25-26	0200	1200	1210	8.2	--	--	0.14
26-27	1300	2300	1430	16	--	--	0.14
28-29	1120	2220	1800	7.4	--	--	0.12
NOV 29-							
DEC 01	2320	0720	3090	15	--	--	0.10
01-03	0815	0715	2870	80	103	7	0.07
03-05	0815	0715	2200	28	--	--	0.10
05-06	1050	0950	2290	14	--	--	0.10
06-07	1050	0950	3670	19	--	--	0.11
08-10	1035	0935	4160	50	80	6	0.07
10-12	1035	0935	4390	33	68	<5	0.08
12-13	1100	2200	3940	26	--	--	0.07
13-15	2300	1000	3430	24	--	--	0.08
15-17	1015	0915	2740	13	--	--	0.10
17-19	1015	0915	2750	13	--	--	0.13
19-21	0920	0820	3140	11	--	--	0.07
21-22	0920	0820	2610	9.1	--	--	0.08
23-24	0905	0505	2120	22	--	--	0.09
27-30	1110	0810	1820	6.8	--	--	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 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT						
01-03	0.41	0.66	0.065	0.032	47	90
03-05	0.46	0.71	0.050	0.026	38	75
07-08	0.67	0.81	0.065	0.033	42	90
11-13	0.64	0.85	0.090	0.043	47	91
13-14	0.60	0.72	0.110	0.035	42	83
17-18	0.53	0.67	0.075	0.039	43	92
18-20	0.44	0.61	0.060	0.028	49	95
20-22	0.54	0.59	0.060	0.035	40	66
22-23	0.45	0.52	0.080	0.032	31	64
24-25	0.48	0.60	0.060	0.037	31	75
25-27	0.42	0.54	0.060	0.030	38	90
27-29	0.64	0.63	<0.001	0.031	39	78
29-31	0.65	0.62	<0.001	0.023	38	90
OCT 31-						
NOV 01	0.48	0.58	0.095	0.019	38	78
01-03	0.44	0.52	0.065	0.025	38	81
03-04	0.43	0.69	0.530	0.030	33	59
04-06	<0.02	0.62	0.160	0.018	27	55
07-08	<0.02	0.47	0.170	0.020	24	44
08-10	0.69	0.55	0.110	0.021	26	44
10-12	<0.02	0.61	0.080	0.018	27	46
12-14	0.41	0.64	0.060	0.018	27	48
14-15	0.40	0.63	0.055	0.020	25	47
15-17	0.54	0.62	0.070	0.022	24	50
17-19	0.57	0.63	0.060	0.020	31	66
21-23	0.52	0.75	0.060	0.024	37	78
23-25	0.49	0.72	0.035	0.016	34	72
25-26	0.53	0.66	0.040	0.016	35	62
26-27	0.40	0.66	0.060	0.023	32	62
28-29	0.56	0.68	0.040	0.018	33	59
NOV 29-						
DEC 01	0.38	0.64	0.040	0.014	35	60
01-03	0.38	0.47	0.130	0.010	26	41
03-05	0.44	0.55	0.050	0.015	24	43
05-06	0.33	0.66	0.055	0.023	29	51
06-07	0.38	0.69	0.075	0.029	35	61
08-10	0.39	0.59	0.110	0.014	39	48
10-12	0.38	0.67	0.095	0.015	44	47
12-13	0.42	0.97	0.085	0.022	38	46
13-15	0.41	1.00	0.060	0.019	32	46
15-17	0.64	0.99	0.045	0.015	36	51
17-19	0.83	1.10	0.045	0.016	42	64
19-21	0.55	1.30	0.045	0.022	45	68
21-22	0.50	1.30	0.050	0.019	41	70
23-24	0.51	1.10	0.065	0.017	39	70
27-30	0.28	1.00	0.045	0.016	36	70

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 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	RESIDUE VOLA- TILE, SUS- PENDED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
DEC 30-							
JAN 01	0820	0720	1520	5.4	--	--	0.14
01-03	0820	0720	1600	7.0	--	--	0.16
03-05	1015	0915	1330	5.2	--	--	0.14
05-07	1010	0910	850	4.1	--	--	0.17
07-09	1010	0910	1110	4.7	--	--	0.27
09-12	1000	0900	1130	5.7	--	--	0.22
12-14	0955	0055	1450	5.0	--	--	0.22
14-15	0155	1655	3180	7.3	--	--	0.15
15-17	1755	0855	3490	45	75	<9	0.09
17-19	0935	0835	3390	39	--	--	0.06
19-20	1000	2100	3550	40	74	7	0.07
20-23	2200	0100	9660	160	280	25	0.05
23-24	1020	2120	6840	150	216	17	0.03
24-26	2220	0920	6070	140	228	17	0.04
26-27	1020	0920	6180	160	245	16	0.09
27-28	1020	0920	6560	140	228	14	0.08
28-29	1020	0920	6730	150	183	11	0.05
29-30	1020	0920	6370	140	175	10	0.05
30-31	1010	0910	5800	85	120	8	0.05
JAN 31-							
FEB 01	1010	0910	5030	50	77	<5	0.06
01-02	1010	0910	3980	35	51	<5	0.06
02-03	1010	1710	2340	27	--	--	<0.01
03-05	1810	0110	1760	27	--	--	0.10
05-06	0210	0910	1450	37	68	<5	0.15
06-08	1305	0005	1180	15	--	--	0.15
08-09	0105	1105	1260	7.8	--	--	0.18
09-11	1115	1015	1310	7.4	--	--	0.20
11-13	1115	0915	1430	6.2	--	--	0.21
13-15	1005	0905	1170	5.0	--	--	0.20
15-17	1005	0905	1140	4.9	--	--	0.22
17-19	0950	0850	1300	3.8	--	--	0.23
19-21	0950	0850	1540	4.8	--	--	0.21
21-23	1005	0805	1810	5.6	--	--	0.16
23-25	0845	0745	1990	8.0	--	--	0.14
25-26	0845	0745	2180	10	--	--	0.12
27-28	1035	2135	1980	12	--	--	0.11
FEB 28-							
MAR 02	2235	0935	3120	14	--	--	0.12
02-03	0950	1650	3650	42	63	6	0.10
03-05	1750	0050	2670	80	110	9	0.10
05-06	0150	0850	2220	34	44	<5	0.14
06-07	0950	0850	2930	18	--	--	0.04
07-08	0950	0850	4570	19	--	--	0.11
08-09	0950	0850	6500	80	213	12	0.09
09-10	1025	0925	6950	160	415	25	0.05
10-11	1025	0925	6770	160	270	18	0.05
11-12	1025	0925	6640	90	147	10	0.05
12-13	1025	0925	6800	60	106	8	0.05
13-14	1000	0900	6710	50	93	--	0.04
14-15	1000	0900	6170	40	86	--	0.03
15-16	1000	0900	5570	45	82	--	0.04
16-17	1035	1735	4980	38	58	<5	0.05
17-19	1835	0135	4410	28	--	--	0.05
19-20	0235	0935	3130	24	--	--	0.05
20-21	0950	2050	2700	18	--	--	0.09
21-23	2150	0850	2590	14	--	--	0.10
23-24	0950	1650	2760	20	--	--	0.08
24-26	1750	0050	2510	14	--	--	0.08
26-27	0150	0850	2120	14	--	--	0.07
27-28	1045	2145	1820	9.1	--	--	0.09
28-30	2245	0845	1660	7.0	--	--	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 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
DEC 30-						
JAN 01	0.25	1.10	0.040	0.018	36	71
01-03	0.34	1.00	0.045	0.018	37	74
03-05	0.40	1.00	0.040	0.015	38	77
05-07	0.50	1.20	0.045	0.014	41	78
07-09	0.62	1.20	0.040	0.015	48	97
09-12	0.66	1.20	0.045	0.017	49	93
12-14	0.80	1.20	0.060	0.018	50	85
14-15	0.60	1.10	0.045	0.017	47	78
15-17	0.48	1.10	0.090	0.015	39	54
17-19	0.45	0.95	0.100	0.012	34	50
19-20	0.57	0.87	0.095	0.014	37	52
20-23	0.75	1.20	0.340	0.025	38	44
23-24	0.86	1.30	0.220	0.023	35	47
24-26	1.0	1.60	0.190	0.016	35	46
26-27	0.56	1.00	0.250	0.014	35	40
27-28	0.73	0.95	0.170	0.012	32	36
28-29	0.46	0.99	0.100	0.010	26	34
29-30	0.32	1.00	0.200	0.010	25	34
30-31	0.57	1.10	0.130	0.011	24	34
JAN 31-						
FEB 01	0.53	1.30	0.090	0.011	25	39
01-02	0.51	1.40	0.065	0.012	29	46
02-03	0.42	1.50	0.120	0.011	33	55
03-05	0.39	1.60	0.075	0.014	37	65
05-06	0.54	1.60	0.085	0.017	50	79
06-08	0.59	1.50	0.060	0.015	48	89
08-09	0.68	1.50	0.040	0.017	56	95
09-11	0.72	1.60	0.040	0.015	68	100
11-13	0.71	1.60	0.040	0.018	62	100
13-15	0.54	1.80	0.040	0.019	51	93
15-17	0.67	1.70	0.035	0.018	54	97
17-19	0.74	1.60	0.040	0.025	54	100
19-21	0.61	1.60	0.045	0.022	58	99
21-23	0.72	1.60	0.043	0.016	68	89
23-25	0.74	1.60	0.050	0.018	58	79
25-26	0.85	1.50	0.055	0.014	56	80
27-28	0.68	1.50	0.045	0.013	71	78
FEB 28-						
MAR 02	0.83	1.40	0.050	0.015	84	77
02-03	0.72	1.50	0.110	0.017	62	58
03-05	0.57	1.20	0.100	0.017	49	54
05-06	0.55	1.20	0.080	0.018	50	62
06-07	0.68	1.20	0.020	0.013	59	69
07-08	0.64	1.40	0.015	0.016	64	67
08-09	0.60	1.40	0.045	0.016	55	53
09-10	1.3	1.20	0.240	0.014	48	42
10-11	0.84	1.10	0.220	0.013	41	42
11-12	1.1	1.10	0.140	0.012	42	43
12-13	0.69	1.20	0.110	0.013	43	45
13-14	0.44	1.30	0.095	0.013	42	46
14-15	0.55	1.20	0.085	0.013	37	47
15-16	0.54	1.10	0.095	0.019	35	46
16-17	0.44	1.00	0.068	0.012	34	48
17-19	0.47	1.00	0.055	0.012	33	51
19-20	0.55	1.10	0.060	0.013	35	58
20-21	0.60	1.10	0.055	0.013	37	65
21-23	0.58	1.20	0.040	0.012	40	71
23-24	0.54	1.10	0.060	0.012	40	70
24-26	0.50	1.10	0.035	0.011	38	67
26-27	0.46	1.00	0.055	0.012	38	69
27-28	0.52	1.10	0.040	0.014	45	73
28-30	0.59	1.10	0.040	0.013	48	79

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 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	RESIDUE VOLA- TILE, SUS- PENDED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
MAR 30-							
APR 01	0945	0845	1540	5.9	--	--	0.15
01-03	0945	0845	1490	4.8	--	--	0.13
03-04	1005	2105	1440	9.5	--	--	0.10
04-06	2205	0905	1510	5.7	--	--	0.10
06-08	0940	0840	1820	5.1	--	--	0.10
08-10	0940	0840	1790	8.8	--	--	0.14
10-11	1000	2100	2980	4.3	--	--	0.31
11-13	2200	0900	3730	36	49	<5	0.06
13-15	0935	0835	3990	36	51	<5	0.06
15-17	0935	0835	3830	30	45	<5	0.04
17-18	0925	2025	2820	20	--	--	0.04
18-20	2125	0825	2060	13	--	--	0.09
20-22	0910	0810	1920	7.8	--	--	0.08
22-24	0910	0810	1630	8.2	--	--	0.08
24-25	0945	2045	848	8.6	--	--	0.08
25-27	2145	0845	766	8.9	--	--	0.13
27-29	0935	0835	1570	7.0	--	--	0.13
APR 29-							
MAY 01	0935	0835	1680	5.1	--	--	0.13
01-02	0950	2050	1620	6.2	--	--	0.07
02-04	2150	0850	1430	6.2	--	--	0.08
04-06	1015	0915	1300	5.9	--	--	0.15
06-08	1015	0915	1250	8.0	--	--	0.16
08-09	1010	2110	1140	6.1	--	--	0.08
09-11	2210	0910	1280	6.8	--	--	0.10
11-13	1025	0625	1460	5.1	--	--	0.13
13-15	1025	0925	1500	6.1	--	--	0.13
15-16	1010	2110	1400	6.8	--	--	0.13
16-18	2210	0910	1360	7.6	--	--	0.12
22-24	1015	0915	984	10	--	--	0.11
24-26	1015	0915	928	13	--	--	0.14
26-28	0925	0825	1070	3.0	--	--	0.17
28-30	0925	0825	1070	4.1	--	--	0.13
30-31	1125	1025	1040	8.3	--	--	0.05
MAY 31-							
JUN 01	1125	1025	957	70	--	--	0.03
01-03	1030	0930	954	4.2	--	--	0.08
03-05	1030	0930	970	5.3	--	--	0.12
05-06	0950	2050	980	6.2	--	--	0.08
06-08	2150	0850	845	14	--	--	0.12
08-10	1025	0925	703	4.1	--	--	0.18
10-12	1025	0925	700	3.8	--	--	0.15
13-15	1500	1000	659	5.1	--	--	0.12
15-17	1010	0910	651	1.4	--	--	0.15
17-19	1010	0910	497	2.4	--	--	0.12
19-20	1035	2135	461	4.6	--	--	0.09
20-22	2235	0935	440	8.1	--	--	0.08
22-24	1010	0910	440	2.3	--	--	0.14
24-26	1010	0910	552	2.2	--	--	0.14
26-27	1135	2235	1140	3.5	--	--	0.10
27-29	2335	0935	972	3.7	--	--	0.24
JUN 29-							
JUL 03	1010	0910	864	2.5	--	--	0.14
01-03	1010	0910	1340	10	--	--	0.18
03-04	0925	2025	846	6.3	--	--	0.13
04-06	2125	0825	669	7.6	--	--	0.10
06-08	1035	0935	780	6.2	--	--	0.10
08-10	1035	0935	607	7.0	--	--	0.14
10-11	1010	2110	514	3.1	--	--	0.09
11-13	2210	0910	494	5.3	--	--	0.10
13-15	0925	0825	437	3.7	--	--	0.03
15-17	0925	0825	283	5.3	--	--	0.06
17-18	0940	2040	277	3.1	--	--	0.03
18-20	2140	0840	394	4.0	--	--	0.04

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 1994 TO SEPTEMBER 1995

DATE	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
MAR 30-						
APR 01	0.52	1.10	0.045	0.014	47	84
01-03	0.47	1.10	0.040	0.016	44	90
03-04	0.53	1.10	0.050	0.011	44	89
04-06	0.61	1.10	0.045	0.011	44	92
06-08	0.61	1.10	0.040	0.008	45	88
08-10	0.70	1.00	0.030	0.008	41	77
10-11	0.51	0.99	0.035	0.009	48	75
11-13	0.46	0.78	0.065	0.009	42	52
13-15	0.36	0.74	0.065	0.008	32	47
15-17	0.26	0.68	0.065	0.008	29	45
17-18	0.41	0.68	0.050	0.011	27	45
18-20	0.56	0.79	0.045	0.012	31	55
20-22	0.52	0.80	0.050	0.010	34	63
22-24	0.44	0.79	0.050	0.015	36	65
24-25	0.40	0.80	0.075	0.020	43	69
25-27	0.67	0.87	0.080	0.021	45	73
27-29	0.83	0.89	0.050	0.014	39	78
APR 29-						
MAY 01	0.81	0.80	0.040	0.013	43	81
01-02	0.54	0.67	0.035	0.010	49	95
02-04	0.87	1.20	0.045	0.016	53	100
04-06	0.94	0.90	0.040	<0.005	47	96
06-08	0.80	0.80	0.042	<0.005	44	90
08-09	0.40	0.73	0.040	0.008	47	92
09-11	0.51	0.75	0.050	0.006	55	94
11-13	0.64	0.74	0.035	0.007	49	94
13-15	0.59	0.75	0.040	0.009	49	100
15-16	0.69	0.77	0.075	0.015	46	85
16-18	0.67	0.73	0.075	0.013	50	88
22-24	0.63	0.67	0.075	0.018	53	97
24-26	0.64	0.63	0.080	0.014	49	89
26-28	0.86	0.68	0.050	0.020	48	91
28-30	0.87	0.62	0.065	0.030	43	85
30-31	0.01	0.58	0.110	0.026	42	73
MAY 31-						
JUN 01	0.48	0.58	0.090	0.017	41	73
01-03	0.64	0.74	0.070	0.021	44	86
03-05	0.61	0.69	0.070	0.018	51	84
05-06	0.52	0.69	0.070	0.021	47	83
06-08	0.70	0.65	0.080	0.014	46	94
08-10	0.64	0.73	0.060	0.022	46	92
10-12	0.59	0.70	0.055	0.021	46	86
13-15	0.64	0.76	0.070	0.026	46	89
15-17	0.64	0.74	0.050	0.023	47	87
17-19	0.91	0.66	0.050	0.023	43	81
19-20	0.71	0.81	0.050	0.021	43	76
20-22	0.94	0.88	0.070	0.011	49	250
22-24	0.96	0.80	0.045	0.010	49	77
24-26	0.91	0.70	0.055	0.015	43	78
26-27	0.64	0.65	0.075	0.032	40	73
27-29	0.90	0.67	0.070	0.024	48	100
JUN 29-						
JUL 03	1.2	0.71	0.060	0.034	54	72
01-03	0.88	1.50	0.080	0.041	53	79
03-04	0.80	1.60	0.090	0.080	71	87
04-06	1.1	1.20	0.120	0.071	66	74
06-08	0.76	1.50	0.065	0.054	52	85
08-10	0.78	1.30	0.080	0.046	58	110
10-11	0.81	1.30	0.080	0.047	62	120
11-13	0.84	1.00	0.070	0.036	64	94
13-15	0.64	0.93	0.070	0.031	54	76
15-17	0.75	0.77	0.085	0.022	47	76
17-18	0.86	0.58	0.055	0.017	44	77
18-20	0.60	0.55	0.055	0.008	42	42

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 1994 TO SEPTEMBER 1995

DATE	TIME	ENDING TIME	DIS- CHARGE, IN CUBIC FEET PER SECOND	TUR- BID- ITY (NTU)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L)	RESIDUE VOLA- TILE, SUS- PENDED (MG/L)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
JUL-continued							
20-22	0940	0840	374	2.6	--	--	0.09
22-24	0940	0840	331	2.9	--	--	0.07
24-25	1050	2150	475	3.6	--	--	0.09
25-27	2250	0750	675	3.8	--	--	0.20
JUL 31-							
AUG 01	0900	2000	549	6.5	--	--	0.06
01-03	2100	0800	437	6.5	--	--	0.06
03-05	0925	0825	405	1.8	--	--	0.15
05-07	0925	0825	419	5.2	--	--	0.23
07-08	1025	2125	532	3.8	--	--	0.16
08-10	2225	0825	456	4.2	--	--	0.14
10-12	0840	0740	396	1.2	--	--	0.07
12-14	0840	0740	579	3.4	--	--	0.10
14-15	0935	2035	656	2.5	--	--	0.05
15-17	2135	0835	483	3.2	--	--	0.41
17-19	1025	0925	426	4.0	--	--	0.05
19-21	1025	0925	379	3.1	--	--	0.16
21-22	1140	2240	377	3.8	--	--	0.07
22-24	2340	0840	347	2.7	--	--	0.07
24-26	0945	0845	329	2.3	--	--	0.08
26-28	0945	0845	317	4.1	--	--	0.20
28-31	0910	0810	319	4.2	--	--	0.18
AUG 31-							
SEP 01	0910	0810	317	5.1	--	--	0.24
01-03	0855	0455	323	1.8	--	--	0.18
03-05	0855	0755	307	2.3	--	--	0.19
05-07	1015	0915	327	4.7	--	--	0.10
07-09	1025	0925	313	4.3	--	--	0.07
09-11	1025	0925	296	3.1	--	--	0.13
11-12	0955	2055	314	2.4	--	--	0.09
12-14	2155	0655	309	2.8	--	--	0.12
14-16	0940	0840	314	2.6	--	--	0.08
16-18	0940	0840	302	4.5	--	--	0.18
18-19	1005	1905	267	4.3	--	--	0.16
19-21	2205	0905	260	4.1	--	--	0.16
21-23	1015	0915	422	3.4	--	--	0.19
23-25	1015	0915	341	3.2	--	--	0.24
25-26	1005	2105	397	1.7	--	--	0.14
26-28	2205	0905	438	3.2	--	--	0.17
28-30	0950	0850	371	2.6	--	--	0.09
SEP 30-							
OCT 02	0950	0850	400	2.3	--	--	0.19

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 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)
JUL-continued						
20-22	0.64	0.61	0.035	0.048	40	72
22-24	0.55	0.47	0.075	0.017	46	89
24-25	0.63	0.59	0.065	0.033	54	86
25-27	0.62	0.63	0.075	0.044	51	85
JUL 31-						
AUG 01	0.68	0.51	0.078	0.023	58	96
01-03	0.60	0.51	0.085	0.027	58	96
03-05	0.66	0.66	0.065	0.036	49	100
05-07	0.80	0.66	0.110	0.058	50	85
07-08	0.74	0.69	0.110	0.064	51	86
08-10	0.86	0.79	0.075	0.045	52	--
10-12	0.43	0.93	0.055	0.035	50	100
12-14	0.46	0.68	0.065	0.035	54	98
14-15	0.61	0.61	0.070	0.043	53	83
15-17	1.1	0.38	0.065	0.034	61	130
17-19	0.65	0.64	0.060	0.029	60	100
19-21	0.68	0.62	0.060	0.032	53	80
21-22	0.53	0.52	0.060	0.026	43	73
22-24	0.56	0.59	0.050	0.026	41	72
24-26	0.54	0.71	0.050	0.031	39	71
26-28	0.68	0.69	0.075	0.037	43	77
28-31	0.81	0.66	0.080	0.040	47	86
AUG 31-						
SEP 01	1.0	0.75	0.075	0.040	44	82
01-03	0.66	0.69	0.070	0.043	51	75
03-05	0.58	0.60	0.065	0.043	47	82
05-07	0.57	0.63	0.100	0.041	49	93
07-09	0.63	0.71	0.090	0.041	--	87
09-11	0.62	0.67	0.085	0.040	--	90
11-12	0.55	0.60	0.060	0.035	54	87
12-14	0.57	0.58	0.055	0.030	53	90
14-16	0.60	0.70	0.055	0.032	49	93
16-18	0.76	0.65	0.070	0.037	47	89
18-19	0.20	0.70	0.065	0.038	47	98
19-21	0.68	0.74	0.070	0.034	51	100
21-23	0.82	0.97	0.110	0.034	46	100
23-25	0.76	0.80	0.075	0.005	45	100
25-26	0.90	0.76	0.100	0.037	46	96
26-28	0.78	0.77	0.100	0.041	47	100
28-30	0.76	0.94	0.080	0.040	46	100
SEP 30-						
OCT 02	0.72	0.86	0.085	0.046	49	110

GROUND-WATER LEVELS
BROOME COUNTY

275

420646075531201. Local number, Bm 100.

LOCATION.--Lat 42°06'46", long 75°53'12", Hydrologic Unit 02050103, at Moeller and Frederick Streets, Binghamton.
Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 52 ft, cased to 52 ft, slotted 40 ft to 45 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 851.05 ft above sea level. Measuring point: Top of shelter base, 2.87 ft above land-surface datum.

REMARKS.--Lowest water level recorded on June 25, 1985 due to water-level decline for several hours, possibly due to nearby pumping.

PERIOD OF RECORD.--October 1946 to July 1955, April 1966 to August 1995 (discontinued). Records for October 1946 to July 1955 (intermittent), April 1966 to April 1968 (intermittent) and May 1968 to September 1977 are unpublished and available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.13 ft below land-surface datum, Apr. 28-29, 1993; lowest, 13.18 ft below land-surface datum, June 25, 1985.

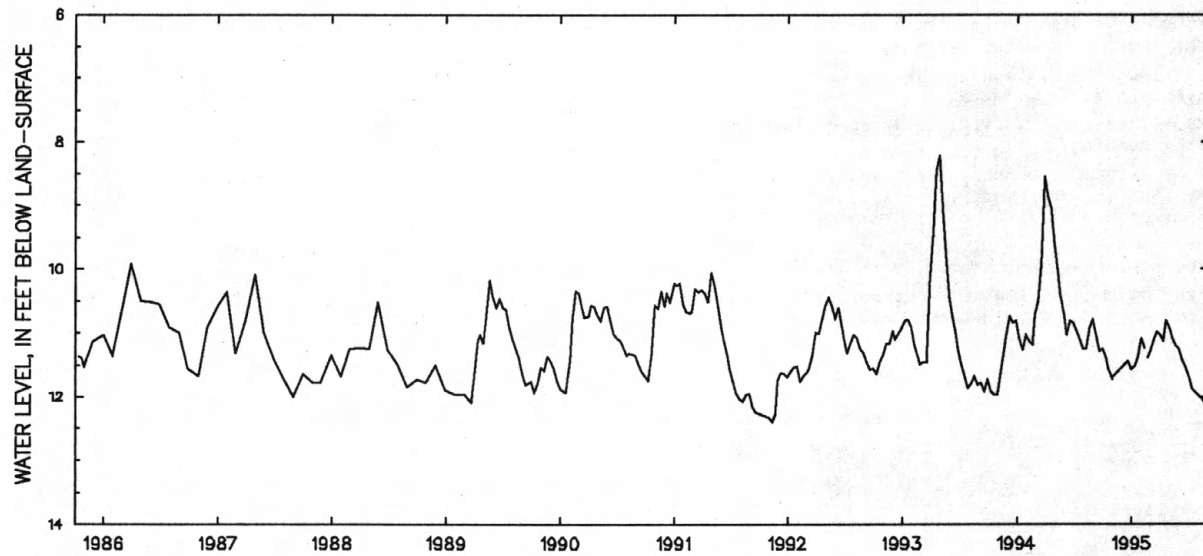
EXTREMES FOR CURRENT PERIOD.--October 1994 to March 1995: Highest water level recorded, 10.80 ft below land-surface datum, Apr. 19, 20; lowest recorded, 12.32 ft below land-surface datum, Aug. 30, 31.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO AUGUST 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.23	11.69	---	11.51	11.07	11.23	11.05	10.94	11.27	11.73	12.09	---
2	11.25	---	11.77	11.50	11.09	11.21	11.07	10.95	11.29	11.74	12.09	---
3	11.27	---	11.77	11.50	11.12	11.18	11.10	10.98	11.30	11.74	12.10	---
4	11.27	---	11.78	11.49	11.09	11.18	11.08	11.01	11.31	11.78	12.11	---
5	11.28	---	11.74	11.48	11.09	11.17	11.10	11.01	11.33	11.80	12.11	---
6	11.31	---	11.68	11.47	11.13	11.13	11.10	11.01	11.33	11.81	12.10	---
7	11.33	---	11.61	11.44	11.16	11.12	11.10	11.03	11.33	11.83	12.09	---
8	11.34	---	11.59	11.50	11.19	11.11	11.11	11.06	11.36	11.84	12.07	---
9	11.34	---	11.52	11.51	11.22	11.11	11.11	11.08	11.41	11.86	12.05	---
10	11.38	---	11.49	11.52	11.23	11.12	11.11	11.07	11.42	11.88	12.04	---
11	11.43	---	11.42	11.53	11.24	11.12	11.08	11.07	11.42	11.88	12.05	---
12	11.45	---	11.46	11.53	11.29	11.11	11.03	11.08	11.43	11.89	12.06	---
13	11.45	---	11.45	11.53	11.33	11.08	10.97	11.11	11.43	11.90	12.07	---
14	11.46	---	11.43	11.54	11.34	11.05	10.92	11.12	11.43	11.90	12.08	---
15	11.49	---	11.43	11.52	11.36	11.01	10.91	11.11	11.47	11.90	12.09	---
16	11.51	---	11.43	11.50	11.35	11.00	10.89	11.13	11.50	---	12.10	---
17	11.53	---	11.39	11.50	11.39	10.99	10.87	11.14	11.50	---	12.10	---
18	11.53	---	11.39	11.48	11.39	10.99	10.85	11.16	11.50	---	12.10	---
19	11.55	---	11.41	11.44	11.39	10.99	10.81	11.18	11.51	---	12.10	---
20	11.55	---	11.44	11.36	11.39	10.97	10.82	11.20	11.52	---	12.11	---
21	11.56	---	11.45	11.32	11.37	10.93	10.82	11.21	11.55	---	12.11	---
22	11.60	---	11.45	11.26	11.39	10.93	10.81	11.24	11.58	---	12.14	---
23	11.61	---	11.44	11.19	11.39	10.95	10.83	11.26	11.59	---	12.16	---
24	11.65	---	11.44	11.13	11.35	10.97	10.84	11.25	11.60	---	12.18	---
25	11.67	---	11.46	11.11	11.36	10.98	10.85	11.25	11.63	---	12.22	---
26	11.69	---	11.50	11.10	11.36	10.99	10.88	11.25	11.66	---	12.23	---
27	11.70	---	11.51	11.09	11.35	10.99	10.89	11.25	11.68	---	12.25	---
28	11.70	---	11.50	11.09	11.29	11.00	10.90	11.25	11.69	---	12.27	---
29	11.71	---	11.53	11.09	---	11.01	10.91	11.23	11.70	---	12.27	---
30	11.74	---	11.58	11.08	---	11.03	10.93	11.22	11.70	---	12.31	---
31	11.73	---	11.57	11.07	---	11.03	---	11.25	---	---	12.32	---
MEAN	11.49	---	---	11.37	11.28	11.05	10.96	11.13	11.48	---	12.13	---
LOW	11.74	---	---	11.54	11.39	11.23	11.11	11.26	11.70	---	12.32	---
HIGH	11.23	---	---	11.07	11.07	10.93	10.81	10.94	11.27	---	12.04	---

GROUND-WATER LEVELS
BROOME COUNTY

420646075531201. Local number, Bm 100--Continued.



GROUND-WATER LEVELS
BROOME COUNTY

277

420657075583501. Local number, Bm 121.

LOCATION.--Lat 42°06'57", long 75°58'35", Hydrologic Unit 02050103, at Camden and Main Streets, Johnson City. Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 53 ft, cased to 53 ft, open end.

INSTRUMENTATION.--Digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 833.62 ft above sea level. Measuring point: Top of shelter base, 3.42 ft above land-surface datum.

REMARKS.--Well cleaned from 46 ft to original depth on Oct. 19, 1970. Water level affected by floods of Susquehanna River and by pumping from municipal well field 1,100 ft south.

PERIOD OF RECORD.--March 1947 to August 1995 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.69 ft below land-surface datum, Apr. 12, 1993; lowest, 33.47 ft below land-surface datum, Sept. 23, 1965.

EXTREMES FOR CURRENT PERIOD.--October 1994 to March 1995: Highest water level recorded, 21.84 ft below land-surface datum, May 10; lowest recorded, 29.41 ft below land-surface datum, Aug 31.

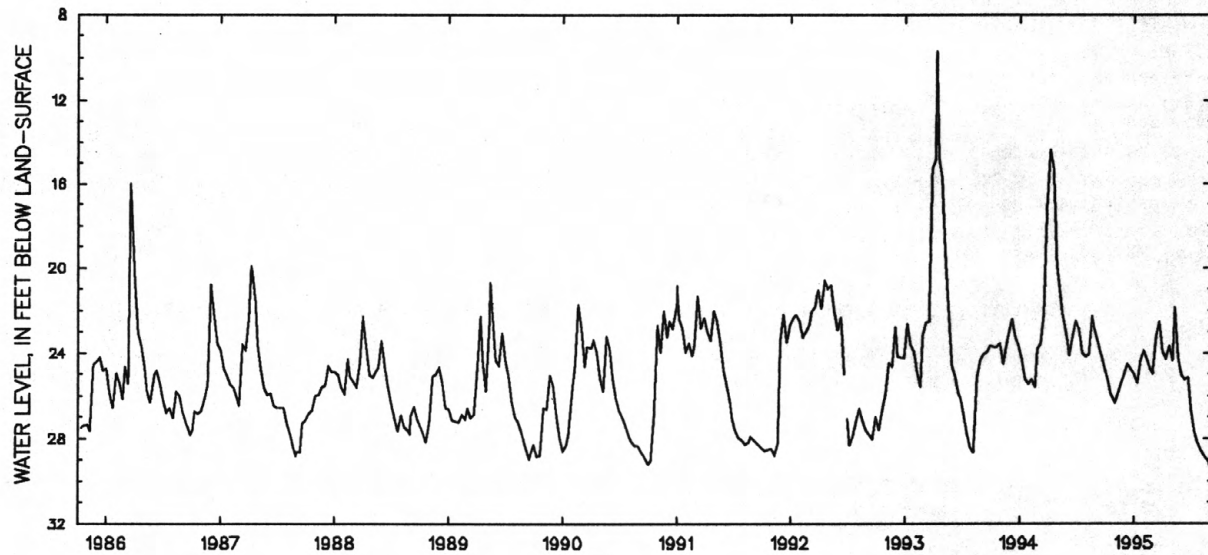
WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.08	26.32	---	25.07	23.98	24.78	24.17	24.38	25.03	26.82	28.60	---
2	25.05	---	25.94	25.09	24.07	24.62	24.25	24.14	25.08	26.92	28.64	---
3	25.04	---	25.91	25.05	24.16	24.56	24.30	23.65	25.12	27.03	28.69	---
4	25.06	---	25.91	25.03	24.23	24.55	24.34	23.20	25.13	27.13	28.73	---
5	25.10	---	25.87	25.11	24.33	24.55	24.31	22.82	25.10	27.23	28.75	---
6	25.16	---	25.55	25.21	24.35	24.54	24.24	22.51	25.04	27.34	28.75	---
7	25.23	---	25.13	25.30	24.32	24.49	24.22	22.27	25.04	27.42	28.76	---
8	25.29	---	24.82	25.36	24.32	24.32	24.24	22.09	25.10	27.52	28.77	---
9	25.35	---	24.62	25.39	24.31	23.81	24.24	21.96	25.17	27.61	28.80	---
10	25.41	---	24.51	25.41	24.31	23.23	24.24	21.86	25.23	27.68	28.83	---
11	25.45	---	24.43	25.45	24.31	22.95	24.17	22.05	25.28	27.74	28.86	---
12	25.51	---	24.38	25.53	24.33	22.87	24.11	22.45	25.32	27.81	28.89	---
13	25.56	---	24.33	25.57	24.38	22.83	24.01	22.80	25.30	27.88	28.93	---
14	25.61	---	24.35	25.53	24.45	22.76	23.76	23.08	24.95	27.95	28.96	---
15	25.66	---	24.43	25.36	24.51	22.67	23.55	23.33	24.48	28.01	28.98	---
16	25.71	---	24.50	25.09	24.59	22.57	23.46	23.55	24.36	28.06	29.00	---
17	25.77	---	24.55	24.74	24.65	22.53	23.45	23.74	24.53	28.13	29.01	---
18	25.82	---	24.61	24.50	24.72	22.51	23.49	23.93	24.74	28.19	29.02	---
19	25.86	---	24.66	24.37	24.76	22.51	23.55	24.07	24.92	28.23	29.04	---
20	25.90	---	24.71	24.32	24.79	22.53	23.63	24.22	25.11	28.23	29.05	---
21	25.94	---	24.75	24.13	24.83	22.59	23.68	24.34	25.35	28.23	29.06	---
22	25.98	---	24.80	23.68	24.86	22.69	23.75	24.48	25.57	28.25	29.09	---
23	26.01	---	24.87	23.39	24.88	22.73	23.81	24.61	25.77	28.29	29.12	---
24	26.05	---	24.94	23.31	24.90	22.79	23.88	24.72	25.97	28.33	29.15	---
25	26.09	---	24.98	23.30	24.90	22.89	23.97	24.79	26.15	28.38	29.18	---
26	26.13	---	25.00	23.34	24.90	22.99	24.06	24.83	26.30	28.42	29.21	---
27	26.17	---	25.00	23.41	24.91	23.11	24.15	24.87	26.42	28.45	29.25	---
28	26.20	---	24.86	23.51	24.92	23.17	24.25	24.91	26.49	28.47	29.28	---
29	26.23	---	24.84	23.65	---	23.35	24.30	24.95	26.58	28.51	29.32	---
30	26.26	---	24.90	23.78	---	23.65	24.34	24.98	26.70	28.54	29.36	---
31	26.29	---	25.00	23.89	---	23.96	---	25.01	---	28.57	29.39	---
MEAN	25.68	---	---	24.58	24.53	23.36	24.00	23.70	25.38	27.92	28.98	---
LOW	26.29	---	---	25.57	24.92	24.78	24.34	25.01	26.70	28.57	29.39	---
HIGH	25.04	---	---	23.30	23.98	22.51	23.45	21.86	24.36	26.82	28.60	---

GROUND-WATER LEVELS

BROOME COUNTY

420657075583501. Local number, Bm 121.--continued



GROUND-WATER LEVELS
BROOME COUNTY

279

421138075511301. Local number, Bm 128.

LOCATION.--Lat 42°11'38", long 75°51'13", Hydrologic Unit 02050102, at end of Jeffery Drive on Chenango Forks School District property at Kattelville. Owner: U.S. Geological Survey.

AQUIFER.--Unconfined aquifer in sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 53 ft, cased to 48.5 ft, screened 48.5 to 53 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 908.58 ft above sea level. Measuring point: Double file mark on top of coupling, 3.20 ft above land-surface datum.

REMARKS.--Water level may be affected by pumping in nearby village and school wells.

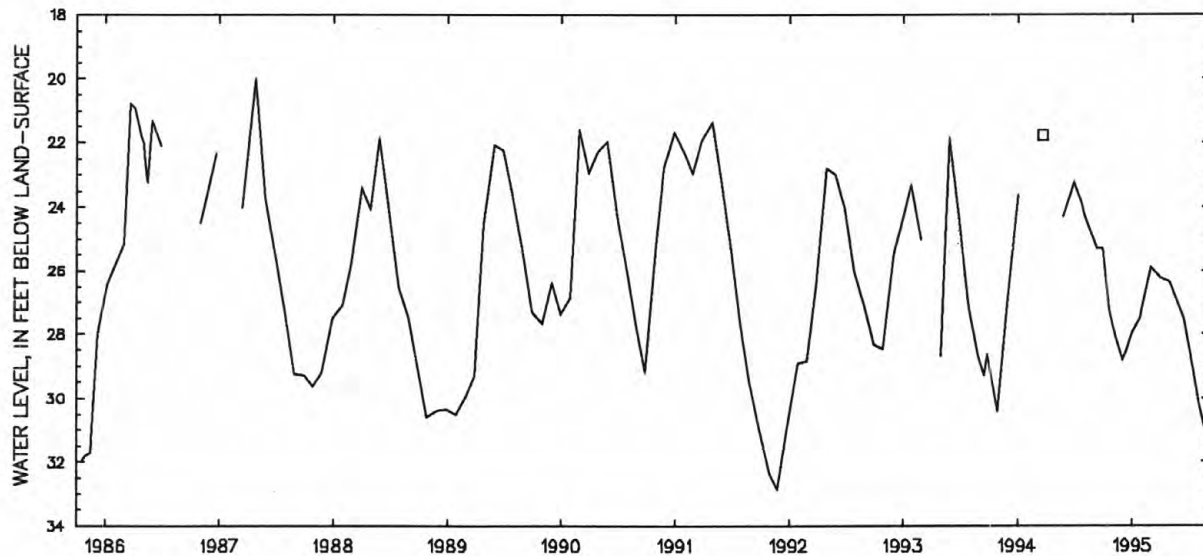
PERIOD OF RECORD.-- September 1980 to August 1995 (discontinued). Records for September 1980 to February 1982 are unpublished and available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.17 ft below land-surface datum, Apr. 16, 1984; lowest measured, 32.84 ft below land-surface datum, Nov. 26, 1991.

EXTREMES FOR CURRENT PERIOD.--Highest water level measured, 25.90 ft below land-surface datum, Mar. 1; lowest measured, 31.54 ft below land-surface datum, Aug. 30.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	27.23	DEC 09	28.56	JAN 30	27.19	APR 27	26.35	JUL 31	30.19
NOV 01	27.84	30	27.96	MAR 01	25.90	JUN 13	27.52	AUG 30	31.54
DEC 01	28.79	JAN 23	27.51	30	26.24	30	28.47		



GROUND-WATER LEVELS
BROOME COUNTY

421157075535401. Local number, Bm 129.

LOCATION.--Lat 42°11'57", long 75°53'54", Hydrologic Unit 02050102, near Castle Creek. Owner: New York State Department of Transportation.

AQUIFER.--Shales of Middle to Upper Devonian age.

WELL CHARACTERISTICS.--Drilled water supply-well, diameter 6 in, depth approximately 252 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 1105.75 ft above sea level. Measuring point: Top of coupling, 2.00 ft above land-surface datum.

REMARKS.--Well drilled by New York State Department of Transportation, originally intended as water-supply well for proposed rest area on Interstate Highway I-81.

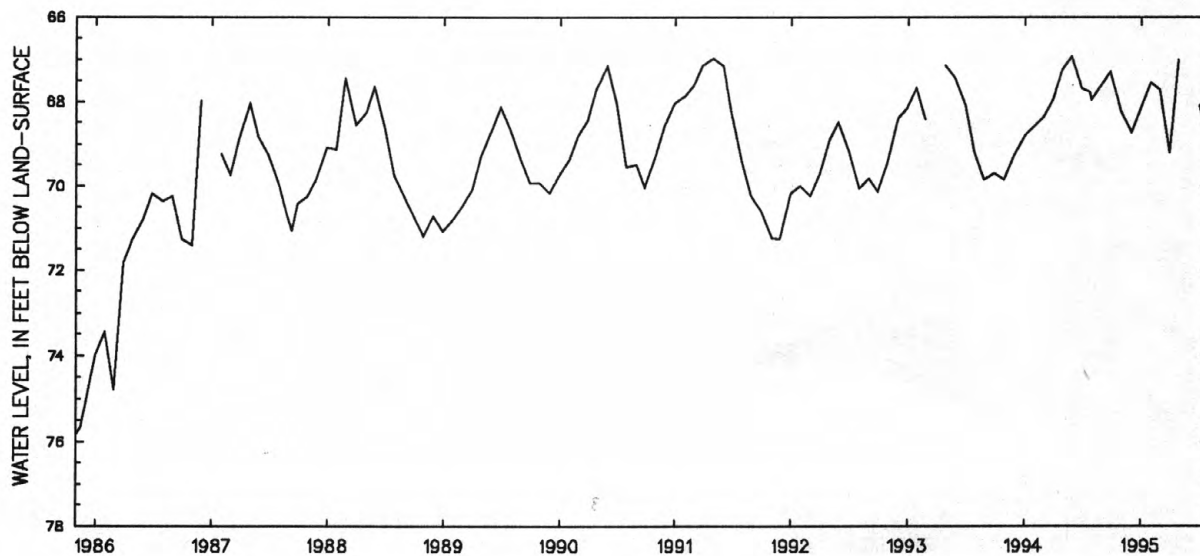
PERIOD-OF-RECORD.--November 1985 to August 1995 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 66.93 ft below land-surface datum, May 31, 1994; lowest measured, 75.83 ft below land-surface datum, Nov. 1, 1985.

EXTREMES FOR CURRENT PERIOD.--Highest water level measured, 66.99 ft below land-surface datum, April 28; lowest measured, 69.21 ft below land-surface datum, March 30.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	68.22	JAN 30	67.53	MAR 30	69.21	JUN 30	68.07
DEC 01	68.72	MAR 01	67.71	APR 28	66.99	JUL 31	69.06
30	68.14						



GROUND-WATER LEVELS
CATTARAUGUS COUNTY

281

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.

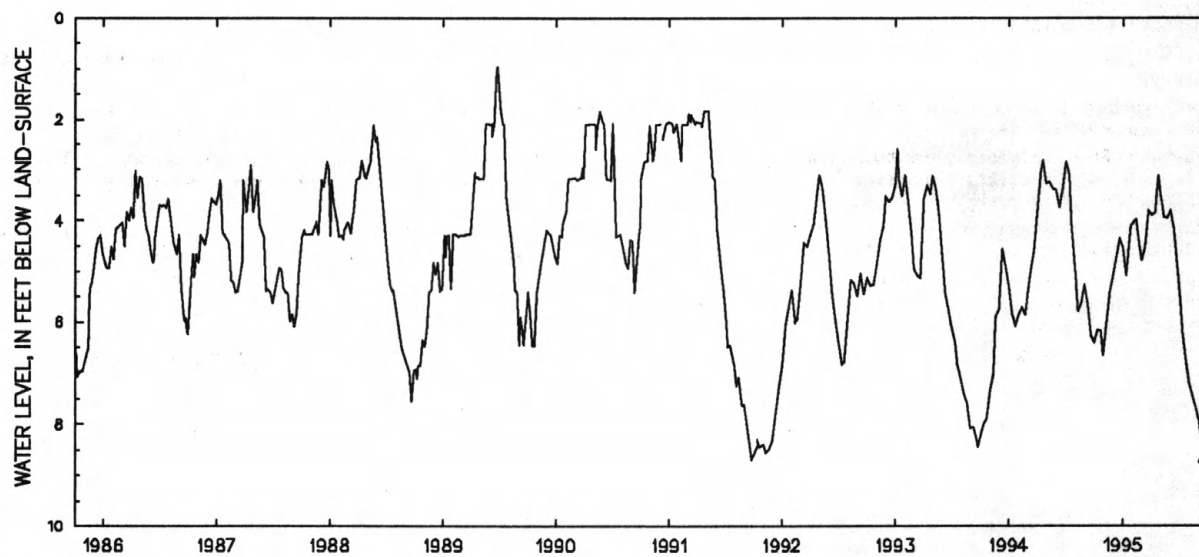
EXTREMES FOR CURRENT YEAR.--Highest water level recorded, 3.03 ft below land-surface datum, Apr. 19; lowest recorded, 8.77 ft below land-surface datum, Sept. 29.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	5.10	4.37	---	4.83	3.91	3.50	3.81	5.59	7.20	8.05
2	---	---	4.93	4.53	---	4.84	3.96	3.48	---	5.71	7.28	8.15
3	6.17	6.26	4.94	4.66	---	4.88	3.92	3.68	3.92	5.78	7.30	8.18
4	6.10	6.11	4.96	4.68	---	4.87	3.87	3.74	4.05	5.86	7.29	8.24
5	6.05	6.02	---	4.82	---	4.73	4.06	3.73	3.92	5.96	---	8.27
6	6.07	5.85	4.79	4.60	---	4.65	3.91	3.88	3.73	5.97	7.29	8.23
7	6.10	6.11	---	4.51	---	---	3.94	3.98	---	6.01	7.44	8.18
8	6.03	5.78	4.73	4.82	4.12	---	3.79	4.08	4.01	6.10	7.46	8.29
9	5.95	---	---	4.95	4.10	4.45	---	4.04	4.20	6.15	7.43	8.29
10	6.16	---	---	5.08	3.98	4.54	3.84	3.94	4.15	6.20	7.44	8.42
11	6.23	5.72	---	4.99	4.10	4.33	3.63	3.96	4.14	6.27	---	8.43
12	6.22	5.52	4.45	---	4.60	4.35	3.40	4.13	4.22	6.37	---	8.36
13	6.17	5.44	4.34	---	4.71	4.36	3.27	4.21	4.31	6.41	7.49	8.30
14	6.16	5.36	4.35	4.86	4.81	4.28	3.32	---	4.44	6.44	7.50	8.40
15	6.23	5.42	4.31	4.65	4.66	4.10	3.34	4.15	4.66	6.49	---	8.56
16	6.25	5.43	4.23	4.72	4.82	3.98	3.31	4.08	4.78	6.53	7.54	8.44
17	6.22	5.35	4.07	4.81	4.93	4.01	3.29	3.86	4.82	6.52	7.56	8.37
18	6.15	5.24	4.08	4.70	4.83	4.08	3.24	3.91	4.78	6.58	7.62	8.56
19	6.13	5.38	4.26	4.48	4.67	3.96	3.14	3.89	4.72	6.72	7.64	8.58
20	6.18	5.42	4.35	---	4.50	3.80	3.34	3.95	4.84	6.74	7.67	8.51
21	6.27	---	4.38	---	4.62	3.71	3.12	3.98	5.03	6.78	7.69	8.55
22	6.28	5.27	4.28	4.09	4.85	3.77	3.28	4.15	5.12	6.82	7.80	8.51
23	6.25	5.24	4.19	4.10	4.68	3.85	3.32	4.03	5.19	6.79	7.81	8.65
24	6.35	5.32	4.16	---	4.83	3.91	3.19	3.73	5.19	6.89	7.80	8.58
25	6.40	5.23	4.27	---	4.94	4.00	3.30	3.81	5.26	6.90	7.89	8.50
26	6.51	5.39	4.46	---	5.01	3.98	3.43	3.86	5.37	6.96	7.87	8.50
27	6.56	5.19	4.41	---	4.87	3.89	3.31	3.90	5.44	---	7.90	8.60
28	6.57	---	4.31	---	4.78	3.85	3.39	3.80	5.50	---	7.93	8.73
29	6.56	5.05	4.63	---	---	3.89	3.47	---	5.53	7.10	7.98	8.74
30	6.65	5.08	4.70	---	---	3.86	3.48	3.74	5.54	7.19	8.02	8.72
31	---	---	4.54	---	---	3.88	---	3.80	---	7.19	7.94	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	8.43
LOW	6.65	6.26	5.10	5.08	5.01	4.88	4.06	4.21	5.54	7.19	8.02	8.74
HIGH	5.95	5.05	4.07	4.09	3.98	3.71	3.12	3.48	3.73	5.59	7.20	8.05

GROUND-WATER LEVELS
CATTARAUGUS COUNTY

420530078445201. Local number, Ct 121--Continued.



GROUND-WATER LEVELS
CAYUGA COUNTY

283

424158076251901. Local number, Cy 7.

LOCATION.--Lat 42°41'58", long 76°25'19", Hydrologic Unit 04140201, near Moravia. Owner: Earl Van Pelt.

AQUIFER.--Unconfined aquifer in clayey gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 2.5 inch, depth 28 ft, cased to 26 ft, screened 26 ft to 28 ft with 1.25-inch well point.

INSTRUMENTATION.--Electronic data recorder--60-minute average (removed October 1994). Periodic measurement by USGS personnel.

DATUM.--Elevation of land-surface datum is 760.70 ft above sea level. Measuring point: Top of shelter base, 3.10 ft above land-surface datum.

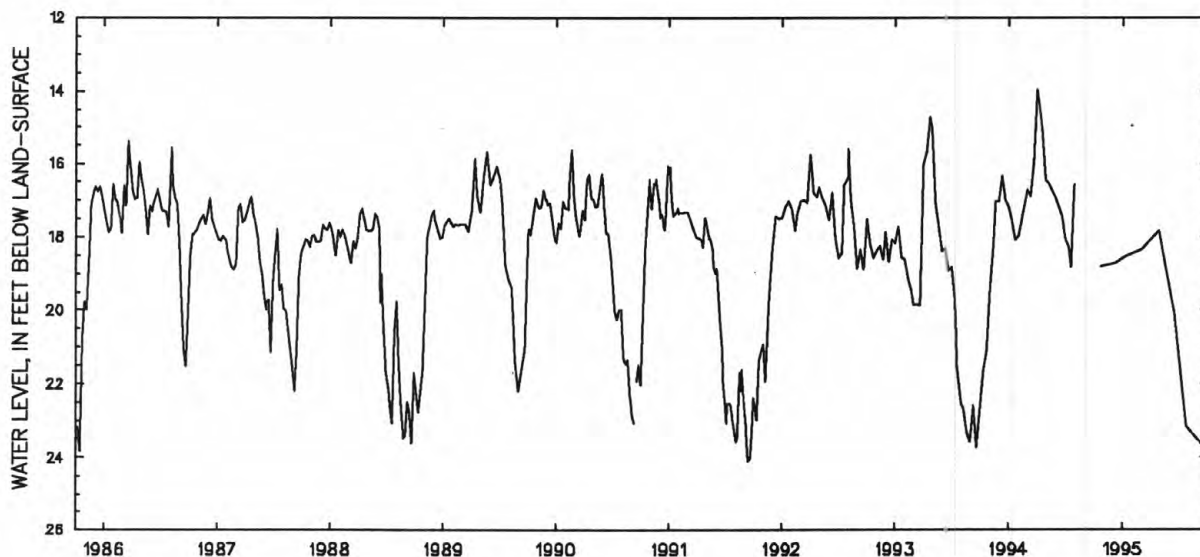
PERIOD OF RECORD.--December 1965 to August 1995 (discontinued). Records for December 1965 to September 1976 are unpublished and available in files of the Geological Survey. Prior to Feb. 22, 1989, weekly measurements with chalked tape by observer.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.91 ft below land-surface datum, June 26, 1972; lowest measured, 25.00 ft below land-surface datum, Sept. 19, 1983.

EXTREMES FOR CURRENT PERIOD.--Highest water level measured, 17.82 ft below land-surface datum, Apr. 24; lowest measured, 23.17 ft below land-surface datum, July 24.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	18.79	JAN 09	18.53	APR 24	17.82	JUL 24	23.17
DEC 05	18.69	FEB 27	18.35	JUN 14	20.05		



GROUND-WATER LEVELS
CHAUTAUQUA COUNTY

420326079295801. Local number, Cu 5.

LOCATION.--Lat 42°03'26", long 79°29'58", Hydrologic Unit 05010002, near Panama. Owner: New York State Department of Environmental Conservation.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused well, diameter 36 in, depth 33 ft, stone lined.

INSTRUMENTATION.--Prior to Apr. 17, 1990 and after Sep. 30, 1992, periodic measurement with chalked tape by USGS personnel. Electronic data recorder--60-minute average, Apr. 17, 1990 through Sep. 30, 1992.

DATUM.--Elevation of land surface datum is 1,752.51 ft above sea level. Measuring point: Top of 0.25-in steel-plate well cover, inside shelter door, 0.44 ft below land-surface datum.

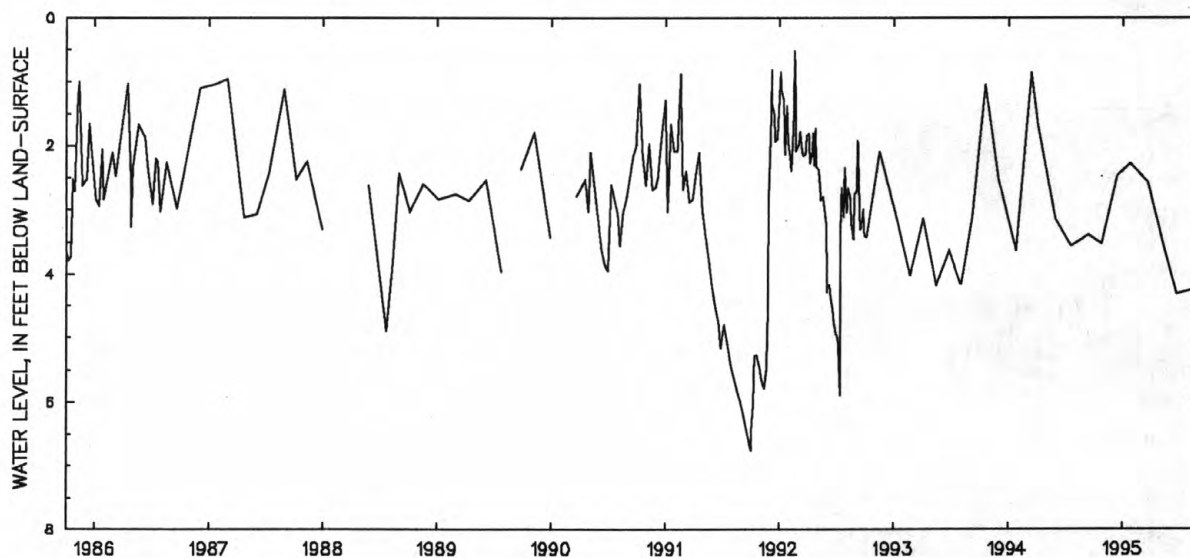
PERIOD OF RECORD.--May 1949 to August 1995 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.43 ft below land-surface datum, July 17, 1992; lowest measured, 9.41 ft below land-surface datum, May 24, 1949.

EXTREMES FOR CURRENT PERIOD.--Highest water level measured, 2.28 ft below land-surface datum, Jan. 25; lowest measured, 4.31 ft below land-surface datum, June 19.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	3.52	JAN 25	2.28	MAY 08	3.54	AUG 09	4.24
DEC 14	2.46	MAR 21	2.56	JUN 19	4.31		



GROUND-WATER LEVELS
CHAUTAUQUA COUNTY

285

420815079121401. Local number, Cu 10.

LOCATION.--Lat 42°08'15", long 79°12'14", Hydrologic Unit 05010002, at Falconer. Owner: City of Jamestown.

AQUIFER.--Confined aquifer in sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 12 inch to 10 inch, depth 232 ft, filled in from original depth of 240 ft, diameter 12 inch from 0 ft to 130 ft, diameter 10 inch from 130 ft to 240 ft, slotted 130 ft to 144 ft, open end.

INSTRUMENTATION.--Weekly measurements by City of Jamestown personnel. Prior to Dec. 14, 1978, Type F graphic recorder at same site and datum. Dec. 14, 1978 to Sept. 16, 1982, digital recorder every fifth day high water-level published. Sept. 1982 to Sept. 1987, twice-daily readings by City of Jamestown personnel, every fifth day high water-level published. Periodic measurements by USGS personnel

DATUM.--Elevation of land-surface datum is 1,252.52 ft above sea level. Measuring point: Top of well casing, 5.48 ft above land-surface datum.

REMARKS.--Water level affected by pumping from municipal well field.

PERIOD OF RECORD.--November 1939 to September 1943, August 1946 to August 1995 (discontinued). Records for November 1939 to September 1943, August 1946 to September 1976 are unpublished and available in files of the Geological Survey.

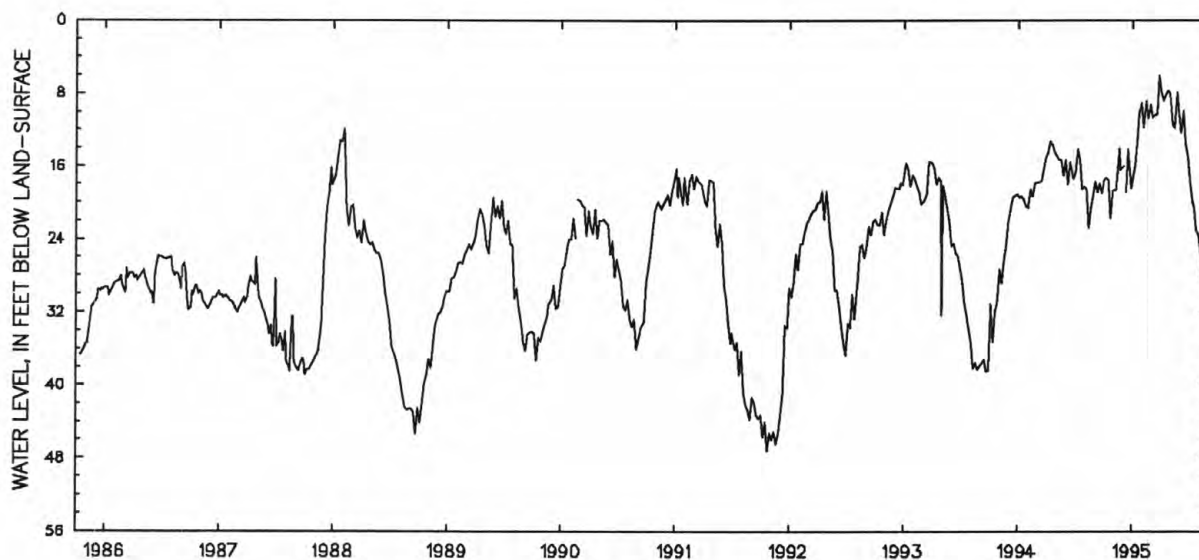
REVISED RECORD.--WDR NY-87-3: 1983-86. WDR NY-91-3: 1988-90.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.2 ft above land-surface datum, Mar. 14, 1942; lowest measured, 66.6 ft below land-surface datum, Nov. 3, 1971.

EXTREMES FOR CURRENT PERIOD.--Highest water level measured, 6.10 ft below land-surface datum, Mar. 24; lowest measured, 28.37 ft below land-surface datum, Aug. 11.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07	17.40	DEC 02	16.02	FEB 03	11.77	MAR 31	8.11	MAY 26	10.35	JUL 21	23.15
14	17.59	09	18.90	10	8.87	APR 07	8.79	JUN 02	12.39	28	23.52
21	21.76	16	14.12	17	10.74	13	8.08	09	9.90	AUG 04	25.22
28	18.82	28	18.39	24	9.22	21	7.80	16	13.48	11	28.37
NOV 04	18.7	JAN 06	15.87	MAR 03	10.61	28	8.03	23	14.96	18	27.17
10	18.67	13	13.52	10	10.40	MAY 05	11.50	30	17.49	25	28.33
18	14.02	20	10.23	17	10.26	12	11.68	JUL 07	19.90		
23	16.34	27	9.10	24	6.10	19	7.92	14	20.74		



GROUND-WATER LEVELS
CHAUTAUQUA COUNTY

420748079062701. Local number, Cu 104.

LOCATION.--Lat 42°07'48", long 79°06'27", Hydrologic Unit 05010002, 59 ft west of Conewango Creek, 20 ft north of County Highway 325 and 1 mi southeast of Poland Center. Owner: City of Jamestown.

AQUIFER.--Aquifer in sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 inch, depth 79 ft, screened 69 ft to 79 ft.

INSTRUMENTATION.--Digital recorder--60-minute punch.

DATUM.--Elevation of land-surface datum is 1,247.62 ft above sea level. Measuring point: Chiseled marks at top of metal shelter base, 6.22 ft above land-surface datum.

REMARKS.--Well drilled by the U.S. Geological Survey. The water level is affected by pumping from municipal well field and by stage of Conewango Creek, which is within 100 ft of the well.

PERIOD OF RECORD.--March 1983 to August 1995 (discontinued).

REVISED RECORDS.--WDR NY-88-3: 1987.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 2.80 ft above land-surface datum, Apr. 3, 1993; lowest, 21.30 ft below land-surface datum, Aug. 31, 1995.

EXTREMES FOR CURRENT PERIOD.--October 1994 to March 1995: Highest water level recorded, 4.69 ft below land-surface datum, Jan. 24; lowest recorded, 21.30 ft below land-surface datum, Aug. 31.

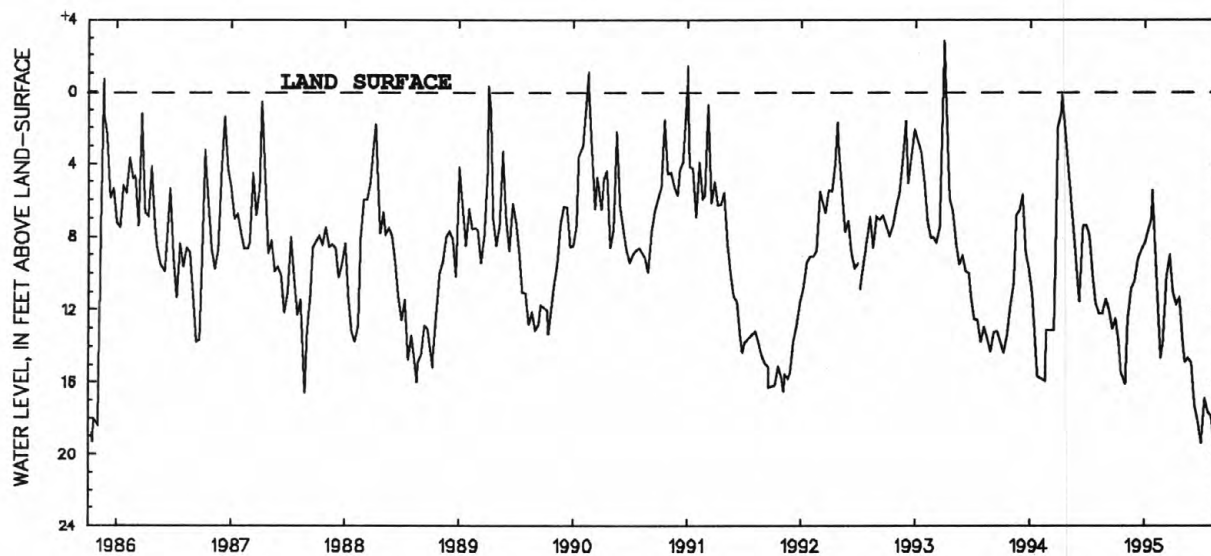
WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.28	15.91	10.54	9.05	8.14	14.24	11.86	14.49	15.17	19.02	18.47	---
2	11.93	15.32	10.63	8.87	8.89	13.79	11.41	15.00	16.01	18.35	18.96	---
3	11.74	14.90	10.14	9.16	---	13.25	11.38	14.76	16.47	18.16	19.35	---
4	11.67	14.65	10.34	9.53	---	13.00	11.38	14.37	16.08	17.47	19.68	---
5	12.62	13.32	10.47	9.79	---	12.79	11.41	14.20	15.73	---	19.32	---
6	13.15	13.20	10.43	---	---	12.61	11.53	14.14	15.79	---	19.05	---
7	13.07	13.16	10.38	---	---	13.22	12.74	14.04	16.55	---	18.80	---
8	13.77	12.91	10.16	---	---	12.61	12.71	14.89	17.05	---	18.73	---
9	13.45	12.76	10.09	---	---	11.32	11.68	15.04	17.49	---	18.85	---
10	13.84	12.54	9.20	---	---	10.12	11.69	14.85	17.30	16.91	19.34	---
11	14.36	11.69	9.16	---	---	9.25	12.34	15.08	16.81	17.03	19.47	---
12	14.96	11.55	8.41	10.82	---	9.53	12.95	14.99	16.54	16.88	19.81	---
13	15.26	11.38	8.11	10.78	---	8.74	13.36	15.56	16.47	16.74	19.02	---
14	15.22	11.29	8.64	10.72	---	8.08	12.98	14.99	17.23	17.09	18.82	---
15	15.51	11.39	8.74	9.29	---	7.87	11.90	14.66	17.76	17.89	19.33	---
16	15.19	11.42	8.98	9.14	13.82	9.03	11.75	14.36	17.66	17.71	19.83	---
17	15.21	11.49	9.27	8.77	14.39	9.72	11.50	14.85	17.26	17.64	20.21	---
18	15.25	11.52	9.17	8.12	14.88	9.22	11.37	15.40	17.93	18.34	20.49	---
19	15.60	11.63	8.35	7.54	14.85	8.98	11.25	14.96	17.96	17.79	20.32	---
20	15.44	10.85	8.73	7.03	14.68	9.01	11.31	14.65	18.18	17.64	19.97	---
21	15.68	10.94	8.81	6.42	14.71	8.99	11.21	14.52	18.61	17.50	19.77	---
22	15.40	11.25	8.86	5.88	14.30	8.90	11.15	14.54	18.84	17.37	19.90	---
23	15.61	11.33	9.20	5.52	14.09	8.85	11.26	14.62	19.08	17.28	20.45	---
24	16.43	10.89	8.69	5.45	14.10	9.92	11.25	14.88	19.35	17.68	20.82	---
25	16.94	10.52	8.94	5.56	14.14	10.27	11.88	15.65	19.57	18.42	20.77	---
26	16.86	10.86	8.04	6.50	14.15	9.97	12.16	16.14	19.47	18.09	20.43	---
27	16.44	10.24	8.61	7.82	13.94	9.97	12.52	15.84	19.26	17.94	20.19	---
28	16.96	10.16	9.01	7.47	13.72	9.99	13.38	15.47	18.90	17.72	20.22	---
29	17.19	10.29	9.29	7.55	---	10.28	13.37	15.23	18.96	17.55	20.21	---
30	16.74	10.45	9.01	7.67	---	10.87	13.67	15.04	19.42	17.58	20.76	---
31	16.08	---	8.36	7.91	---	11.02	---	14.90	---	17.88	21.15	---
MEAN	14.83	11.99	9.25	---	---	10.50	12.01	14.91	17.63	---	19.76	---
LOW	17.19	15.91	10.63	---	---	14.24	13.67	16.14	19.57	---	21.15	---
HIGH	11.67	10.16	8.04	---	---	7.87	11.15	14.04	15.17	---	18.47	---

GROUND-WATER LEVELS
CHAUTAUQUA COUNTY

287

420748079062701. Local number, Cu 104--Continued.



GROUND-WATER LEVELS
CHEMUNG COUNTY

420829076484801. Local number, Cm 46.

LOCATION.--Lat 42°08'29", long 76°48'48", Hydrologic Unit 02050105, near Horseheads. Owner: 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, 22.87 ft below land-surface datum, Jan. 21; lowest water level recorded, 25.65 ft below land-surface datum, Aug. 3, 4.

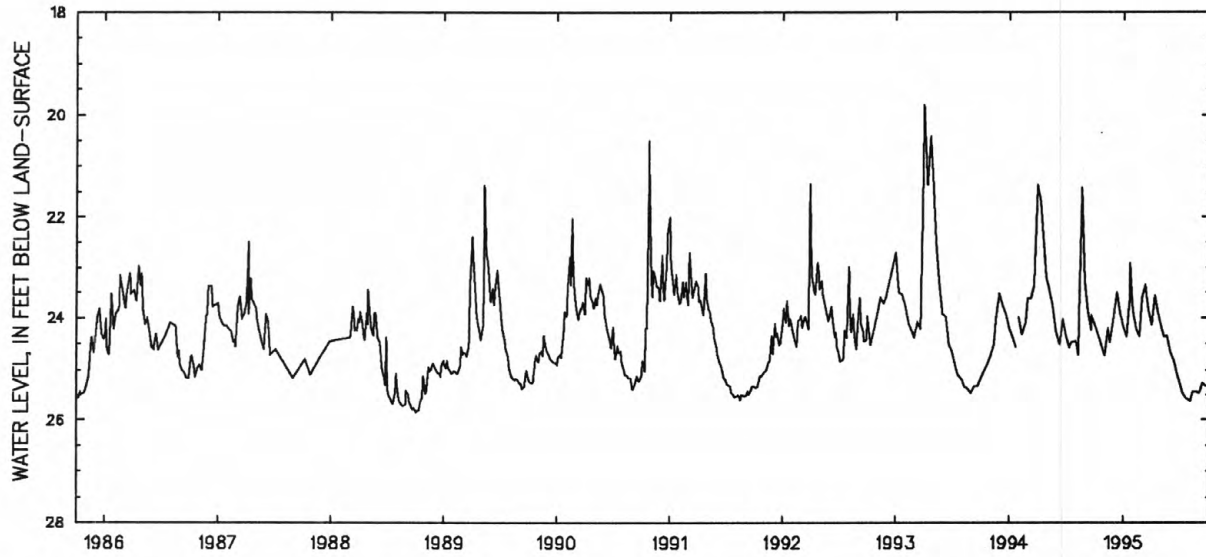
WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.00	---	24.15	24.12	23.92	23.35	24.15	24.16	24.68	25.32	25.61	25.42
2	23.85	---	24.20	24.04	23.94	23.61	24.18	24.19	24.71	25.33	25.61	25.44
3	23.96	---	24.25	24.10	24.00	23.78	24.21	24.21	24.62	25.36	25.62	25.45
4	24.06	---	24.28	24.16	24.02	23.87	24.00	24.24	24.59	25.38	25.56	25.46
5	24.12	---	23.57	24.24	24.04	23.92	23.87	24.26	24.65	25.40	25.28	25.47
6	24.17	---	23.17	24.27	24.09	23.79	23.99	24.28	24.72	25.41	25.19	25.49
7	24.22	---	23.29	24.29	24.12	23.53	24.04	24.31	24.76	25.42	25.31	25.49
8	24.26	24.15	23.24	24.31	24.15	23.12	24.06	24.32	24.75	25.44	25.37	25.49
9	24.29	24.19	23.43	24.34	24.19	23.06	23.91	24.35	24.80	25.45	25.41	25.31
10	24.31	24.19	23.49	24.37	24.22	23.34	23.55	24.37	24.84	25.45	25.44	25.26
11	24.34	24.23	23.44	24.40	24.23	23.47	23.60	24.34	24.86	25.46	25.47	25.31
12	24.35	---	23.50	24.41	24.26	23.41	23.60	24.12	24.84	25.48	25.47	25.35
13	24.35	---	23.65	24.37	24.29	23.41	23.44	24.13	24.86	25.51	25.47	25.34
14	24.37	24.32	23.74	24.31	24.31	23.51	23.43	24.19	24.89	25.53	25.50	25.11
15	24.39	24.35	23.80	24.21	24.34	23.58	23.50	24.20	24.95	25.54	25.50	25.20
16	24.40	24.37	23.83	23.77	24.37	23.63	23.61	24.22	24.99	25.55	25.17	25.29
17	24.43	24.39	23.88	23.85	24.38	23.68	23.70	24.26	25.02	25.55	25.25	25.31
18	24.46	24.43	23.85	23.96	24.40	23.74	23.78	24.28	25.05	25.54	25.35	25.30
19	---	24.44	23.87	24.02	24.40	23.80	23.82	24.31	25.08	25.56	25.41	25.32
20	---	24.47	23.90	23.63	24.37	23.85	23.85	24.35	25.10	25.57	25.43	25.34
21	24.48	---	23.95	22.92	24.25	23.87	23.90	24.39	25.13	25.57	25.44	25.37
22	24.54	24.38	23.98	23.01	24.23	23.84	23.92	24.43	25.16	25.58	25.44	25.34
23	---	24.40	24.01	23.25	24.24	23.86	23.95	24.49	25.19	25.59	25.45	25.29
24	---	24.44	24.01	23.40	24.05	23.90	23.99	24.51	25.17	25.59	25.44	25.32
25	24.62	24.46	23.97	23.51	24.10	23.96	24.04	24.46	25.18	25.57	25.44	25.30
26	24.66	24.46	24.00	23.58	24.17	24.01	24.09	24.50	25.21	25.55	25.43	25.28
27	24.68	24.48	24.03	23.65	24.22	24.05	24.13	24.54	25.23	25.55	25.43	25.29
28	24.68	24.26	24.06	23.72	23.59	24.08	24.10	24.56	25.26	25.56	25.43	25.30
29	24.71	23.95	24.08	23.81	---	24.11	24.10	24.57	25.28	25.58	25.44	25.30
30	24.73	24.07	24.13	23.85	---	24.13	24.13	24.59	25.30	25.59	25.44	25.31
31	24.73	---	24.17	23.88	---	24.14	---	24.64	---	25.60	25.45	---
MEAN	---	---	23.84	23.93	24.17	23.72	23.89	24.35	24.96	25.50	25.43	25.34
LOW	---	---	24.28	24.41	24.40	24.14	24.21	24.64	25.30	25.60	25.62	25.49
HIGH	---	---	23.17	22.92	23.59	23.06	23.43	24.12	24.59	25.32	25.17	25.11

GROUND-WATER LEVELS
CHEMUNG COUNTY

289

420829076484801. Local number, Cm 46--Continued.



GROUND-WATER LEVELS
CHENANGO COUNTY

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, 7.58 ft below land-surface datum, Jan. 25, 26; lowest, 12.01 ft below land-surface datum, Sep. 13, 14.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.07	10.35	9.78	9.60	8.52	9.10	9.19	9.39	9.85	10.90	9.99	11.57
2	10.05	10.36	9.68	9.61	8.68	8.98	9.25	9.42	9.85	10.96	10.01	11.62
3	10.04	10.34	9.59	9.59	8.84	8.85	9.31	9.46	9.85	11.01	10.08	11.67
4	10.03	10.23	9.54	9.55	8.98	8.75	9.36	9.49	9.86	11.06	10.19	11.71
5	10.03	10.09	9.51	9.50	9.10	8.70	9.41	9.52	9.88	11.09	10.33	11.76
6	10.05	9.98	9.48	9.46	9.20	8.69	9.44	9.55	9.89	11.10	10.46	11.80
7	10.06	9.89	9.39	9.44	9.28	8.67	9.45	9.57	9.90	11.10	10.59	11.84
8	10.08	9.83	9.27	9.43	9.32	8.64	9.45	9.60	9.92	11.11	10.69	11.88
9	10.10	9.80	9.13	9.43	9.33	8.57	9.45	9.62	9.93	11.11	10.75	11.91
10	10.12	9.78	9.00	9.44	9.34	8.35	9.46	9.64	9.95	11.13	10.79	11.94
11	10.14	9.78	8.91	9.46	9.35	8.09	9.47	9.66	9.98	11.15	10.82	11.96
12	10.15	9.78	8.84	9.48	9.36	7.93	9.46	9.68	10.00	11.17	10.87	11.99
13	10.15	9.79	8.78	9.48	9.39	7.85	9.44	9.69	10.01	11.19	10.93	12.01
14	10.16	9.81	8.75	9.47	9.43	7.81	9.39	9.71	10.01	11.21	11.00	12.01
15	10.18	9.83	8.74	9.43	9.48	7.76	9.29	9.72	9.99	11.23	11.07	11.98
16	10.20	9.85	8.76	9.38	9.52	7.72	9.16	9.73	9.99	11.26	11.13	11.92
17	10.22	9.87	8.81	9.30	9.56	7.70	9.04	9.75	9.99	11.29	11.19	11.85
18	10.25	9.90	8.88	9.20	9.59	7.71	8.98	9.76	10.00	11.30	11.19	11.77
19	10.28	9.91	8.96	9.09	9.60	7.75	8.94	9.77	10.03	11.28	11.09	11.68
20	10.31	9.93	9.04	9.00	9.60	7.83	8.94	9.79	10.07	11.15	10.98	11.61
21	10.33	9.95	9.13	8.91	9.59	7.95	8.96	9.80	10.13	10.85	10.91	11.55
22	10.34	9.96	9.20	8.64	9.57	8.08	8.98	9.81	10.20	10.57	10.90	11.51
23	10.31	9.97	9.28	8.15	9.55	8.22	9.01	9.83	10.28	10.38	10.92	11.48
24	10.28	9.97	9.34	7.76	9.52	8.36	9.06	9.84	10.37	10.27	10.98	11.46
25	10.25	9.97	9.40	7.60	9.44	8.48	9.10	9.86	10.46	10.22	11.06	11.44
26	10.23	9.96	9.46	7.59	9.35	8.60	9.15	9.87	10.55	10.21	11.14	11.38
27	10.23	9.97	9.49	7.66	9.26	8.70	9.21	9.88	10.64	10.20	11.23	11.26
28	10.24	9.97	9.50	7.79	9.20	8.82	9.26	9.87	10.71	10.16	11.31	11.16
29	10.26	9.95	9.53	7.97	---	8.92	9.31	9.86	10.79	10.11	11.39	11.07
30	10.29	9.89	9.55	8.16	---	9.02	9.35	9.85	10.84	10.06	11.45	11.02
31	10.32	---	9.58	8.34	---	9.11	---	9.85	---	10.01	11.51	---
MEAN	10.19	9.96	9.24	8.93	9.32	8.38	9.24	9.70	10.13	10.83	10.87	11.66
LOW	10.34	10.36	9.78	9.61	9.60	9.11	9.47	9.88	10.84	11.30	11.51	12.01
HIGH	10.03	9.78	8.74	7.59	8.52	7.70	8.94	9.39	9.85	10.01	9.99	11.02

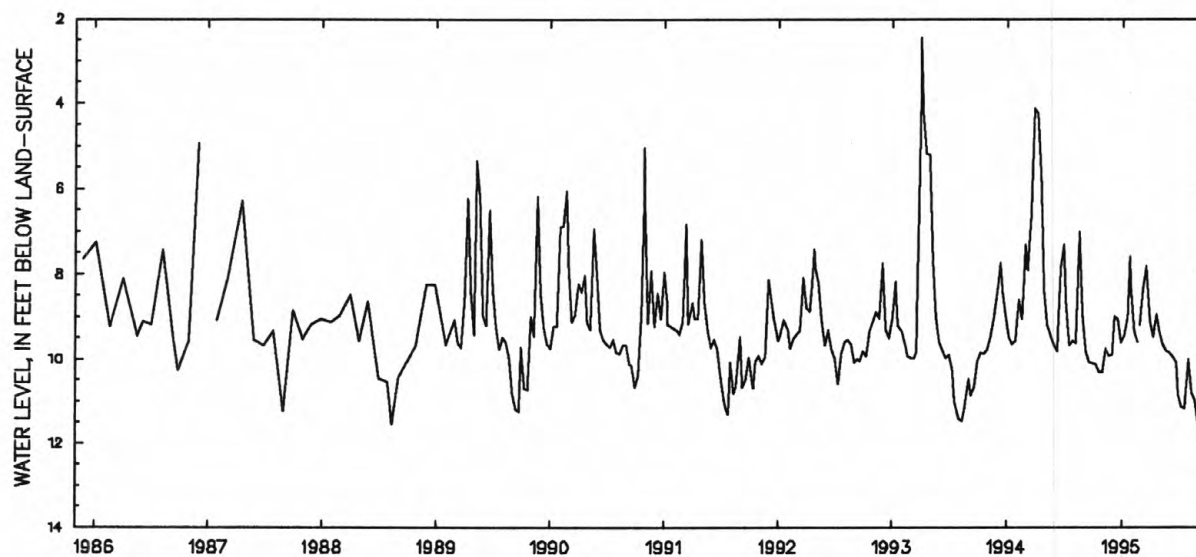
CAL YR 1994 MEAN 8.79 HIGH 4.00 LOW 10.36

WTR YR 1995 MEAN 9.87 HIGH 7.59 LOW 12.01

GROUND-WATER LEVELS
CHENANGO COUNTY

291

421556075281602. Local number, Cn 12--Continued.



GROUND-WATER LEVELS
CORTLAND COUNTY

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.

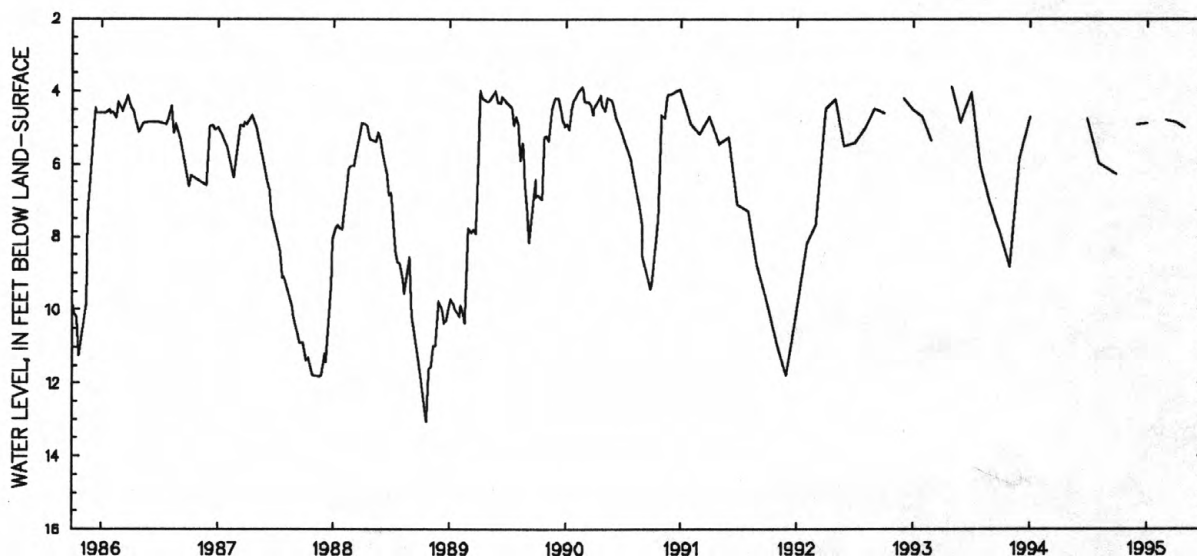
PERIOD OF RECORD.--October 1975 to current year. Records for October 1975 to September 1977 are unpublished and available in files of the Geological Survey.

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, 4.77 ft below land-surface datum, Mar. 1; lowest measured, 5.86 ft below land-surface datum, June 30.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 01	4.90	DEC 30	4.88	MAR 01	4.77	MAR 30	4.83	APR 28	4.98	JUN 30	5.86



GROUND-WATER LEVELS
MADISON COUNTY

293

430056075354102. Local number, M 178.

LOCATION.--Lat 43°00'56", long 75°35'41", Hydrologic Unit 04140202, at Valley Mills. Owner: Donald L. Greene.

AQUIFER.--Unconfined aquifer in gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 inch, depth 16 ft, cased to 16 ft, open end.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel. April 1975 to May 1986, digital recorder at same site and datum. Weekly observer readings May 1986 to Dec. 1988. Dec. 1988 to Feb. 1991, electronic data recorder at same site and datum.

DATUM.--Elevation of land-surface datum is 573.76 ft above sea level. Measuring point: Top of flange, 3.07 ft above land-surface datum.

REMARKS.--Well drilled April 1974 as a replacement for 430056075354101 (local number M 177), located 10 ft west, which has a period of record from October 1965 to September 1973 (unpublished).

PERIOD OF RECORD.--April 1975 to August 1995 (discontinued). Records for April 1975 to September 1976 are unpublished and available in files of the Geological Survey.

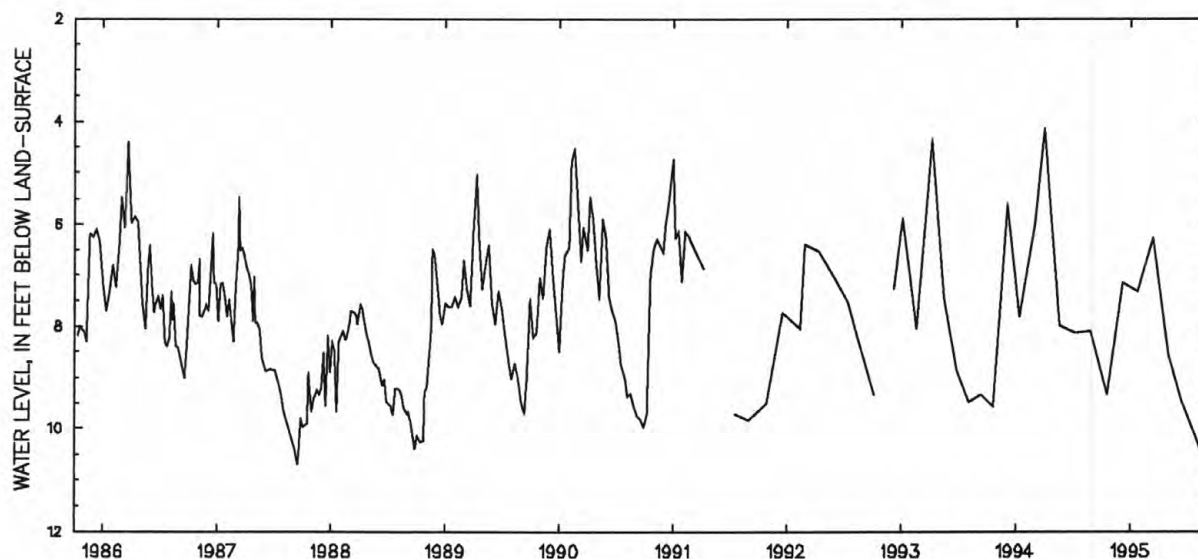
REVISED RECORDS.--WDR NY-91-3: 1990 water level.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.60 ft below land-surface datum, Mar. 5, 1979; lowest, 10.97 ft below land-surface datum, Oct. 24, 25, 1980.

EXTREMES FOR CURRENT PERIOD.--Highest water level measured, 6.28 ft below land-surface datum, Mar. 15; lowest measured, 10.42 ft below land-surface datum, Aug. 9.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 17	9.33	JAN 25	7.33	MAY 03	8.55	AUG 09	10.42
DEC 08	7.16	MAR 15	6.28	JUN 14	9.48		



GROUND-WATER LEVELS

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.

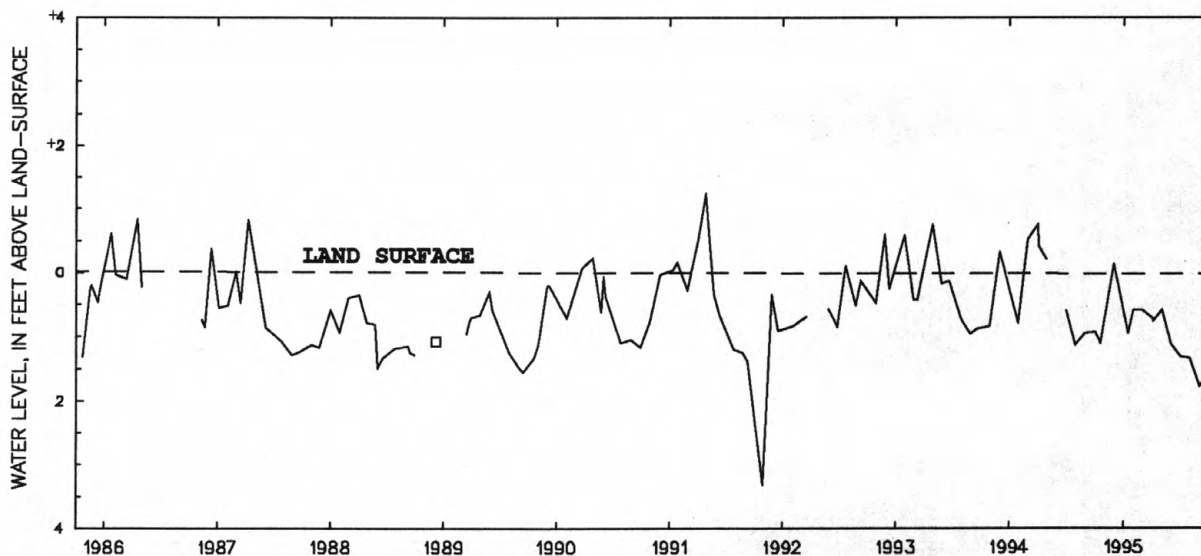
PERIOD OF RECORD.--September 1984 to current year.

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, 0.14 ft above land-surface datum, Nov. 28; lowest measured, 1.77 ft below land-surface datum, Aug. 31.

WATER LEVEL, IN FEET ABOVE (+) OR BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	1.10	FEB 01	.58	APR 04	.75	MAY 31	1.12	JUL 28	1.34	SEP 29	1.55
NOV 28	+1.14	28	.59	MAY 03	.59	JUN 30	1.32	AUG 31	1.77		
JAN 13	.94	MAR 31	.72								



GROUND-WATER LEVELS

295

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.

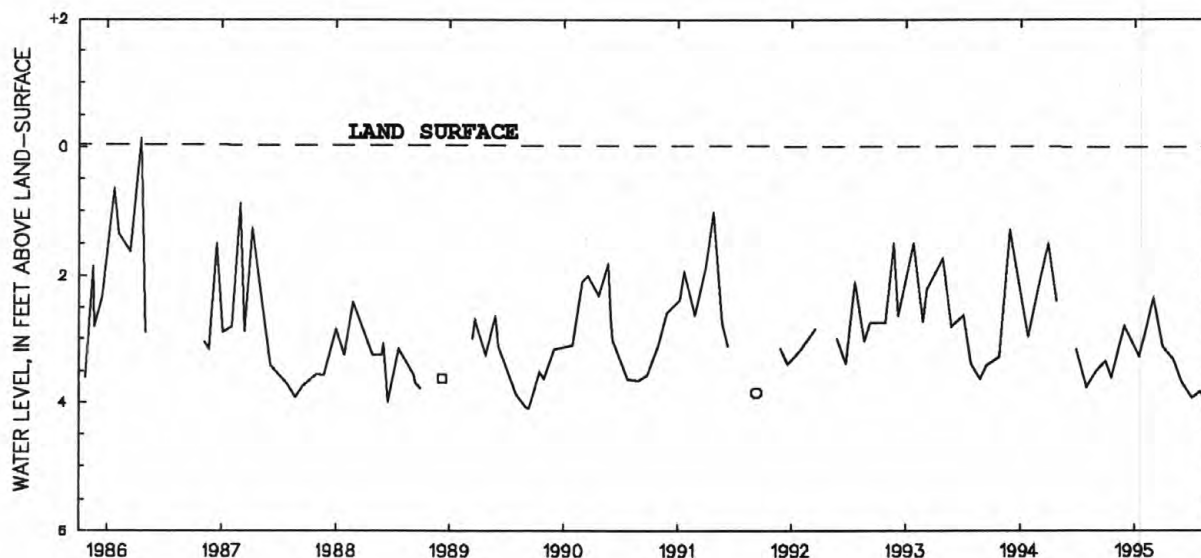
PERIOD OF RECORD.--September 1984 to current year.

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, 2.34 ft feet below land-surface datum, Feb. 28; lowest measured, 4.17 ft below land-surface datum, Aug. 31.

WATER LEVEL, IN FEET ABOVE (+) OR BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	3.60	JAN 13	3.27	FEB 28	2.34	APR 04	3.14	MAY 31	3.68	JUL 28	3.83
NOV 28	2.78	FEB 01	2.96	MAR 31	3.13	MAY 03	3.32	JUN 30	3.93	AUG 31	4.17



MONROE COUNTY

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.

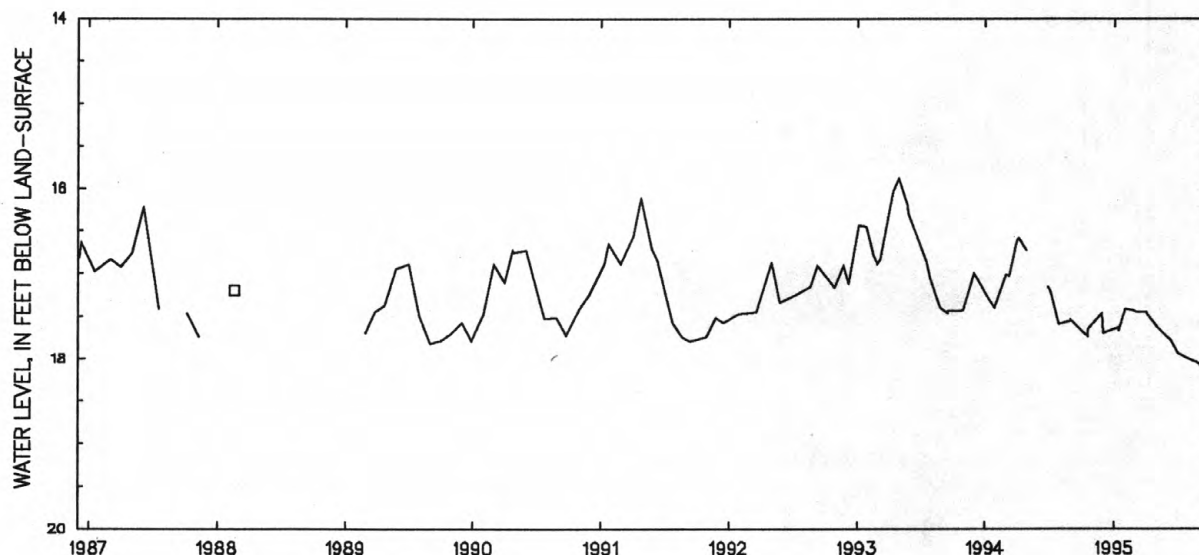
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.89 ft below land-surface datum, Apr. 30, 1993; lowest measured, 18.61 ft below land-surface datum, Dec. 5, 1986.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 17.41 ft below land-surface datum, Feb. 1; lowest measured, 18.21 ft below land-surface datum, Sept. 29.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	17.73	JAN 13	z17.63	MAR 03	z17.45	MAY 31	17.74	JUL 28	18.00	SEP 15	z18.20
19	z17.65	13	17.67	31	17.45	JUN 08	17.77	AUG 31	18.07	29	18.21
NOV 28	17.46	FEB 01	17.41	APR 04	17.48	08	z17.77				
DEC 01	z17.69	28	17.44	MAY 03	17.63	30	17.94				

z Measured by USGS personnel.



GROUND-WATER LEVELS
MONROE COUNTY

297

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.

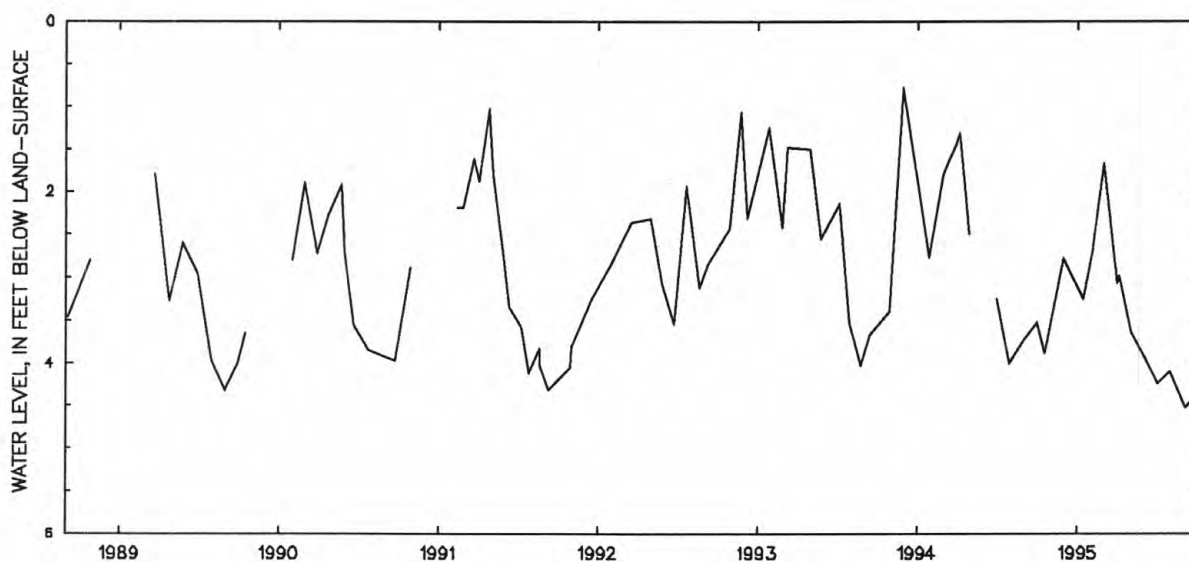
PERIOD OF RECORD.--September 1988 to current year.

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, 1.67 ft below land-surface datum, Feb 28; lowest measured, 4.53 ft below land-surface datum, Aug. 31.

WATER, LEVEL IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	3.88	FEB 01	2.71	APR 04	2.98	MAY 31	3.94	JUL 28	4.10	SEP 29	4.36
NOV 28	2.78	28	1.67	MAY 03	3.64	JUN 30	4.25	AUG 31	4.53		
JAN 13	3.24	MAR 31	3.06								



GROUND-WATER LEVELS

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.

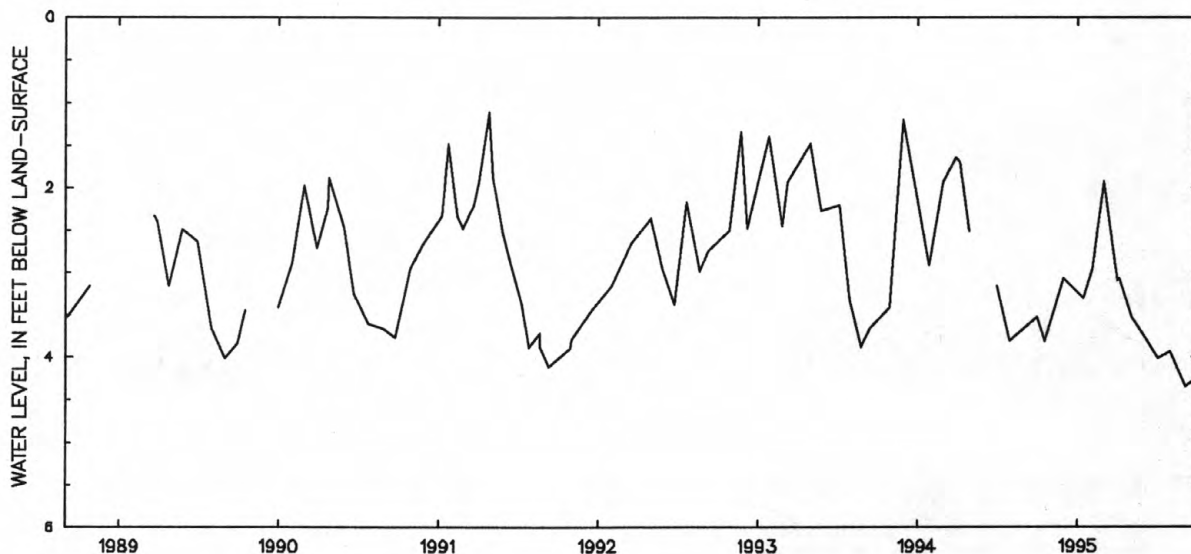
PERIOD OF RECORD.--September 1988 to current year.

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, 1.92 ft below land-surface datum, Feb. 28; lowest measured, 4.35 ft below land-surface datum, Aug. 31.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	3.81	FEB 01	2.96	MAR 31	3.09	MAY 03	3.52	JUN 30	4.01	AUG 31	4.35
NOV 28	3.07	28	1.92	APR 04	3.06	31	3.77	JUL 28	3.94	SEP 29	4.25
JAN 13	3.30										



GROUND-WATER LEVELS

299

MONROE COUNTY

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.

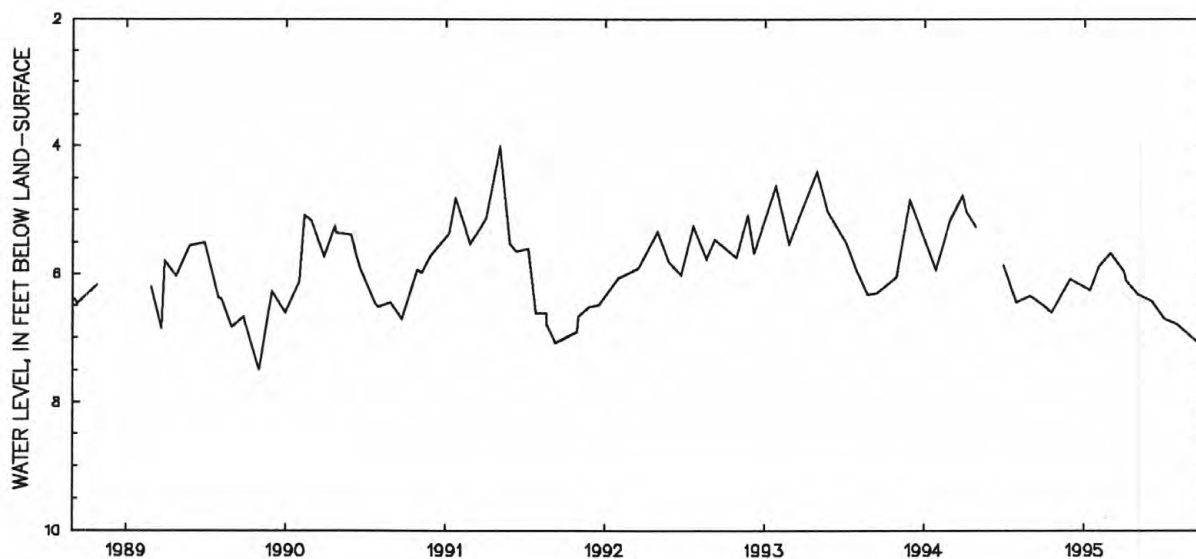
PERIOD OF RECORD.--September 1988 to current year.

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, 5.68 ft below land-surface datum, Feb. 28; lowest measured, 7.13 ft below land-surface datum, Sept 29.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	6.60	FEB 01	5.88	MAR 31	5.97	MAY 03	6.33	JUN 30	6.71	AUG 31	7.00
NOV 28	6.08	28	5.68	APR 04	6.10	31	6.43	JUL 28	6.79	SEP 29	7.13
JAN 13	6.26										



GROUND-WATER LEVELS

MONROE COUNTY

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.

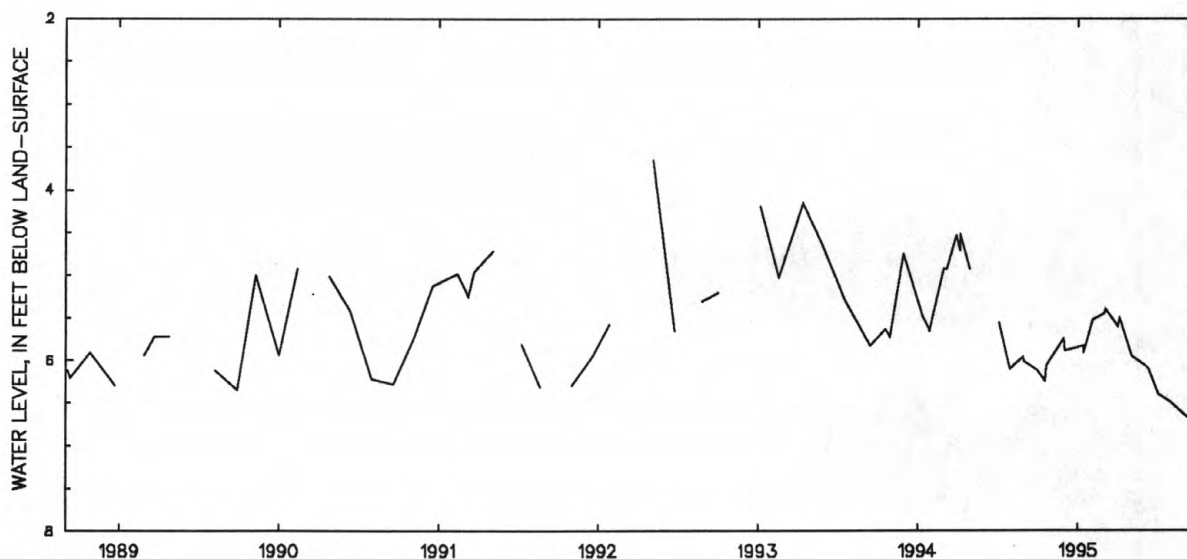
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.66 ft below land-surface datum, Mar 6, 1992; lowest measured, 6.75 ft below land-surface datum, Sept. 29, 1995.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 5.40 ft below land-surface datum, Mar. 3; lowest measured, 6.75 ft below land-surface datum, Sept. 29.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	6.24	JAN 13	z5.82	MAR 03	z5.40	MAY 31	6.07	JUL 28	6.49	SEP 15	z6.69
19	z6.07	13	5.91	31	5.60	JUN 08	z6.10	AUG 31	6.65	29	6.75
NOV 28	5.75	FEB 01	5.53	APR 04	5.50	08	6.10				
DEC 01	z5.89	28	5.45	MAY 03	5.95	30	6.40				

z Measured by USGS personnel.



GROUND-WATER LEVELS

301

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.

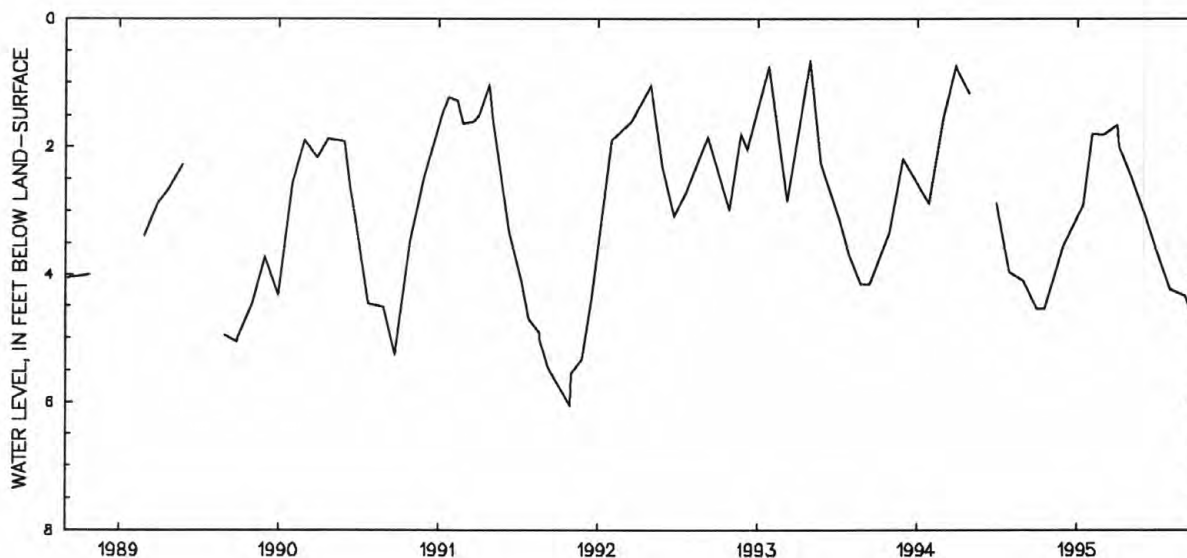
PERIOD OF RECORD.--September 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.65 ft below land-surface datum, Apr. 30, 1993; lowest measured, 6.06 ft below land-surface datum, Oct. 29, 1991.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 1.66 ft below land-surface datum, Mar. 31; lowest measured, 4.89 ft below land-surface datum, Sept. 29.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	4.54	FEB 01	1.80	MAR 31	1.66	MAY 03	2.46	JUN 30	3.68	AUG 31	4.35
NOV 28	3.55	28	1.82	APR 04	2.00	31	3.04	JUL 28	4.24	SEP 29	4.89
JAN 13	2.90										



GROUND-WATER LEVELS

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.

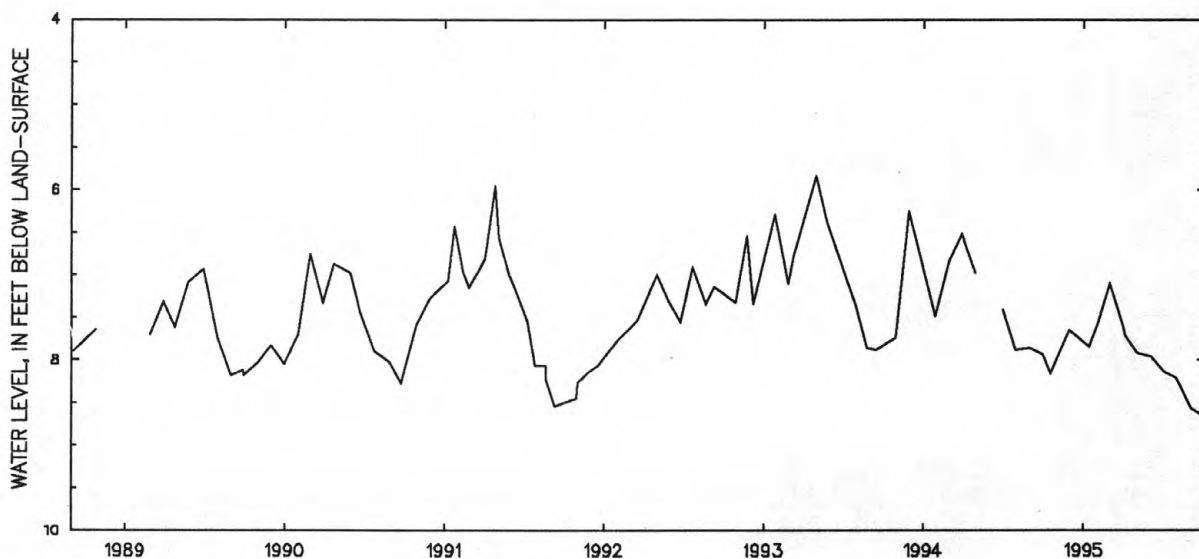
PERIOD OF RECORD.--September 1988 to current year.

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, 7.10 ft below land-surface datum, Feb. 28; lowest measured, 8.65 ft below land-surface datum, Sept. 29.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	8.16	FEB 01	7.56	MAR 31	7.62	MAY 03	7.92	JUN 30	8.13	AUG 31	8.57
NOV 28	7.66	28	7.10	APR 04	7.72	31	7.96	JUL 28	8.20	SEP 29	8.65
JAN 13	7.85										



GROUND-WATER LEVELS
NIAGARA COUNTY

303

430655079022001. Local number, Ni 69.

LOCATION.--Lat 43°06'55", long 79°02'20", Hydrologic Unit 04120104, 20th Street and Beech Avenue, Niagara Falls. Owner: City of Niagara Falls.

AQUIFER.--Confined and unconfined zones in Lockport Dolomite of Middle Silurian age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 inch to 6 inch, depth 36 ft, cased 8 inch from 0 to 17 ft, 6 inch diameter hole from 17 to 36 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 595.61 ft sea level. Measuring point: top of 2 in plug in top of 8 in extended casing, 3.60 ft above land-surface datum.

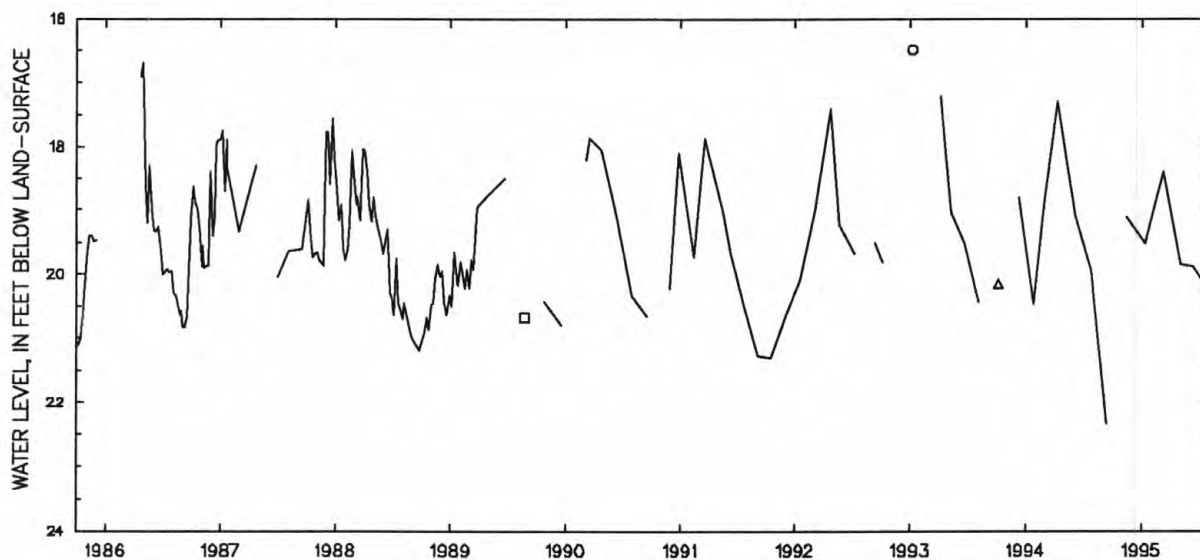
PERIOD OF RECORD.--October 1958 to August 1995 (discontinued). Records for October 1958 to September 1976 are unpublished and available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.00 ft below land-surface datum, Feb. 25, 1985; lowest measured, 22.32 ft below land-surface datum, Sep. 13, 1994.

EXTREMES FOR CURRENT PERIOD.--Highest water level measured, 18.40 ft below land-surface datum, Mar. 7; lowest measured, 20.20 ft below land-surface datum, July 26.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 16	19.12	MAR 07	18.40	JUN 09	19.88	JUL 26	20.20
JAN 11	19.52	MAY 02	19.85				



GROUND-WATER LEVELS
NIAGARA COUNTY

431308078544501. Local number, N1 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.

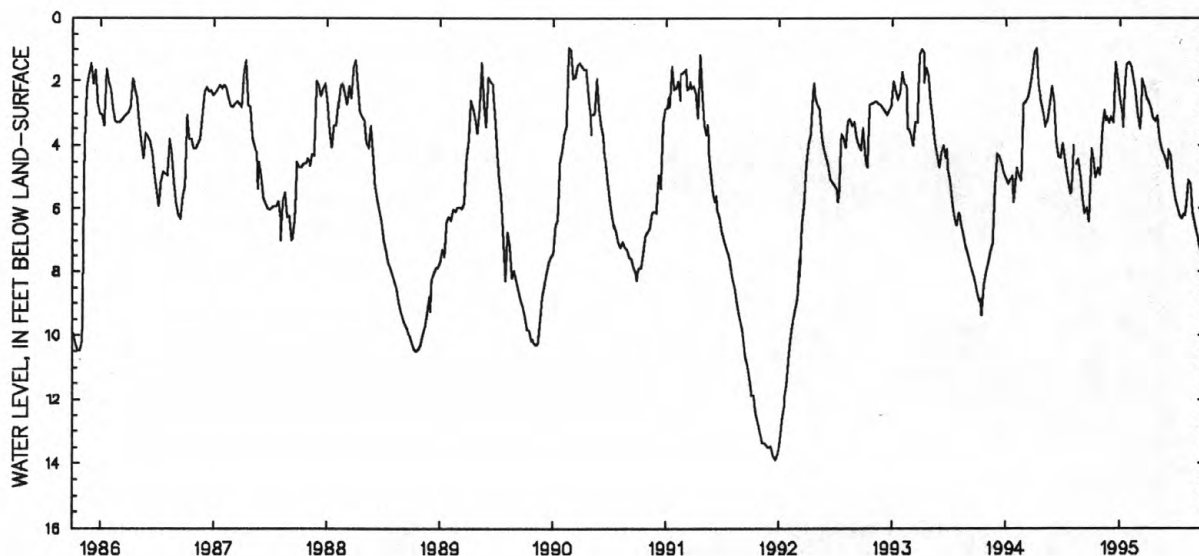
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 1.40 ft below land-surface datum, Dec. 17; lowest measured, 8.02 ft below land-surface datum, Sept. 30.

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 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01	4.10	DEC 10	3.27	FEB 18	2.34	APR 29	3.07	JUN 24	5.68	AUG 26	6.41
08	4.46	17	1.40	25	2.95	MAY 02	z3.55	JUL 01	5.93	SEP 02	6.79
15	4.99	24	2.00	MAR 04	3.50	06	3.85	08	6.24	05	z6.93
22	4.73	31	2.57	07	z2.98	13	4.13	15	6.30	05	6.93
29	4.92	JAN 06	3.00	11	1.92	20	4.35	22	6.17	09	7.10
NOV 05	3.39	11	z3.43	18	2.18	27	4.53	26	z6.17	16	7.43
12	2.90	14	2.25	25	2.50	31	4.73	26	6.18	24	7.72
16	z3.22	21	1.47	APR 01	2.67	JUN 03	4.14	29	5.85	30	8.02
19	3.13	28	1.42	08	2.83	09	z4.34	AUG 05	5.10		
26	3.28	FEB 04	1.50	15	3.15	09	4.35	12	5.21		
DEC 04	3.12	11	1.95	22	3.24	17	5.14	19	6.09		

z Measured by USGS personnel.



GROUND-WATER LEVELS
ONTARIO COUNTY

305

425840077133901. Local number, Ot 900.

LOCATION.--Lat 42°58'40", long 77°13'39", Hydrologic Unit 04140201, at New York State Thruway Interchange 43, near Manchester.
Owner: New York State Thruway Authority.

AQUIFER.--Confined zones in Camillus Shale of the Salina Group of Late Silurian age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 inch, depth 139 ft, cased to 11 ft, open hole.

INSTRUMENTATION.--Float tape read weekly by observer; periodic measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 556.70 ft above sea level. Measuring point: Top of instrument shelf, 11.63 ft above land-surface datum.

REMARKS.--Water in well casing above land surface is subject to freezing during extreme cold periods.

PERIOD OF RECORD.--May 1955 to August 1995 (discontinued).

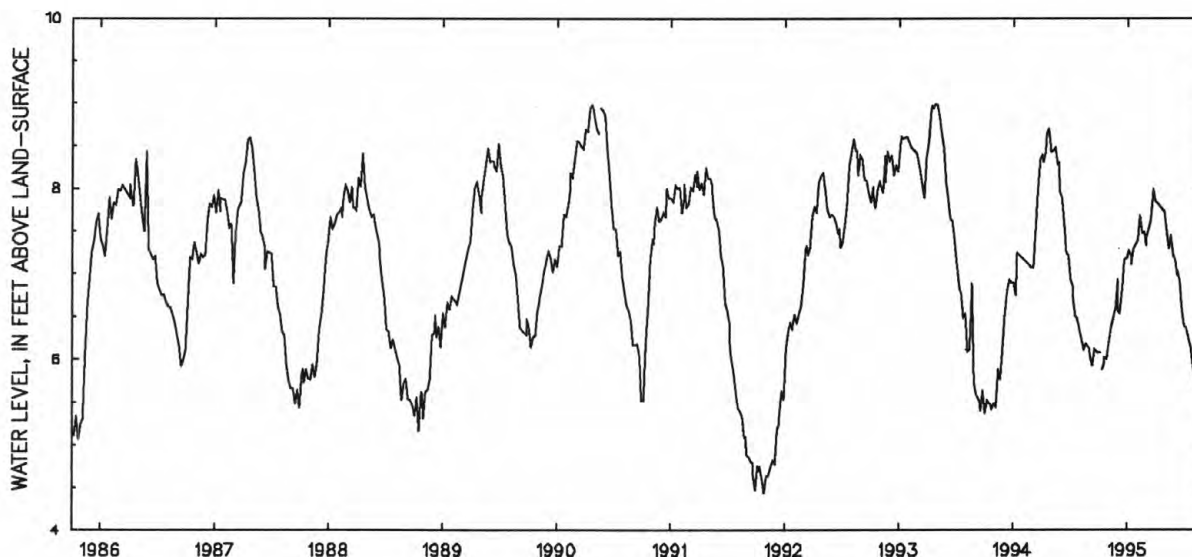
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.14 ft above land-surface datum, Mar. 15, 1976; lowest observed, 4.44 ft above land-surface datum, Oct. 28, 1991.

EXTREMES FOR CURRENT PERIOD.--Highest water level observed, 7.99 ft above land-surface datum, Mar. 20; lowest observed, 5.15 ft above land-surface datum, Aug. 28.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03	6.08	NOV 28	z6.94	JAN 16	7.29	MAR 13	7.63	MAY 15	7.45	JUL 10	6.24
10	5.88	28	6.57	23	7.33	20	7.99	22	7.21	17	6.14
17	z5.95	DEC 05	6.54	30	7.40	27	7.85	29	7.17	18	z6.17
17	6.03	12	6.82	FEB 06	7.68	APR 03	7.82	JUN 05	6.97	24	5.98
24	6.00	19	7.17	13	7.48	17	7.74	05	z7.04	31	5.79
31	6.18	26	7.18	20	7.49	24	7.72	12	6.92	AUG 07	5.68
NOV 07	6.38	JAN 02	7.27	27	7.33	25	z7.74	19	6.61	14	5.67
14	6.48	09	7.21	28	z7.41	MAY 01	7.54	26	6.38	21	5.38
21	6.62	10	z7.10	MAR 06	7.54	08	7.30	JUL 03	6.37	28	5.15

z Measured by USGS personnel.



GROUND-WATER LEVELS
OTSEGO COUNTY

424136075025101. Local number, Og 23.

LOCATION.--Lat 42°41'36", long 75°02'51", Hydrologic Unit 02050101, at "Wild Creek Farm", 0.6 mi northeast of intersection of State Highway 205 and Kallan Road, 2.2 mi north of Hartwick, and 3.2 mi southeast of Oaksville. Owner: Thomas Kallan.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused well, diameter 36 inch, depth 15 ft, stone-lined.

INSTRUMENTATION.--Weekly measurement with chalked tape by observer; periodic measurement by USGS personnel.

DATUM.--Elevation of land-surface datum is 1,432.44 ft above sea level. Measuring point: Top edge of hole drilled through concrete well cover, at land-surface datum.

PERIOD OF RECORD.--May 1953 to August 1995 (discontinued). Records for May 1953 to September 1976 are unpublished and available in files of the Geological Survey.

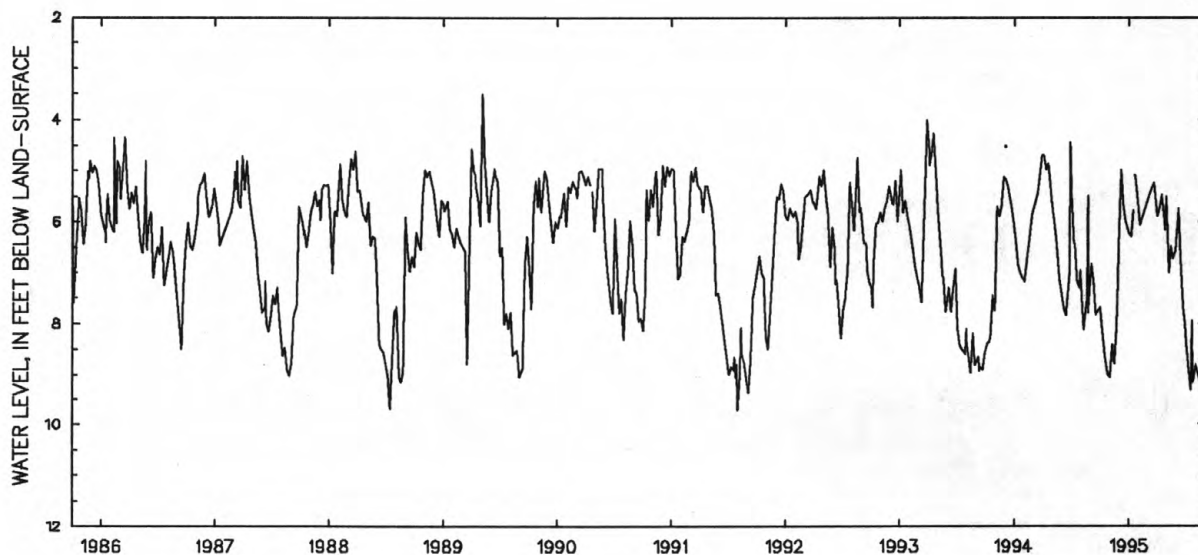
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.98 ft below land-surface datum, Apr. 2, 1960, Sept. 19, 1977; lowest measured, 12.66 ft below land-surface datum, Nov. 14, 1964.

EXTREMES FOR CURRENT PERIOD.--Highest water level measured, 4.97 ft below land-surface datum, Dec. 7; lowest measured, 9.45 ft below land-surface datum, Aug. 28.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10	8.35	DEC 07	4.97	JAN 27	5.60	APR 29	5.50	JUN 30	8.36
17	8.75	08	z4.98	FEB 03	6.06	MAY 06	7.00	JUL 07	8.80
18	z8.73	15	5.67	MAR 07	z5.43	13	6.49	14	9.30
24	9.00	22	6.00	22	5.22	20	6.75	17	7.95
31	9.05	30	6.24	30	5.90	27	6.60	21	9.15
NOV 07	8.40	JAN 06	6.30	APR 08	5.70	JUN 04	5.74	24	9.06
14	8.80	14	5.78	15	5.46	14	z6.74	31	8.80
21	8.00	18	z5.07	22	5.98	19	7.67	AUG 07	9.00
30	6.27	20	5.10	26	z6.17	25	8.00	28	9.45

z Measured by USGS personnel.



GROUND-WATER LEVELS
STEUBEN COUNTY

307

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.

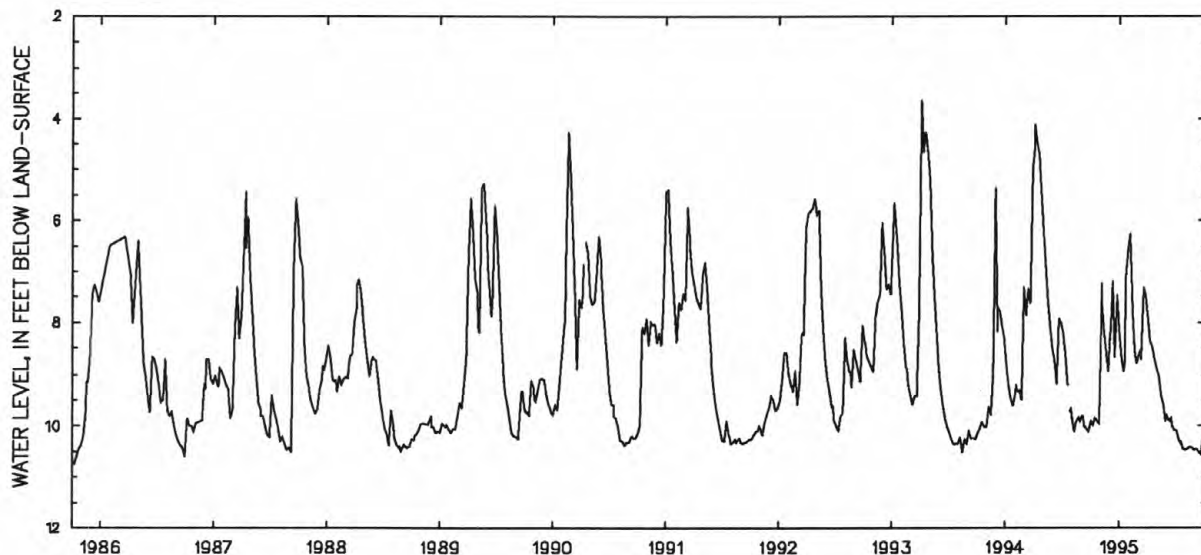
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.64 ft below land-surface datum, June 25, 1972; lowest measured, 10.84 ft below land-surface datum, Sept. 22, 1966.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 6.25 ft below land-surface datum, Feb. 5; lowest measured, 10.55 ft below land-surface datum, Sept. 17.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02	9.90	DEC 02	z8.19	JAN 29	6.53	APR 02	7.96	MAY 30	z9.77	JUL 23	10.44
09	9.98	04	8.34	FEB 05	6.25	09	8.36	JUN 04	9.84	30	10.47
16	9.85	11	7.19	12	7.80	16	8.45	11	9.90	AUG 13	10.40
23	9.90	18	8.66	19	8.53	20	z8.58	13	z9.82	20	10.41
30	9.94	25	7.44	26	8.79	23	8.72	18	10.00	27	10.46
NOV 03	z7.23	JAN 01	8.15	MAR 05	8.60	30	8.88	25	10.07	SEP 03	10.45
06	7.59	08	8.71	06	z8.54	MAY 07	9.06	JUL 02	10.08	10	10.48
13	8.10	15	8.94	12	8.72	14	9.39	09	10.27	17	10.55
20	8.61	17	z8.73	19	7.32	21	9.61	16	10.35	24	10.23
27	8.94	22	7.12	26	7.45	28	9.90	17	z10.30	26	z10.23

z Measured by USGS personnel.



GROUND-WATER LEVELS
STEUBEN COUNTY

420811077021501. Local number, Sb 473.

LOCATION.--Lat 42°08'11", long 77°02'15", Hydrologic Unit 02050105, Denison Park, at Corning. Owner: City of Corning.

AQUIFER.--Unconfined aquifer in outwash sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused well, diameter 6 inch, depth 83 ft, cased to 83 ft, open end.

INSTRUMENTATION.--Periodic measurements with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 914.31 ft above sea level. Measuring point: Top of well casing, 3.20 ft above land-surface datum.

REMARKS.--Water level affected by stage of Chemung River.

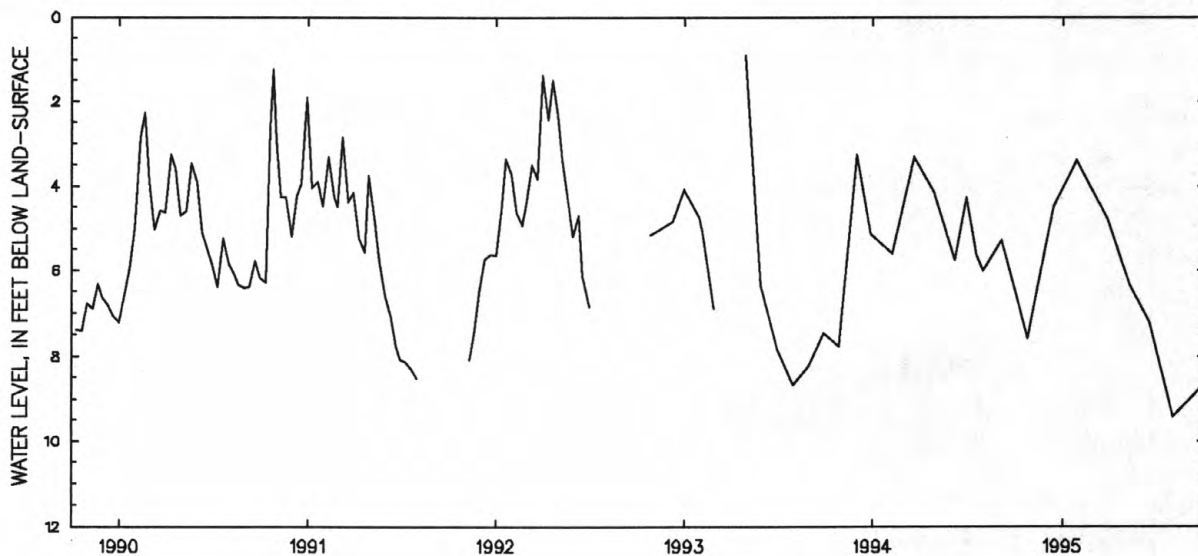
PERIOD OF RECORD.--September 1989 to August 1995 (discontinued). Records for December 1985 to August 1987 collected by, and available in files of, the Susquehanna River Basin Commission.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.90 ft below land-surface datum, Apr. 29, 1993; lowest measured, 9.42 ft below land-surface datum, July 31, 1995.

EXTREMES FOR CURRENT PERIOD.--Highest water level measured, 3.39 ft below land-surface datum, Jan. 27; lowest measured, 9.42 ft below land-surface datum, July 31.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	7.59	JAN 27	3.39	MAY 10	6.36	JUL 31	9.42
DEC 15	4.49	MAR 27	4.76	JUN 16	7.21		



GROUND-WATER LEVELS

309

WYOMING COUNTY

423739077595501. Local number, Wo 1.

LOCATION.--Lat 42°37'39", long 77°59'55", Hydrologic Unit 04130002, Letchworth State Park, near Castile. Owner: 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.

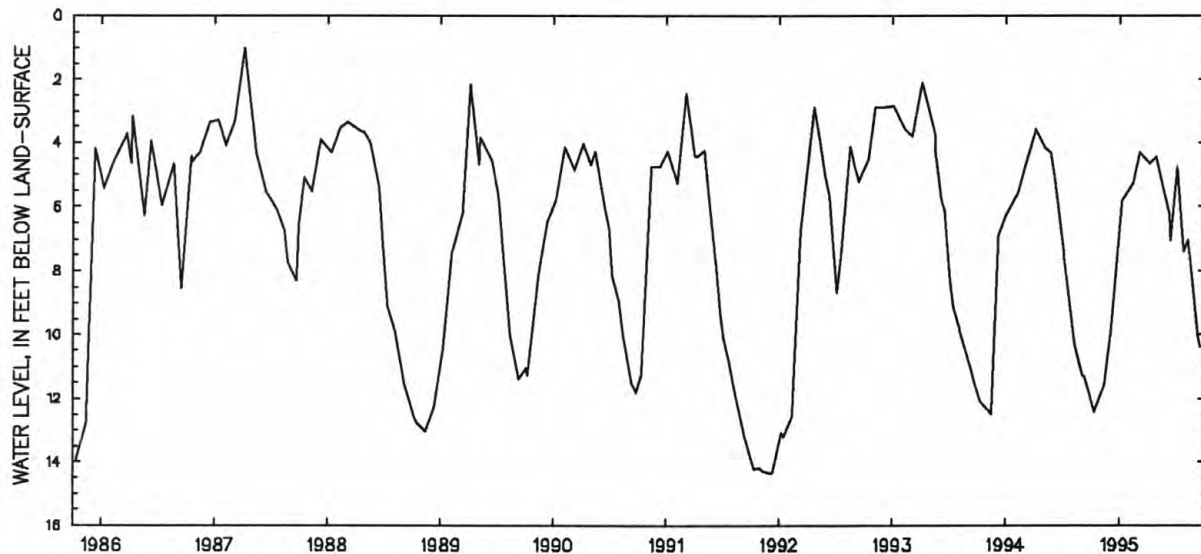
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.5 ft below land-surface datum, Apr. 5, 1947; lowest measured, dry, Dec. 6-27, 1964, Jan. 2, 1965.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 4.32 ft below land-surface datum, Mar. 4; lowest measured, 12.42 ft below land-surface datum, Oct.12.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 12	12.42	DEC 04	9.88	MAR 04	4.32	MAY 06	4.91	JUL 02	4.76	SEP 06	10.06
NOV 12	11.59	JAN 08	5.81	APR 05	4.65	JUN 05	z6.24	24	z7.40	z13	10.38
14	z11.36	FEB 12	5.28	26	z4.44	11	z7.04	AUG 05	7.01		

z Measured by USGS personnel.



GROUND-WATER LEVELS
WYOMING COUNTY

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, 11.39 ft, below land-surface datum, Jan. 23, 24; lowest recorded, 13.83 ft, below land-surface datum, Sep. 8-13.

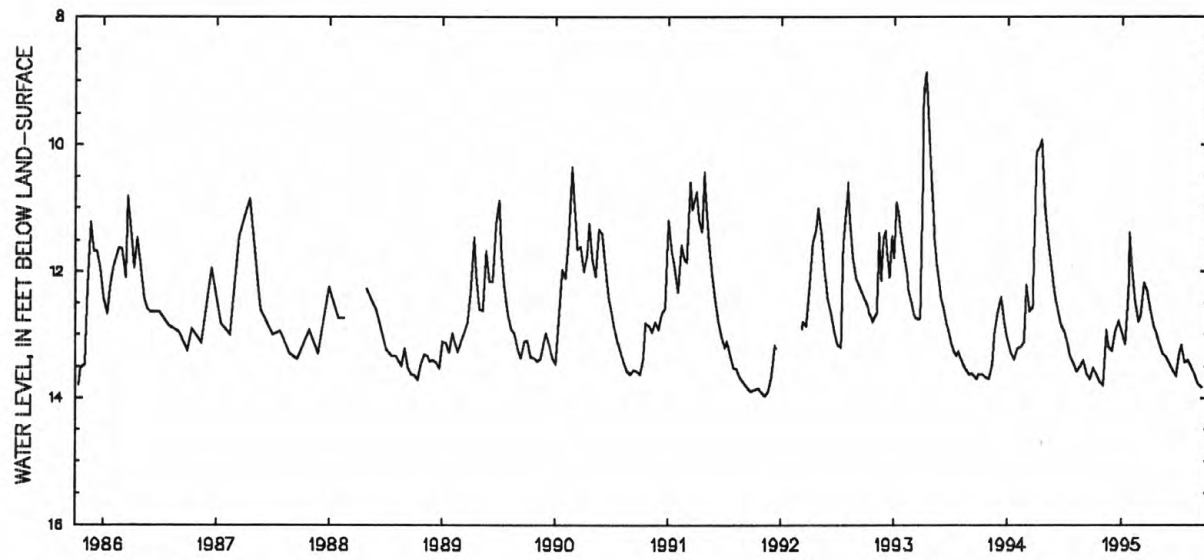
WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.50	13.66	13.24	12.98	11.98	12.61	12.64	13.17	13.45	13.15	13.40	13.79
2	13.49	13.33	13.24	12.99	12.05	12.54	12.68	13.19	13.47	13.02	13.42	13.79
3	13.49	13.10	13.25	13.01	12.12	12.54	12.72	13.19	13.48	13.00	13.45	13.80
4	13.49	12.99	13.26	13.04	12.17	12.56	12.74	13.20	13.49	13.03	13.47	13.80
5	13.50	12.97	13.24	13.07	12.24	12.57	12.76	13.21	13.49	13.09	13.48	13.81
6	13.52	12.97	13.16	13.08	12.31	12.56	12.79	13.23	13.50	13.02	13.46	13.81
7	13.55	12.95	13.06	13.10	12.35	12.47	12.81	13.26	13.51	13.02	13.46	13.82
8	13.57	12.93	13.01	13.13	12.38	12.33	12.83	13.27	13.53	13.07	13.48	13.82
9	13.61	12.92	12.98	13.13	12.42	12.22	12.86	13.29	13.54	13.13	13.49	13.83
10	13.63	12.92	12.94	13.14	12.46	12.18	12.87	13.30	13.55	13.16	13.50	13.83
11	13.65	12.95	12.90	13.17	12.51	12.17	12.88	13.29	13.53	13.18	13.54	13.83
12	13.67	12.97	12.90	13.18	12.55	12.17	12.88	13.28	13.50	13.22	13.53	13.83
13	13.68	12.98	12.85	12.99	12.58	12.17	12.89	13.28	13.50	13.26	13.48	---
14	13.69	13.01	12.80	12.71	12.62	12.17	12.89	13.28	13.51	13.29	13.48	---
15	13.71	13.04	12.80	12.53	12.66	12.17	12.89	13.29	13.54	13.32	13.49	---
16	13.72	13.08	12.80	12.45	12.70	12.17	12.89	13.30	13.57	13.35	13.50	---
17	13.74	13.12	12.82	12.41	12.73	12.19	12.90	13.30	13.59	13.38	13.54	---
18	13.74	13.15	12.80	12.41	12.76	12.24	12.92	13.31	13.61	13.40	13.56	---
19	13.75	13.17	12.80	12.41	12.78	12.27	12.93	13.33	13.63	13.40	13.59	---
20	13.75	13.19	12.79	12.31	12.79	12.30	12.95	13.35	13.65	13.43	13.62	---
21	13.75	13.21	12.78	11.81	12.79	12.34	12.97	13.37	13.66	13.46	13.64	---
22	13.76	13.22	12.78	11.47	12.79	12.36	12.99	13.39	13.68	13.48	13.67	---
23	13.76	13.24	12.78	11.39	12.79	12.39	13.00	13.40	13.69	13.49	13.69	---
24	13.76	13.26	12.79	11.41	12.79	12.41	13.01	13.41	13.70	13.49	13.71	---
25	13.77	13.28	12.80	11.49	12.79	12.45	13.02	13.41	13.71	13.46	13.73	---
26	13.78	13.30	12.84	11.57	12.79	12.48	13.05	13.41	13.64	13.45	13.74	---
27	13.78	13.32	12.86	11.63	12.80	12.51	13.06	13.42	13.38	13.45	13.75	---
28	13.78	13.31	12.88	11.71	12.71	12.53	13.10	13.43	13.31	13.46	13.76	---
29	13.78	13.26	12.91	11.79	---	12.56	13.12	13.44	13.30	13.43	13.77	---
30	13.79	13.24	12.94	11.85	---	12.58	13.14	13.44	13.29	13.40	13.77	---
31	13.80	---	12.96	11.91	---	12.61	---	13.45	---	13.40	13.78	---
MEAN	13.68	13.13	12.93	12.43	12.55	12.38	12.91	13.32	13.53	13.29	13.58	---
LOW	13.80	13.66	13.26	13.18	12.80	12.61	13.14	13.45	13.71	13.49	13.78	---
HIGH	13.49	12.92	12.78	11.39	11.98	12.17	12.64	13.17	13.29	13.00	13.40	---

GROUND-WATER LEVELS
WYOMING COUNTY

311

423743078070802. Local number, Wo 4--Continued.



QUALITY OF GROUND WATER

312

WATER-QUALITY DATA, WATER YEAR, OCTOBER 1994 TO SEPTEMBER 1995

STATION	NUMBER	LOCAL IDENT - IFYER	DATE	TUR-BID-ITY (NTU)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	OXYGEN, DIS-SOLVED (MG/L)	PH	CARBON	NITRO-	NITRO-	NITRO-	PHOS-
							WATER WHOLE LAB (STAND-ARD UNITS)	DIOXIDE DIS-SOLVED (MG/L AS CO2)	GEN, AMMONIA DIS-SOLVED (MG/L AS N)	GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)		
430854077304601	Mo 3	10-18-94	0.40	1320	1.5	7.6	15	<0.01	0.40	0.61	0.015	
		04-05-95	3.0	1380	1.2	7.5	15	<0.01	0.35	0.49	0.010	
430855077304202	Mo 2	10-18-94	13	976	0.2	7.6	9.5	0.02	0.46	<0.05	0.045	
		04-05-95	5.4	950	3.6	7.7	7.6	<0.01	0.40	0.06	0.030	
430912077313301	Mo 663	10-18-94	75	1670	<0.3	7.0	170	0.84	1.8	<0.05	0.300	
		04-05-95	40	1720	<0.1	6.9	158	0.61	1.9	<0.05	0.270	
430912077313302	Mo 664	10-18-94	30	21	<0.1	6.6	112	0.30	3.4	<0.05	0.320	
		04-05-95	40	19000	<0.1	6.8	89	2.20	3.2	<0.05	0.295	
430928077313802	Mo 665	10-18-94	90	2040	0.2	7.2	117	2.10	3.0	<0.05	0.420	
		04-05-95	75	2170	<0.1	7.1	144	1.80	3.9	<0.05	0.350	
430928077313803	Mo 666	10-18-94	100	2020	<0.1	7.0	173	9.20	11	<0.05	0.360	
		04-05-95	100	1840	<0.1	7.2	154	8.60	9.7	<0.05	0.410	
430928077314001	Mo 667	10-18-94	320	2840	1.1	7.2	125	1.10	15	<0.05	2.85	
		04-05-95	280	2510	<0.1	7.1	160	9.70	11	<0.05	5.15	
430928077314002	Mo 668	10-18-94	100	2680	0.2	6.9	161	5.50	7.4	<0.05	0.620	
		04-05-95	80	2850	<0.1	6.9	215	6.30	7.6	<0.05	0.450	
430932077311501	Mo 659	10-18-94	120	1200	0.2	7.3	14	0.04	0.30	<0.05	<0.005	
		04-14-95	60	1180	1.7	7.4	6.9	0.06	0.50	<0.05	0.010	

STATION	NUMBER	DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	SULFATE DIS-SOLVED (MG/L AS SO4)	IRON, TOTAL RECOV-ERABLE (MG/L AS FE)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
430854077304601		10-18-94	0.004	390	110	28	140	2.6	230	87	110	757
		04-05-95	0.002	380	110	27	N28	2.5	230	87	100	758
430855077304202		10-18-94	0.002	320	91	23	82	1.7	160	87	200	562
		04-05-95	<0.002	320	88	23	69	1.5	150	74	280	522
430912077313301		10-18-94	0.002	820	220	56	73	0.63	260	<1.0	18000	--
		04-05-95	<0.002	710	220	56	60	<0.50	220	0.80	20000	932
430912077313302		10-18-94	0.008	6300	1600	690	2700	30	7800	600	37000	14400
		04-05-95	<0.002	4800	1200	390	2300	26	6200	590	24000	12800
430928077313802		10-18-94	0.003	640	N240	37	250	0.50	240	<1.0	15000	1250
		04-05-95	<0.002	660	190	38	220	<0.50	240	0.60	12000	1220
430928077313803		10-18-94	0.002	780	190	73	140	9.4	98	<1.0	26000	1000
		04-05-95	<0.002	680	190	51	130	26	170	0.60	29000	1010
430928077314001		10-18-94	0.004	790	200	53	N290	30	260	<1.0	40000	1670
		04-05-95	0.004	790	N200	50	220	23	330	3.8	42000	1360
430928077314002		10-18-94	0.003	790	210	67	280	5.5	550	<1.0	34000	1450
		04-05-95	0.019	800	210	68	280	5.0	510	0.60	30000	1470
430932077311501		10-18-94	<0.002	400	76	48	77	3.1	270	11	11000	562
		04-14-95	<0.002	370	57	54	82	3.6	280	2.2	5400	--

QUANTITY OF PRECIPITATION
425129076082701 AT OTISCO ROAD NEAR TULLY, NY

313

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 2.07 in. (estimated) on August 18, 1994.

ANNUAL MAXIMUM.--Maximum daily precipitation 1.75 in. on June 12

RAINFALL ACCUMULATED (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.14	1.81	.01	.03	.03	.00	.00	.00	.00	e.20	.00	.00
2	e.00	.53	.00	.01	.00	.00	.00	.00	.80	.00	.00	.00
3	e.00	.01	.00	.00	.00	.00	.55	.00	.00	.00	e1.00	.00
4	e.00	.00	.00	.00	.11	.00	.41	.00	.01	.00	.00	.00
5	e.04	.07	.70	.00	.02	.04	.21	.02	.00	.02	e1.25	.21
6	e.02	.14	.13	.03	.00	.01	.00	.01	.00	.00	.00	.01
7	e.00	.00	.41	.10	.00	.00	.00	.00	.00	.00	.00	.00
8	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.71	.00
9	e.20	.11	.08	.00	.00	.00	.27	.05	.00	.00	.00	.51
10	e.04	.00	.04	.01	.00	.00	.00	.06	.01	.00	.00	.00
11	e.00	.00	.06	.00	.00	.00	.00	.19	.04	.00	.00	.00
12	e.00	.00	.00	.19	.00	.00	.43	.00	1.75	.00	.61	.00
13	e.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.25
14	e.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.10	.11
15	e.00	.00	.00	.52	.00	.00	.00	.01	.00	.26	.08	.00
16	e.00	.00	.01	.12	.00	.01	.00	.00	.00	.11	.00	.00
17	e.00	.00	.06	.00	.00	.04	.00	.02	.00	.65	.00	.01
18	e.10	.00	.05	.00	.00	.00	.00	.00	.00	.02	.00	.00
19	e.22	.00	.00	.00	.00	.00	.06	.01	.00	.00	.00	.00
20	e.02	.00	.00	.47	.00	.01	.00	.00	.00	.01	.00	.03
21	e.00	.37	.00	.20	.15	.14	.23	.00	.00	.02	.00	.00
22	e.00	.00	.00	.01	.00	.07	.08	.00	.00	.00	.00	.43
23	e.00	.00	.00	.00	.19	.00	.00	.00	.00	.02	.00	.01
24	e.00	.04	.00	.14	.07	.00	.00	.13	.00	.00	.00	.00
25	e.00	.00	.00	.01	.05	.00	.04	.02	.00	.01	.00	.00
26	e.02	.00	.00	.00	.00	.00	.00	.00	e.17	.46	.00	.00
27	.08	.10	.00	.00	.30	.00	.47	.00	.00	.04	.00	.00
28	.00	.18	.02	.00	.15	.00	e.01	.27	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.02	.00	.09	.00	.00	.00	.00
30	.00	.02	.00	.00	---	.08	.00	.05	.00	.00	.00	.00
31	1.20	---	.08	.00	---	.07	---	.00	---	.00	.67	---
TOTAL	2.08	3.38	1.65	1.84	1.07	0.49	2.78	0.94	2.78	1.82	4.42	1.57

e Estimated

CHEMICAL QUALITY OF PRECIPITATION

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 polyethylene and have a collection diameter of 11.26 in. 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 1994 TO SEPTEMBER 1995

MONTHLY DUSTFALL

DATE	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 03-NOV 01	0.90	0.28	0.04	0.08	0.21	2.8	0.20	0.28
NOV 01-DEC 01	2.3	0.53	0.43	0.12	5.3	33	14.0	78
FEB 28-MAR 29	3.3	0.96	5.6	0.14	8.0	12	1.70	0.13
MAR 29-MAY 03	0.37	0.06	0.13	0.01	0.30	0.50	0.05	0.36
MAY 03-JUN 09	4.8	1.2	0.24	0.72	0.50	20	2.20	3.8
JUN 09-JUL 03	1.0	0.19	0.24	0.50	0.80	1.7	0.47	1.1
JUL 03-AUG 10	1.5	0.46	0.17	0.56	0.90	4.4	0.17	1.5
AUG 10-31	0.62	0.09	0.03	0.10	0.40	1.9	0.02	0.14
AUG 31-SEP 29	0.91	0.18	0.09	<0.05	0.80	2.3	0.06	0.32

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE LAB (STAND- ARD UNITS)	ACIDITY (MG/L AS CACO3)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
OCT 03-NOV 01	0.48	0.035	0.019	16	5.3	2.4	13	60
NOV 01-DEC 01	1.40	<0.002	5.40	215	7.2	12	10	60
FEB 28-MAR 29	3.70	0.060	0.030	140	3.9	14	15	<40
MAR 29-MAY 03	0.18	0.018	0.005	6	6.2	1.3	<5	<40
MAY 03-JUN 09	1.80	0.410	0.072	73	4.8	5.1	11	<100
JUN 09-JUL 03	0.47	0.260	0.086	16	5.9	2.4	<5	<100
JUL 03-AUG 10	0.42	0.460	0.362	21	6.2	1.9	6	40
AUG 10-31	0.23	0.055	0.021	9	5.9	2.5	<5	30
AUG 31-SEP 29	0.33	0.085	0.034	12	6.1	1.5	<5	40

CHEMICAL QUALITY OF PRECIPITATION

315

IRONDEQUOIT CREEK BASIN

431021077315902 AT EMPIRE BOULEVARD, ROCHESTER, NY--continued

WETFALL CHEMICAL ANALYSES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

MONTHLY WETFALL

DATE	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 03-NOV 01	0.71	0.16	0.05	0.17	0.21	4.2	0.39	0.42
NOV 01-DEC 01	0.74	0.14	0.16	0.13	0.73	4.8	0.19	0.21
FEB 28-MAR 29	0.63	0.10	1.5	0.03	1.8	0.85	0.05	0.19
MAR 29-MAY 03	5.4	1.5	1.0	0.28	1.4	15	2.00	2.5
MAY 03-JUN 09	2.6	0.71	0.22	0.78	0.50	<1.0	1.90	2.5
MAY 03-JUN 09	0.59	0.12	0.04	0.19	0.60	1.4	0.11	0.49
JUN 09-JUL 03	1.4	0.16	0.10	0.20	0.50	5.1	0.87	1.7
JUL 03-AUG 10	0.29	0.06	0.03	0.03	0.80	6.5	0.52	0.69
AUG 10-31	0.26	0.05	<0.02	0.04	0.20	2.4	0.27	0.30
AUG 31-SEP 29	0.72	0.10	0.05	<0.05	<0.20	7.0	0.83	0.47

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE LAB (STAND- ARD UNITS)	ACIDITY (MG/L AS CACO3)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
OCT 03-NOV 01	0.82	0.070	0.046	36	4.3	4.5	8	60
NOV 01-DEC 01	0.36	0.030	0.012	42	4.0	7.1	6	<40
FEB 28-MAR 29	0.31	0.010	0.004	15	6.3	1.0	8	<40
MAR 29-MAY 03	2.70	0.140	0.041	77	5.2	5.4	15	60
MAY 03-JUN 09	1.80	0.400	0.091	70	4.1	10	8	<100
MAY 03-JUN 09	0.32	0.120	0.022	10	6.2	1.6	<5	<100
JUN 09-JUL 03	0.87	0.400	0.350	30	4.3	5.3	<5	<100
JUL 03-AUG 10	0.76	0.010	<0.002	61	3.5	9.5	<5	<10
AUG 10-31	0.05	0.015	0.006	8	5.4	2.7	<5	10
AUG 31-SEP 29	0.84	0.030	0.004	60	4.0	9.6	<10	20

CHEMICAL QUALITY OF PRECIPITATION

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 polyethylene 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 polyethylene 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 polyethylene 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 1994 TO SEPTEMBER 1995

MONTHLY DUSTFALL

DATE	CALCIUM TOTAL RECOVERABLE (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 03-NOV 01	2.5	0.42	0.11	0.09	0.16	4.6	0.29	0.52
NOV 01-DEC 01	1.5	0.32	0.22	0.13	0.52	3.4	0.44	0.48
DEC 01-JAN 05	2.0	0.52	0.76	0.07	1.1	4.9	0.60	0.90
JAN 05-FEB 01	0.30	0.05	0.51	0.02	1.1	1.0	0.16	0.20
FEB 01-28	1.0	0.22	1.9	0.07	3.0	2.3	0.20	0.41
FEB 28-MAR 29	0.99	0.11	1.3	0.06	1.4	1.1	0.10	0.28
MAR 29-MAY 03	6.0	1.8	0.63	0.35	1.2	8.6	0.65	2.4
MAY 03-JUN 15	4.8	0.81	0.23	1.0	1.2	9.0	0.13	2.4
JUN 15-JUL 03	1.3	0.16	0.07	0.10	0.60	1.6	0.61	0.34
JUL 03-AUG 11	5.9	1.6	0.27	0.22	1.2	18	0.98	1.6
AUG 11-29	0.91	0.09	0.04	0.07	0.30	1.8	0.06	0.24
AUG 29-OCT 05	3.2	0.72	0.14	<0.05	1.0	6.8	0.16	0.60

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE LAB (STAND- ARD UNITS)	ACIDITY (MG/L AS CACO3)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
OCT 03-NOV 01	1.10	0.055	0.009	27	6.5	1.9	6	80
NOV 01-DEC 01	0.54	0.030	0.007	19	6.3	2.3	9	40
DEC 01-JAN 05	1.50	0.030	0.004	50	6.0	2.2	12	40
JAN 05-FEB 01	0.31	0.005	<0.002	9	6.0	1.3	<5	<40
FEB 01-28	0.82	0.025	0.002	26	6.8	1	11	50
FEB 28-MAR 29	0.57	0.040	0.006	18	6.8	1.7	2	<40
MAR 29-MAY 03	2.30	0.260	0.028	57	6.4	3.9	14	<40
MAY 03-JUN 15	1.50	0.570	0.150	49	6.2	3.4	17	<100
JUN 15-JUL 03	0.61	0.035	0.006	13	5.9	1.1	36	<100
JUL 03-AUG 11	2.00	0.120	0.028	74	4.5	4.8	36	50
AUG 11-29	0.32	0.045	0.011	12	6.1	1.2	<5	20
AUG 29-OCT 05	1.30	0.110	0.014	38	6.2	1.2	9	40

LAKE ONTARIO BASIN

431248077564601 AT SUNY BROCKPORT, NY-continued

WETFALL CHEMICAL ANALYSES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

MONTHLY WETFALL

DATE	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 03-NOV 01	0.32	<0.10	0.01	0.05	0.21	2.1	0.17	0.21
NOV 01-DEC 01	2.1	0.29	0.26	0.12	0.63	3.9	0.27	0.48
DEC 01-JAN 05	0.61	0.17	0.44	0.05	0.80	2.9	0.26	0.28
JAN 05-FEB 01	0.40	0.12	0.45	0.02	1.1	1.9	0.24	0.28
FEB 01-28	2.1	0.52	1.7	0.09	2.8	4.4	0.72	0.88
FEB 28-MAR 29	3.4	0.77	2.1	0.31	2.5	6.2	0.74	1.7
MAR 29-MAY 03	3.0	0.51	0.23	0.18	1.0	5.8	0.95	1.3
MAY 03-JUN 15	5.2	1.4	0.21	0.75	0.90	16	0.96	2.0
JUN 15-JUL 03	1.0	0.18	0.08	0.11	0.60	4.7	0.67	1.0
JUL 03-AUG 11	0.81	0.47	0.19	0.16	1.1	17	1.30	1.6
AUG 11-29	0.47	0.06	0.06	0.07	0.20	2.0	0.16	0.22
AUG 29-OCT 05	1.6	0.79	0.07	<0.05	0.40	9.8	1.10	1.6

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE LAB (STAND- ARD UNITS)	ACIDITY (MG/L AS CACO3)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
OCT 03-NOV 01	0.37	0.010	0.002	20	4.6	3.4	<5	<40
NOV 01-DEC 01	0.73	0.070	0.005	25	6.5	1.4	10	50
DEC 01-JAN 05	0.92	0.010	0.002	68	4.8	5.9	9	60
JAN 05-FEB 01	0.52	0.005	0.003	20	4.6	3.1	<5	<40
FEB 01-28	1.70	0.033	0.012	44	4.5	3.9	8	70
FEB 28-MAR 29	1.40	0.100	0.006	50	6.3	3.8	7	<40
MAR 29-MAY 03	1.30	0.140	0.076	36	6.2	3.3	10	60
MAY 03-JUN 15	2.00	0.410	0.110	62	5.7	3.1	14	<100
JUN 15-JUL 03	0.68	0.055	0.024	28	4.3	4.5	<5	<100
JUL 03-AUG 11	2.20	0.075	0.004	134	3.5	17	11	50
AUG 11-29	0.14	0.030	0.012	9	5.8	3.1	<5	20
AUG 29-OCT 05	1.40	0.055	<0.010	82	3.9	10	<5	20

CHEMICAL QUALITY OF PRECIPITATION

LAKE ONTARIO BASIN

431248077564601 SUNY AT BROCKPORT, NY-continued

BULK CHEMICAL ANALYSES, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

MONTHLY COMPOSITE

DATE	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	NITRO- GEN, AM- MONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)
OCT 03-NOV 01	1.1	0.30	0.04	0.07	0.30	3.4	0.25	0.34
NOV 01-DEC 01	3.0	0.76	0.31	0.29	0.63	6.1	0.42	0.55
DEC 01-JAN 05	1.4	0.26	0.44	0.04	0.90	3.8	0.34	0.51
JAN 05-FEB 01	0.50	0.13	0.48	0.02	1.0	1.9	0.27	0.29
FEB 01-28	1.9	0.64	2.0	0.09	3.2	5.0	0.83	0.90
FEB 28-MAR 29	3.8	0.83	2.1	0.14	2.8	6.8	0.75	1.2
MAR 29-MAY 03	10	1.5	0.82	0.75	1.5	15	1.40	5.0
MAY 03-JUN 15	8.8	2.1	0.38	--	1.2	23	0.32	2.0
JUN 15-JUL 03	2.2	0.58	0.10	0.15	0.70	6.4	1.10	0.86
JUL 03-AUG 11	6.8	1.6	0.31	0.19	1.8	28	1.00	1.5
AUG 11-29	1.2	0.15	0.05	0.09	0.40	2.8	0.10	0.30
AUG 29-OCT 05	5.2	1.2	0.21	0.11	1.0	19	1.30	2.8

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)	PHOS- ORTHOPHOS- DIS- SOLVED (MG/L AS P)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	PH WATER WHOLE LAB (STAND- ARD UNITS)	ACIDITY (MG/L AS CACO3)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
OCT 03-NOV 01	0.59	0.030	0.010	18	5.3	2.5	<5	<40
NOV 01-DEC 01	0.93	0.150	0.080	34	6.4	2.8	12	50
DEC 01-JAN 05	0.77	0.015	0.006	66	4.5	4.5	15	<40
JAN 05-FEB 01	0.57	0.010	0.003	21	4.6	3.1	<5	<40
FEB 01-28	2.00	0.040	0.012	51	4.6	4.4	9	50
FEB 28-MAR 29	1.60	0.055	0.002	52	6.6	3.0	12	<40
MAR 29-MAY 03	3.50	0.530	0.016	95	6.4	5.9	21	100
MAY 03-JUN 15	2.40	0.870	0.220	91	6.1	4.9	21	<100
JUN 15-JUL 03	1.10	0.095	0.005	33	4.9	4.0	8	<100
JUL 03-AUG 11	3.40	0.160	0.005	188	3.5	21	21	210
AUG 11-29	0.31	0.045	0.011	15	6.6	1.3	<5	20
AUG 29-OCT 05	2.80	0.250	0.004	112	3.8	13	10	50

	Page		Page
A		C	
Access to WATSTORE data	16-17	Calendar, current water year	inside of
Accuracy of the records, stage and water discharge	12	Camillus, Ninemile Creek at	front cover
Acre-foot, definition of	17	Campbell, Cohocton River near	226-227
Akron, Murder Creek near	100-101	Canacadea Creek near Hornell	65-66
Algae, definition of	17	Canadaway Creek at Fredonia	56-57
Algal growth potential, definition of	17	Canandaigua Creek at Canandaigua Lake at	250
Allegheny River at Salamanca	76-77	Schaeffer Creek near	194
Allegheny River basin, crest-stage partial-record		Canandaigua Lake at Canandaigua	252
stations in	249-250	Canandaigua Outlet, at Chapin	194
surface-water station records in	76-80	tributary near Alloway	195-196
lakes in	81	Canaseraga Creek, above Dansville	252
Allen Creek near Rochester	156-161	at Shakers Crossing	122-123
Alloway, Canandaigua Outlet tributary near	252	Canistota River, at Arkport	124-125
Almond Lake near Almond	75	at West Cameron	54-55
Annual 7-day minimum, definition of	19	below Canacadea Creek, at Hornell	248
Aquifer, definition of	17	Cattaraugus County, ground-water levels	58-59
Arkport, Canistota River at	54-55	Cattaraugus Creek, at Gowanda	248
Arrangement of records, surface-water quality	13	South Branch near Otto	14
Artesian, definition of	17	Caughdenoy, Oneida River at	252
Artificial substrate, definition of	22	Cayuga County, ground-water levels	251
Ash mass, definition of	17	Cayuga Creek near Lancaster	281-282
Attica, Tonawanda Creek at	96-97	Cayuga Inlet, at Ithaca	82-83
Auburn, Owasco Lake near	201	near Ithaca	250
Owasco Outlet near	202-203	(Cayuga Lake) at Ithaca	240-241
Avon, Genesee River at	129-130	Cazenovia Creek at Ebenezer	283
B		Cells/volume, definition of	86-87
Bacteria, definition of	17	Cfs-day, definition of	251
Bainbridge, Susquehanna River at	246	Chadakoin River at Falconer	186-187
Baldwinsville, Seneca River at	205-206	Chapin, Canandaigua Outlet at	188
Ball Creek at Stow	250	Chautauqua County, ground-water levels in	88-89
Batavia, Tonawanda Creek at	98-99	Chautauqua Lake at Bemus Point	18
Bath, Cohocton River at	248	Chemical oxygen demand, definition of	18
Bear Creek at Ontario	251	Chemung, Chemung River at	79-80
Bed material, definition of	17	Chemung County, ground-water levels in	195-196
Bemus Point, Chautauqua Lake at	78	Chemung River, at Chemung	284-287
Big Creek near Howard	248	at Corning	78
Big Flats, Cuthrie Run near	249	at Elmira	18
Biochemical oxygen demand, definition of	17	Chenango County, ground-water levels in	71-72
Biomass, definition of	17	Chenango Forks, Chenango River near	288-289
Biomass pigment ratio, definition of	18	Chenango River, at Eaton	71-72
Black Brook at Tyre	199-200	at Greene	67-68
Black Creek at Churchville	139-140	at Sherburne	249
Black Rock Canal, at Black Rock Lock, Buffalo	94	near Chenango Forks	290-291
Blue-green algae, definition of	21	Chlorophyll, definition of	48-49
Bottom material, definition of	18	Churchville, Black Creek at	246
Brewerton, Oneida Lake at	239	Cincinnati, Otselic River at	247
Broome County, ground-water levels in	275-280	Classification of records, surface-water quality	42-43, 247
Buffalo, Black Rock Canal at Black Rock Lock	94	Cohocton River, at Bath	48-49
Delaware Park Lake at	250	at Cohocton	18
Lake Erie at	90	near Campbell	139-140
Niagara River at Anderson Park	93	Colloid, definition of	46-47
Niagara River at Black Rock Lock	95	Color unit, definition of	13
Niagara River at	91-92	Conesus Lake near Lakeville	249
Scajaquada Creek below Delaware Park Lake at	250	Conewango Creek at Waterboro	249
Buffalo Creek at Gardenville	84-85	Conklin, Susquehanna River at	65-66
Butternut Creek (tributary to Susquehanna River)			18
at Morris	36-37		128
Butternut Creek (tributary to Lake Ontario) near			249
Jamesville	235-236		40-41

	Page		Page
Constantia, Scriba Creek near	252	Erie, Lake (see Lake Erie)	
Contents, definition of	18	Erwins, Tioga River near	60-61
Continuing-record station, definition of	18	Euglenoids, definition of	21
Control, definition of	18	Explanation of the records	7-16
Control structure, definition of	18		
Cooperation	1	F	
Corning, Chemung River at	67-68	Falconer, Chadakoin River at	79-80
Cortland County, ground-water levels	292	Fall Creek near Ithaca	189-190
Cortland, Tioughnioga River at	44-45	Fayetteville, Limestone Creek at	252
Cowanesque Lake, PA	75	Fecal coliform bacteria, definition of	17
Coy Glen Creek at Ithaca	252	Fecal streptococcal bacteria, definition of	17
Crest-stage partial-record stations,		Fire algae, definition of	21
Annual maximum discharge at	246-252	Fish Creek, East Branch at Taberg	231-232
Cubic feet per second per square mile,		Fishers, Irondequoit Creek near	143-148
definition of	18	Fivemile Creek near Kanona	62-63
Cubic foot per second, definition of	18	Flint Creek at Phelps	197-198
Cuthrie Run near Big Flats	249	Fort Niagara, Niagara River (Lake Ontario) at	107-109
		Fredonia, Canadaway Creek at	250
D		Frequency-of-sampling notation	15
Dansville, Canaseraga Creek above	122-123	G	
Data collection and computation, records of ground-		Gage height, definition of	19
water levels	15	Gaging station, definition of	19
records of stage and water discharge	8-9	Garbutt, Oatka Creek at	136-137
Data presentation, records of ground-water levels	15-16	Gardenville, Buffalo Creek at	84-85
records of stage and water discharge	9-12	Genesee River, at Avon	129-130
records of surface-water quality	12-15	at Ballantyne Bridge near Mortimer	138
Definition of terms	17-23	at Charlotte Docks, Rochester	144-146
Delaware Park Lake at Buffalo	250	at Portageville	119-120
Diatoms, definition of	21	at Rochester	141-142
Discharge at partial-record stations and		at Wellsville	117-118
miscellaneous stations	246-255	near Mount Morris	126-127
Discharge, definition of	18	Gowanda, Cattaraugus Creek at	82-83
Discontinued surface-water stations, List of,		Great Brook below Victor	191-193
in downstream order	x-xiii	Greece, Slater Creek near	251
Discontinued surface-water-quality stations, List of,		Green algae, definition of	21
in downstream order	xiii-xiv	Greene, Chenango River at	247
Dissolved, definition of	19	Ground-water levels, explanation of records	15-16
Diversions:		water level records	275-311
Susquehanna River basin	73	water quality records	312
Waneta Lake to Keuka Lake at Keuka	64	Ground-water wells, List of, by county or independent	
Diversity index, definition of	19	city	ix-x
Downstream order system, station identification		Guyanoga, Sugar Creek at	251
numbers	7		
Drainage area, definition of	19	H	
Drainage basin, definition of	19	Hammond Lake, PA	74
Dresden, Keuka Lake Outlet at	184-185	Hammondsport, Keuka Inlet (Keuka Lake) at	183
Dry mass, definition of	17	Harbor Brook, at Hiawatha Boulevard, Syracuse	220-221
		at Syracuse	218-219
E		Hardness, definition of	19
East Branch Allen Creek at Pittsford	149-155	Hilton, West Creek near	250
East Branch Fish Creek at Taberg	231-232	Honeoye Creek at Honeoye Falls	132-133
East Sidney, East Sidney Lake at	73	Honeoye Lake near Honeoye	131
Ouleout Creek at	32-33	Homell, Canacadea Creek near	56-57
East Sidney Lake at East Sidney	73	Canisteo River below Canacadea Creek at	58-59
East Victor, Mud Creek at	252	Howard, Big Creek near	248
Eaton, Chenango River at	246	Hydrographic comparisons	5-6
Ebenezer, Cazenovia Creek at	88-89	Hydrologic unit, definition of	19
Ellicott Creek below Williamsville	104-105		
Elmira, Chemung River at	249	I	
Newtown Creek at	69-70	Identifying estimated daily discharge, records of	
Erie (Barge) Canal at Lock 30, Macedon	106	stage and water discharge	11

	Page		Page
Inch-pound units to		Susquehanna River basin,	
International System units (SI),	inside of	lakes and reservoirs in.....	73-75
Factors for converting	back cover	Tioga Lake, PA.....	74
Index, Oaks Creek at	30-31	Whitney Point Lake at Whitney Point	73
Instantaneous discharge, definition of	19	Lakeville, Conesus Lake near	128
Introduction.....	1	Lancaster, Cayuga Creek near.....	86-87
Irondequoit Creek,		Latitude-longitude system, station identification	
at Blossom Road, Rochester.....	162-170	numbers	8
at Empire Boulevard, Rochester.....	171-179	Ley Creek at Park Street, Syracuse	222-223
near Fishers	143-148	Limestone Creek at Fayetteville.....	252
Ischua Creek tributary near Machias.....	249	Linden, Little Tonawanda Creek at.....	250
Itaska, Tioughnioga River at	247	Lindley, Tioga River at	52-53, 248
Ithaca, Cayuga Inlet at	251	Lisle, Tioughnioga River at	247
Cayuga Inlet (Cayuga Lake) at	188	Little Elk Creek near Westford	246
Cayuga Inlet near.....	186-187	Little Tonawanda Creek at Linden.....	250
Coy Glen Creek at	252	Liverpool, Onondaga Lake at.....	230
Fall Creek near	189-190	Location of gaging stations and observation wells	
		(maps)	28-29
J		Lyndonville, Johnson Creek near.....	251
Jamesville, Butternut Creek near	235-236		
Johnson Creek near Lyndonville	251	M	
		Macedon, Erie (Barge) Canal at Lock 30.....	106
K		Machias, Ischua Creek tributary near.....	249
Kanona, Fivemile Creek near.....	62-63	Madison County, ground-water levels	293
Keuka, diversion from		Marietta, Ninemile Creek near.....	224-225
Waneta Lake to Keuka Lake at.....	64	Meadow Brook at Hurlburt Road, Syracuse.....	237-238
Keuka Inlet (Keuka Lake) at Hammondsport.....	183	Mean concentration (sediment), definition of	22
Keuka Lake Outlet at Dresden	184-185	Mean discharge, definition of	18
		Merrill Creek tributary near Texas Valley	247
L		Methylene blue active substance, definition of	19
Laboratory measurements, records of surface-		Micrograms per gram, definition of	19
water quality.....	13	Micrograms per liter, definition of	19
Lake Erie at Buffalo.....	90	Milligrams of carbon per area or volume per unit time,	
Lake Erie, Streams tributary to, crest-stage		definition of.....	21
partial-record stations for	250	Milligrams of oxygen per area or volume per unit time,	
surface-water station records for	82-90	definition of.....	21
Lake Ontario, at Oswego.....	245	Milligrams per liter, definition of.....	19
Lake Ontario, Streams tributary to, crest-stage		Miscellaneous sites,	
partial-record stations for	251-252	Analyses of samples collected at	256-274
discharge measurements at miscellaneous		Discharge measurements made at.....	253-255
sites in.....	253-255	Monroe County, ground-water levels.....	294-302
surface-water station records for	110-245	quality of ground water	312
lakes and reservoirs in	244	Montour Falls, Catharine Creek at	251
Lakeland, Ninemile Creek at.....	228-229	Morris, Butternut Creek at	36-37
Lakes and reservoirs:		Mortimer, Genesee River	
Allegheny River basin, lakes in	81	at Ballantyne Bridge near	138
Almond Lake near Almond	75	Mount Morris, Genesee River near	126-127
Canandaigua Lake at Canandaigua.....	194	Mount Morris Lake near Mount Morris	121
Cayuga Inlet (Cayuga Lake) at Ithaca	188	Mud Creek, at East Victor.....	252
Chautauqua Lake at Bemus Point.....	78	Murder Creek near Akron	100-101
Conesus Lake near Lakeville.....	128		
Cowanesque Lake, Pa.	75	N	
East Sidney Lake at East Sidney.....	73	National Geodetic Vertical Datum of 1929	
Erie, Lake, at Buffalo	88	(NGVD), definition of	19
Hammond Lake, Pa.	74	National Stream-Quality Accounting Network station	
Honeoye Lake near Honeoye.....	132	definition of	20
Keuka Inlet (Keuka Lake) at Hammondsport	183	Niagara River (Lake Ontario) at Fort Niagara	108-110
Mount Morris Lake near Mount Morris.....	122	Natural substrates, definition of	22
Oneida Lake at Brewerton	239	Nedrow, Onondaga Reservoir near	213
Onondaga Lake at Liverpool	230	New Haven, Catfish Creek at	252
Onondaga Reservoir near Nedrow.....	213	Newtown Creek at Elmira.....	69-70
Ontario, Lake, at Oswego	245	Niagara County, ground-water levels.....	303-304
Streams tributary to,		Niagara River, at Buffalo	91-92
lakes and reservoirs in	244	(Lake Ontario) at Fort Niagara	107-109
Owasco Lake near Auburn	201	at Anderson Park, Buffalo	93
Seneca Lake at Watkins Glen	182	at Black Rock Lock, Buffalo	95
Skaneateles Lake at Skaneateles.....	204	Niagara River, Streams tributary to,	
		crest-stage partial-record stations for	250

	Page		Page
discharge measurements at miscellaneous sites in.....	253	Polychlorinated naphthalenes (PCNs), definition of.....	21
surface-water station records for	96-106	Portageville, Genesee River at	119-120
Ninemile Creek, at Camillus	226-227	Precipitation quantity records	313
at Lakeland	228-229	chemical quality records.....	314-318
near Marietta.....	224-225	Primary productivity, definition of.....	21
North Atlantic slope basins, surface-water station records in	28-70	Publications on Techniques of Water-Resources Investigations	24-26
Northrup Creek at North Greece	110-116		
		R	
O		Rapids, Tonawanda Creek at.....	102-103
Oaks Creek at Index	30-31	Recoverable from bottom material, definition of.....	18
Oatka Creek, at Garbutt	136-137	Remark codes, surface-water quality	14
at Warsaw	134-135	Reservoirs (see Lakes and reservoirs).....	
Ohio River basin (see Allegheny River basin)		Rochester, Allen Creek near	156-161
Olean Creek near Olean	249	Genesee River at.....	141-142
Oneida Creek at Oneida	233-234	Irondequoit Creek at Blossom Road	162-170
Oneida Lake at Brewerton.....	239	Irondequoit Creek at Empire Boulevard	171-179
Oneida River at Caughdenoy	240-241	Rockdale, Unadilla River at	38-39, 246
Onondaga Creek, at Dorwin Avenue, Syracuse	214-215	Runoff in inches, definition of	21
at Spencer Street, Syracuse.....	216-217		
Onondaga Creek Tributary #6		S	
below main mudboil depression area, Tully	207-212	St. Lawrence River basin, surface-water station records in.....	91-245
Onondaga Lake at Liverpool.....	230	St. Lawrence River main stem, surface-water station records in.....	91-95, 107-109
Onondaga Reservoir near Nedrow	213	Salamanca, Allegheny River at	76-77
On-site measurements and sample collection, records of surface-water quality	13	Scajaquada Creek, below Delaware Park Lake at Buffalo..	93-94
Ontario, Bear Creek at	251	Schaeffer Creek near Canandaigua	252
Ontario County, ground-water levels	305	Scriba Creek near Constantia	252
Ontario, Lake (see Lake Ontario).....		Sea level, definition of.....	21
Organic carbon (OC), definition of	20	Sediment, records of surface-water quality	13
Organic mass, definition of	18	Sediment, definition of.....	21
Organism, definition of	20	Seneca Lake at Watkins Glen.....	182
Organism count/area, definition of.....	20	Seneca River at Baldwinsville	205-206
Organism count/volume, definition of	20	Shakers Crossing, Canaseraga Creek at	124-125
Oswego, Lake Ontario at	245	Sherburne, Chenango River at	42-43, 247
Oswego River at Lock 7	242-243	Skaneateles Lake at Skaneateles	204
Oswego River at Lock 7, Oswego.....	242-243	Slater Creek near Greece.....	251
Other records available, stage and water discharge.....	12	Solute, definition of	22
Otsego County, ground-water levels	306	South Addison, Tuscarora Creek above	248
Otselic River at Cincinnatus.....	46-47	South Branch Cattaraugus Creek near Otto.....	250
Otto, South Branch Cattaraugus Creek near.....	250	South Dansville, Stony Brook trib	251
Ouleout Creek at East Sidney.....	32-33	Special networks and programs.....	7
Owasco Lake near Auburn	201	Specific conductance, definition of.....	22
Owasco Outlet near Auburn	202-203	Stage and water-discharge records, Explanation of	8-11
Owego, Catatonk Creek at	248	Stage-discharge relation, definition of	22
Owego Creek near	248	Station identification numbers	7
Susquehanna River at	247	Sterling Creek at Sterling.....	180-181
		Steuben County, ground-water levels	307-308
P		Stony Brook trib at South Dansville	251
Parameter code, definition of	20	Stow, Ball Creek at	250
Partial-record station, definition of	20	Streamflow, definition of	22
Partial-record stations and miscellaneous sites, Analyses of samples collected at	256-274	Substrate, definition of.....	22
Discharge at	246-255	Sugar Creek, at Guyanoga.....	251
Particle-size, definition of	20	Summary of hydrologic conditions	2-6
Particle-size classification, definition of	20	Surface area, definition of	22
Percent composition, definition of	20	Surface-water quality, explanation of records.....	12-15
Periphyton, definition of	20	Surface-water station records	30-245
Pesticides, definition of.....	20	Surface-water stations, List of, in downstream order	vii-ix
Phelps, Flint Creek at.....	197-198	Surface-water stations, List of discontinued, in downstream order	x-xiii
Phytoplankton, definition of.....	20	Surface-water-quality stations, List of discontinued, in downstream order	xiii-xiv
Picocurie, definition of	20		
Pittsford, East Branch Allen Creek at	149-155		
Plankton, definition of	20		
Polychlorinated biphenyls (PCBs), definition of	21		

	Page		Page
Surficial bed material, definition of	22	Total load, definition of	23
Suspended, definition of	22	Total organism count, definition of	20
Suspended, recoverable, definition	22	Total, recoverable, definition of	23
Suspended sediment, definition of	21	Total sediment discharge, definition of	22
Suspended-sediment concentration, definition of	21	Tully, Onondaga Creek Tributary #6 below main mudboil area depression near	207-212
Suspended-sediment discharge, definition of	21	Tuscarora Creek above South Addison	248
Suspended, total, definition of	22	Tyre, Black Brook at	199-200
Susquehanna River, at Bainbridge	246		
at Conklin	40-41	U	
at Owego	247	Unadilla, Susquehanna River at	34-35, 246
at Unadilla	34-35, 246	Unadilla River at Rockdale	38-39, 246
at Vestal	247		
at Windsor	246	V	
near Waverly	50-51, 248	Vestal, Susquehanna River at	247
Susquehanna River basin, crest-stage partial-record stations in	246-249	Victor, Great Brook below	191-193
discharge measurements at miscellaneous sites in	253	W	
diversions from	75	Warsaw, Oatka Creek at	134-135
surface-water stations record in	30-72	Water-discharge records, Explanation of, (see Stage and water-discharge records, Explanation of)	13
lakes and reservoirs in	73-75	Water temperatures, records of surface-water quality	23
Syracuse, Harbor Brook at	218-219	Water year, definition of	249
Harbor Brook at Hiawatha Boulevard	220-221	Waterboro, Conewango Creek at	182
Ley Creek at Park Street	222-223	Watkins Glen, Seneca Lake at	16-17
Meadow Brook at Hurlburt Road	237-238	WATSTORE, access to	50-51, 248
Onondaga Creek at Dorwin Avenue	214-215	Waverly, Susquehanna River near	23
Onondaga Creek at Spencer Street	216-217	WDR, definition of	23
		Weighted average, definition of	7
T		Wells, system for numbering	117-118
Taberg, East Branch Fish Creek at	231-232	Wellsville, Genesee River at	250
Taxonomy, definition of	22	West Creek near Hilton	248
Texas Valley, Merrill Creek tributary near	247	West Cameron, Canisteo River at	246
Time-weighted average, definition of	23	Westford, Little Elk Creek near	18
Tioga Lake, PA	74	Whitney Point, Whitney Point Lake at	73
Tioga River, at Lindley	52-53, 248	Whitney Point Lake at Whitney Point	104-105
near Erwins	60-61	Williamsville, Ellicott Creek below	246
Tioughnioga River, at Cortland	44-45	Windsor, Susquehanna River at	23
at Itaska	247	WRD, definition of	23
at Lisle	247	WSP, definition of	309-311
Tonawanda Creek, at Attica	96-97	Wyoming County, ground-water levels	
at Batavia	99-99		
at Rapids	102-103	Z	
Tons per acre-foot, definition of	23	Zooplankton, definition of	21
Tons per day, definition of	23		
Total (as used in tables of chemical analyses), definition of	23		
Total coliform bacteria, definition of	17		
Total in bottom material, definition of	18		

CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
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
<i>Area</i>		
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
<i>Volume</i>		
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
<i>Flow</i>		
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
<i>Mass</i>		
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.



U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
903 Hanshaw Road
Ithaca, NY 14850
